



Hangar 1 Data Summary Submittal

Low Occupancy Area of Zone 5
Former Naval Air Station Moffett Field, California

prepared on behalf of
Planetary Ventures, LLC

prepared by
Rincon Consultants, Inc.

March 2024

Table of Contents

Acronyms and Abbreviations	iii
Executive Summary	iv
1 Introduction	1
2 Attainment of Project Cleanup Goals.....	2
2.1 Visual Inspections.....	2
2.2 Confirmation Sampling Results	2
2.2.1 Initial Abatement and Sampling Efforts.....	3
2.2.2 Evaluation of the Confirmation Wipe Sampling Data	3
3 Data Usability Assessment.....	4
3.1 Data Verification	4
3.2 Data Validation.....	6
3.3 Data Precision	6
3.3.1 Laboratory Duplicate Samples.....	6
3.3.2 Field Duplicate Samples.....	7
3.4 Data Accuracy/Bias.....	7
3.4.1 Laboratory QC Samples	7
3.4.2 Laboratory Surrogate Spikes	8
3.4.3 Field QC Samples	8
3.5 Summary of Representativeness, Completeness, and Comparability	9
3.5.1 Representativeness	9
3.5.2 Completeness	9
3.5.3 Comparability	10
3.6 Sensitivity	10
4 Clearance Wipe Sampling Results	11
4.1 Clearance Wipe Re-Sampling Activities and Results.....	11
4.1.1 Zone 5 Enclosure C/D	11
4.1.2 Zone 5 Enclosure A/B	11
4.2 Data Review for Clearance Wipe Samples.....	12
5 Conclusions.....	13
6 References.....	14

Tables

Table 1	95-Percent UCL for Confirmation Wipe Samples.....	3
Table 2	Lead Wipe Sample Summary.....	5
Table 3	PCB Wipe Sample Summary – Enclosure C/D	5



Table 4	PCB Wipe Sample Summary – Enclosure A/B	6
Table 5	Laboratory Duplicate Sample Summary	7
Table 6	Field Duplicate Sample Summary	7
Table 7	Laboratory QC Sample Summary	8
Table 8	Field QC Sample Summary	8
Table 9	Completeness for Confirmation Wipe Samples	10
Table 10	Sensitivity Comparison for Confirmation Wipe Samples	10

Figures

Figure 1 Plan Map and Cross Section of Zone 5

Attachments

Attachment 1 NACE Inspection Forms

Attachment 2 Tabulated PCB and Lead Confirmation Wipe Sampling Analytical Results

Attachment 3 Confirmation Sampling Analytical Reports

Attachment 4 ProUCL Input and Output Files

Attachment 5 Data Validation Reports

Attachment 6 Clearance Sampling Summary and Laboratory Reports



Acronyms and Abbreviations

CCC	Certified Coating Company
DCB	Decachlorobiphenyl
DQO	Data Quality Objective
DSS	Data Summary Submittal
DUA	Data Useability Assessment
EKI	EKI Environment & Water, Inc.
Enthalpy	Enthalpy Analytical, LLC
ft ²	Square Feet
LCS	Laboratory Control Spike
LCSD	Laboratory Control Spike Duplicate
LDC	Lab Data Consultants
McCarthy	McCarthy Building Companies, Inc.
MPC	Measurement Performance Criteria
NACE	National Association of Corrosion Engineers
NASA	National Aeronautics and Space Administration
NTCRA	Non-Time-Critical Removal Action
PCB	Polychlorinated Biphenyl
PV	Planetary Ventures, LLC
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
Rincon	Rincon Consultants, Inc.
RPD	Relative Percent Difference
SOP	Standard Operating Procedure
SSPC	Society for Protective Coatings
TCMX	Tetrachloro-m-Xylene
UCL	Upper Confidence Limit
µg/100 cm ²	Micrograms per 100 Square Centimeters
µg/ft ²	Micrograms per Square Foot
UFP-QAPP	Uniform Federal Policy Quality Assurance Project Plan
U.S. EPA	United States Environmental Protection Agency
Water Board	San Francisco Bay Regional Water Quality Control Board



Executive Summary

Rincon Consultants, Inc. has prepared this Data Summary Submittal (DSS) on behalf of Planetary Ventures, LLC (PV) for the sampling and analytical activities associated with abatement activities within the Low Occupancy Area of Zone 5 of Hangar 1 (Figure 1), located at the Former Naval Air Station Moffett Field, California. This work was conducted pursuant to the Agency-approved Final Hangar 1 Non-Time-Critical Removal Action Work Plan. This DSS has been prepared to document achievement of the Project Cleanup Goals for the structural steel within the Low Occupancy Area of Zone 5 within Hangar 1.

The National Association of Corrosion Engineers (NACE) inspection reports indicate that the lead and polychlorinated biphenyl (PCB) impacted paint was successfully removed and the surface cleanliness goal has been met, as shown in Attachment 1, and the Data Usability Assessment indicates that the collected confirmation wipe sampling data are suitable for comparison against the numeric Cleanup Goals. The 95-percent upper confidence limit (UCL) for the mean lead concentration in the 85 confirmation wipe samples collected from within the Low Occupancy Area of Zone 5 was approximately 80 micrograms per square foot ($\mu\text{g}/\text{ft}^2$), which is less than the numeric Cleanup Goal for lead (i.e., 250 $\mu\text{g}/\text{ft}^2$). The 95-percent UCL for the mean PCB concentration in the confirmation wipe samples could not be calculated because PCBs were not detected above the highest reported laboratory quantitation limit of 0.5 micrograms per 100 square centimeters (i.e., $<0.5 \mu\text{g}/100 \text{ cm}^2$), which is less than the Cleanup Goal for PCBs, in any of the confirmation samples collected from within the Low Occupancy Area of Zone 5.

As indicated by the NACE inspection reports and the lead and PCB confirmation wipe sampling results, the Low Occupancy Area of Zone 5 is suitable for unrestricted use. Based on the findings presented herein, PV requests that the United States Environmental Protection Agency and San Francisco Regional Water Quality Control Board provide concurrence that no further abatement is required for the Low Occupancy Area of Zone 5.



1 Introduction

Rincon Consultants, Inc. (Rincon) has prepared this Data Summary Submittal (DSS) on behalf of Planetary Ventures, LLC (PV) to document attainment of the Project Cleanup Goals within the Low Occupancy Area¹ of Zone 5 of Hangar 1 (Figure 1), located at Former Naval Air Station Moffett Field, California, conducted pursuant the Agency-approved² Final Hangar 1 Non-Time-Critical Removal Action (NTCRA) Work Plan (EKI, 2022). Additional details about the sampling procedures and analytical methods used in the collection of these samples are presented in the NTCRA Work Plan.

The NTCRA is currently being performed by PV on behalf of the National Aeronautics and Space Administration (NASA), the Responsible Party for Hangar 1, and is being conducted by McCarthy Building Company (McCarthy), which has been retained by PV. The United States Environmental Protection Agency (U.S. EPA) and the San Francisco Bay Regional Water Quality Control Board (Water Board) are the Regulatory Agencies providing regulatory oversight during implementation of the NTCRA. Additional details about the removal action are presented in the NTCRA Work Plan (EKI, 2022).

This DSS has been prepared to document achievement of the Project Cleanup Goals for the structural steel within the Low Occupancy Area of Zone 5 of Hangar 1 and includes:

- (1) The National Association of Corrosion Engineers (NACE) inspection reports documenting the removal of all visible paint from the abated surfaces and achievement of a NACE #3/Society for Protective Coatings (SSPC) SP-6 Surface Cleanliness Standard (Attachment 1);
- (2) The tabulated final confirmation sampling results for the validated data (Attachment 2);
- (3) The final laboratory analytical reports for the confirmation wipe samples and field quality control (QC) samples (Attachment 3);
- (4) The input and output files for the calculated 95-percent upper confidence limit (UCL) for the mean concentration of lead in the confirmation wipe samples (Attachment 4); and,
- (5) The data validation reports prepared by Lab Data Consultants (LDC) (Attachment 5).

In addition to the information above, this DSS includes the final laboratory analytical reports for the clearance wipe samples collected from both the High and Low Occupancy Areas of Enclosures A/B and C/D³, and a table summarizing these results (Attachment 6).

¹ The Low Occupancy Area of Zone 5 includes the area above the arch pin (i.e., 55-feet above the hangar floor) in Enclosures A/B and C/D.

² The NTCRA Work Plan was approved by the Agencies on March 4, 2022.

³ Following Regulatory Agency approval of the *PCB Wipe Sampling Reduction Memorandum* dated September 13, 2023 (Rincon, 2023c), PCB clearance wipe samples were not collected in Zone 5 Enclosure A/B. Clearance wipe sampling in Zone 5 Enclosure C/D occurred prior to the approval of the PCB sampling reduction, therefore clearance wipe sampling in Enclosure C/D included analysis for both lead and PCBs.



2 Attainment of Project Cleanup Goals

In accordance with Section 5.1 of the NTCRA Work Plan, the Project Cleanup Goals for non-porous surfaces in Low Occupancy Areas are as follows.

Substrate	Chemicals	Elements	Project Cleanup Goals
Non-Porous Surfaces	• Lead • PCBs	• Visual Inspection by qualified NACE/SSPC surface coating inspector • Collection and analysis of wipe confirmation samples	• No visible paint remains • Achievement of NACE 3/SSPC SP-6 surface preparation and visible cleanliness standard • Lead: <250 micrograms per square foot ($\mu\text{g}/\text{ft}^2$) • PCBs: <100 micrograms per 100 square centimeters ($\mu\text{g}/100\text{ cm}^2$)

To meet the numeric Cleanup Goals, the 95-percent UCL of the mean concentration of lead and PCBs in the confirmation wipe samples must be less than the indicated concentrations. In addition, the NTCRA Work Plan requires that no single confirmation wipe sample result exceeds 5-times the numeric Cleanup Goal and that no more than 10-percent of the confirmation wipe sample results exceed 3-times the numeric Cleanup Goal.

The visual inspection (Section 2.1) and confirmation wipe sampling (Section 2.2) results indicate that the Cleanup Goals have been met and no additional abatement is necessary within the Low Occupancy Area of Zone 5.

2.1 Visual Inspections

In accordance with the NTCRA Work Plan, following completion of abatement⁴ and cleaning activities and prior to the collection of confirmation wipe samples, a qualified NACE inspector inspected the surfaces for the presence of visible paint and the achievement of a NACE #3/SSPC SP-6 surface cleanliness standard.

Within the Low Occupancy Area of Zone 5, the qualified NACE inspector confirmed that all visible paint had been removed from the abated surfaces and that the abated surfaces achieved a NACE #3/SSPC SP-6 surface cleanliness standard or better. The NACE inspection reports are included in Attachment 1.⁵

2.2 Confirmation Sampling Results

In accordance with the NTCRA Work Plan, following confirmation that the non-porous surfaces met the NACE #3/SSPC SP-6 surface preparation and visual cleanliness standard, confirmation wipe samples were collected for comparison to the numeric Cleanup Goals for lead and PCBs.

⁴ Abatement in both the High and Low Occupancy Areas of Zone 5 was completed on October 13, 2023.

⁵ The Zone and Enclosure, as well as the scaffolding levels that correspond with wipe sample locations are provided within the header and/or notes sections of the NACE inspection reports.



2.2.1 Initial Abatement and Sampling Efforts

A total of 182 confirmation wipe samples were collected from the Low Occupancy Area of Zone 5, including QC samples (i.e., field blank samples, media blank samples, and field duplicate samples). Of the 182 confirmation wipe samples and associated QC samples, 104 were lead wipe samples and 78 were PCB wipe samples,⁶ including:

- 85 lead confirmation wipe samples and 65 PCB confirmation wipe samples;
- Five lead media blank samples;⁷
- Five lead field blank samples and five PCB field blank samples; and,
- Nine lead duplicate confirmation wipe samples and eight PCB duplicate confirmation wipe samples.

The tabulated confirmation wipe sampling and QC results, with both laboratory and data validation flags are included in Attachment 2. The laboratory analytical reports for confirmation wipe samples and QC samples are included in Attachment 3. Based on the data validation reports (Attachment 5), QC samples, and the data useability assessment (Section 3), the validated confirmation sampling data (Attachment 2) are considered suitable for comparison to the numeric Cleanup Goals.

2.2.2 Evaluation of the Confirmation Wipe Sampling Data

Upon completion of confirmation wipe sampling activities within the Low Occupancy Area of Zone 5, one of the lead confirmation wipe samples collected, or approximately 1-percent, exceeded the numeric Cleanup Goal of <250 µg/ft²; none of the lead concentrations in the confirmation wipe samples collected from the Low Occupancy Area of Zone 5 exceeded 3-times or 5-times the numeric Cleanup Goal.

Rincon calculated the 95-percent UCL for the mean lead concentration in the confirmation wipe samples using Version 5.2 of the ProUCL program (U.S. EPA, 2022). The results for the field blank samples, the media blank samples, and the lower of the duplicate sampling results⁸ were not included in the calculation of the 95-percent UCL. As shown in Table 1, the 95-percent UCL of the mean lead concentration (i.e., approximately 80 µg/ft²) in the confirmation wipe samples is below the numeric Cleanup Goal. The ProUCL input and output files for lead confirmation wipe samples are included in Attachment 4.

All PCB confirmation wipe sample results were below 0.5 µg/100 cm² (i.e., the highest reported laboratory quantitation limits [QL]), therefore, none of the PCB sample results exceeded the numeric Cleanup Goals for the Low Occupancy Area of <100 µg/100 cm². The 95-percent UCL of the mean PCB concentration could not be calculated because PCBs were not detected above laboratory QLs in any of the confirmation wipe samples collected within the Low Occupancy Area of Zone 5.

Table 1 95-Percent UCL for Confirmation Wipe Samples

Analyte	Method	Numeric Cleanup Goal	95% UCL
Lead	U.S. EPA Method 3050M/6010B	<250 µg/ft ²	80 µg/ft ²
PCB	U.S. EPA Method 8082	<100 µg/100 cm ²	--[a]
Notes: [a] The 95-percent UCL could not be calculated for PCBs because all analytical results for confirmation wipe samples were below laboratory QLs.			

⁶ PCB confirmation wipe samples were collected in accordance with Rincon 2023c.

⁷ As discussed further in Section 3.4.3, media blank samples were only analyzed for lead.

⁸ If the concentration in the duplicate samples were the same, only one result was included in the ProUCL input file.



3 Data Usability Assessment

This section summarizes Rincon's review of the data validation reports prepared by LDC for the confirmation wipe samples (Attachment 5). It also reviews field documentation and procedures for compliance with sampling procedures included in the Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) as well as the number of samples and field QC samples to confirm they are consistent with the frequencies listed in the UFP-QAPP.

Based on this data usability assessment (DUA), the validated confirmation sampling data are considered suitable to assess whether the 95-percent UCL of the mean concentrations of lead and PCBs in the confirmation wipe samples are less than the numeric Cleanup Goals. However, as all PCB confirmation wipe sample results were below the highest reported laboratory QL (i.e., 0.5 µg/100 cm²), a 95-percent UCL could not be calculated for PCBs.

3.1 Data Verification

At the end of each day of sampling, Rincon personnel verified that appropriate field records were present and complete for each specific activity conducted. In addition, Rincon personnel verified that all the planned samples, including field QC samples, were collected and adequately documented. The Rincon Data Manager verified that all changes/exceptions to the scope of work were documented and reported appropriately in Biweekly Reports prepared during abatement activities. Chain-of-custody forms were reviewed at the end of each day of sampling by the Rincon Data Manager to confirm that each form was filled out appropriately, and that all required samples, signatures, and dates were present.

A field audit by Rincon's field manager, which included a review of the field sampling protocols, was conducted on September 6, 2023. Rincon's field manager observed field personnel conducting field sampling activities to confirm that all activities were conducted in accordance with standard operating procedures (SOPs) developed for field sampling activities associated with the NTCRA.⁹ The results of the field audit indicated that the field activities being conducted at Hangar 1, including confirmation wipe sampling activities, were being conducted in accordance with the NTCRA Work Plan as well as the SOPs developed for field activities associated with the NTCRA.

Field QC samples were collected in accordance with the UFP-QAPP. A summary of the total number of confirmation samples and field QC samples is provided for lead in Table 2 and PCBs in Table 3 and Table 4.

As the total square footage of steel in Zone 5 was greater than that estimated in Worksheet #20-2, additional confirmation wipe samples were collected within the Low Occupancy Area to maintain the appropriate sample collection frequency as described in the revised Worksheet #20-2¹⁰ of the UFP-QAPP. The actual confirmation lead wipe sampling frequency (i.e., one sample per 1,966 square feet [ft²] of abated steel) as well as the frequencies of the field duplicate, field blank, and media blank samples were consistent with, or greater than, the frequencies per the UFP-QAPP (i.e., the revised Worksheet #20-2).

⁹ For more information, please refer to the Biweekly Report for the period ending on September 8, 2023.

¹⁰ A revised Worksheet #20-2 was included as Attachment 2 of the *Lead Detections in Media Blank Samples* memorandum dated August 3, 2023 (Rincon, 2023b).



All confirmation wipe sampling had been completed in Zone 5 Enclosure C/D prior to the approval and implementation of the sampling frequency described in the *Reduction of Confirmation and Clearance Wipe Sample Collection for PCB Analysis in Zone 5 through Zone 8 Memorandum* (PCB Sampling R3eduction Memo; Rincon, 2023c). Therefore, the confirmation PCB wipe sampling frequency in Enclosure C/D as well as the frequencies of the field duplicate and field blank samples were consistent with, or greater than, the frequencies per the UFP-QAPP (i.e., the revised Worksheet #20-2) and PCB Sampling Reduction Memo.

Table 2 Lead Wipe Sample Summary

	No. of Lead Confirmation Wipe Samples	No. of Field Duplicates or Frequency	No. of Field Blanks or Frequency [b]	No. of Media Blanks or Frequency [b]
Required frequency per UFP-QAPP Worksheet #20-2	1 sample per every 2,000 ft ² of abated steel	10%	5%	5%
Anticipated Number of Samples	73 [a]	8 [10%]	4 [5%]	4 [5%]
Actual Square Footage within the Low Occupancy Area of Zone 5	167,074 ft ²			
Samples Collected	85	9	5	5
Actual Frequency	1 sample per 1,966 ft ² of abated steel	11%	6%	6%
Notes: [a] Original sample counts outlined in the UFP-QAPP were based on an estimated surface area of 145,000 ft ² of steel. [b] As described in the <i>Lead Detections in Media Blank Samples Memorandum</i> dated August 3, 2023 (Rincon 2023b), Rincon began collecting both field blank and media blank samples for lead on July 24, 2023.				

Table 3 PCB Wipe Sample Summary – Enclosure C/D

	No. of PCB Confirmation Wipe Samples	No. of Field Duplicates or Frequency	No. of Field Blanks or Frequency[b]
Required frequency per UFP-QAPP Worksheet #20-2	1 sample per every 2,000 ft ² of abated steel	10%	5%
Anticipated Number of Samples	73 [a]	8 [10%]	4 [5%]
Actual Square Footage within the Low Occupancy Area of Zone 5 Enclosure C/D	90,814 ft ²		
Samples Collected [c]	46	5	3
Actual Frequency	1 sample per 1,974 ft ² of abated steel	8%	8%
Notes: [a] Original sample counts outlined in the UFP-QAPP were based on an estimated surface area of 145,000 ft ² of steel. [b] Field blank samples are equivalent to media blank samples referenced in the UFP-QAPP. [c] All confirmation wipe samples from the Low Occupancy Area of Zone 5 Enclosure C/D were collected prior to Regulatory Agency approval of the PCB Sampling Reduction Memo (Rincon, 2023c), therefore the sampling frequency reflects the original requirements outlined in the UFP-QAPP Worksheet #20-2.			

Following Regulatory Agency approval of the PCB Sampling Reduction Memo (Rincon 2023c), Rincon implemented the reduced PCB confirmation wipe sampling frequency, beginning with the confirmation wipe sampling event on October 23, 2023 in Zone 5 Enclosure A/B. During an initial sampling event for the Low Occupancy Area of Zone 5 Enclosure A/B on October 3, 2023, a total of 19 PCB confirmation wipe samples, three duplicate PCB confirmation wipe samples, and one PCB field blank sample were collected; therefore, no additional PCB confirmation wipe samples were collected from the Low Occupancy Area of Zone 5 Enclosure A/B since the requirements for reduced sampling had already been met. Table 4 provides a summary of the total number of confirmation samples and field QC samples for PCBs following Regulatory Agency approval of the PCB Sampling Reduction Memo (Rincon 2023c).

Table 4 PCB Wipe Sample Summary – Enclosure A/B

	No. of PCB Confirmation Wipe Samples	No. of Field Duplicates or Frequency	No. of Field Blanks or Frequency [a]
Required frequency per Rincon (2023c)	10 samples per enclosure [c]	10%	5%
Anticipated Number of Samples	10	1	1
Samples Collected	19 [b]	3 [16%]	1 [5%]
Notes: [a] Field blank samples are equivalent to media blank samples referenced in the UFP-QAPP. [b] During the initial confirmation wipe sampling event in the Low Occupancy Area of Zone 5 Enclosure A/B, the required amount of PCB confirmation wipe samples had been collected per the revised Worksheet #20-2, therefore, after Regulatory Agency approval of Rincon (2023c), no additional PCB confirmation wipe samples were collected from Zone 5 Enclosure A/B. [c] As stated in the PCB Wipe Sampling Reduction Memo (Rincon, 2023c), while the NTCRA Work Plan originally proposed reducing the confirmation sampling frequency to 10 samples plus one duplicate sample per enclosure, the Project Team will remain consistent with the overall number of samples per zone; therefore, 40 confirmation samples plus 4 duplicate samples will be collected per Zone. The remaining 10 PCB confirmation wipe within Zone 5 Enclosure A/B were collected in the High Occupancy Area and will therefore be described in the Data Summary Submittal for the High Occupancy Area of Zone 5.			

3.2 Data Validation

LDC conducted data validation on the analytical laboratory reports for the confirmation wipe samples collected, which included a review of chain-of-custody forms and laboratory deliverables. Stage 3 validation was conducted on 69 samples and Stage 2A validation was conducted on the remaining 113 samples (Attachment 5).

Based on LDC's review of the analytical laboratory reports and their supporting data, no sample results were qualified using flags and none of the analytical results were rejected.

3.3 Data Precision

Data precision is a quantitative measure of the variability of a group or data compared with their average value. Precision is stated in terms of relative percent difference (RPD) for pairs of data or relative standard deviation for larger groups of data. Below is a discussion of the data precision evaluation conducted on the confirmation wipe samples collected.

3.3.1 Laboratory Duplicate Samples

Lead laboratory duplicate samples were analyzed at the required frequency outlined in the Worksheet #28 of the UFP-QAPP (i.e., at least one laboratory control spike [LCS]/laboratory control spike duplicate [LCSD] pair per 20 samples or per batch if less than 20 samples).

PCB laboratory duplicate samples were analyzed at the required frequency outlined in Worksheet #28 of the UFP-QAPP (i.e., at least one LCS/LCSD pair per 20 samples or per batch if less than 20 samples) in the majority of laboratory analytical reports. For SDG# 493300, the analytical laboratory inadvertently spiked the LCS/LCSD samples with a pesticide standard instead of an Aroclor standard. As the analytical run that included SDG# 493300 included method detection limit (MDL) standard for PCBs, the analytical laboratory reported those results for the LCS. As there was no LCSD for PCBs in SDG# 493300, a RPD could not be calculated for the laboratory duplicate samples in SDG# 493300. As no Aroclors were reported at concentrations above the laboratory QL in any of the PCB confirmation wipe samples reported in SDG# 493300, no flags were applied to the PCB sample results in SDG# 493300. As seen in

Table 5, all lead and PCB duplicate laboratory sample pairs met the Measurement Performance Criteria (MPC) outlined in the UFP-QAPP.

Table 5 Laboratory Duplicate Sample Summary

Laboratory QC Sample	No. of Lab QC Samples Analyzed	MPC	No. of Lab QC Samples Exceeding MPC	Percentage of Laboratory QC Samples that Exceeded the MPC
LCS/LCSD – Lead	10	RPD $\leq$ 20%	0	0%
LCS/LCSD – PCB	4 [a]	RPD $\leq$ 20%	0	0%
Notes: LCS: Laboratory Control Spike LCSD: Laboratory Control Spike Duplicate [a] Only includes LCS/LCSD pairs. The MDL standard reported as an LCS result in SDG# 493300 is not included in this count since there is no corresponding LCSD result to calculate an RPD.				

3.3.2 Field Duplicate Samples

As seen in Table 6, all lead field duplicate samples met the MPC outlined in the UFP-QAPP; the agreement between results of the original sample and the duplicate sample indicate that the cleaning procedures used prior to sampling were implemented consistently throughout the abated area and that the field sampling was conducted in a reproducible manner.

PCBs were not detected above laboratory QLs in any of the duplicate samples collected and as a result, RPDs could not be calculated.

Table 6 Field Duplicate Sample Summary

Analyte – Sample Type	No. of Field Duplicate Samples Collected	MPC	No. of Field Duplicate Samples in Exceedance of the MPC	Percentage of Field Duplicate Samples that Exceeded the MPC
Lead – Wipe	9	RPD $\leq$ 100%	0	0%
PCB – Wipe	8	RPD $\leq$ 100%	--[a]	--[a]
Notes: [a] In accordance with the UFP-QAPP, RPDs were not calculated for duplicate samples where the analyte is less than the QL in one or both samples.				

3.4 Data Accuracy/Bias

Data bias may result from systematic analytical error and is evaluated based on laboratory spike results for routine QC samples prepared and analyzed by the analytical laboratory.¹¹ Data accuracy is a measure of the overall agreement with a known value and includes a combination of random error and systematic error, with both parameters potentially resulting from analytical error. Data accuracy is evaluated using laboratory QC samples.

3.4.1 Laboratory QC Samples

As seen in Table 7, all laboratory QC samples for lead and PCB confirmation wipe samples met the MPC outlined in the UFP-QAPP, however, as discussed in Section 3.3.1, a LCSD for PCBs was not analyzed in SDG# 493300. As no Aroclors were reported at concentrations above the laboratory QL in the PCB confirmation wipe samples reported in SDG# 493300, no flags were applied to the PCB sample results in SDG# 493300.

¹¹ As indicated in the UFP-QAPP, matrix spike and matrix spike duplicate samples are not prepared and analyzed for wipe samples.



Table 7 Laboratory QC Sample Summary

Laboratory QC Samples	No. of Samples Analyzed	MPC	No. of Samples Outside of the MPC	Percentage of Samples that do not meet MPC
Lead LCS and LCSD	20	%R 80-120%	0	0%
Lead Method Blank Samples	10	<QL	0	0%
PCB LCS and LCSD	9	%R 60-140%	0	0%
PCB Method Blank Samples	5	<QL	0	0%
Notes: %R: Percent Recovery				

3.4.2 Laboratory Surrogate Spikes

PCB samples are spiked with two surrogates during analysis, tetrachloro-m-xylene (TCMX) and decachlorobiphenyl (DCB). The percent recovery of both surrogates is recorded during analysis and indicates analytical method performance with each sample.

Recovery rates of TCMX and DCB in all PCB confirmation wipe samples and laboratory QC samples were within the laboratory defined limits outlined in the UFP-QAPP.

3.4.3 Field QC Samples

A summary of the field and media blank samples is provided in Table 8.

Table 8 Field QC Sample Summary

Laboratory QC Samples	No. of Samples Analyzed	MPC	Percentage of Samples that do not meet MPC
Lead Field Blank Samples	5	<10 µg/ft ²	0%
Lead Media Blank Samples [a]	5	<QL	0%
PCB Field Blank Samples	4	<QL	0%
Notes: [a] As described in the <i>Lead Detections in Media Blank Samples Memorandum</i> dated August 3, 2023 (Rincon, 2023b), media blank samples were only analyzed for lead.			

In accordance with the corrective actions described in the *Lead Detections in Media Blank Samples (Zone 2 Data Summary Submittal) Memorandum* (Media Blank Memo; Rincon, 2023b), Rincon collected both lead field blank and lead media blank samples in the Low Occupancy Area of Zone 5. Because PCBs have not been detected above the laboratory QLs in any field blank samples, media blank samples were only analyzed for lead. Field blank samples were analyzed for both lead and PCBs.

Lead was detected above the laboratory QL in three of the five field blank samples collected; however, the results did not exceed the MPC of <10 µg/ft² and the reported results for the field blank samples were more than 50 times lower than the numeric Cleanup Goal for lead. As described in the DSS for the High Occupancy Area of Zone 1 (Rincon, 2023a), the lead reported in field blank samples is likely a result of low concentrations of lead dust that are known to be in the air following abatement and cleaning activities within the enclosures as opposed to lead contamination in the wipe sampling media.¹² Therefore, while lead in the enclosure may be impacting field blank samples, the same ambient lead concentrations are likely impacting all the confirmation wipe samples and as a result are likely biasing

¹² Because lead was detected in personal air samples that were collected during NACE inspection and confirmation wipe sampling activities, it is understood that lead dust remains suspended in the air throughout such activities and is anticipated to contribute small to negligible concentrations of lead to confirmation wipe samples. NACE inspectors, Rincon, and any other trades that may enter the structure before it is pressure washed are required to wear half-faced respirators with P100 filters, which protects these personnel from potential exposures to the residual concentrations of lead containing dust that may be present in the air within the enclosures.

the lead confirmation wipe sampling results high, resulting in a more conservative evaluation of residual lead concentrations in confirmation wipe samples.

As the reported lead results in the confirmation wipe samples were greater than 5-times the reported lead concentration in the associated field blank sample, no flags were applied to the reported lead confirmation wipe sampling results. PCBs were not detected above laboratory QLs in any of the field blank samples.

Lead was not detected above laboratory QLs in any of the media blank samples associated with the Low Occupancy Area of Zone 5.

3.5 Summary of Representativeness, Completeness, and Comparability

3.5.1 Representativeness

Representativeness is a qualitative measure that expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at the sampling point, a process condition, or an environmental condition. The following were evaluated to assess the representativeness of the wipe sampling data collected from the Low Occupancy Area of Zone 5:

- A field audit, which included a review of the field sampling protocols, was conducted by Rincon's field manager on September 6, 2023. Sample collection was performed in compliance with the field SOPs included in the UFP-QAPP for the collection and analysis of lead and PCB confirmation wipe samples; and
- All confirmation wipe samples were analyzed within acceptable sample holding times and all field and laboratory personnel adhered to the appropriate sample handling and storage requirements outlined in the UFP-QAPP.¹³

Because the samples were collected in accordance with the procedures outlined in the UFP-QAPP, the samples should be considered representative of the materials that were sampled.

3.5.2 Completeness

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the total number of measurements necessary to achieve DQOs at a specified level of confidence.

After data validation, the percent (%) completeness is calculated by dividing the number of samples with valid data by the number of samples collected. Valid data includes both unqualified data that passes all QC criteria and qualified data that did not pass all the QC criteria but that was not flagged for rejection.

As seen in Table 9, the data validation process did not result in the rejection of any confirmation wipe sampling data and as a result the % completeness (i.e., 100%) exceeds the MPC.

¹³ Rincon personnel and/or the laboratory provided courier deliver the confirmation wipe samples to the Enthalpy Analytical location in Berkeley, CA. Upon receipt of the confirmation wipe samples, the laboratory staff then complete a sample check in form prior to shipping the samples to the Enthalpy Analytical location in Orange, CA. Upon receipt of the samples at the Enthalpy Analytical location in Orange, CA, a second sample check in form is completed for the samples. However, if samples are shipped directly to Enthalpy Analytical in Orange, CA by Rincon personnel, only one sample check in form is completed by laboratory staff upon receipt of the samples in Orange, CA.



Table 9 Completeness for Confirmation Wipe Samples

Analyte – Sample Type	Total No. of Samples	Usable Results (%)	Unusable Results (%)	% Completeness - MPC
Lead – Wipe	85	100%	0%	>90%
PCB – Wipe	65	100%	0%	>90%

3.5.3 Comparability

Comparability is a qualitative term that expresses the confidence with which a data set can be compared with another. Data are considered comparable if quality assurance (QA)/QC measures, such as sample collection procedures, analytical methods, reporting units, and analytical reporting limits are equivalent for the samples within a data set. Adherence to QA/QC measures assures that samples collected in similar conditions (i.e., the Low Occupancy Area of Zone 5) are comparable. Comparability criteria are met if, based on data validation, the sample collection and analytical procedures are determined to have been followed, or variations in sample collection and analytical procedures were deemed to not have resulted in sample results being rejected.

To ensure comparability of the data generated for the Low Occupancy Area of Zone 5, sample collection and analytical procedures adhered to the requirements outlined in the UFP-QAPP. Based on the field audit conducted on September 6, 2023, as well as regular reviews of field forms and chain-of-custody forms, it was determined that field activities, including confirmation wipe sampling activities, were conducted in accordance with the NTCRA Work Plan as well as SOPs developed for field activities associated with the NTCRA.

3.6 Sensitivity

Sensitivity is the capability of a method or instrument to discriminate among measurement responses representing different levels of the variable of interest. As seen in Table 10, the laboratory specific QLs outlined in the UFP-QAPP were 0.5 µg/ft² for lead and 0.5 µg/100 cm² for PCBs. The reporting limits for all the lead and PCB confirmation wipe samples did not exceed the laboratory specific QL as identified in the UFP-QAPP, and the sensitivities of the methods were sufficient for the comparison of sample results to the numerical Cleanup Goals.

Table 10 Sensitivity Comparison for Confirmation Wipe Samples

Analyte	Method	Numeric Cleanup Goal	Laboratory Specific QL in UFP-QAPP	Maximum QL Reported
Lead	U.S. EPA Method 3050M/6010B	<250 µg/ft ²	0.5 µg/ft ²	0.50 µg/ft ²
PCB	U.S. EPA Method 8082	<100 µg/100 cm ²	0.5 µg/100 cm ²	0.50 µg/100 cm ²

4 Clearance Wipe Sampling Results

On completion of the abatement, cleaning, inspection, sampling, and priming activities within each enclosure, the abated steel, scaffolding, and enclosure material were cleaned by pressure washing with potable water. The purpose of this cleaning was to decontaminate the space such that follow-on trades are able to work in a decontaminated work environment.

In accordance with the UFP-QAPP, following pressure washing activities, clearance wipe samples were collected from the decontaminated surfaces in both the High and Low Occupancy Areas of Enclosures A/B and C/D to demonstrate that the contents of each enclosure had been adequately cleaned and that the average lead and PCB concentrations in the enclosures were not greater than the Clearance Goals (i.e., $<250 \mu\text{g}/\text{ft}^2$ for lead and $\leq 10 \mu\text{g}/100 \text{ cm}^2$ for PCBs). Clearance wipe samples collected within Enclosure C/D were analyzed for lead and PCBs. Following Regulatory Agency approval of the PCB Sampling Reduction Memo (Rincon, 2023c), clearance wipe samples collected within Enclosure A/B were only analyzed for lead.

4.1 Clearance Wipe Re-Sampling Activities and Results

4.1.1 Zone 5 Enclosure C/D

Initial clearance wipe sampling of Zone 5 Enclosure C/D was conducted on September 18 through September 20, 2023. PCBs were only reported above the analytical reporting limit in one of the clearance wipe samples collected from within Zone 5 Enclosure C/D, however the concentration was below the Clearance Goal for PCBs (i.e., $10 \mu\text{g}/100 \text{ cm}^2$). The average lead concentration in clearance wipe samples collected from within Zone 5 Enclosure C/D (i.e., $260 \mu\text{g}/\text{ft}^2$) exceeded the Clearance Goal (i.e., $250 \mu\text{g}/\text{ft}^2$).

As a result, the areas with elevated lead concentrations in Zone 5 Enclosure C/D were re-cleaned and re-sampled, which resulted in the collection of four additional lead clearance wipe samples on September 20, 2023.¹⁴ Upon completion of re-cleaning, the average lead concentration in the clearance wipe samples collected within Zone 5 Enclosure C/D (i.e., $138 \mu\text{g}/\text{ft}^2$) was below the Clearance Goal.

4.1.2 Zone 5 Enclosure A/B

Initial clearance wipe sampling of Zone 5 Enclosure A/B was conducted on October 27 and October 31, 2023.¹⁵ The average lead concentration in the clearance wipe samples collected from within Zone 5 Enclosure A/B (i.e., $417 \mu\text{g}/\text{ft}^2$) exceeded the Clearance Goal (i.e., $<250 \mu\text{g}/\text{ft}^2$).

As a result, the areas with elevated lead concentrations in Zone 5 Enclosure A/B were re-cleaned and re-sampled, which resulted in the collection of 16 additional lead clearance wipe samples and one additional lead duplicate on November 3, 2023. Upon the completion of re-cleaning and re-sampling, the average lead concentration in the clearance wipe samples (i.e., $365 \mu\text{g}/\text{ft}^2$) collected within Zone 5 Enclosure A/B still exceeded the Clearance Goal, therefore additional re-cleaning and re-sampling was required.

¹⁴ Because PCBs were not detected above the Clearance Goal (i.e., $10 \mu\text{g}/100 \text{ cm}^2$) in any of the initial clearance wipe samples, PCBs were not analyzed in the additional clearance samples.

¹⁵ In accordance with Rincon (2023c), PCB clearance wipe samples were not collected in Zone 5 Enclosure A/B, therefore no PCB clearance wipe samples were collected following re-cleaning of the enclosure.

An additional nine locations were re-cleaned and re-sampled, resulting in the collection of nine more lead clearance wipe samples and one additional lead duplicate on November 8, 2023. Upon the completion of the second round of re-cleaning and re-sampling, the average lead concentration in the clearance wipe samples collected within Zone 5 Enclosure A/B (i.e., 130 $\mu\text{g}/\text{ft}^2$) was below the Clearance Goal.

After reviewing the initial clearance wipe re-sampling results from Zone 5 Enclosure A/B, the Project Team discussed the trend of Clearance Goal exceedances (i.e., 250 $\mu\text{g}/\text{ft}^2$). During the discussion, Certified Coatings Company (CCC) indicated that during the cleaning of Zone 5, new personnel were used to perform pressure washing activities. Moving forward, CCC committed to using the original pressure washing staff, while the new personnel are thoroughly re-trained on the proper cleaning techniques.

4.2 Data Review for Clearance Wipe Samples

Rincon conducted a review of laboratory analytical reports for the clearance wipe samples collected in Zone 5. The data review process included:

- Review of field records, including field data sheets, chain-of-custody forms, relevant correspondence, change orders and deviations, and field corrective action reports; and,
- Review of the analytical data package, including cover sheet, case narrative, sample receipt record, sample chronology, communication record, analytical results, definition of laboratory qualifiers, results reporting form, QC sample results, corrective action reports, and electronic data deliverables.

The tabulated analytical results and final analytical laboratory reports for the clearance wipe samples collected in Zone 5 are presented in Attachment 6. The average lead clearance sampling results for Enclosure A/B and C/D, after re-cleaning and re-sampling, are 130 and 138 $\mu\text{g}/\text{ft}^2$, respectively. The results for the field blank samples, the media blank samples, the lower of the duplicate sampling results, and the original results from locations that were re-cleaned and re-sampled were not included in the calculation of the average of the clearance wipe sampling results. PCBs were only detected above the laboratory QL (i.e., 0.50 $\mu\text{g}/100\text{ cm}^2$) in one of the clearance wipe samples, however the reported concentration did not exceed the Clearance Goal of $\leq 10\text{ }\mu\text{g}/100\text{ cm}^2$.

Based on this review, the clearance sampling data are considered suitable to assess whether the average concentrations of lead and PCBs in the clearance wipe samples are less than the numerical Clearance Goals.

In accordance with Worksheet #17 of the UFP-QAPP, the average concentration of lead and PCBs in the clearance samples collected in both the High and Low Occupancy Areas of each enclosure were compared with the Clearance Goals. The averages of the clearance sampling results for the cleaned scaffolding, structural steel, and enclosure materials were below the Clearance Goals of $<250\text{ }\mu\text{g}/\text{ft}^2$ for lead and $\leq 10\text{ }\mu\text{g}/100\text{ cm}^2$ for PCBs, indicating these materials were adequately decontaminated, and no additional decontamination was required for the two enclosures within Zone 5.

5 Conclusions

Based on the NACE inspections and the DUA (Section 3), the lead and PCB confirmation wipe sampling results are suitable for comparison against their respective numeric Cleanup Goals. The 95-percent UCL for the mean lead concentration in the confirmation wipe samples collected within the Low Occupancy Area of Zone 5 was approximately $80 \mu\text{g}/\text{ft}^2$, which is below the numeric Cleanup Goal for lead (i.e., $<250 \mu\text{g}/\text{ft}^2$). The 95-percent UCL for the mean PCB concentration in the confirmation wipe samples could not be calculated because PCBs were not detected above the highest reported laboratory quantitation limit of $0.5 \mu\text{g}/100 \text{ cm}^2$ in any of the confirmation samples collected from within the Low Occupancy Area of Zone 5.

Given that the 95-percent UCL for lead confirmation wipes is below the numeric Cleanup Goal for lead and that PCBs were not detected in any of the confirmation wipe samples above a maximum analytical reporting limit of $0.5 \mu\text{g}/100 \text{ cm}^2$, the Low Occupancy Area of Zone 5 is suitable for unrestricted use.

PV requests that the U.S. EPA and Water Board provide concurrence that no further abatement is required for the Low Occupancy Area of Zone 5.

6 References

- EKI Environment & Water, Inc. (EKI). 2022. *NTCRA Work Plan, Former Naval Air Station Moffett Field, California*. EKI Environment & Water, Inc. March 14, 2022.
- Rincon Consultants, Inc. (Rincon). 2023a. *Hangar 1 Data Summary Submittal, High Occupancy Area of Zone 1, Former Naval Air Station Moffett Field, California*. March 2023.
- Rincon. 2023b. *Lead Detections in Media Blank Samples (Zone 2 Data Summary Submittal) Memorandum*. August 3, 2023.
- Rincon, 2023c. *Reduction of Confirmation and Clearance Wipe Sample Collection for PCB Analysis in Zone 5 through Zone 8*. September 13, 2023.
- United States Environmental Protection Agency (U.S. EPA). *ProUCL: Statistical Software for Environmental Applications for Data Sets with and without Nondetect Observations*. Version 5.2. <https://www.epa.gov/land-research/proucl-software>, 2022.



Figures



Imagery provided by Microsoft Bing and its licensors © 2023.

Plan Map and Cross Section of Zone 5

Figure 1

Attachment 1

NACE Inspection Forms



Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Monday, July 31, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

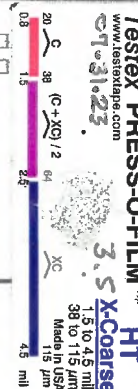
Environmental Conditions:								Specified Conditions
Time	6:16 AM	10:16 AM	2:16 PM	6:16 PM				
Dry Bulb	81.6 °F	77.7 °F	113.4 °F	116.2 °F				35-120 F
Wet Bulb	57.3 °F	65.0 °F	80.7 °F	81.9 °F				
Depression	4.3 °F	12.7 °F	32.7 °F	34.3 °F				
Relative Humidity	76.7%	48.5%	20.4%	19.5%				85%
Dew Point	54.2 °F	58.7 °F	63.1 °F	64.1 °F				
Steel Temp	60.6 °F	77.9 °F	115.3 °F	117.1 °F				35-120 F
Difference	6.4 °F	21.1 °F	52.2 °F	52.9 °F				+5 F
Conditions	SAT	SAT	SAT	SAT				

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION							
☒ STEEL	☐ CONCRETE	☐ WOOD	☐ OTHER				
Satisfactory Pre-cleaning Completed:	YES ☒	NO ☐					
Specified Cleaning:	SP 1 ☐	SP 2 ☐	SP 3 ☐	SP 5 ☐	SP 6 ☐	SP 7 ☐	SP 10 ☐
Actual Cleaning:	SP 1 ☐	SP 2 ☐	SP 3 ☐	SP 5 ☐	SP 6 ☐	SP 7 ☐	SP 10 ☐
Pressure Washing:	N/A	PSI					
Comments:	N/A						
Abrasive used:	Type	BLEND					
	Size	10X					
		(attach pictures of blower - note date & time)					
Blasting performed by evaluated/approved blasters:	YES ☒	NO ☐					
Abrasive cleanliness inspected and acceptable:	YES ☒	NO ☐					
Vial test performed on this batch of abrasive?	YES ☒	NO ☐					
Profile specified:	2 mils						
Actual Profile:	3.5 mils						



Soluble Salt Test Performed:	YES ☐	NO ☐	Results:		µg/cm²
Satisfactory Pre-cleaning Completed:	YES ☐	NO ☐			
Paint mixed per manufacturer's instructions:	YES ☐	NO ☐			
Time Elapsed Since Surface Prep:					
Specified Material:			Material Applied:		
Part A Batch #s:			Part A Batch #s:		
Part B Batch #s:			Part B Batch #s:		
Part C Batch #s:			Part C Batch #s:		
Thinner Batch #s:			Thinner Batch #s:		
Mix Time:	Start Application:		Time Complete:		Pot Life:
Mix Time:	Start Application:		Time Complete:		Pot Life:
Mix Time:	Start Application:		Time Complete:		Pot Life:
Material Temp:			Typical Wet Film Readings:		mils
Qty. Mixed:	Qty. Applied:		Approximate SF:		
Min. Storage Temp.	Max. Storage Temp.		Actual Storage Temperature		

INTERMEDIATE ☐			FINISH ☐		
Satisfactory Intercoat-cleaning Completed:	YES ☐	NO ☐			
Soluble Salt Test Performed:	YES ☐	NO ☐	Results:		µg/cm²
Satisfactory Pre-cleaning Completed:	YES ☐	NO ☐			
Paint mixed per manufacturer's instructions:	YES ☐	NO ☐			
Specified Material:			Material Applied:		
Part A Batch #s:			Part A Batch #s:		
Part B Batch #s:			Part B Batch #s:		
Part C Batch #s:			Part C Batch #s:		
Thinner Batch #s:			Thinner Batch #s:		
Mix Time:	Start Application:		Time Complete:		Pot Life:
Mix Time:	Start Application:		Time Complete:		Pot Life:
Mix Time:	Start Application:		Time Complete:		Pot Life:
Material Temp:			Typical Wet Film Readings:		mils
Qty. Mixed:	Qty. Applied:		Approximate SF:		
Min. Storage Temp.	Max. Storage Temp.		Actual Storage Temperature		

Notes: PERFORM A BLOTTER TEST ON AIR COMPRESSORS STARTED ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, STARTING AT LEVEL 27, 24, 21, 19, 11.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature:

Date: 7/31/2023

QC Supervisor Signature:

Date: 8-7-23

Form No. QC0005

Revision:

2

Rev. Date

23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Monday, July 31, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:								Specified Conditions
Time	6:16 AM	10:16 AM	2:16 PM	6:16 PM				
Dry Bulb	81.6 °F	77.7 °F	113.4 °F	116.2 °F				35-120 F
Wet Bulb	57.3 °F	65.0 °F	80.7 °F	81.9 °F				
Depression	4.3 °F	12.7 °F	32.7 °F	34.3 °F				
Relative Humidity	76.7%	48.5%	20.4%	19.5%				85%
Dew Point	54.2 °F	58.7 °F	63.1 °F	64.1 °F				
Steel Temp	60.6 °F	77.9 °F	115.3 °F	117.1 °F				35-120 F
Difference	6.4 °F	21.1 °F	52.2 °F	52.9 °F				+5 F
Conditions	SAT	SAT	SAT	SAT				

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type BLEND Size 10X (attach pictures of blitter - note date & time)

Compressed Air Tested? YES ☒ NO ☐

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 3.5 mils

PRIMER

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

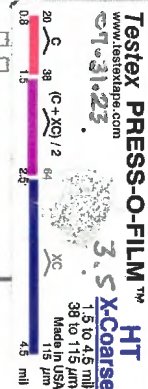
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____



INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: PERFORM A BLITTER TEST ON AIR COMPRESSORS STARTED ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, STARTING AT LEVEL 27,24,21,19,11.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____

Date: 7/31/2023

QC Supervisor Signature: _____

Date: 8-7-23

Form No. QC0005

Revision: 2

Rev. Date 23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Tuesday, August 1, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

Environmental Conditions:

Time	6:16 AM	10:16 AM	2:16 PM	6:16 PM	Specified Conditions
Dry Bulb	59.9 °F	88.2 °F	119.5 °F	106.8 °F	35-120 F
Wet Bulb	56.0 °F	69.9 °F	82.2 °F	77.8 °F	
Depression	3.9 °F	18.3 °F	35.3 °F	29.0 °F	
Relative Humidity	78.2%	37.1%	18.5%	23.2%	85%
Dew Point	53.1 °F	58.7 °F	63.7 °F	61.5 °F	
Steel temp	58.9 °F	89.0 °F	117.5 °F	107.4 °F	35-120 F
Difference	5.7 °F	30.3 °F	55.8 °F	45.9 °F	+5 F
Conditions	SAT	SAT	SAT	SAT	

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR

Model No. DPM

Serial No. 447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type BLEND Size 10X (attach pictures of blaster - note date & time)

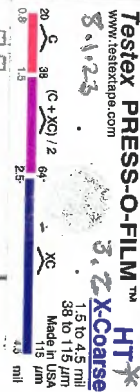
Compressed Air Tested? YES ☒ NO ☐

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 3.3 mils



Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ $\mu\text{g}/\text{cm}^2$

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE ☐

FINISH ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ $\mu\text{g}/\text{cm}^2$

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: PERFORM A BLOTTER TEST ON AIR COMPRESSORS, CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, LEVEL 27, 24, 21, 19.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____

QC Supervisor Signature: _____

Date: 8/1/2023

Date: 8-7-23

Form No. QC0005 Revision: 2

Rev. Date 23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Thursday, August 3, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:								Specified Conditions
Time	5:16 AM	9:16 AM	1:16 PM	5:16 PM				
Dry Bulb	55.9 °F	67.2 °F	108.2 °F	122.3 °F				35-120 F
Wet Bulb	51.2 °F	59.4 °F	78.2 °F	84.1 °F				
Depression	4.7 °F	7.8 °F	30.0 °F	38.2 °F				
Relative Humidity	72.4%	62.2%	22.0%	16.7%				85%
Dew Point	47.1 °F	53.8 °F	61.1 °F	64.5 °F				
Steel temp	54.5 °F	66.5 °F	109.3 °F	123.6 °F				35-120 F
Difference	7.4 °F	12.7 °F	48.2 °F	59.1 °F				+5 F
Conditions	SAT	SAT	SAT	SAT				

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC.

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type BLEND Size 100 (attach pictures of blower - note date & time)

Compressed Air Tested? YES ☒ NO ☐

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 3.1 mils



PRIMER

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Material Applied: _____

Specified Material: _____

Part A Batch #s: _____

Part B Batch #s: _____

Part C Batch #s: _____

Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp: _____ Max. Storage Temp: _____ Actual Storage Temperature: _____

INTERMEDIATE ☐ **FRESH** ☐

Satisfactory Intermediate-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Material Applied: _____

Specified Material: _____

Part A Batch #s: _____

Part B Batch #s: _____

Part C Batch #s: _____

Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp: _____ Max. Storage Temp: _____ Actual Storage Temperature: _____

Notes: PERFORM A BLOTTER TEST ON AIR COMPRESSORS/CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, LEVEL 27,24,23,21,20,19,18.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: Juan Martinez Date: 8/3/2023

QC Supervisor Signature: TJ Garland-Israel Villalobos Date: 8-9-23

Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22 The results relate only to items inspected/tested

Distribution: 1. Jobsite file 2. Project Manager 3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Tuesday, August 8, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

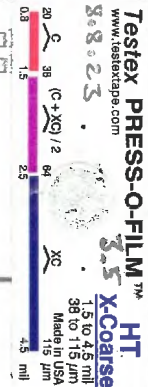
Environmental Conditions:								Specified Conditions
Time	5:25 AM	10:25 AM	2:17 PM	6:17 PM				
Dry Bulb	58.3 °F	77.8 °F	95.6 °F	102.4 °F				35-120 F
Wet Bulb	54.5 °F	65.1 °F	73.5 °F	76.3 °F				
Depression	3.8 °F	12.7 °F	22.1 °F	26.1 °F				
Relative Humidity	78.4%	48.5%	31.1%	26.8%				85%
Dew Point	51.6 °F	56.9 °F	60.8 °F	61.8 °F				
Steel temp	57.3 °F	78.1 °F	96.0 °F	103.2 °F				35-120 F
Difference	5.7 °F	21.2 °F	35.2 °F	41.4 °F				+5 F
Conditions	SAT	SAT	SAT	SAT				

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION							
☒ STEEL	☐ CONCRETE	☐ WOOD	☐ OTHER				
Satisfactory Pre-cleaning Completed:	YES ☒	NO ☐					
Specified Cleaning:	SP 1 ☐	SP 2 ☐	SP 3 ☐	SP 5 ☐	SP 6 ☐	SP 7 ☐	SP 10 ☐
Actual Cleaning:	SP 1 ☐	SP 2 ☐	SP 3 ☐	SP 5 ☐	SP 6 ☐	SP 7 ☐	SP 10 ☐
Pressure Washing:	N/A	PSI					
Comments:	N/A						
Abrasive used:	Type	BLEND	Compressed Air Tested?	YES ☒	NO ☐		
	Size	100 (attach pictures of blaster - note date & time)					
Blasting performed by evaluated/approved blasters:	YES ☒	NO ☐					
Abrasive cleanliness inspected and acceptable:	YES ☒	NO ☐					
Vial test performed on this batch of abrasive?	YES ☒	NO ☐					
Profile specified:	2 mils	Actual Profile:	3.5 mils				
PRIMER							
Soluble Salt Test Performed:	YES ☐	NO ☐	Results:				
Satisfactory Pre-cleaning Completed:	YES ☐	NO ☐					
Paint mixed per manufacturer's instructions:	YES ☐	NO ☐					
Time Elapsed Since Surface Prep:							
Specified Material:		Material Applied:					
Part A Batch #s:		Part A Batch #s:					
Part B Batch #s:		Part B Batch #s:					
Part C Batch #s:		Part C Batch #s:					
Thinner Batch #s:		Thinner Batch #s:					
Mix Time:	Start Application:	Time Complete:	Put Life:				
Mix Time:	Start Application:	Time Complete:	Put Life:				
Mix Time:	Start Application:	Time Complete:	Put Life:				
Material Temp:	Typical Wet Film Readings:						
Qty. Mixed:	Qty. Applied:	Approximate SF:					
Min. Storage Temp.	Max. Storage Temp.	Actual Storage Temperature:					



INTERMEDIATE ☐				FINISH ☐			
Satisfactory Intercoat-cleaning Completed:	YES ☐	NO ☐		Satisfactory Intercoat-cleaning Completed:	YES ☐	NO ☐	
Soluble Salt Test Performed:	YES ☐	NO ☐	Results:		Soluble Salt Test Performed:	YES ☐	NO ☐
Satisfactory Pre-cleaning Completed:	YES ☐	NO ☐		Satisfactory Pre-cleaning Completed:	YES ☐	NO ☐	
Paint mixed per manufacturer's instructions:	YES ☐	NO ☐		Paint mixed per manufacturer's instructions:	YES ☐	NO ☐	
Specified Material:		Material Applied:		Specified Material:		Material Applied:	
Part A Batch #s:		Part A Batch #s:		Part A Batch #s:		Part A Batch #s:	
Part B Batch #s:		Part B Batch #s:		Part B Batch #s:		Part B Batch #s:	
Part C Batch #s:		Part C Batch #s:		Part C Batch #s:		Part C Batch #s:	
Thinner Batch #s:		Thinner Batch #s:		Thinner Batch #s:		Thinner Batch #s:	
Mix Time:	Start Application:	Time Complete:	Put Life:	Mix Time:	Start Application:	Time Complete:	Put Life:
Mix Time:	Start Application:	Time Complete:	Put Life:	Mix Time:	Start Application:	Time Complete:	Put Life:
Mix Time:	Start Application:	Time Complete:	Put Life:	Mix Time:	Start Application:	Time Complete:	Put Life:
Material Temp:	Typical Wet Film Readings:			Material Temp:	Typical Wet Film Readings:		
Qty. Mixed:	Qty. Applied:	Approximate SF:		Qty. Mixed:	Qty. Applied:	Approximate SF:	
Min. Storage Temp.	Max. Storage Temp.	Actual Storage Temperature:		Min. Storage Temp.	Max. Storage Temp.	Actual Storage Temperature:	

Notes: PERFORM A BLOTTER TEST ON AIR COMPRESSORS, CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, LEVEL 27, 24, 23, 21, 20, 19, 18.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: *Juan Martinez* Date: 8/8/2023
QC Supervisor Signature: *TJ Garland-Israel Villalobos* Date: 8-9-23

Form No. QC0005 Revision: 23-Sep-22 The results relate only to items inspected/tested

Distribution: 1. Jobsite file 2. Project Manager 3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Wednesday, August 9, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

Environmental Conditions:

Time	5:26 AM	9:26 AM	1:26 PM	5:26 PM					Specified Conditions
Dry Bulb	62.9 °F	63.6 °F	66.3 °F	100.5 °F					35-120 F
Wet Bulb	57.2 °F	57.6 °F	69.2 °F	70.1 °F					
Depression	5.7 °F	6.0 °F	17.1 °F	24.4 °F					
Relative Humidity	70.0%	68.6%	39.4%	29.4%					85%
Dew Point	53.0 °F	53.1 °F	58.7 °F	62.9 °F					
Steel temp	60.6 °F	62.4 °F	85.3 °F	101.4 °F					35-120 F
Difference	7.6 °F	9.3 °F	26.6 °F	38.5 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSTECTOR

Model No. DPM

Serial No. 447475

SURFACE PREPARATION

☒ STEEL

☐ CONCRETE

☐ WOOD

☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used:

Type

BLEND

Compressed Air Tested? YES ☒ NO ☐

Size

100

(attach pictures of blaster - note date & time)

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils

Actual Profile: 3.4 mils

PRIMER

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ $\mu\text{g}/\text{cm}^2$

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material:

Part A Batch #s:

Part B Batch #s:

Part C Batch #s:

Thinner Batch #s:

Material Applied:

Part A Batch #s:

Part B Batch #s:

Part C Batch #s:

Thinner Batch #s:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Material Temp:

Typical Wet Film Readings:

mils

Qty. Mixed:

Qty. Applied:

Approximate SF:

Min. Storage Temp:

Max. Storage Temp:

Actual Storage Temperature

INTERMEDIATE ☐

FRESH ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ $\mu\text{g}/\text{cm}^2$

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material:

Part A Batch #s:

Part B Batch #s:

Part C Batch #s:

Thinner Batch #s:

Material Applied:

Part A Batch #s:

Part B Batch #s:

Part C Batch #s:

Thinner Batch #s:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Material Temp:

Typical Wet Film Readings:

mils

Qty. Mixed:

Qty. Applied:

Approximate SF:

Min. Storage Temp:

Max. Storage Temp:

Actual Storage Temperature

Notes:

PERFORM A BLEND TEST ON AIR COMPRESSORS CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, LEVEL 27, 25, 20 AND 18.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature:

Date: 8/9/2023

QC Supervisor Signature:

Date: 8-15-23

Form No. QC0005 Revision: 2

Rev. Date 23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Thursday, August 10, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

Time	5:26 AM	9:26 AM	1:26 PM	5:26 PM					Specified Conditions
Dry Bulb	65.8 °F	65.3 °F	88.5 °F	101.9 °F					35-120 F
Wet Bulb	59.2 °F	58.5 °F	70.4 °F	77.1 °F					
Depression	6.6 °F	6.8 °F	18.1 °F	24.8 °F					
Relative Humidity	67.1%	65.9%	38.0%	29.6%					85%
Dew Point	54.5 °F	53.6 °F	59.7 °F	64.3 °F					
Steel temp	64.8 °F	64.2 °F	87.6 °F	102.8 °F					35-120 F
Difference	10.2 °F	10.6 °F	28.0 °F	38.5 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC.

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSTECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type BLEND Compressed Air Tested? YES ☒ NO ☐

Size 10X (attach pictures of blaster - note date & time)

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 3.2 mils



PRIMER

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Min. Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Min. Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Min. Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp: _____ Max. Storage Temp: _____ Actual Storage Temperature: _____

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intermediate cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Min. Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Min. Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Min. Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp: _____ Max. Storage Temp: _____ Actual Storage Temperature: _____

Notes: PERFORM A BLOTTER TEST ON AIR COMPRESSORS; CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, LEVEL 26, 25, 22, 18 AND 17.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____ Date: 8/10/2023
QC Supervisor Signature: _____ Date: 8-15-23

Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file 2. Project Manager 3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Friday, August 11, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

Environmental Conditions:

Time	5:26 AM	9:26 AM	1:26 PM	5:26 PM					Specified Conditions
Dry Bulb	66.0 °F	68.2 °F	84.9 °F	99.8 °F					35-120 F
Wet Bulb	59.5 °F	61.4 °F	68.3 °F	76.1 °F					
Depression	6.5 °F	6.8 °F	15.6 °F	23.7 °F					
Relative Humidity	67.5%	67.7%	43.5%	30.9%					85%
Dew Point	55.0 °F	57.1 °F	60.2 °F	63.6 °F					
Steel temp	65.3 °F	67.1 °F	83.9 °F	100.2 °F					35-120 F
Difference	10.4 °F	10.0 °F	23.7 °F	36.6 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.

Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR

Model No. DPM

Serial No. 447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type BLEND Size 10X (attach pictures of blotto - note date & time)

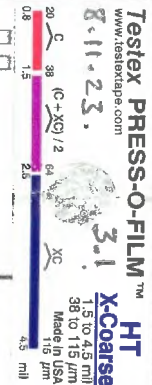
Compressed Air Tested? YES ☒ NO ☐

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 3.1 mils



Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE ☐

FINISH ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: PERFORM A BLOTTER TEST ON AIR COMPRESSORS; CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, LEVEL 17, 18, 20, 23, 25 AND 26.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____

QC Supervisor Signature: _____

Form No. QC0005 Revision: _____

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Date: 8/11/2023

Date: 8-15-23

The results relate only to items inspected/tested

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Monday, August 14, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

Time	5:26 AM	9:26 AM	1:26 PM	5:26 PM					Specified Conditions
Dry Bulb	71.7 °F	69.8 °F	80.0 °F	102.9 °F					35-120 F
Wet Bulb	63.6 °F	62.4 °F	69.7 °F	78.1 °F					
Depression	8.1 °F	7.4 °F	20.3 °F	24.8 °F					
Relative Humidity	63.1%	65.8%	59.0%	30.6%					85%
Dew Point	58.6 °F	57.8 °F	64.3 °F	66.0 °F					
Steel temp	70.8 °F	68.9 °F	78.5 °F	103.3 °F					35-120 F
Difference	12.3 °F	11.1 °F	14.1 °F	37.4 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR

Model No.

DPM

Serial No.

447475

SURFACE PREPARATION

☒ STEEL

☐ CONCRETE

☐ WOOD

☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type BLEND Compressed Air Tested? YES ☒ NO ☐

Size 10X (attach pictures of blotter - note date & time)

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 3.2 mils

PRIMER

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____

Material Applied: _____

Part A Batch #'s: _____

Part A Batch #'s: _____

Part B Batch #'s: _____

Part B Batch #'s: _____

Part C Batch #'s: _____

Part C Batch #'s: _____

Thinner Batch #'s: _____

Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE ☐

FRESH ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material: _____

Material Applied: _____

Part A Batch #'s: _____

Part A Batch #'s: _____

Part B Batch #'s: _____

Part B Batch #'s: _____

Part C Batch #'s: _____

Part C Batch #'s: _____

Thinner Batch #'s: _____

Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: PERFORM A BLOTTER TEST ON AIR COMPRESSORS; CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, LEVELS 26, 25, 23 AND 17.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____

Date: 8/14/2023

QC Supervisor Signature: _____

Date: 8-15-23

Form No. QC0005

Revision: 2

Rev. Date 23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Tuesday, August 15, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

Time	5:26 AM	9:26 AM	1:26 PM	5:26 PM					Specified Conditions
Dry Bulb	69.8 °F	68.7 °F	89.3 °F	109.3 °F					35-120 F
Wet Bulb	62.5 °F	62.6 °F	71.8 °F	80.2 °F					
Depression	7.3 °F	6.1 °F	17.5 °F	29.1 °F					
Relative Humidity	66.2%	70.6%	40.7%	25.1%					85%
Dew Point	58.0 °F	58.8 °F	62.2 °F	65.8 °F					
Steel temp	69.3 °F	67.7 °F	88.0 °F	110.5 °F					35-120 F
Difference	11.3 °F	8.9 °F	25.8 °F	44.7 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSTECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type 20-70 BLEND Size 10X (attach pictures of blotter - note date & time)

Compressed Air Tested? YES ☒ NO ☐

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 3 mils

PRIMER

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material: _____ Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: PERFORM A BLOTTER TEST ON AIR COMPRESSORS; CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA C, LEVELS 25 AND 26.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____ Date: 8/15/2023
QC Supervisor Signature: _____ Date: 8-16-23
Form No. QC0005 Revision: _____ Rev. Date 23-Sep-22

Distribution: 1. Jobsite file

2. Project Manager

3. Client

The results relate only to items inspected/tested

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
 Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
 Work Location: MOFFETT FIELD CA.
 Owner: GOOGLE
 Task: ABRASIVE BLASTING IN ZONE 5 AREA C

Project: HANGAR 1
 Inspector: JUAN MARTINEZ
 Date Worked: Wednesday, August 16, 2023
 Address: FORMER NAVAL AIR STATION
 MOFFETT FIELD CA. 94305

Environmental Conditions:

Time	6:16 AM	10:16 AM	2:16 PM	6:16 PM				Specified Conditions
Dry Bulb	69.1 °F	76.0 °F	103.3 °F	104.7 °F				35-120 F
Wet Bulb	61.7 °F	67.0 °F	77.0 °F	77.8 °F				
Depression	7.4 °F	9.0 °F	26.3 °F	26.9 °F				
Relative Humidity	65.2%	61.8%	26.9%	25.5%				85%
Dew Point	56.9 °F	62.0 °F	62.7 °F	63.4 °F				
Steel temp	68.7 °F	74.9 °F	103.2 °F	106.6 °F				35-120 F
Difference	11.7 °F	13.0 °F	40.4 °F	43.2 °F				+5 F
Conditions	SAT	SAT	SAT	SAT				

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.

Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR

Model No. DPM

Serial No. 447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A

PSI

Comments: N/A

Abrasive used:

Type 20-70 BLEND

Compressed Air Tested? YES ☒NO ☐

Size 10X

(attach pictures of blotter - note date & time)

Blasting performed by evaluated/approved blasters:

YES ☒NO ☐

Abrasive cleanliness inspected and acceptable:

YES ☒NO ☐

Vial test performed on this batch of abrasive?

YES ☒NO ☐

Profile specified:

2 mils

Actual Profile:

3 mils

PRIMER

Soluble Salt Test Performed:

YES ☐NO ☐

Results:

µg/cm²

Satisfactory Pre-cleaning Completed:

YES ☐NO ☐

Paint mixed per manufacturer's instructions:

YES ☐NO ☐

Time Elapsed Since Surface Prep:

Specified Material:

Material Applied:

Part A Batch #s:

Part A Batch #s:

Part B Batch #s:

Part B Batch #s:

Part C Batch #s:

Part C Batch #s:

Thinner Batch #s:

Thinner Batch #s:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Material Temp:

Typical Wet Film Readings:

mils

Qty. Mixed:

Qty. Applied:

Approximate SF:

Min. Storage Temp.

Max. Storage Temp.

Actual Storage Temperature

INTERMEDIATE ☐**FINISH** ☐

Satisfactory Intercoat-cleaning Completed:

YES ☐NO ☐

Soluble Salt Test Performed:

YES ☐NO ☐

Results:

µg/cm²

Satisfactory Pre-cleaning Completed:

YES ☐NO ☐

Paint mixed per manufacturer's instructions:

YES ☐NO ☐

Specified Material:

Material Applied:

Part A Batch #s:

Part A Batch #s:

Part B Batch #s:

Part B Batch #s:

Part C Batch #s:

Part C Batch #s:

Thinner Batch #s:

Thinner Batch #s:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Mix Time:

Start Application:

Time Complete:

Pot Life:

Material Temp:

Typical Wet Film Readings:

mils

Qty. Mixed:

Qty. Applied:

Approximate SF:

Min. Storage Temp.

Max. Storage Temp.

Actual Storage Temperature

Notes:

PERFORM A BLOTTER TEST ON AIR COMPRESSORS; CONTINUE AND FINISH ABRASIVE BLASTING
 STRUCTURAL STEEL IN ZONE 5 AREA C, LEVELS 25 AND 26.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature:

Date: 8/16/2023

QC Supervisor Signature:

Date: 8-22-23

Form No.

QC0005

Revision:

2

Rev. Date

23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA D

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Wednesday, August 30, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

Environmental Conditions:

Time	5:12 AM	9:12 AM	1:12 PM	5:12 PM	Specified Conditions
Dry Bulb	68.1 °F	67.6 °F	82.7 °F	110.6 °F	35-120 F
Wet Bulb	60.1 °F	60.5 °F	69.0 °F	80.0 °F	
Depression	8.0 °F	7.1 °F	13.7 °F	30.6 °F	
Relative Humidity	61.8%	65.7%	48.3%	22.8%	85%
Dew Point	54.5 °F	55.7 °F	61.2 °F	64.0 °F	
Steel temp	67.1 °F	66.7 °F	83.1 °F	112.2 °F	35-120 F
Difference	12.7 °F	11.0 °F	22.0 °F	48.2 °F	+5 F
Conditions	SAT	SAT	SAT	SAT	

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.

Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSTECTOR

Model No.

DPM

Serial No.

447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type 20-70 BLEND Size 10X (attach pictures of blotter - note date & time)

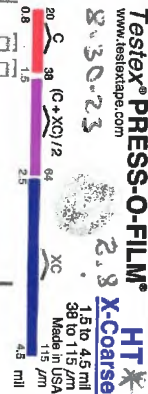
Compressed Air Tested? YES ☒ NO ☐

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 2.8 mils



Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE ☐ FINISH ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Material Applied: _____

Part A Batch #s: _____ Part A Batch #s: _____

Part B Batch #s: _____ Part B Batch #s: _____

Part C Batch #s: _____ Part C Batch #s: _____

Thinner Batch #s: _____ Thinner Batch #s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: PERFORMED A BLOTTER TEST ON AIR COMRESSORS;CONTINUE ABRASIVE BLASTING IN ZONE 5 AREA D LEVELS 11,8,7,4,3,2.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____

Date: 8/30/2023

QC Supervisor Signature: _____

Date: 9-6-23

Form No. QC0005 Revision: 2

Rev. Date 23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: ISRAEL VILLOBOS-NICK RODRIGUEZ
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA B

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Monday, September 18, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

Environmental Conditions:						Specified Conditions
Time	6:32 AM	10:32 AM	2:32 PM	6:32 PM		
Dry Bulb	61.0 °F	99.8 °F	88.0 °F	73.7 °F		35-120 F
Wet Bulb	56.9 °F	74.7 °F	70.2 °F	65.6 °F		
Depression	4.1 °F	25.1 °F	17.8 °F	8.1 °F		
Relative Humidity	77.9%	27.1%	38.5%	64.3%		85%
Dew Point	54.0 °F	59.9 °F	59.6 °F	60.9 °F		
Steel temp	59.4 °F	98.5 °F	86.8 °F	73.2 °F		35-120 F
Difference	5.4 °F	38.6 °F	27.3 °F	12.3 °F		+5 F
Conditions	SAT	SAT	SAT	SAT		

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type GX2 Size FINE (attach pictures of blotter - note date & time)

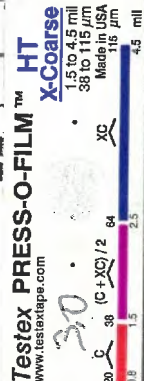
Compressed Air Tested? YES ☒ NO ☐

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 3 mils



PRIMER

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #'s: _____ Part A Batch #'s: _____

Part B Batch #'s: _____ Part B Batch #'s: _____

Part C Batch #'s: _____ Part C Batch #'s: _____

Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material: _____ Material Applied: _____

Part A Batch #'s: _____ Part A Batch #'s: _____

Part B Batch #'s: _____ Part B Batch #'s: _____

Part C Batch #'s: _____ Part C Batch #'s: _____

Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: TJ PERFORMED A BLOTTER TEST ON AIR COMPRESSORS; CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 5 AREA B, LEVELS 27, 26, 24 AND 21.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____ Date: 9/18/2023
QC Supervisor Signature: _____ Date: 9/19/2023
Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22 The results relate only to items inspected/tested
Distribution: 1. Jobsite file 2. Project Manager 3. Client
Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: ISRAEL VILLOBOS-NICK RODRIGUEZ
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA B

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Tuesday, September 19, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

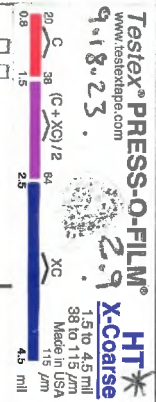
Environmental Conditions:								Specified Conditions
Time	4:32 AM	8:25 AM	12:25 PM	4:25 PM				35-120 F
Dry Bulb	57.2 °F	65.0 °F	72.8 °F	75.2 °F				
Wet Bulb	53.6 °F	60.3 °F	66.5 °F	65.8 °F				
Depression	3.6 °F	4.7 °F	11.3 °F	9.4 °F				
Relative Humidity	79.4%	76.1%	54.0%	59.7%				85%
Dew Point	50.9 °F	57.3 °F	59.8 °F	60.2 °F				
Steel temp	55.9 °F	63.8 °F	77.3 °F	75.1 °F				35-120 F
Difference	5.0 °F	6.5 °F	17.5 °F	14.9 °F				+5 F
Conditions	SAT	SAT	SAT	SAT				

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION							
☒ STEEL	☐ CONCRETE	☐ WOOD	☐ OTHER				
Satisfactory Pre-cleaning Completed:	YES ☒	NO ☐					
Specified Cleaning:	SP 1 ☐	SP 2 ☐	SP 3 ☐	SP 5 ☐	SP 6 ☒	SP 7 ☐	SP 10 ☐
Actual Cleaning:	SP 1 ☐	SP 2 ☐	SP 3 ☐	SP 5 ☐	SP 6 ☐	SP 7 ☐	SP 10 ☐
Pressure Washing:	N/A	PSI					
Comments:	N/A						
Abrasive used:	Type	GX2	Compressed Air Tested?	YES ☒	NO ☐		
	Size	FINE	(attach pictures of blotter - note date & time)				
Blasting performed by evaluated approved blasters:	YES ☒	NO ☐					
Abrasive cleanliness inspected and acceptable:	YES ☒	NO ☐					
Vial test performed on this batch of abrasive?	YES ☒	NO ☐					
Profile specified:	2 mils	Actual Profile:	2.9 mils				
PRIMER							
Soluble Salt Test Performed:	YES ☐	NO ☐	Results:		µg/cm ²		
Satisfactory Pre-cleaning Completed:	YES ☐	NO ☐					
Paint mixed per manufacturer's instructions:	YES ☐	NO ☐					
Time Elapsed Since Surface Prep:							
Specified Material:		Material Applied:					
Part A Batch #s:		Part A Batch #s:					
Part B Batch #s:		Part B Batch #s:					
Part C Batch #s:		Part C Batch #s:					
Thinner Batch #s:		Thinner Batch #s:					
Mix Time:	Start Application:	Time Complete:	Pot Life:				
Mix Time:	Start Application:	Time Complete:	Pot Life:				
Mix Time:	Start Application:	Time Complete:	Pot Life:				
Material Temp:	Typical Wet Film Readings:	mils					
Qty. Mixed:	Qty. Applied:	Approximate SF:					
Min. Storage Temp.	Max. Storage Temp.	Actual Storage Temperature					



☒ INTERMEDIATE	☐ FINISH		
Satisfactory Intercoat-cleaning Completed:	YES ☐	NO ☐	
Soluble Salt Test Performed:	YES ☐	NO ☐	Results: µg/cm ²
Satisfactory Pre-cleaning Completed:	YES ☐	NO ☐	
Paint mixed per manufacturer's instructions:	YES ☐	NO ☐	
Specified Material:		Material Applied:	
Part A Batch #s:		Part A Batch #s:	
Part B Batch #s:		Part B Batch #s:	
Part C Batch #s:		Part C Batch #s:	
Thinner Batch #s:		Thinner Batch #s:	
Mix Time:	Start Application:	Time Complete:	Pot Life:
Mix Time:	Start Application:	Time Complete:	Pot Life:
Mix Time:	Start Application:	Time Complete:	Pot Life:
Material Temp:	Typical Wet Film Readings:	mils	
Qty. Mixed:	Qty. Applied:	Approximate SF:	
Min. Storage Temp.	Max. Storage Temp.	Actual Storage Temperature	

Notes: TJ PERFORMED A BLOTTER TEST ON AIR COMPRESSORS;CONTINUE ABRASIVE BLASTING
STRUCTURAL STEEL IN ZONE 5 AREA B,LEVELS 26,24,23,21.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: [Signature] Date: 9/19/2023
QC Supervisor Signature: [Signature] Date: 9/21/2023
Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22 The results relate only to items inspected/tested
Distribution: 1. Jobsite file 2. Project Manager 3. Client
Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: ISRAEL VILLALOBOS-NICK RODRIGUEZ
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA B

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Wednesday, September 20, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

Environmental Conditions:

Time	5:07 AM	9:07 AM	1:07 PM	5:07 PM					Specified Conditions
Dry Bulb	58.1 °F	92.0 °F	93.3 °F	76.6 °F					35-120 F
Wet Bulb	54.2 °F	71.2 °F	72.0 °F	66.7 °F					
Depression	4.9 °F	20.8 °F	21.3 °F	9.9 °F					
Relative Humidity	77.4%	32.5%	31.9%	58.7%					85%
Dew Point	51.7 °F	58.3 °F	59.0 °F	61.0 °F					
Steel temp	56.7 °F	90.4 °F	91.5 °F	75.7 °F					35-120 F
Difference	5.6 °F	32.1 °F	32.6 °F	14.7 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSTECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type Gx2 Size FINE (attach pictures of blotter - note date & time)

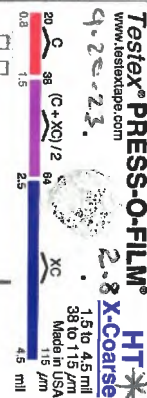
Compressed Air Tested? YES ☒ NO ☐

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 2.8 mils



Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #'s: _____ Part A Batch #'s: _____

Part B Batch #'s: _____ Part B Batch #'s: _____

Part C Batch #'s: _____ Part C Batch #'s: _____

Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE

FINISH

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material: _____ Material Applied: _____

Part A Batch #'s: _____ Part A Batch #'s: _____

Part B Batch #'s: _____ Part B Batch #'s: _____

Part C Batch #'s: _____ Part C Batch #'s: _____

Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: TJ PERFORMED A BLOTTER TEST ON AIR COMPRESSORS; CONTINUE ABRASIVE BLASTING
STRUCTURAL STEEL IN ZONE 5 AREA B, LEVELS 26, 25, 23, 22, 21, 20.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____

Date: 9/20/2023

QC Supervisor Signature: _____

Date: 9/21/2023

Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file 2. Project Manager 3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



Client Representative: MCCARTHY
Certified Supervisor: ISRAEL VILLOBOS-NICK RODRIGUEZ
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 5 AREA B

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Thursday, September 21, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:								Specified Conditions
Time	5:07 AM	9:39 AM	1:39 PM	5:39 PM				
Dry Bulb	58.1 °F	86.6 °F	88.6 °F	75.5 °F				35-120 F
Wet Bulb	54.2 °F	67.4 °F	67.9 °F	63.5 °F				
Depression	3.9 °F	19.2 °F	20.7 °F	12.0 °F				
Relative Humidity	77.4%	32.4%	29.1%	49.5%				85%
Dew Point	51.1 °F	53.5 °F	52.4 °F	55.3 °F				
Steel temp	56.7 °F	85.7 °F	87.4 °F	75.1 °F				35-120 F
Difference	5.6 °F	32.1 °F	35.0 °F	19.9 °F				+5 F
Conditions	SAT	SAT	SAT	SAT				

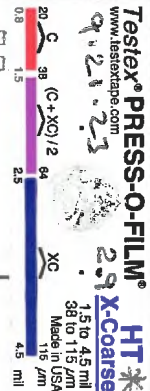
Environmental Controls? CONTAINMENT AND DUST COLLECTORS.

Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475

SURFACE PREPARATION							
☒ STEEL	☐ CONCRETE	☐ WOOD	☐ OTHER				
Satisfactory Pre-cleaning Completed:	YES ☒ NO ☐						
Specified Cleaning:	SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐						
Actual Cleaning:	SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐						
Pressure Washing:	N/A PSI						
Comments:							
Abrasive used:	Type Gx2 Size FINE (attach pictures of blotter - note date & time)						
Blasting performed by evaluated/approved blasters:	YES ☒ NO ☐						
Abrasive cleanliness inspected and acceptable:	YES ☒ NO ☐						
Vial test performed on this batch of abrasive?	YES ☒ NO ☐						
Profile specified:	2 mils	Actual Profile:	2.9 mils				

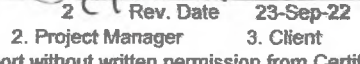


PRIMER			
Soluble Salt Test Performed:	YES ☐ NO ☐	Results:	µg/cm ²
Satisfactory Pre-cleaning Completed:	YES ☐ NO ☐		
Paint mixed per manufacturer's instructions:	YES ☐ NO ☐		
Time Elapsed Since Surface Prep:			
Specified Material:		Material Applied:	
Part A Batch #s:		Part A Batch #s:	
Part B Batch #s:		Part B Batch #s:	
Part C Batch #s:		Part C Batch #s:	
Thinner Batch #s:		Thinner Batch #s:	
Mix Time:	Start Application:	Time Complete:	Pot Life:
Mix Time:	Start Application:	Time Complete:	Pot Life:
Mix Time:	Start Application:	Time Complete:	Pot Life:
Material Temp:	Typical Wet Film Readings:		
Qty. Mixed:	Qty. Applied:	Approximate SF:	
Min. Storage Temp.	Max. Storage Temp.	Actual Storage Temperature	

INTERMEDIATE			
Satisfactory Intercoat-cleaning Completed:	YES ☐ NO ☐		
Soluble Salt Test Performed:	YES ☐ NO ☐	Results:	µg/cm ²
Satisfactory Pre-cleaning Completed:	YES ☐ NO ☐		
Paint mixed per manufacturer's instructions:	YES ☐ NO ☐		
Specified Material:		Material Applied:	
Part A Batch #s:		Part A Batch #s:	
Part B Batch #s:		Part B Batch #s:	
Part C Batch #s:		Part C Batch #s:	
Thinner Batch #s:		Thinner Batch #s:	
Mix Time:	Start Application:	Time Complete:	Pot Life:
Mix Time:	Start Application:	Time Complete:	Pot Life:
Mix Time:	Start Application:	Time Complete:	Pot Life:
Material Temp:	Typical Wet Film Readings:		
Qty. Mixed:	Qty. Applied:	Approximate SF:	
Min. Storage Temp.	Max. Storage Temp.	Actual Storage Temperature	

Notes: TJ PERFORMED A BLOTTER TEST ON AIR COMPRESSORS;CONTINUE ABRASIVE BLASTING
STRUCTURAL STEEL IN ZONE 5 AREA B,LEVELS 25,22,21,20.

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature:  Date: 9/21/2023
QC Supervisor Signature:  Date: 9/29/2023
Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22 The results relate only to items inspected/tested
Distribution: 1. Jobsite file 2. Project Manager 3. Client
Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.

CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
 2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT



Client Representative: **MCCARTHY**
 Certified Supervisor: **ISRAEL VILLALOBOS-NICK RODRIGUEZ**
 Work Location: **MOFFETT FIELD CA.**
 Owner: **GOOGLE**
 Task: **ABRASIVE BLASTING IN ZONE 5 AREA A**

Project: **HANGAR 1**
 Inspector: **JUAN MARTINEZ**
 Date Worked: **Tuesday, October 3, 2023**
 Address: **FORMER NAVAL AIR STATION**
MOFFETT FIELD CA.94305

Environmental Conditions:								Specified Conditions
Time	5:27 AM	9:27 AM	1:27 PM	5:27 PM				
Dry Bulb	61.8 °F	63.3 °F	79.5 °F	72.2 °F				35-120 F
Wet Bulb	56.7 °F	58.0 °F	64.7 °F	62.6 °F				
Depression	5.1 °F	5.3 °F	14.8 °F	9.6 °F				
Relative Humidity	72.6%	72.6%	41.7%	57.4%				85%
Dew Point	52.9 °F	54.3 °F	54.2 °F	56.3 °F				
Steel temp	59.9 °F	63.3 °F	80.4 °F	71.6 °F				35-120 F
Difference	7.0 °F	9.0 °F	26.2 °F	15.3 °F				+5 F
Conditions	SAT	SAT	SAT	SAT				

Environmental Controls? **CONTAINMENT AND DUST COLLECTORS.**

Work area illumination value: **>50 FC**

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. **POSTECTOR**

Model No. **DPM**

Serial No. **447475**

SURFACE PREPARATION

☒ **STEEL** ☐ **CONCRETE** ☐ **WOOD** ☐ **OTHER**

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☐ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type **G2** Size **FINE** Compressed Air Tested? YES ☒ NO ☐

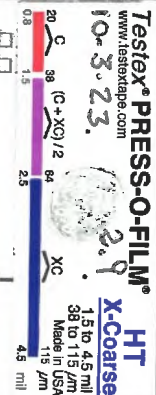
(attach pictures of blotter - note date & time)

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: **2 mils** Actual Profile: **2.9 mils**



PRIMER

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ $\mu\text{g}/\text{cm}^2$

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #'s: _____ Part A Batch #'s: _____

Part B Batch #'s: _____ Part B Batch #'s: _____

Part C Batch #'s: _____ Part C Batch #'s: _____

Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ $\mu\text{g}/\text{cm}^2$

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #'s: _____ Part A Batch #'s: _____

Part B Batch #'s: _____ Part B Batch #'s: _____

Part C Batch #'s: _____ Part C Batch #'s: _____

Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: **PERFORMED A BLOTTER TEST ON AIR COMPRESSORS; CONTINUE ABRASIVE BLASTING IN ZONE 5 AREA A, LEVELS 16,14,11,8.**

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____

Date: **10/3/2023**

QC Supervisor Signature: _____

Date: **10/4/23**

Form No. **QC0005** Revision: _____

Rev. Date **23-Sep-22**

The results relate only to items inspected/tested

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.

CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT



Client Representative: MCCARTHY
Certified Supervisor: NICK RODRIGUEZ-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASSIVE BLASTING ZONE 5 AREA A

Project: HANGAR 1
Inspector: TJ GARDNER II
Date Worked: Thursday, October 5, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

Environmental Conditions:

Time	6:26AM	10:26AM	1:25PM	5:26PM	Specified Conditions
Dry Bulb	67.3 °F	98.0 °F	90.3 °F	88.8 °F	35-120 F
Wet Bulb	58.3 °F	74.5 °F	64.9 °F	63.8 °F	
Depression	9.0 °F	23.5 °F	25.4 °F	13.0 °F	
Relative Humidity	56.5%	29.8%	30.3%	31.9%	85%
Dew Point	51.3 °F	61.1 °F	54.9 °F	54.4 °F	
Steel temp	66.1 °F	99.9 °F	90.7 °F	88.4 °F	35-120 F
Difference	14.8 °F	38.8 °F	35.8 °F	34.0 °F	+5 F
Conditions	SAT	SAT	SAT	SAT	

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR

Model No. DPM

Serial No. 447113

SURFACE PREPARATION

☒ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☒ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type GARNET Compressed Air Tested? YES ☒ NO ☐

Size GX2 (attach pictures of blotter - note date & time)

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 3.2 mils

PRIMER

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ $\mu\text{g}/\text{cm}^2$

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #'s: _____ Part A Batch #'s: _____

Part B Batch #'s: _____ Part B Batch #'s: _____

Part C Batch #'s: _____ Part C Batch #'s: _____

Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE ☐

FINISH ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ $\mu\text{g}/\text{cm}^2$

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____

Part A Batch #'s: _____ Part A Batch #'s: _____

Part B Batch #'s: _____ Part B Batch #'s: _____

Part C Batch #'s: _____ Part C Batch #'s: _____

Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____

Material Temp: _____ Typical Wet Film Readings: _____ mils

Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____

Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: ABRASSIVE BLASTING ZONE 5 AREA A. 16 BLASTERS
START TIME-5:40AM STOP TIME-2:50PM

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____

Date: 10/5/2023

QC Supervisor Signature: _____

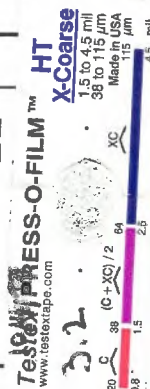
Date: 10-5-23

Form No. QC0005 Revision: 2 Rev. Date 23-Sep-23

The results relate only to items inspected/tested

Distribution: 1. Jobsite file 2. Project Manager 3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.



CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT



Client Representative: McCARTHY
Certified Supervisor: NICK RODRIGUEZ-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASSIVE BLASTING ZONE 5 AREA A

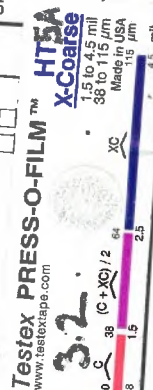
Project: HANGAR 1
Inspector: TJ GARDNER II
Date Worked: Thursday, October 12, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

Environmental Conditions:						Specified Conditions
Time	5:11AM	10:26AM	1:26PM	5:26PM		
Dry Bulb	56.3 °F	93.0 °F	78.4 °F	70.5 °F		35-120 F
Wet Bulb	47.8 °F	70.3 °F	62.1 °F	58.0 °F		
Depression	8.5 °F	22.7 °F	16.3 °F	14.8 °F		85%
Relative Humidity	48.5%	27.4%	29.0%	37.7%		
Dew Point	37.2 °F	54.4 °F	43.9 °F	49.4 °F		35-120 F
Steel temp	54.5 °F	93.3 °F	78.3 °F	75.1 °F		
Difference	17.3 °F	38.9 °F	34.4 °F	27.2 °F		+5 F
Conditions	SAT	SAT	SAT	SAT		

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.
Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475

☒ **STEEL** ☐ **CONCRETE** ☐ **WOOD** ☐ **OTHER**
Satisfactory Pre-cleaning Completed: YES ☒ NO ☐
Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐
Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☒ SP 11 ☐
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES ☒ NO ☐
Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐
Vial test performed on this batch of abrasive? YES ☒ NO ☐
Profile specified: 2 mils Actual Profile: 3.2 mils



Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES ☐ NO ☐
Paint mixed per manufacturer's instructions: YES ☐ NO ☐
Time Elapsed Since Surface Prep: _____
Specified Material: _____
Part A Batch #'s: _____
Part B Batch #'s: _____
Part C Batch #'s: _____
Thinner Batch #'s: _____
Material Applied: _____
Part A Batch #'s: _____
Part B Batch #'s: _____
Part C Batch #'s: _____
Thinner Batch #'s: _____
Mix Time: _____
Mix Time: _____
Mix Time: _____
Material Temp: _____
Qty. Mixed: _____
Min. Storage Temp. _____
Start Application: _____
Start Application: _____
Start Application: _____
Typical Wet Film Readings: _____ mils
Approximate SF: _____
Actual Storage Temperature _____
Pot Life: _____
Pot Life: _____
Pot Life: _____

INTERMEDIATE ☐

FINISH ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES ☐ NO ☐
Paint mixed per manufacturer's instructions: YES ☐ NO ☐
Time Elapsed Since Surface Prep: _____
Specified Material: _____
Part A Batch #'s: _____
Part B Batch #'s: _____
Part C Batch #'s: _____
Thinner Batch #'s: _____
Material Applied: _____
Part A Batch #'s: _____
Part B Batch #'s: _____
Part C Batch #'s: _____
Thinner Batch #'s: _____
Mix Time: _____
Mix Time: _____
Mix Time: _____
Material Temp: _____
Qty. Mixed: _____
Min. Storage Temp. _____
Start Application: _____
Start Application: _____
Start Application: _____
Typical Wet Film Readings: _____ mils
Approximate SF: _____
Actual Storage Temperature _____
Pot Life: _____
Pot Life: _____
Pot Life: _____

Notes: ABRASSIVE BLASTING ZONE 5 AREA A. 16 BLASTERS
START TIME-AM STOP TIME-PM
The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 10/12/2023
QC Supervisor Signature: _____ Date: 10-12-23
Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22
Distribution: 1. Jobsite file 2. Project Manager 3. Client
Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.

CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT



Client Representative: MCCARTHY
Certified Supervisor: NICK RODRIGUEZ-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASSIVE BLASTING ZONE 5 AREA A

Project: HANGAR 1
Inspector: TJ GARDNER II
Date Worked: Friday, October 13, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA. 94305

Environmental Conditions:								Specified Conditions
Time	5:11AM	10:26AM	1:26PM	5:26PM				35-120 F
Dry Bulb	58.3 °F	89.9 °F	79.9 °F	70.9 °F				
Wet Bulb	48.5 °F	68.1 °F	63.1 °F	60.1 °F				
Depression	9.8 °F	21.8 °F	16.8 °F	10.8 °F				
Relative Humidity	42.0%	26.4%	34.0%	50.7%				85%
Dew Point	35.4 °F	50.8 °F	49.1 °F	51.8 °F				
Steel temp	57.1 °F	90.4 °F	80.0 °F	70.3 °F				35-120 F
Difference	21.7 °F	39.5 °F	31.0 °F	18.5 °F				+5 F
Conditions	SAT	SAT	SAT	SAT				

Environmental Controls? CONTAINMENT AND DUST COLLECTORS.

Work area illumination value: >50 FC

Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC

QC Instrument Info. POSITECTOR

Model No. DPM

Serial No. 447475

SURFACE PREPARATION

☒ STEEL

☐ CONCRETE

☐ WOOD

☐ OTHER

Satisfactory Pre-cleaning Completed: YES ☒ NO ☐

Specified Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☒ SP 7 ☐ SP 10 ☐ SP 11 ☐

Actual Cleaning: SP 1 ☐ SP 2 ☐ SP 3 ☐ SP 5 ☐ SP 6 ☐ SP 7 ☐ SP 10 ☒ SP 11 ☐

Pressure Washing: N/A PSI

Comments: N/A

Abrasive used: Type GARNET Compressed Air Tested? YES ☒ NO ☐

Size GX2 (attach pictures of blotter - note date & time)

Blasting performed by evaluated/approved blasters: YES ☒ NO ☐

Abrasive cleanliness inspected and acceptable: YES ☒ NO ☐

Vial test performed on this batch of abrasive? YES ☒ NO ☐

Profile specified: 2 mils Actual Profile: 2.7 mils

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Time Elapsed Since Surface Prep: _____

Specified Material: _____

Material Applied: _____

Part A Batch #'s: _____

Part A Batch #'s: _____

Part B Batch #'s: _____

Part B Batch #'s: _____

Part C Batch #'s: _____

Part C Batch #'s: _____

Thinner Batch #'s: _____

Thinner Batch #'s: _____

Mix Time: _____

Start Application: _____

Time Complete: _____

Pot Life: _____

Mix Time: _____

Start Application: _____

Time Complete: _____

Pot Life: _____

Mix Time: _____

Start Application: _____

Time Complete: _____

Pot Life: _____

Material Temp: _____

Typical Wet Film Readings: _____ mils

Qty. Mixed: _____

Qty. Applied: _____

Approximate SF: _____

Min. Storage Temp. _____

Max. Storage Temp. _____

Actual Storage Temperature _____

INTERMEDIATE ☐

FINISH ☐

Satisfactory Intercoat-cleaning Completed: YES ☐ NO ☐

Soluble Salt Test Performed: YES ☐ NO ☐ Results: _____ µg/cm²

Satisfactory Pre-cleaning Completed: YES ☐ NO ☐

Paint mixed per manufacturer's instructions: YES ☐ NO ☐

Specified Material: _____

Material Applied: _____

Part A Batch #'s: _____

Part A Batch #'s: _____

Part B Batch #'s: _____

Part B Batch #'s: _____

Part C Batch #'s: _____

Part C Batch #'s: _____

Thinner Batch #'s: _____

Thinner Batch #'s: _____

Mix Time: _____

Start Application: _____

Time Complete: _____

Pot Life: _____

Mix Time: _____

Start Application: _____

Time Complete: _____

Pot Life: _____

Mix Time: _____

Start Application: _____

Time Complete: _____

Pot Life: _____

Material Temp: _____

Typical Wet Film Readings: _____ mils

Qty. Mixed: _____

Qty. Applied: _____

Approximate SF: _____

Min. Storage Temp. _____

Max. Storage Temp. _____

Actual Storage Temperature _____

Notes: ABRASSIVE BLASTING ZONE 5 AREA A. 5 BLASTERS

START TIME-5:40AM STOP TIME-7:20AM

The undersigned certifies that the above information is true and accurate to the best of my knowledge

QC Inspector Signature: _____

Date: 10/13/2023

QC Supervisor Signature: _____

Date: 10-16-23

Form No. QC0005 Revision: _____

Rev. Date 23-Sep-22

The results relate only to items inspected/tested

Distribution: 1. Jobsite file

2. Project Manager

3. Client

Reproduction or distribution of this report without written permission from Certified Coatings is prohibited.

Attachment 2

Tabulated PCB and Lead Confirmation Wipe Sampling Analytical Results



Validated Confirmation Wipe Sampling Results - Low Occupancy Area within Zone 5

Hangar 1 NTCRA

Former Naval Air Station Moffett Field, California

			Lead	PCBs								
			Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
LocationID [a]	Sample Date	Enclosure	µg/ft²	Concentration - µg/100 cm²								
Cleanup Goal (Low Occupancy Zone)			<250	<100	<100	<100	<100	<100	<100	<100	<100	<100
ARCH-C8W-EXT-1 TO 2-230828-WF	08/28/2023	C/D	71	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-EXT-1 TO 2-230828-WF [b]	08/28/2023	C/D	49	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-EXT-1 TO 2-230828-DUP-WF	08/28/2023	C/D	61	--	--	--	--	--	--	--	--	--
ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-LA	08/28/2023	C/D	64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10W-DG-1.5 TO 2-230828-FB	08/28/2023	C/D	27	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10W-DG-1.5 TO 2-230828-DUP-FB [b]	08/28/2023	C/D	15	--	--	--	--	--	--	--	--	--
ARCH-C9W-DG-2 TO 2.5-230828-FB	08/28/2023	C/D	25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-LA	08/28/2023	C/D	32	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-DUP-LA	08/28/2023	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C11W-INT-1.5 TO 2.5-230828-WF	08/28/2023	C/D	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-PS-2.5-230828-G	08/28/2023	C/D	37	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-LA	08/28/2023	C/D	37	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-DUP-LA	08/28/2023	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10W-PS-2.5-230828-G	08/28/2023	C/D	41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-3 TO 3.5-230828-FB	08/28/2023	C/D	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-3 TO 3.5-230828-DUP-FB	08/28/2023	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-LA	08/28/2023	C/D	55	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-PS-3.5-230828-G	08/28/2023	C/D	36	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10W-INT-2.5 TO 3.5-230828-WF	08/28/2023	C/D	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10W-INT-2.5 TO 3.5-230828-DUP-WF [b]	08/28/2023	C/D	130	--	--	--	--	--	--	--	--	--
ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-LA	08/28/2023	C/D	56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-LA	08/28/2023	C/D	67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-DUP-LA	08/28/2023	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-4 TO 4.5-230828-FB [b]	08/28/2023	C/D	13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-4 TO 4.5-230828-DUP-FB	08/28/2023	C/D	19	--	--	--	--	--	--	--	--	--
ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-LA	08/28/2023	C/D	82	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-4.5 TO 5-230828-FB	08/28/2023	C/D	64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-LA	08/28/2023	C/D	53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-DUP-LA [b]	08/28/2023	C/D	43	--	--	--	--	--	--	--	--	--
ARCH-C11W-PS-4.5-230828-G	08/28/2023	C/D	43	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-INT-4.5 TO 5.5-230828-WF	08/28/2023	C/D	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-LA	08/28/2023	C/D	56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-LA	08/28/2023	C/D	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10W-DG-5 TO 5.5-230828-FB	08/28/2023	C/D	52	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10W-DG-5 TO 5.5-230828-DUP-FB	08/28/2023	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-PS-5.5-230911-G	09/11/2023	C/D	26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-LA	09/11/2023	C/D	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10W-PS-5.5-230911-G	09/11/2023	C/D	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-5.5 TO 6-230911-FB	09/11/2023	C/D	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-LA	09/11/2023	C/D	57	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-EXT-6 TO 7-230911-WF	09/11/2023	C/D	34	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-LA	09/11/2023	C/D	55	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-LA	09/11/2023	C/D	36	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C11W-DG-6 TO 6.5-230911-FB	09/11/2023	C/D	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-LA	09/11/2023	C/D	70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-PS-6.5-230911-G	09/11/2023	C/D	33	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C11W-PS-6.5-230911-G	09/11/2023	C/D	18	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-INT-6.5 TO 7-230911-WF	09/11/2023	C/D	20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-LA	09/11/2023	C/D	63	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-7 TO 7.5-230911-FB	09/11/2023	C/D	34	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-LA	09/11/2023	C/D	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-LA	09/11/2023	C/D	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50



Validated Confirmation Wipe Sampling Results - Low Occupancy Area within Zone 5

Hangar 1 NTCRA

Former Naval Air Station Moffett Field, California

			Lead	PCBs								
			Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
LocationID [a]	Sample Date	Enclosure	µg/ft²	Concentration - µg/100 cm²								
Cleanup Goal (Low Occupancy Zone)			<250	<100	<100	<100	<100	<100	<100	<100	<100	<100
ARCH-C9W-INT-7.5 TO 9-230911-WF	09/11/2023	C/D	390	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-LA	09/11/2023	C/D	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8W-INT-7.5 TO 9-230911-WF	09/11/2023	C/D	29	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C11W-EXT-8 TO 9-230911-WF	09/11/2023	C/D	45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8E-EXT-1 TO 2-231003-WF [b]	10/03/2023	A/B	11	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8E-EXT-1 TO 2-231003-DUP-WF	10/03/2023	A/B	14	--	--	--	--	--	--	--	--	--
ARCH-C9E-EXT-1 TO 2-231003-WF	10/03/2023	A/B	13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9E-EXT-1 TO 2-231003-DUP-WF	10/03/2023	A/B	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-LA	10/03/2023	A/B	170	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-DUP-LA	10/03/2023	A/B	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10E-DG-1.5 TO 2-231003-FB [b]	10/03/2023	A/B	70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10E-DG-1.5 TO 2-231003-DUP-FB	10/03/2023	A/B	130	--	--	--	--	--	--	--	--	--
ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-LA	10/03/2023	A/B	93	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C11E-INT-1.5 TO 2.5-231003-WF	10/03/2023	A/B	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8E-PS-2.5-231003-G	10/03/2023	A/B	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10E-PS-2.5-231003-G	10/03/2023	A/B	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8E-DG-3 TO 3.5-231003-FB	10/03/2023	A/B	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-LA	10/03/2023	A/B	52	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9E-PS-3.5-231003-G	10/03/2023	A/B	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10E-INT-2.5 TO 3.5-231003-WF [b]	10/03/2023	A/B	94	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C10E-INT-2.5 TO 3.5-231003-DUP-WF	10/03/2023	A/B	96	--	--	--	--	--	--	--	--	--
ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-LA	10/03/2023	A/B	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-DUP-LA	10/03/2023	A/B	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9E-DG-4 TO 4.5-231003-FB	10/03/2023	A/B	61	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9E-DG-4 TO 4.5-231003-DUP-FB [b]	10/03/2023	A/B	41	--	--	--	--	--	--	--	--	--
ARCH-C9E-DG-4 TO 4.5-DN-C9.4-VS-231003-LA	10/03/2023	A/B	88	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231003-LA	10/03/2023	A/B	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C11E-PS-4.5-231003-G	10/03/2023	A/B	97	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9E-INT-4.5 TO 5.5-231003-WF	10/03/2023	A/B	58	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C9E-DG-5 TO 5.5-UP-C9.5-DG-231003-LA	10/03/2023	A/B	95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C8E-DG-5 TO 5.5-UP-C8.3-DG-231023-LA	10/23/2023	A/B	64	--	--	--	--	--	--	--	--	--
ARCH-C10E-DG-5 TO 5.5-231023-FB	10/23/2023	A/B	25	--	--	--	--	--	--	--	--	--
ARCH-C8E-PS-5.5-231023-G	10/23/2023	A/B	69	--	--	--	--	--	--	--	--	--
ARCH-C10E-PS-5.5-231023-G	10/23/2023	A/B	71	--	--	--	--	--	--	--	--	--
ARCH-C9E-DG-5.5 TO 6-231023-FB	10/23/2023	A/B	38	--	--	--	--	--	--	--	--	--
ARCH-C9E-DG-5.5 TO 6-DN-C9.6-DG-231023-LA	10/23/2023	A/B	88	--	--	--	--	--	--	--	--	--
ARCH-C8E-EXT-6 TO 7-231023-WF	10/23/2023	A/B	84	--	--	--	--	--	--	--	--	--
ARCH-C8E-DG-6 TO 6.5-UP-C8.1-HS-231023-LA	10/23/2023	A/B	220	--	--	--	--	--	--	--	--	--
ARCH-C9E-DG-6 TO 6.5-DN-C9.7-VS-231023-LA	10/23/2023	A/B	92	--	--	--	--	--	--	--	--	--
ARCH-C11E-DG-6 TO 6.5-231023-FB	10/23/2023	A/B	56	--	--	--	--	--	--	--	--	--
ARCH-C9E-PS-6.5-231023-G	10/23/2023	A/B	54	--	--	--	--	--	--	--	--	--
ARCH-C11E-PS-6.5-231023-G	10/23/2023	A/B	73	--	--	--	--	--	--	--	--	--
ARCH-C8E-INT-6.5 TO 7-231023-WF	10/23/2023	A/B	27	--	--	--	--	--	--	--	--	--
ARCH-C8E-DG-7 TO 7.5-UP-C8.7-DG-231023-LA	10/23/2023	A/B	110	--	--	--	--	--	--	--	--	--
ARCH-C9E-DG-7 TO 7.5-231023-FB	10/23/2023	A/B	26	--	--	--	--	--	--	--	--	--
ARCH-C9E-DG-7 TO 7.5-DN-C9.2-VS-231023-LA	10/23/2023	A/B	99	--	--	--	--	--	--	--	--	--
ARCH-C8E-DG-7.5 TO 8-DN-C8.6-VS-231023-LA	10/23/2023	A/B	50	--	--	--	--	--	--	--	--	--
ARCH-C9E-DG-7.5 TO 8-DN-C9.3-VS-231023-LA	10/23/2023	A/B	110	--	--	--	--	--	--	--	--	--
ARCH-C8E-DG-8 TO 9-DN-C8.6-VS-231023-LA	10/23/2023	A/B	82	--	--	--	--	--	--	--	--	--
ARCH-C11E-EXT-8 TO 9-231024-WF	10/24/2023	A/B	4.0	--	--	--	--	--	--	--	--	--
95-Percent UCL (Low Occupancy) [c]			80	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
230828-FIELDBLANK1-LO	08/28/2023	C/D	0.65	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50



Validated Confirmation Wipe Sampling Results - Low Occupancy Area within Zone 5

Hangar 1 NTCRA

Former Naval Air Station Moffett Field, California

			Lead	PCBs								
			Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
LocationID [a]	Sample Date	Enclosure	µg/ft²	Concentration - µg/100 cm²								
Cleanup Goal (Low Occupancy Zone)			<250	<100	<100	<100	<100	<100	<100	<100	<100	<100
230828-FIELDBLANK2-LO	08/28/2023	C/D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
230828-MEDBLANK1	08/28/2023	C/D	<0.50	--	--	--	--	--	--	--	--	--
230828-MEDBLANK2	08/28/2023	C/D	<0.50	--	--	--	--	--	--	--	--	--
230911-FIELDBLANK3-LO	09/11/2023	C/D	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
230911-MEDBLANK3-LO	09/11/2023	C/D	<0.50	--	--	--	--	--	--	--	--	--
231003-FIELDBLANK1-LO	10/03/2023	A/B	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
231003-MEDBLANK1	10/03/2023	A/B	<0.50	--	--	--	--	--	--	--	--	--
231023-FIELDBLANK2-LO	10/23/2023	A/B	<0.50	--	--	--	--	--	--	--	--	--
231023-MEDBLANK2-LO	10/23/2023	A/B	<0.50	--	--	--	--	--	--	--	--	--

Acronyms and Abbreviations

NTCRA: Non-Time Critical Removal Action

PCBs: Polychlorinated biphenyls

µg/100 cm²: micrograms per 100 square centimeters

µg/ft²: micrograms per square foot

UCL: Upper Confidence Limit

UFP-QAPP: Uniform Federal Policy Quality Assurance Project Plan

U.S. EPA: United States Environmental Protection Agency

--: Not collected/not applicable

Notes:

The 95-percent UCL was calculated using Version 5.2 of ProUCL program published by the U.S. EPA. The highest of the recommended UCL is presented in this table. The 95-percent UCL input and output file is present in Attachment 4.

[a] Location ID corresponds to Field ID in the Laboratory Analytical Reports

[b] The lower result of each duplicate sample pair collected was not included in the calculation of the 95-percent UCL. If the concentration in the duplicate samples were the same, only one result was included in the ProUCL input file.

[c] The 95-percent UCL for PCBs is the maximum of the analytical reporting limits for each Aroclor as the 95-percent UCL could not be calculated because PCBs were not detected in any of the PCB samples.

Bolded values indicate constituents detected above laboratory reporting limits.

Shaded values indicate constituents reported at concentrations above the Cleanup Goal.

Attachment 3

Confirmation Sampling Analytical Reports



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 493300
Report Level: IV
Report Date: 11/14/2023

PCBs

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 493300
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 10/03/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C8E-EXT-1 TO 2-231003-P-WF	493300-001	10/03/23 07:40	Wipe
ARCH-C9E-EXT-1 TO 2-231003-P-WF	493300-004	10/03/23 07:55	Wipe
ARCH-C9E-EXT-1 TO 2-231003-P-DUP-WF	493300-005	10/03/23 07:55	Wipe
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-LA	493300-007	10/03/23 08:10	Wipe
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-DUP-LA	493300-008	10/03/23 08:10	Wipe
ARCH-C10E-DG-1.5 TO 2-231003-P-FB	493300-010	10/03/23 08:35	Wipe
ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-P-LA	493300-013	10/03/23 08:55	Wipe
ARCH-C11E-INT-1.5 TO 2.5-231003-P-WF	493300-015	10/03/23 09:10	Wipe
ARCH-C8E-PS-2.5-231003-P-G	493300-017	10/03/23 09:45	Wipe
ARCH-C10E-PS-2.5-231003-P-G	493300-019	10/03/23 09:25	Wipe
ARCH-C8E-DG-3 TO 3.5-231003-P-FB	493300-021	10/03/23 10:05	Wipe
ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-P-LA	493300-023	10/03/23 07:45	Wipe

Case Narrative

PCBS (EPA 8082)

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 493300
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 10/03/23

This data package contains sample and QC results for twelve wipe samples, requested for the above referenced project on 10/04/23. See attached cooler receipt form for any sample receipt problems or discrepancies.

PCBs (EPA 8082):

- The LCS/LCSD samples were inadvertently spiked with a pesticide standard. An MDL standard for PCBs was included in the batch, so it was reported as the LCS. An LCSD is not available. There were no detections in the field samples, so the lack of reproducibility data should have no impact.
- No analytical problems were encountered.

Chain of Custody

Enthalpy Analytical - Orange				Chain of Custody Record				Turn Around Time (by advanced notice only)			
931 W. Barkley Avenue, Orange, CA 92868 Phone 714-771-6500				COC ID:				Standard:			
Page:				1 of 2				5 Day: 3 Day:			
Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other				Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other				Report: Level IV			
PROJECT INFORMATION				Analysis Request				Test Instructions / Comments			
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721					Confirmation Wipe Samples - Level IV Report/Stage 3 Validation			
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP					Report PCB concentrations on a µg/100cm ² basis			
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491					Report lead concentrations on a µg/10 ² basis			
Address:	449 15th Street, Suite 303 Oakland, California 94612	P.O. #:						Report Aroclor 1268 concentrations in addition to the standard Aroclors			
Phone:	(651) 990-9556	Address:	159 Cady Road, Mountain View, CA					Wipe samples collected from Zone 5 Enclosure A/B (Low Occupancy)			
Fax:		Global ID:									
		Sampled By:	M. H. M. T. Sinnott								
Sample ID			Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082			
1	ARCH-C8E-EXT-1 TO 2-231003-P-WF	10/3/2023	0740	WP	1	--	X				
2	ARCH-C8E-EXT-1 TO 2-231003-L-WF	10/3/2023	0740	WP	1	--	X				
3	ARCH-C8E-EXT-1 TO 2-231003-L-DUP-WF	10/3/2023	0740	WP	1	--	X				
4	ARCH-C9E-EXT-1 TO 2-231003-P-WF	10/3/2023	0755	WP	1	--	X				
5	ARCH-C9E-EXT-1 TO 2-231003-P-DUP-WF	10/3/2023	0755	WP	1	--	X				
6	ARCH-C9E-EXT-1 TO 2-231003-L-WF	10/3/2023	0755	WP	1	--	X				
7	ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-LA	10/3/2023	0810	WP	1	--	X				
8	ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-DUP-LA	10/3/2023	0810	WP	1	--	X				
9	ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-L-LA	10/3/2023	0810	WP	1	--	X				
10	ARCH-C10E-DG-1.5 TO 2-231003-P-FB	10/3/2023	0855	WP	1	--	X				
11	ARCH-C10E-DG-1.5 TO 2-231003-L-FB	10/3/2023	0855	WP	1	--	X				
12	ARCH-C10E-DG-1.5 TO 2-231003-L-DUP-FB	10/3/2023	0855	WP	1	--	X				
13	ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-P-LA	10/3/2023	0855	WP	1	--	X				
14	ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-L-LA	10/3/2023	0855	WP	1	--	X				
15	ARCH-C11E-INT-1.5 TO 2.5-231003-P-WF	10/3/2023	0910	WP	1	--	X				
Signature			Print Name			Company / Title			Date / Time		
Relinquished By:	T. Sinnott		Tyler Sinnott			Rincon / Envi. Scientist			10/3/23 / 1400		
Received By:	Lindsay Parker		Lindsay Parker			E-UTB-LCP			10/3/23 / 14:00		
Relinquished By:	Lindsay Parker		"			"			10/3/23 / 16:15		
Received By:	"		"			"			10/3/23 / 16:15		
Relinquished By:	"		"			"			10/3/23 / 16:15		
Received By:	"		"			"			10/3/23 / 16:15		

493300

Chain of Custody Record		Turn Around Time (rush by advanced notice only)			
COC ID:		Standard:		3 Day:	
Page: 2 of 2		X (PCBs)		1 Day:	
Matrix: A = Air S = Soil/Solid		1 Day:		X (PB)	
W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water		Preservatives:		Sample Receipt Temp:	
SW = Swab T = Tissue WP = Wipe O = Other		1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃			
		4 = H ₂ SO ₄ 5 = NaOH 6 = Other			
ENTHALPY Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92658 Phone 714-771-6900		PROJECT INFORMATION Quote #: RIN031721 Proj. Name: Hanger 1 - NCTRA WP Proj. #: 20-10491 P.O. #: 158 Cody Road, Mountain View, CA Address: Global ID: Sampled By: M. Kim & T. Sanoott			
CUSTOMER INFORMATION Company: Rincon Consultants, Inc. Report To: Lindsay Parker Email: lparker@rinconconsultants.com Address: 449 15th Street, Suite 303 Oakland, California 94612 Phone: (651) 890-9556 Fax:		ANALYSIS REQUEST Analysis Request: PCBs - EPA Method 8050M/6010B Lead by: EPA Method 8050M/6010B PCBs - EPA Method 3546/8082 Lead by: EPA Method 3546/8082			
TEST INSTRUCTIONS / COMMENTS Confirmation Wipe Samples - Level IV Report/Stage 3 Validation Report PCB concentrations on a µg/100cm ² basis Report lead concentrations on a µg/ft ² basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 5 Enclosure A/B (Low Occupancy)		6x Rivet Type 1 = 0.63842 2x Rivet Type 1 = 0.110462 4x Rivet Type 2 = 0.0400642			
RELINQUISHED BY: Signature: <i>TK Smith</i> Printed Name: Tyler Sanoott Date / Time: 10/3/23 / 14:00		RELINQUISHED BY: Signature: <i>Shirley Hudson</i> Printed Name: Shirley Hudson Date / Time: 10/3/23 / 14:02			
RECEIVED BY: Signature: <i>Shirley Hudson</i> Printed Name: Shirley Hudson Date / Time: 10/3/23 / 16:15		RECEIVED BY: Signature: <i>Shirley Hudson</i> Printed Name: Shirley Hudson Date / Time: 10/3/23 / 16:15			

SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 10.3.23 Login # 493300 Client: Rincon

Section 2: Shipping / Custody

Shipping Info:

Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package
Custody seals intact on arrival? ☐ Yes ☐ No ☒ N/A Date: _____ # of seals _____ Signature ☐ Initials ☐

Section 3: Condition / Packaging

Important: Notify PM if temperature exceeds 6°C or arrive frozen

Date Opened 10.3.23 By (print) Jade Peterson (sign) [Signature]
☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)

If no cooler: Sample Temp (°C): _____

How many coolers? 1 Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____

Temperature measured using ☐ Thermometer ID: _____ , or IR Gun # ☐ B ☐ C

Type of ice used : ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☒ No

Section 4: Containers / Labels / Samples

YES	NO	N/A
-----	----	-----

Were custody papers dry, filled out properly, and the project identifiable?

Were Method 5035 sampling containers present? Transferred to freezer @: _____

Did all containers arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____

YES	NO	N/A
-----	----	-----

Section 5: Preservatives

Are the samples appropriately preserved? (If yes, skip the rest of section 5)

Did any samples / containers require preservation upon receipt?

Did you document your preservative check in the bench book?

Preservative added:

☐ H ₂ SO ₄ lot# _____	added to samples _____	Date/Time _____
☐ HCL lot# _____	added to samples _____	Date/Time _____
☐ HNO ₃ lot# _____	added to samples _____	Date/Time _____
☐ CrVI Buffer lot# _____	added to samples _____	Date/Time _____

Section 6: Explanations / Comments

No custody seals present.

Date Logged 10.3.23 By (print) JTP for MAY (sign) [Signature]

Date Labeled 10.3.23 By (print) Jade Peterson (sign) [Signature]

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants

Project: Hangar 1 NTCRA

Date Received: 10/4/23

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C)
(No Cooler):

Sample Temp (°C), One from each cooler: #1: 5.2 #2: #3: #4:
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information:

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other

Cooler Temp (°C): #1: 4.2 #2: #3: #4:

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?	✓		
If custody seals are present, were they intact?	✓		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

493300

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: Date/Time
☐ Email (email sent to/on): /

Project Manager's response:

Completed By:

Date: OCT 04 2023

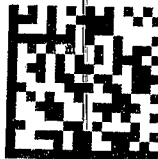
Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal
Sample Acceptance Checklist - Rev 4, 8/8/2017

SOUTHWEST AIRLINES

Printed on:
03 OCT 19:50

526 OAK 9402 7592 

SNA		PC# 2 of 8	DG G	LOT WT 350 LB (158.7 KG)
OAK	WN 2648	04 OCT	07:25	
STN	FLT	DATE	ETD	LOT 01



PC ID: 0002
PC WT: 44LB

526 94027592 0002

S

4-2/5-2

Results & QC Summary

Enthalpy Analytical - Orange Analytical Report

Lab #: 493300	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8E-EXT-1 TO 2-231003-P-WF	Batch#: 323800	Prep: EPA 3546
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 8082
Lab ID: 493300-001	Received: 10/03/23	Analyst: TRN
Matrix: Wipe	Prepared: 10/04/23	
Diln Fac: 1.000	Analyzed: 10/05/23	

493300-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-001 Surrogate		%REC	Limits
TCMX (PCB)		67	19-121
Decachlorobiphenyl (PCB)		54	19-121

Field ID: ARCH-C9E-EXT-1 TO 2-231003-P-WF	Batch#: 323800	Prep: EPA 3546
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 8082
Lab ID: 493300-004	Received: 10/03/23	Analyst: TRN
Matrix: Wipe	Prepared: 10/04/23	
Diln Fac: 1.000	Analyzed: 10/05/23	

493300-004 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-004 Surrogate		%REC	Limits
TCMX (PCB)		63	19-121
Decachlorobiphenyl (PCB)		53	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493300

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: ARCH-C9E-EXT-1 TO 2-231003-P-DUP-WF

Type: SAMPLE

Lab ID: 493300-005

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323800

Sampled: 10/03/23

Received: 10/03/23

Prepared: 10/04/23

Analyzed: 10/05/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

493300-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-005 Surrogate		%REC	Limits
TCMX (PCB)		72	19-121
Decachlorobiphenyl (PCB)		56	19-121

Field ID: ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-LA

Type: SAMPLE

Lab ID: 493300-007

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323800

Sampled: 10/03/23

Received: 10/03/23

Prepared: 10/04/23

Analyzed: 10/05/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

493300-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-007 Surrogate		%REC	Limits
TCMX (PCB)		69	19-121
Decachlorobiphenyl (PCB)		54	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493300

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-DUP-LA

Batch#: 323800

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493300-008

Received: 10/03/23

Analyst: TRN

Matrix: Wipe

Prepared: 10/04/23

Diln Fac: 1.000

Analyzed: 10/05/23

493300-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-008 Surrogate		%REC	Limits
TCMX (PCB)		67	19-121
Decachlorobiphenyl (PCB)		54	19-121

Field ID: ARCH-C10E-DG-1.5 TO 2-231003-P-FB

Batch#: 323800

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493300-010

Received: 10/03/23

Analyst: TRN

Matrix: Wipe

Prepared: 10/04/23

Diln Fac: 1.000

Analyzed: 10/05/23

493300-010 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-010 Surrogate		%REC	Limits
TCMX (PCB)		72	19-121
Decachlorobiphenyl (PCB)		59	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493300

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-P-LA

Batch#: 323800

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493300-013

Received: 10/03/23

Analyst: TRN

Matrix: Wipe

Prepared: 10/04/23

Diln Fac: 1.000

Analyzed: 10/05/23

493300-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-013 Surrogate		%REC	Limits
TCMX (PCB)		69	19-121
Decachlorobiphenyl (PCB)		55	19-121

Field ID: ARCH-C11E-INT-1.5 TO 2.5-231003-P-WF

Batch#: 323800

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493300-015

Received: 10/03/23

Analyst: TRN

Matrix: Wipe

Prepared: 10/04/23

Diln Fac: 1.000

Analyzed: 10/06/23

493300-015 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-015 Surrogate		%REC	Limits
TCMX (PCB)		75	19-121
Decachlorobiphenyl (PCB)		60	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493300

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8E-PS-2.5-231003-P-G

Batch#: 323800

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493300-017

Received: 10/03/23

Analyst: TRN

Matrix: Wipe

Prepared: 10/04/23

Diln Fac: 1.000

Analyzed: 10/06/23

493300-017 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-017 Surrogate		%REC	Limits
TCMX (PCB)		60	19-121
Decachlorobiphenyl (PCB)		50	19-121

Field ID: ARCH-C10E-PS-2.5-231003-P-G

Batch#: 323800

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493300-019

Received: 10/03/23

Analyst: TRN

Matrix: Wipe

Prepared: 10/04/23

Diln Fac: 1.000

Analyzed: 10/06/23

493300-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-019 Surrogate		%REC	Limits
TCMX (PCB)		64	19-121
Decachlorobiphenyl (PCB)		50	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493300	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8E-DG-3 TO 3.5-231003-P-FB	Batch#: 323800	Prep: EPA 3546
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 8082
Lab ID: 493300-021	Received: 10/03/23	Analyst: TRN
Matrix: Wipe	Prepared: 10/04/23	
Diln Fac: 1.000	Analyzed: 10/06/23	

493300-021 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-021 Surrogate		%REC	Limits
TCMX (PCB)		73	19-121
Decachlorobiphenyl (PCB)		57	19-121

Field ID: ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-P-LA	Batch#: 323800	Prep: EPA 3546
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 8082
Lab ID: 493300-023	Received: 10/03/23	Analyst: TRN
Matrix: Wipe	Prepared: 10/04/23	
Diln Fac: 1.000	Analyzed: 10/06/23	

493300-023 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493300-023 Surrogate		%REC	Limits
TCMX (PCB)		66	19-121
Decachlorobiphenyl (PCB)		54	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493300

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BLANK

Batch#: 323800

Analysis: EPA 8082

Lab ID: QC1098102

Prepared: 10/04/23

Analyst: MES

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1098102 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1098102 Surrogate	%REC	Limits
TCMX (PCB)	68	19-121
Decachlorobiphenyl (PCB)	81	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 493300

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: LCS

Batch#: 323800

Analysis: EPA 8082

Lab ID: QC1098653

Prepared: 10/04/23

Analyst: TRN

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1098653 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	0.5000	0.4741	95	60-140	ug/100 cm2
Aroclor-1260	0.5000	0.4944	99	60-140	ug/100 cm2
QC1098653 Surrogate			%REC	Limits	
TCMX (PCB)			75		19-121
Decachlorobiphenyl (PCB)			65		19-121

Instrument: SVOA-GC06
Calibration #: 453400820002
Units: ug/L

Name: PCB_100523_1
Date: 05-OCT-2023 13:25
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_100523020	453400820020		05-OCT-2023 13:43	S18455
L2	gc06_100523021	453400820021		05-OCT-2023 14:01	S18456
L3	gc06_100523022	453400820022		05-OCT-2023 14:19	S18457
L4	gc06_100523023	453400820023		05-OCT-2023 14:38	S18458
L5	gc06_100523024	453400820024		05-OCT-2023 14:56	S18459
L6	gc06_100523025	453400820025		05-OCT-2023 15:14	S18460
L7	gc06_100523026	453400820026		05-OCT-2023 15:32	S18461
L8	gc06_100523027	453400820027		05-OCT-2023 15:51	S18462
L9	gc06_100523028	453400820028		05-OCT-2023 16:09	S18463

Instrument: SVOA-GC06
 Calibration #: 453400820002
 Units: ug/L

Name: PCB_100523_1
 Date: 05-OCT-2023 13:25
 X Axis: R

Analyte	Ch	Type	a0	a1	a2	Avg RF	%RSD	n	Min r ²	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG		44.2934		0.0226	16	9	.99	20	
Aroclor-1016 Peak # 2	A	AVRG		21.2441		0.0471	19	8	.99	20	
Aroclor-1016 Peak # 3	A	AVRG		16.5522		0.0604	18	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG		27.3519		0.0366	20	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG		26.8334		0.0373	19	7	.99	20	
Aroclor-1260 Peak # 1	A	AVRG		14.5305		0.0688	19	7	.99	20	
Aroclor-1260 Peak # 2	A	AVRG		8.35299		0.1197	19	6	.99	20	
Aroclor-1260 Peak # 3	A	AVRG		8.19466		0.1220	19	6	.99	20	
Aroclor-1260 Peak # 4	A	AVRG		16.4062		0.0610	17	8	.99	20	
Aroclor-1260 Peak # 5	A	AVRG		10.1396		0.0986	11	8	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG		0.72350		1.3822	17	8	.99	20	
TCMX (PCB)	A	AVRG		0.92652		1.0793	17	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG		52.7519		0.0190	13	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG		24.2527		0.0412	16	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG		18.3650		0.0545	15	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG		26.2331		0.0381	16	9	.99	20	
Aroclor-1016 Peak # 5	B	AVRG		32.1263		0.0311	17	9	.99	20	
Aroclor-1260 Peak # 1	B	AVRG		17.6976		0.0565	17	9	.99	20	
Aroclor-1260 Peak # 2	B	AVRG		14.7101		0.0680	17	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG		11.6855		0.0856	15	9	.99	20	
Aroclor-1260 Peak # 4	B	AVRG		20.1104		0.0497	10	9	.99	20	
Aroclor-1260 Peak # 5	B	AVRG		13.5301		0.0739	17	8	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG		0.79331		1.2605	20	7	.99	20	
TCMX (PCB)	B	AVRG		1.00924		0.9908	12	9	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)

AVRG: Average response factor

Instrument: SVOA-GC06
 Calibration #: 453400820002
 Units: ug/L

Name: PCB_100523_1
 Date: 05-OCT-2023 13:25
 X Axis: R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF
Aroclor-1016 Peak # 1	A	0.0282	0.0267	0.0248	0.0240	0.0224	0.0202	0.0203	0.0182	0.0184
Aroclor-1016 Peak # 2	A	0.0620	0.0562	0.0516	0.0473	0.0441	0.0402	0.0394	0.0357	
Aroclor-1016 Peak # 3	A	0.0808	0.0736	0.0662	0.0609	0.0572	0.0539	0.0534	0.0477	0.0501
Aroclor-1016 Peak # 4	A	0.0505	0.0433	0.0406	0.0376	0.0351	0.0321	0.0317	0.0288	0.0294
Aroclor-1016 Peak # 5	A	0.0496	0.0432	0.0384	0.0360	0.0332	0.0305	0.0300		
Aroclor-1260 Peak # 1	A		0.0890	0.0811	0.0735	0.0662	0.0606	0.0586	0.0527	
Aroclor-1260 Peak # 2	A	0.1571	0.1340	0.1202	0.1119	0.1015	0.0936			
Aroclor-1260 Peak # 3	A	0.1611	0.1349	0.1222	0.1130	0.1041	0.0969			
Aroclor-1260 Peak # 4	A		0.0795	0.0703	0.0658	0.0606	0.0565	0.0544	0.0499	0.0507
Aroclor-1260 Peak # 5	A		0.1181	0.1058	0.1057	0.1015	0.0941	0.0914	0.0845	0.0878
Decachlorobiphenyl (PCB)	A		1.7556	1.3896	1.5824	1.5667	1.3560	1.2014	1.0818	1.1239
TCMX (PCB)	A	1.4163	1.1929	1.0813	1.2776	0.9883	0.9936	0.9579	0.8836	0.9223
Aroclor-1016 Peak # 1	B	0.0243	0.0207	0.0197	0.0196	0.0189	0.0176	0.0176	0.0158	0.0166
Aroclor-1016 Peak # 2	B	0.0544	0.0477	0.0435	0.0422	0.0404	0.0372	0.0372	0.0336	0.0349
Aroclor-1016 Peak # 3	B	0.0720	0.0618	0.0571	0.0551	0.0525	0.0489	0.0496	0.0450	0.0482
Aroclor-1016 Peak # 4	B	0.0516	0.0429	0.0395	0.0388	0.0372	0.0345	0.0345	0.0312	0.0328
Aroclor-1016 Peak # 5	B	0.0426	0.0350	0.0325	0.0313	0.0303	0.0281	0.0282	0.0255	0.0267
Aroclor-1260 Peak # 1	B	0.0763	0.0649	0.0598	0.0574	0.0546	0.0512	0.0502	0.0459	0.0482
Aroclor-1260 Peak # 2	B	0.0906	0.0808	0.0709	0.0686	0.0659	0.0615	0.0604	0.0550	0.0581
Aroclor-1260 Peak # 3	B	0.1138	0.0953	0.0878	0.0860	0.0824	0.0784	0.0777	0.0719	0.0769
Aroclor-1260 Peak # 4	B	0.0589	0.0541	0.0515	0.0517	0.0483	0.0470	0.0466	0.0432	0.0462
Aroclor-1260 Peak # 5	B		0.0993	0.0815	0.0767	0.0733	0.0686	0.0650	0.0608	0.0661
Decachlorobiphenyl (PCB)	B	1.7553	1.3419	1.0983	1.2462	1.2792	1.1170	0.9859		
TCMX (PCB)	B	1.1829	1.0335	0.9460	1.1776	0.9297	0.9558	0.9304	0.8491	0.9126

Instrument: SVOA-GC06
 Calibration #: 453400820002
 Units: ug/L

Name: PCB_100523_1
 Date: 05-OCT-2023 13:25
 X Axis: R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A	20.000	25	50.000	18	100.00	10	250.00	6	500.00	-1	749.91	-10	1000.0	-10	1500.0	-19
Aroclor-1016 Peak # 2	A	20.000	32	50.000	19	100.00	10	250.00	0	500.00	-6	749.91	-15	1000.0	-16	1500.0	-24
Aroclor-1016 Peak # 3	A	20.000	34	50.000	22	100.00	10	250.00	1	500.00	-5	749.91	-11	1000.0	-12	1500.0	-21
Aroclor-1016 Peak # 4	A	20.000	38	50.000	18	100.00	11	250.00	3	500.00	-4	749.91	-12	1000.0	-13	1500.0	-21
Aroclor-1016 Peak # 5	A	20.000	33	50.000	16	100.00	3	250.00	-3	500.00	-11	749.91	-18	1000.0	-20		
Aroclor-1260 Peak # 1	A			50.000	29	100.00	18	250.00	7	500.00	-4	749.91	-12	1000.0	-15	1500.0	-23
Aroclor-1260 Peak # 2	A	20.000	31	50.000	12	100.00	0	250.00	-7	500.00	-15	749.91	-22				
Aroclor-1260 Peak # 3	A	20.000	32	50.000	11	100.00	0	250.00	-7	500.00	-15	749.91	-21				
Aroclor-1260 Peak # 4	A			50.000	30	100.00	15	250.00	8	500.00	-1	749.91	-7	1000.0	-11	1500.0	-18
Aroclor-1260 Peak # 5	A			50.000	20	100.00	7	250.00	7	500.00	3	749.91	-5	1000.0	-7	1500.0	-14
Decachlorobiphenyl (PCB)	A			4.0000	27	8.0000	1	20.000	14	40.000	13	59.993	-2	80.000	-13	120.00	-22
TCMX (PCB)	A	1.6000	31	4.0000	11	8.0000	0	20.000	18	40.000	-8	59.993	-8	80.000	-11	120.00	-18
Aroclor-1016 Peak # 1	B	20.000	28	50.000	9	100.00	4	250.00	3	500.00	0	749.91	-7	1000.0	-7	1500.0	-17
Aroclor-1016 Peak # 2	B	20.000	32	50.000	16	100.00	5	250.00	2	500.00	-2	749.91	-10	1000.0	-10	1500.0	-19
Aroclor-1016 Peak # 3	B	20.000	32	50.000	13	100.00	5	250.00	1	500.00	-4	749.91	-10	1000.0	-9	1500.0	-17
Aroclor-1016 Peak # 4	B	20.000	35	50.000	13	100.00	4	250.00	2	500.00	-2	749.91	-9	1000.0	-9	1500.0	-18
Aroclor-1016 Peak # 5	B	20.000	37	50.000	12	100.00	4	250.00	1	500.00	-3	749.91	-10	1000.0	-9	1500.0	-18
Aroclor-1260 Peak # 1	B	20.000	35	50.000	15	100.00	6	250.00	2	500.00	-3	749.91	-9	1000.0	-11	1500.0	-19
Aroclor-1260 Peak # 2	B	20.000	33	50.000	19	100.00	4	250.00	1	500.00	-3	749.91	-10	1000.0	-11	1500.0	-19
Aroclor-1260 Peak # 3	B	20.000	33	50.000	11	100.00	3	250.00	0	500.00	-4	749.91	-8	1000.0	-9	1500.0	-16
Aroclor-1260 Peak # 4	B	20.000	18	50.000	9	100.00	4	250.00	4	500.00	-3	749.91	-6	1000.0	-6	1500.0	-13
Aroclor-1260 Peak # 5	B			50.000	34	100.00	10	250.00	4	500.00	-1	749.91	-7	1000.0	-12	1500.0	-18
Decachlorobiphenyl (PCB)	B	1.6000	39	4.0000	6	8.0000	-13	20.000	-1	40.000	1	59.993	-11	80.000	-22		
TCMX (PCB)	B	1.6000	19	4.0000	4	8.0000	-5	20.000	19	40.000	-6	59.993	-4	80.000	-6	120.00	-14

Instrument: SVOA-GC06
 Calibration #: 453400820002
 Units: ug/L

Name: PCB_100523_1
 Date: 05-OCT-2023 13:25
 X Axis: R

Spiked Amounts / Drifts	Ch	L9	%D
Aroclor-1016 Peak # 1	A	2000.0	-19
Aroclor-1016 Peak # 2	A		
Aroclor-1016 Peak # 3	A	2000.0	-17
Aroclor-1016 Peak # 4	A	2000.0	-20
Aroclor-1016 Peak # 5	A		
Aroclor-1260 Peak # 1	A		
Aroclor-1260 Peak # 2	A		
Aroclor-1260 Peak # 3	A		
Aroclor-1260 Peak # 4	A	2000.0	-17
Aroclor-1260 Peak # 5	A	2000.0	-11
Decachlorobiphenyl (PCB)	A	160.00	-19
TCMX (PCB)	A	160.00	-15
Aroclor-1016 Peak # 1	B	2000.0	-13
Aroclor-1016 Peak # 2	B	2000.0	-15
Aroclor-1016 Peak # 3	B	2000.0	-11
Aroclor-1016 Peak # 4	B	2000.0	-14
Aroclor-1016 Peak # 5	B	2000.0	-14
Aroclor-1260 Peak # 1	B	2000.0	-15
Aroclor-1260 Peak # 2	B	2000.0	-15
Aroclor-1260 Peak # 3	B	2000.0	-10
Aroclor-1260 Peak # 4	B	2000.0	-7
Aroclor-1260 Peak # 5	B	2000.0	-11
Decachlorobiphenyl (PCB)	B		
TCMX (PCB)	B	160.00	-8

TRN 10/05/23 : Manually integrated for coeluting peak, negative/tailing peak, and automatic draw baseline for one/both column on multiple levels

Instrument: SVOA-GC06
Calibration #: 453400820002
Units: ug/L

Name: PCB_100523_1
Date: 05-OCT-2023 13:25
X Axis: R

Analyst: TRN 10/05/23 *

Reviewer: LW 10/06/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 493300 PCBS Wipe
EPA 8082

Inst: SVOA-GC06
Calnum: 453400820002

Name: PCB_100523_1
Cal Date: 05-OCT-2023

- ICV 453400820030 (gc06_100523030 05-OCT-2023) stds: S18851

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	505.7	ug/L	1	15	
Aroclor-1260	A	500.0	505.0	ug/L	1	15	
Aroclor-1016	B	500.0	533.2	ug/L	7	15	
Aroclor-1260	B	500.0	536.1	ug/L	7	15	

•

Analyst: TRN 10/05/23 *

Reviewer: LW 10/06/23

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc07_0908230033	463362148033		08-SEP-2023 20:35	S18454
L2	gc07_0908230034	463362148034		08-SEP-2023 20:53	S18455
L3	gc07_0908230035	463362148035		08-SEP-2023 21:10	S18456
L4	gc07_0908230036	463362148036		08-SEP-2023 21:28	S18457
L5	gc07_0908230037	463362148037		08-SEP-2023 21:45	S18458
L6	gc07_0908230038	463362148038		08-SEP-2023 22:03	S18459
L7	gc07_0908230039	463362148039		08-SEP-2023 22:20	S18460
L8	gc07_0908230040	463362148040		08-SEP-2023 22:37	S18461
L9	gc07_0908230041	463362148041		08-SEP-2023 22:55	S18462
L10	gc07_0908230042	463362148042		08-SEP-2023 23:12	S18463

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Analyte	Ch	Type	a0	a1	a2	Units	Avg RF	%RSD	n	Min r ²	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG	55.1684			ug/L	0.0181	20	9	.99	20	
Aroclor-1016 Peak # 2	A	AVRG	25.2919			ug/L	0.0395	17	7	.99	20	
Aroclor-1016 Peak # 3	A	AVRG	22.5191			ug/L	0.0444	16	8	.99	20	
Aroclor-1016 Peak # 4	A	AVRG	29.6700			ug/L	0.0337	14	8	.99	20	
Aroclor-1016 Peak # 5	A	AVRG	37.7469			ug/L	0.0265	15	8	.99	20	
Aroclor-1260 Peak # 1	A	AVRG	19.1710			ug/L	0.0522	16	7	.99	20	
Aroclor-1260 Peak # 2	A	AVRG	12.6932			ug/L	0.0788	17	7	.99	20	
Aroclor-1260 Peak # 3	A	AVRG	10.6275			ug/L	0.0941	20	7	.99	20	
Aroclor-1260 Peak # 4	A	AVRG	19.1822			ug/L	0.0521	20	8	.99	20	
Aroclor-1260 Peak # 5	A	AVRG	9.95175			ug/L	0.1005	17	8	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG	1.04286			pg/uL	0.9589	15	7	.99	20	
TCMX (PCB)	A	AVRG	1.09425			pg/uL	0.9139	19	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG	49.6626			ug/L	0.0201	19	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG	23.7679			ug/L	0.0421	17	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG	19.5462			ug/L	0.0512	16	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG	27.3089			ug/L	0.0366	17	9	.99	20	
Aroclor-1016 Peak # 5	B	AVRG	33.3585			ug/L	0.0300	16	9	.99	20	
Aroclor-1260 Peak # 1	B	AVRG	17.2765			ug/L	0.0579	18	9	.99	20	
Aroclor-1260 Peak # 2	B	AVRG	16.7863			ug/L	0.0596	16	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG	13.9282			ug/L	0.0718	15	9	.99	20	
Aroclor-1260 Peak # 4	B	AVRG	21.5402			ug/L	0.0464	20	9	.99	20	
Aroclor-1260 Peak # 5	B	AVRG	12.0297			ug/L	0.0831	12	8	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG	1.23049			pg/uL	0.8127	13	8	.99	20	
TCMX (PCB)	B	AVRG	0.95710			pg/uL	1.0448	19	10	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)

AVRG: Average response factor

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF	L10 RF
Aroclor-1016 Peak # 1	A		0.0253	0.0210	0.0201	0.0186	0.0178	0.0160	0.0159	0.0142	0.0143
Aroclor-1016 Peak # 2	A		0.0503	0.0441	0.0424	0.0387	0.0365	0.0325	0.0322		
Aroclor-1016 Peak # 3	A			0.0563	0.0518	0.0479	0.0449	0.0397	0.0406	0.0370	0.0371
Aroclor-1016 Peak # 4	A			0.0413	0.0386	0.0361	0.0347	0.0309	0.0314	0.0281	0.0285
Aroclor-1016 Peak # 5	A			0.0327	0.0309	0.0283	0.0271	0.0244	0.0247	0.0219	0.0220
Aroclor-1260 Peak # 1	A			0.0648	0.0604	0.0553	0.0521	0.0456	0.0463	0.0407	
Aroclor-1260 Peak # 2	A			0.0977	0.0925	0.0835	0.0784	0.0684	0.0697	0.0612	
Aroclor-1260 Peak # 3	A		0.1292	0.1044	0.0981	0.0893	0.0854	0.0751	0.0771		
Aroclor-1260 Peak # 4	A		0.0713	0.0597	0.0567	0.0517	0.0499	0.0435	0.0448	0.0394	
Aroclor-1260 Peak # 5	A			0.1287	0.1184	0.1067	0.1021	0.0892	0.0929	0.0817	0.0842
Decachlorobiphenyl (PCB)	A			1.0930	1.0035	1.0484	1.1071	0.8817	0.8590	0.7197	
TCMX (PCB)	A		1.2191	1.0210	0.9567	1.1035	0.8468	0.8233	0.7945	0.7206	0.7392
Aroclor-1016 Peak # 1	B		0.0284	0.0231	0.0215	0.0202	0.0196	0.0178	0.0180	0.0161	0.0164
Aroclor-1016 Peak # 2	B		0.0557	0.0485	0.0458	0.0430	0.0415	0.0375	0.0382	0.0340	0.0345
Aroclor-1016 Peak # 3	B		0.0683	0.0585	0.0545	0.0512	0.0498	0.0457	0.0466	0.0418	0.0441
Aroclor-1016 Peak # 4	B		0.0498	0.0411	0.0392	0.0366	0.0359	0.0327	0.0335	0.0301	0.0307
Aroclor-1016 Peak # 5	B		0.0400	0.0332	0.0318	0.0302	0.0297	0.0269	0.0278	0.0249	0.0253
Aroclor-1260 Peak # 1	B		0.0795	0.0637	0.0645	0.0584	0.0568	0.0502	0.0531	0.0469	0.0479
Aroclor-1260 Peak # 2	B		0.0790	0.0657	0.0663	0.0602	0.0589	0.0521	0.0552	0.0489	0.0499
Aroclor-1260 Peak # 3	B		0.0947	0.0768	0.0779	0.0719	0.0713	0.0632	0.0675	0.0604	0.0624
Aroclor-1260 Peak # 4	B		0.0683	0.0503	0.0491	0.0455	0.0453	0.0400	0.0426	0.0379	0.0389
Aroclor-1260 Peak # 5	B			0.1004	0.0944	0.0851	0.0838	0.0748	0.0805	0.0716	0.0744
Decachlorobiphenyl (PCB)	B			0.8918	0.8307	0.8802	0.9686	0.7878	0.7900	0.6698	0.6827
TCMX (PCB)	B	1.4607	1.2878	1.0524	0.9726	1.1742	0.9211	0.9353	0.9222	0.8391	0.8828

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A			20.000	39	50.000	16	100.00	11	250.00	3	500.00	-2	749.91	-12	1000.0	-12
Aroclor-1016 Peak # 2	A			20.000	27	50.000	11	100.00	7	250.00	-2	500.00	-8	749.91	-18	1000.0	-18
Aroclor-1016 Peak # 3	A					50.000	27	100.00	17	250.00	8	500.00	1	749.91	-11	1000.0	-9
Aroclor-1016 Peak # 4	A					50.000	23	100.00	15	250.00	7	500.00	3	749.91	-8	1000.0	-7
Aroclor-1016 Peak # 5	A					50.000	24	100.00	17	250.00	7	500.00	2	749.91	-8	1000.0	-7
Aroclor-1260 Peak # 1	A					50.000	24	100.00	16	250.00	6	500.00	0	749.91	-13	1000.0	-11
Aroclor-1260 Peak # 2	A					50.000	24	100.00	17	250.00	6	500.00	0	749.91	-13	1000.0	-11
Aroclor-1260 Peak # 3	A			20.000	37	50.000	11	100.00	4	250.00	-5	500.00	-9	749.91	-20	1000.0	-18
Aroclor-1260 Peak # 4	A			20.000	37	50.000	15	100.00	9	250.00	-1	500.00	-4	749.91	-17	1000.0	-14
Aroclor-1260 Peak # 5	A					50.000	28	100.00	18	250.00	6	500.00	2	749.91	-11	1000.0	-8
Decachlorobiphenyl (PCB)	A					4.0000	14	8.0000	5	20.000	9	40.000	15	59.993	-8	80.000	-10
TCMX (PCB)	A			1.6000	33	4.0000	12	8.0000	5	20.000	21	40.000	-7	59.993	-10	80.000	-13
Aroclor-1016 Peak # 1	B			20.000	41	50.000	15	100.00	7	250.00	0	500.00	-3	749.91	-12	1000.0	-10
Aroclor-1016 Peak # 2	B			20.000	32	50.000	15	100.00	9	250.00	2	500.00	-1	749.91	-11	1000.0	-9
Aroclor-1016 Peak # 3	B			20.000	33	50.000	14	100.00	6	250.00	0	500.00	-3	749.91	-11	1000.0	-9
Aroclor-1016 Peak # 4	B			20.000	36	50.000	12	100.00	7	250.00	0	500.00	-2	749.91	-11	1000.0	-8
Aroclor-1016 Peak # 5	B			20.000	34	50.000	11	100.00	6	250.00	1	500.00	-1	749.91	-10	1000.0	-7
Aroclor-1260 Peak # 1	B			20.000	37	50.000	10	100.00	11	250.00	1	500.00	-2	749.91	-13	1000.0	-8
Aroclor-1260 Peak # 2	B			20.000	33	50.000	10	100.00	11	250.00	1	500.00	-1	749.91	-12	1000.0	-7
Aroclor-1260 Peak # 3	B			20.000	32	50.000	7	100.00	8	250.00	0	500.00	-1	749.91	-12	1000.0	-6
Aroclor-1260 Peak # 4	B			20.000	47	50.000	8	100.00	6	250.00	-2	500.00	-3	749.91	-14	1000.0	-8
Aroclor-1260 Peak # 5	B					50.000	21	100.00	14	250.00	2	500.00	1	749.91	-10	1000.0	-3
Decachlorobiphenyl (PCB)	B					4.0000	10	8.0000	2	20.000	8	40.000	19	59.993	-3	80.000	-3
TCMX (PCB)	B	0.8000	40	1.6000	23	4.0000	1	8.0000	-7	20.000	12	40.000	-12	59.993	-10	80.000	-12

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Spiked Amounts / Drifts	Ch	L9	%D	L10	%D
Aroclor-1016 Peak # 1	A	1500.0	-22	2000.0	-21
Aroclor-1016 Peak # 2	A				
Aroclor-1016 Peak # 3	A	1500.0	-17	2000.0	-17
Aroclor-1016 Peak # 4	A	1500.0	-16	2000.0	-15
Aroclor-1016 Peak # 5	A	1500.0	-17	2000.0	-17
Aroclor-1260 Peak # 1	A	1500.0	-22		
Aroclor-1260 Peak # 2	A	1500.0	-22		
Aroclor-1260 Peak # 3	A				
Aroclor-1260 Peak # 4	A	1500.0	-24		
Aroclor-1260 Peak # 5	A	1500.0	-19	2000.0	-16
Decachlorobiphenyl (PCB)	A	120.00	-25		
TCMX (PCB)	A	120.00	-21	160.00	-19
Aroclor-1016 Peak # 1	B	1500.0	-20	2000.0	-18
Aroclor-1016 Peak # 2	B	1500.0	-19	2000.0	-18
Aroclor-1016 Peak # 3	B	1500.0	-18	2000.0	-14
Aroclor-1016 Peak # 4	B	1500.0	-18	2000.0	-16
Aroclor-1016 Peak # 5	B	1500.0	-17	2000.0	-16
Aroclor-1260 Peak # 1	B	1500.0	-19	2000.0	-17
Aroclor-1260 Peak # 2	B	1500.0	-18	2000.0	-16
Aroclor-1260 Peak # 3	B	1500.0	-16	2000.0	-13
Aroclor-1260 Peak # 4	B	1500.0	-18	2000.0	-16
Aroclor-1260 Peak # 5	B	1500.0	-14	2000.0	-10
Decachlorobiphenyl (PCB)	B	120.00	-18	160.00	-16
TCMX (PCB)	B	120.00	-20	160.00	-16

MES 09/11/23 : Corrected automatically drawn baseline for all channels in all levels.

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Reviewed By: MES 09/11/23, TRN 09/11/23, LW 09/13/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 493300 PCBS Wipe
EPA 8082

Inst: SVOA-GC07	Name: PCB_ICAL_090823
Calnum: 463362148002	Cal Date: 08-SEP-2023

- ICV 463362148044 (gc07_0908230044 08-SEP-2023) stds: S18851

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	533.3	ug/L	7	15	
Aroclor-1260	A	500.0	525.7	ug/L	5	15	
Aroclor-1016	B	500.0	531.0	ug/L	6	15	
Aroclor-1260	B	500.0	539.4	ug/L	8	15	

•

Reviewed By: MES 09/11/23, TRN 09/11/23, LW 09/13/23

ENTHALPY CONTINUING CALIBRATION FOR 493300 PCBs Wipe
EPA 8082

Inst: SVOA-GC06	File: gc06_100523030	IDF: 1.0
Seqnum: 453400820030	Caldate: 05-OCT-2023	Time: 05-OCT-2023 16:45
Cal: 453400820002		

Standards: S18851

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	505.7	ug/L	1	15	15	0.0000	
Aroclor-1260	A			500.0	505.0	ug/L	1	15	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.3822	2.0166	20.00	29.18	ug/L	46	15	15	0.0000	c+
TCMX (PCB)	A	1.0793	1.4915	20.00	27.64	ug/L	38	15	15	0.0000	c+
Aroclor-1016	B			500.0	533.2	ug/L	7	15	15	0.0000	
Aroclor-1260	B			500.0	536.1	ug/L	7	15	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.2605	1.5978	20.00	25.35	ug/L	27	15	15	0.0000	c+
TCMX (PCB)	B	0.9908	1.3802	20.00	27.86	ug/L	39	15	15	0.0000	c+

ISTD (ICAL gc06_100523021)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	11400491	12870863	12.90
1-bromo-2-nitrobenzene (PCB)	A	4709007	5358611	13.79

10/05/23 : 500 PPB PCB ICV

TRN 10/05/23 [Aroclor-1016 A]: Separated from coeluting peak for Ch. A.

TRN 10/05/23 [Aroclor-1260 B]: Corrected baseline noise or negative peak for Ch. B.

+=high bias c=CCV

Analyst: TRN 10/05/23 *

Reviewer: LW 10/06/23

ENTHALPY CONTINUING CALIBRATION FOR 493300 PCBs Wipe
EPA 8082

Inst: SVOA-GC07	File: gc07_1005230004	IDF: 1.0
Seqnum: 463401066004	Caldate: 08-SEP-2023	Time: 05-OCT-2023 13:01
Cal: 463362148002		

Standards: S19183

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	478.2	ug/L	-4	15	0.0000	
Aroclor-1260	A			500.0	514.0	ug/L	3	15	0.0000	
Decachlorobiphenyl (PCB)	A	0.9589	0.8810	40.00	36.75	pg/uL	-8	15	0.0000	
TCMX (PCB)	A	0.9139	0.8734	40.00	38.23	pg/uL	-4	15	0.0000	
Aroclor-1016	B			500.0	463.8	ug/L	-7	15	0.0000	
Aroclor-1260	B			500.0	544.7	ug/L	9	15	0.0000	
Decachlorobiphenyl (PCB)	B	0.8127	0.9175	40.00	45.16	pg/uL	13	15	0.0000	
TCMX (PCB)	B	1.0448	0.9184	40.00	35.16	pg/uL	-12	15	0.0000	

ISTD (ICAL gc07_0908230035)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6089958	7829274	28.56
1-bromo-2-nitrobenzene (PCB)	A	18203825	18065006	-0.76

10/05/23 : 500 PPB PCB CCV

MES 10/06/23 [Aroclor-1016 A]: Separated from coeluting peak for Ch. A.

Analyst: MES 10/06/23

Reviewer: MTS 10/09/23

Date: 10/05/23		Reference: gc06_100523021		
Sequence: SVOA-GC06 gc06_100523		Analyzed: 10/05/23 14:01		
#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		ICAL STD	11400491	4709007
		LOWER LIMIT	5700245	2354503
		UPPER LIMIT	22800981	9418014
030	ICV/CCV		12870863	5358611

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523030
Analyzed: 10/05/23 16:45

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	12870863	5358611
		LOWER LIMIT	6435432	2679305
		UPPER LIMIT	25741726	10717222
040	LCS	QC1098653	12642655	5249387
045	BLANK	QC1098102	13818794	5430951
046	BS	QC1098103	13028358	5219144
047	BSD	QC1098104	13337499	5312747
048	SAMPLE	493300-001	12901917	5239930
049	SAMPLE	493300-004	12999706	5343489
050	SAMPLE	493300-005	12898943	5309390
051	SAMPLE	493300-007	13279783	5469523
052	SAMPLE	493300-008	13795858	5633833
053	SAMPLE	493300-010	13271622	5386076
054	SAMPLE	493300-013	13633630	5402074
055	SAMPLE	493300-015	13228146	5297300
056	SAMPLE	493300-017	13324006	5194985
057	SAMPLE	493300-019	14289404	5587245
058	SAMPLE	493300-021	13205350	5191259
059	SAMPLE	493300-023	13502129	5249310

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523030
Analyzed: 10/05/23 16:45

#	Type	Sample ID	1BR2NITROBZPCB B RT	1BR2NITROBZPCB A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.34	4.14
		LOWER LIMIT	4.14	3.94
		UPPER LIMIT	4.54	4.34
040	LCS	QC1098653	4.34	4.14
045	BLANK	QC1098102	4.33	4.14
046	BS	QC1098103	4.34	4.14
047	BSD	QC1098104	4.34	4.14
048	SAMPLE	493300-001	4.33	4.14
049	SAMPLE	493300-004	4.33	4.14
050	SAMPLE	493300-005	4.34	4.14
051	SAMPLE	493300-007	4.34	4.14
052	SAMPLE	493300-008	4.33	4.14
053	SAMPLE	493300-010	4.33	4.14
054	SAMPLE	493300-013	4.33	4.14
055	SAMPLE	493300-015	4.33	4.14
056	SAMPLE	493300-017	4.33	4.14
057	SAMPLE	493300-019	4.34	4.14
058	SAMPLE	493300-021	4.33	4.14
059	SAMPLE	493300-023	4.33	4.14

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523031
Analyzed: 10/05/23 17:04

#	Type	Sample ID	1BR2NITROBZ1242 A	1BR2NITROBZ1242 B
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	5406087	13255998
		LOWER LIMIT	2703044	6627999
		UPPER LIMIT	10812174	26511997
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523031
Analyzed: 10/05/23 17:04

#	Type	Sample ID	1BR2NITROBZ1242 A RT	1BR2NITROBZ1242 B RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.14	4.34
		LOWER LIMIT	3.94	4.14
		UPPER LIMIT	4.34	4.54
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523032
Analyzed: 10/05/23 17:22

#	Type	Sample ID	1BR2NITROBZ1254 B	1BR2NITROBZ1254 A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	13102057	5302866
		LOWER LIMIT	6551029	2651433
		UPPER LIMIT	26204114	10605732
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523032
Analyzed: 10/05/23 17:22

#	Type	Sample ID	1BR2NITROBZ1254 B RT	1BR2NITROBZ1254 A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.34	4.14
		LOWER LIMIT	4.14	3.94
		UPPER LIMIT	4.54	4.34
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523033
Analyzed: 10/05/23 17:40

#	Type	Sample ID	1BR2NITROBZ1248 A	1BR2NITROBZ1248 B
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4780732	11692927
		LOWER LIMIT	2390366	5846464
		UPPER LIMIT	9561463	23385854
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523033
Analyzed: 10/05/23 17:40

#	Type	Sample ID	1BR2NITROBZ1248 A RT	1BR2NITROBZ1248 B RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.14	4.34
		LOWER LIMIT	3.94	4.14
		UPPER LIMIT	4.34	4.54
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523034
Analyzed: 10/05/23 17:58

#	Type	Sample ID	1BR2NITROBZ1268 B	1BR2NITROBZ1268 A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	11450708	4957241
		LOWER LIMIT	5725354	2478620
		UPPER LIMIT	22901416	9914482
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523034
Analyzed: 10/05/23 17:58

#	Type	Sample ID	1BR2NITROBZ1268 B RT	1BR2NITROBZ1268 A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.34	4.14
		LOWER LIMIT	4.14	3.94
		UPPER LIMIT	4.54	4.34
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523037
Analyzed: 10/05/23 18:50

#	Type	Sample ID	1BR2NITROBZ1221 B	1BR2NITROBZ1221 A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	12069471	4925828
		LOWER LIMIT	6034735	2462914
		UPPER LIMIT	24138941	9851656
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523037
Analyzed: 10/05/23 18:50

#	Type	Sample ID	1BR2NITROBZ1221 B RT	1BR2NITROBZ1221 A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.34	4.15
		LOWER LIMIT	4.14	3.95
		UPPER LIMIT	4.54	4.35
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523038
Analyzed: 10/05/23 19:08

#	Type	Sample ID	1BR2NITROBZ1232 B	1BR2NITROBZ1232 A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	11381345	4851011
		LOWER LIMIT	5690672	2425505
		UPPER LIMIT	22762689	9702022
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523038
Analyzed: 10/05/23 19:08

#	Type	Sample ID	1BR2NITROBZ1232 B RT	1BR2NITROBZ1232 A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.34	4.14
		LOWER LIMIT	4.14	3.94
		UPPER LIMIT	4.54	4.34
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523039
Analyzed: 10/05/23 19:26

#	Type	Sample ID	1BR2NITROBZ1262 B	1BR2NITROBZ1262 A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	11681712	4779708
		LOWER LIMIT	5840856	2389854
		UPPER LIMIT	23363424	9559417
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23
Sequence: SVOA-GC06 gc06_100523

Reference: gc06_100523039
Analyzed: 10/05/23 19:26

#	Type	Sample ID	1BR2NITROBZ1262 B RT	1BR2NITROBZ1262 A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.34	4.14
		LOWER LIMIT	4.14	3.94
		UPPER LIMIT	4.54	4.34
045	BLANK	QC1098102		
048	SAMPLE	493300-001		
049	SAMPLE	493300-004		
050	SAMPLE	493300-005		
051	SAMPLE	493300-007		
052	SAMPLE	493300-008		
053	SAMPLE	493300-010		
054	SAMPLE	493300-013		
055	SAMPLE	493300-015		
056	SAMPLE	493300-017		
057	SAMPLE	493300-019		
058	SAMPLE	493300-021		
059	SAMPLE	493300-023		

Date: 10/05/23		Reference: gc07_0908230035		
Sequence: SVOA-GC07 gc07_100523		Analyzed: 09/08/23 21:10		
#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		ICAL STD	6089958	18203825
		LOWER LIMIT	3044979	9101913
		UPPER LIMIT	12179916	36407650
004	CCV		7829274	18065006

Date: 10/05/23
Sequence: SVOA-GC07 gc07_100523

Reference: gc07_1005230004
Analyzed: 10/05/23 13:01

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	7829274	18065006
		LOWER LIMIT	3914637	9032503
		UPPER LIMIT	15658548	36130012
016	BLANK	QC1098102	7469927	14387291
022	BLANK	QC1098232	7920924	14756632
028	BS	QC1098233	7086251	12728880
029	BSD	QC1098234	7434010	13440545
030	SAMPLE	493321-001	7107321	13270092
031	SAMPLE	493321-003	7411355	13953502
032	SAMPLE	493321-006	6568238	12492525
033	SAMPLE	493321-007	6890361	12177115
034	SAMPLE	493321-009	7410549	12670185
035	SAMPLE	493321-012	7775013	15094088
036	SAMPLE	493321-014	7955943	13916705
037	SAMPLE	493321-016	7831033	13425621
038	SAMPLE	493321-018	7843780	13759108
039	SAMPLE	493321-020	7566752	13502379
040	SAMPLE	493321-022	7702073	12089952

Date: 10/05/23
Sequence: SVOA-GC07 gc07_100523

Reference: gc07_1005230004
Analyzed: 10/05/23 13:01

#	Type	Sample ID	1BR2NITROBZPCB B RT	1BR2NITROBZPCB A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.24	4.09
		LOWER LIMIT	4.04	3.89
		UPPER LIMIT	4.44	4.29
016	BLANK	QC1098102	4.24	4.09
022	BLANK	QC1098232	4.24	4.09
028	BS	QC1098233	4.24	4.09
029	BSD	QC1098234	4.24	4.09
030	SAMPLE	493321-001	4.24	4.09
031	SAMPLE	493321-003	4.24	4.09
032	SAMPLE	493321-006	4.24	4.09
033	SAMPLE	493321-007	4.24	4.09
034	SAMPLE	493321-009	4.24	4.09
035	SAMPLE	493321-012	4.24	4.09
036	SAMPLE	493321-014	4.24	4.09
037	SAMPLE	493321-016	4.24	4.09
038	SAMPLE	493321-018	4.24	4.09
039	SAMPLE	493321-020	4.24	4.09
040	SAMPLE	493321-022	4.24	4.09

Instrument: SVOA-GC06

Begun: 10/05/23 08:20

Method: EPA 8081A, EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
002	gc06_100523002	PEM				10/05/23 08:20	1.0	1	
003	gc06_100523003	CCV				10/05/23 08:38	1.0	2	ac
004	gc06_100523004	CCV				10/05/23 08:56	1.0	3	
007	gc06_100523007	ICAL				10/05/23 09:46	1.0	4	
008	gc06_100523008	ICAL				10/05/23 10:04	1.0	5	
009	gc06_100523009	ICAL				10/05/23 10:23	1.0	6	
010	gc06_100523010	ICAL				10/05/23 10:41	1.0	7	
011	gc06_100523011	ICAL				10/05/23 10:59	1.0	8	
012	gc06_100523012	ICAL				10/05/23 11:17	1.0	9	
013	gc06_100523013	ICAL				10/05/23 11:35	1.0	10	
015	gc06_100523015	ICV				10/05/23 12:12	1.0	11	
017	gc06_100523017	ICAL				10/05/23 12:48	1.0	12	
019	gc06_100523019	ICAL				10/05/23 13:25	1.0	13	
020	gc06_100523020	ICAL				10/05/23 13:43	1.0	14	
021	gc06_100523021	ICAL				10/05/23 14:01	1.0	15	
022	gc06_100523022	ICAL				10/05/23 14:19	1.0	16	
023	gc06_100523023	ICAL				10/05/23 14:38	1.0	17	
024	gc06_100523024	ICAL				10/05/23 14:56	1.0	18	
025	gc06_100523025	ICAL				10/05/23 15:14	1.0	19	
026	gc06_100523026	ICAL				10/05/23 15:32	1.0	20	
027	gc06_100523027	ICAL				10/05/23 15:51	1.0	21	
028	gc06_100523028	ICAL				10/05/23 16:09	1.0	22	
030	gc06_100523030	ICV/CCV				10/05/23 16:45	1.0	23	
031	gc06_100523031	ICAL				10/05/23 17:04	1.0	24	
032	gc06_100523032	ICAL				10/05/23 17:22	1.0	25	
033	gc06_100523033	ICAL				10/05/23 17:40	1.0	26	
034	gc06_100523034	ICAL				10/05/23 17:58	1.0	27	
037	gc06_100523037	ICAL				10/05/23 18:50	1.0	28	
038	gc06_100523038	ICAL				10/05/23 19:08	1.0	29	
039	gc06_100523039	ICAL				10/05/23 19:26	1.0	30	
040	gc06_100523040	LCS	QC1098653	Wipe	323800	10/05/23 19:45	1.0	31	
041	gc06_100523041	UNKNOWN	21/54 MDL		323800	10/05/23 20:03	1.0	31	
042	gc06_100523042	UNKNOWN	32/62 MDL		323800	10/05/23 20:21	1.0	31	
043	gc06_100523043	UNKNOWN	42/68 MDL		323800	10/05/23 20:39	1.0	31	
044	gc06_100523044	UNKNOWN	48 MDL		323800	10/05/23 20:57	1.0	31	
045	gc06_100523045	BLANK	QC1098102	Wipe	323800	10/05/23 21:15	1.0	31	
046	gc06_100523046	BS	QC1098103	Wipe	323800	10/05/23 21:34	1.0	31	
047	gc06_100523047	BSD	QC1098104	Wipe	323800	10/05/23 21:52	1.0	31	
048	gc06_100523048	SAMPLE	493300-001	Wipe	323800	10/05/23 22:10	1.0	31	
049	gc06_100523049	SAMPLE	493300-004	Wipe	323800	10/05/23 22:28	1.0	31	
050	gc06_100523050	SAMPLE	493300-005	Wipe	323800	10/05/23 22:46	1.0	31	
051	gc06_100523051	SAMPLE	493300-007	Wipe	323800	10/05/23 23:04	1.0	31	
052	gc06_100523052	SAMPLE	493300-008	Wipe	323800	10/05/23 23:23	1.0	31	
053	gc06_100523053	SAMPLE	493300-010	Wipe	323800	10/05/23 23:41	1.0	31	
054	gc06_100523054	SAMPLE	493300-013	Wipe	323800	10/05/23 23:59	1.0	31	
055	gc06_100523055	SAMPLE	493300-015	Wipe	323800	10/06/23 00:17	1.0	31	
056	gc06_100523056	SAMPLE	493300-017	Wipe	323800	10/06/23 00:35	1.0	31	
057	gc06_100523057	SAMPLE	493300-019	Wipe	323800	10/06/23 00:53	1.0	31	
058	gc06_100523058	SAMPLE	493300-021	Wipe	323800	10/06/23 01:12	1.0	31	
059	gc06_100523059	SAMPLE	493300-023	Wipe	323800	10/06/23 01:30	1.0	31	

Instrument: SVOA-GC06					Begun: 10/05/23 08:20				
Method: EPA 8081A, EPA 8082									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
061	gc06_100523061	UNKNOWN	21/54 MDL		323848	10/06/23 02:06	1.0	31	
062	gc06_100523062	UNKNOWN	32/62 MDL		323848	10/06/23 02:24	1.0	31	
063	gc06_100523063	UNKNOWN	42/68 MDL		323848	10/06/23 02:42	1.0	31	
064	gc06_100523064	UNKNOWN	48 MDL		323848	10/06/23 03:01	1.0	31	

TRN 10/06/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 64.

ac=average CCV drift out

Standards Used:

1=S18897 2=S19020 3=S19183 4=S19009 5=S19010 6=S19011 7=S19013 8=S19014 9=S19015 10=S19016 11=S19019 12=S19008 13=S18454 14=S18455
 15=S18456 16=S18457 17=S18458 18=S18459 19=S18460 20=S18461 21=S18462 22=S18463 23=S18851 24=S19101 25=S19102 26=S18927 27=S18928
 28=S18898 29=S18899 30=S18900 31=S18370

Instrument: SVOA-GC07						Begun: 09/08/23 11:48			
Method: EPA 8081A, EPA 8082									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
002	gc07_0908230002	PEM				09/08/23 11:48	1.0	1	
003	gc07_0908230003	CCV				09/08/23 12:06	1.0	2	ac
004	gc07_0908230004	CCV				09/08/23 12:23	1.0	3	
021	gc07_0908230021	PEM				09/08/23 17:06	1.0	1	
022	gc07_0908230022	ICAL				09/08/23 17:24	1.0	4	
023	gc07_0908230023	ICAL				09/08/23 17:41	1.0	5	
024	gc07_0908230024	ICAL				09/08/23 17:59	1.0	6	
025	gc07_0908230025	ICAL				09/08/23 18:16	1.0	7	
026	gc07_0908230026	ICAL				09/08/23 18:33	1.0	8	
027	gc07_0908230027	ICAL				09/08/23 18:51	1.0	9	
028	gc07_0908230028	ICAL				09/08/23 19:08	1.0	10	
029	gc07_0908230029	ICAL				09/08/23 19:26	1.0	11	
031	gc07_0908230031	ICV				09/08/23 20:00	1.0	12	
033	gc07_0908230033	ICAL				09/08/23 20:35	1.0	13	
034	gc07_0908230034	ICAL				09/08/23 20:53	1.0	14	
035	gc07_0908230035	ICAL				09/08/23 21:10	1.0	15	
036	gc07_0908230036	ICAL				09/08/23 21:28	1.0	16	
037	gc07_0908230037	ICAL				09/08/23 21:45	1.0	17	
038	gc07_0908230038	ICAL				09/08/23 22:03	1.0	18	
039	gc07_0908230039	ICAL				09/08/23 22:20	1.0	19	
040	gc07_0908230040	ICAL				09/08/23 22:37	1.0	20	
041	gc07_0908230041	ICAL				09/08/23 22:55	1.0	21	
042	gc07_0908230042	ICAL				09/08/23 23:12	1.0	22	
044	gc07_0908230044	ICV				09/08/23 23:47	1.0	23	

MES 09/11/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 44.

ac=average CCV drift out

Standards Used:

1=S18206 2=S18917 3=S18989 4=S19008 5=S19009 6=S19010 7=S19011 8=S19013 9=S19014 10=S19015 11=S19016 12=S19019 13=S18454 14=S18455
15=S18456 16=S18457 17=S18458 18=S18459 19=S18460 20=S18461 21=S18462 22=S18463 23=S18851

Instrument: SVOA-GC07

Begun: 10/05/23 12:26

Method: EPA 8081A, EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
002	gc07_1005230002	PEM				10/05/23 12:26	1.0	1	
003	gc07_1005230003	CCV				10/05/23 12:43	1.0	2	
004	gc07_1005230004	CCV				10/05/23 13:01	1.0	3	
016	gc07_1005230016	BLANK	QC1098102	Wipe	323800	10/05/23 16:23	1.0	4	
022	gc07_1005230022	BLANK	QC1098232	Wipe	323848	10/05/23 18:07	1.0	4	
028	gc07_1005230028	BS	QC1098233	Wipe	323848	10/05/23 19:52	1.0	4	
029	gc07_1005230029	BSD	QC1098234	Wipe	323848	10/05/23 20:10	1.0	4	
030	gc07_1005230030	SAMPLE	493321-001	Wipe	323848	10/05/23 20:27	1.0	4	
031	gc07_1005230031	SAMPLE	493321-003	Wipe	323848	10/05/23 20:44	1.0	4	
032	gc07_1005230032	SAMPLE	493321-006	Wipe	323848	10/05/23 21:02	1.0	4	
033	gc07_1005230033	SAMPLE	493321-007	Wipe	323848	10/05/23 21:19	1.0	4	
034	gc07_1005230034	SAMPLE	493321-009	Wipe	323848	10/05/23 21:37	1.0	4	
035	gc07_1005230035	SAMPLE	493321-012	Wipe	323848	10/05/23 21:54	1.0	4	
036	gc07_1005230036	SAMPLE	493321-014	Wipe	323848	10/05/23 22:12	1.0	4	
037	gc07_1005230037	SAMPLE	493321-016	Wipe	323848	10/05/23 22:29	1.0	4	
038	gc07_1005230038	SAMPLE	493321-018	Wipe	323848	10/05/23 22:47	1.0	4	
039	gc07_1005230039	SAMPLE	493321-020	Wipe	323848	10/05/23 23:04	1.0	4	
040	gc07_1005230040	SAMPLE	493321-022	Wipe	323848	10/05/23 23:21	1.0	4	

MES 10/06/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 40.

Standards Used:

1=S18897 2=S19020 3=S19183 4=S18370

SAMPLE PREPARATION SUMMARY

Batch #: 323800	Method: 3546	Analysis: 8080
Started By: SNV	Prep Date: 04-OCT-2023 16:48	Finished By: JAM

Sample	Matrix	Initial	Final	Prep DF	pH	Spike S19119	Spike S18891	Spike S19176	Analysis
493300-001	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-004	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-005	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-007	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-008	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-010	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-013	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-015	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-017	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-019	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-021	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
493300-023	Wipe	1 dm2	10 mL	10.0		.5 mL			PCB-MICROWAVE
QC1098102 BLANK	Wipe	1 dm2	10 mL	10.0		.5 mL			8080
QC1098103 BS	Wipe	1 dm2	10 mL	10.0		.5 mL		.5 mL	8080
QC1098104 BSD	Wipe	1 dm2	10 mL	10.0		.5 mL		.5 mL	8080
QC1098653 LCS	Wipe	1 dm2	10 mL	10.0		.5 mL	.5 mL		8080

Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

Initials: SNV/HAM

* For hot block, microwave, shaker table

8082 QC Batch #: 323800

16/60 MDL : 518891 volume: 500 ML

REPORTING SUMMARY FOR 493300 PCBs Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
493300-001	Aroclor-1016	SVOA-GC06	B	10/05/23 22:10
493300-001	Aroclor-1221	SVOA-GC06	B	10/05/23 22:10
493300-001	Aroclor-1232	SVOA-GC06	B	10/05/23 22:10
493300-001	Aroclor-1242	SVOA-GC06	B	10/05/23 22:10
493300-001	Aroclor-1248	SVOA-GC06	B	10/05/23 22:10
493300-001	Aroclor-1254	SVOA-GC06	B	10/05/23 22:10
493300-001	Aroclor-1260	SVOA-GC06	B	10/05/23 22:10
493300-001	Aroclor-1262	SVOA-GC06	B	10/05/23 22:10
493300-001	Aroclor-1268	SVOA-GC06	B	10/05/23 22:10
493300-001	TCMX (PCB)	SVOA-GC06	B	10/05/23 22:10
493300-001	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/05/23 22:10
493300-004	Aroclor-1016	SVOA-GC06	B	10/05/23 22:28
493300-004	Aroclor-1221	SVOA-GC06	B	10/05/23 22:28
493300-004	Aroclor-1232	SVOA-GC06	B	10/05/23 22:28
493300-004	Aroclor-1242	SVOA-GC06	B	10/05/23 22:28
493300-004	Aroclor-1248	SVOA-GC06	B	10/05/23 22:28
493300-004	Aroclor-1254	SVOA-GC06	B	10/05/23 22:28
493300-004	Aroclor-1260	SVOA-GC06	B	10/05/23 22:28
493300-004	Aroclor-1262	SVOA-GC06	B	10/05/23 22:28
493300-004	Aroclor-1268	SVOA-GC06	B	10/05/23 22:28
493300-004	TCMX (PCB)	SVOA-GC06	B	10/05/23 22:28
493300-004	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/05/23 22:28
493300-005	Aroclor-1016	SVOA-GC06	B	10/05/23 22:46
493300-005	Aroclor-1221	SVOA-GC06	B	10/05/23 22:46
493300-005	Aroclor-1232	SVOA-GC06	B	10/05/23 22:46
493300-005	Aroclor-1242	SVOA-GC06	B	10/05/23 22:46
493300-005	Aroclor-1248	SVOA-GC06	B	10/05/23 22:46
493300-005	Aroclor-1254	SVOA-GC06	B	10/05/23 22:46
493300-005	Aroclor-1260	SVOA-GC06	B	10/05/23 22:46

REPORTING SUMMARY FOR 493300 PCBs Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
493300-005	Aroclor-1262	SVOA-GC06	B	10/05/23 22:46
493300-005	Aroclor-1268	SVOA-GC06	B	10/05/23 22:46
493300-005	TCMX (PCB)	SVOA-GC06	B	10/05/23 22:46
493300-005	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/05/23 22:46
493300-007	Aroclor-1016	SVOA-GC06	B	10/05/23 23:04
493300-007	Aroclor-1221	SVOA-GC06	B	10/05/23 23:04
493300-007	Aroclor-1232	SVOA-GC06	B	10/05/23 23:04
493300-007	Aroclor-1242	SVOA-GC06	B	10/05/23 23:04
493300-007	Aroclor-1248	SVOA-GC06	B	10/05/23 23:04
493300-007	Aroclor-1254	SVOA-GC06	B	10/05/23 23:04
493300-007	Aroclor-1260	SVOA-GC06	B	10/05/23 23:04
493300-007	Aroclor-1262	SVOA-GC06	B	10/05/23 23:04
493300-007	Aroclor-1268	SVOA-GC06	B	10/05/23 23:04
493300-007	TCMX (PCB)	SVOA-GC06	B	10/05/23 23:04
493300-007	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/05/23 23:04
493300-008	Aroclor-1016	SVOA-GC06	B	10/05/23 23:23
493300-008	Aroclor-1221	SVOA-GC06	B	10/05/23 23:23
493300-008	Aroclor-1232	SVOA-GC06	B	10/05/23 23:23
493300-008	Aroclor-1242	SVOA-GC06	B	10/05/23 23:23
493300-008	Aroclor-1248	SVOA-GC06	B	10/05/23 23:23
493300-008	Aroclor-1254	SVOA-GC06	B	10/05/23 23:23
493300-008	Aroclor-1260	SVOA-GC06	B	10/05/23 23:23
493300-008	Aroclor-1262	SVOA-GC06	B	10/05/23 23:23
493300-008	Aroclor-1268	SVOA-GC06	B	10/05/23 23:23
493300-008	TCMX (PCB)	SVOA-GC06	B	10/05/23 23:23
493300-008	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/05/23 23:23
493300-010	Aroclor-1016	SVOA-GC06	B	10/05/23 23:41
493300-010	Aroclor-1221	SVOA-GC06	B	10/05/23 23:41

REPORTING SUMMARY FOR 493300 PCBs Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
493300-010	Aroclor-1232	SVOA-GC06	B	10/05/23 23:41
493300-010	Aroclor-1242	SVOA-GC06	B	10/05/23 23:41
493300-010	Aroclor-1248	SVOA-GC06	B	10/05/23 23:41
493300-010	Aroclor-1254	SVOA-GC06	B	10/05/23 23:41
493300-010	Aroclor-1260	SVOA-GC06	B	10/05/23 23:41
493300-010	Aroclor-1262	SVOA-GC06	B	10/05/23 23:41
493300-010	Aroclor-1268	SVOA-GC06	B	10/05/23 23:41
493300-010	TCMX (PCB)	SVOA-GC06	B	10/05/23 23:41
493300-010	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/05/23 23:41
493300-013	Aroclor-1016	SVOA-GC06	B	10/05/23 23:59
493300-013	Aroclor-1221	SVOA-GC06	B	10/05/23 23:59
493300-013	Aroclor-1232	SVOA-GC06	B	10/05/23 23:59
493300-013	Aroclor-1242	SVOA-GC06	B	10/05/23 23:59
493300-013	Aroclor-1248	SVOA-GC06	B	10/05/23 23:59
493300-013	Aroclor-1254	SVOA-GC06	B	10/05/23 23:59
493300-013	Aroclor-1260	SVOA-GC06	B	10/05/23 23:59
493300-013	Aroclor-1262	SVOA-GC06	B	10/05/23 23:59
493300-013	Aroclor-1268	SVOA-GC06	B	10/05/23 23:59
493300-013	TCMX (PCB)	SVOA-GC06	B	10/05/23 23:59
493300-013	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/05/23 23:59
493300-015	Aroclor-1016	SVOA-GC06	B	10/06/23 00:17
493300-015	Aroclor-1221	SVOA-GC06	B	10/06/23 00:17
493300-015	Aroclor-1232	SVOA-GC06	B	10/06/23 00:17
493300-015	Aroclor-1242	SVOA-GC06	B	10/06/23 00:17
493300-015	Aroclor-1248	SVOA-GC06	B	10/06/23 00:17
493300-015	Aroclor-1254	SVOA-GC06	B	10/06/23 00:17
493300-015	Aroclor-1260	SVOA-GC06	B	10/06/23 00:17
493300-015	Aroclor-1262	SVOA-GC06	B	10/06/23 00:17
493300-015	Aroclor-1268	SVOA-GC06	B	10/06/23 00:17

REPORTING SUMMARY FOR 493300 PCBs Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
493300-015	TCMX (PCB)	SVOA-GC06	B	10/06/23 00:17
493300-015	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/06/23 00:17
493300-017	Aroclor-1016	SVOA-GC06	B	10/06/23 00:35
493300-017	Aroclor-1221	SVOA-GC06	B	10/06/23 00:35
493300-017	Aroclor-1232	SVOA-GC06	B	10/06/23 00:35
493300-017	Aroclor-1242	SVOA-GC06	B	10/06/23 00:35
493300-017	Aroclor-1248	SVOA-GC06	B	10/06/23 00:35
493300-017	Aroclor-1254	SVOA-GC06	B	10/06/23 00:35
493300-017	Aroclor-1260	SVOA-GC06	B	10/06/23 00:35
493300-017	Aroclor-1262	SVOA-GC06	B	10/06/23 00:35
493300-017	Aroclor-1268	SVOA-GC06	B	10/06/23 00:35
493300-017	TCMX (PCB)	SVOA-GC06	B	10/06/23 00:35
493300-017	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/06/23 00:35
493300-019	Aroclor-1016	SVOA-GC06	B	10/06/23 00:53
493300-019	Aroclor-1221	SVOA-GC06	B	10/06/23 00:53
493300-019	Aroclor-1232	SVOA-GC06	B	10/06/23 00:53
493300-019	Aroclor-1242	SVOA-GC06	B	10/06/23 00:53
493300-019	Aroclor-1248	SVOA-GC06	B	10/06/23 00:53
493300-019	Aroclor-1254	SVOA-GC06	B	10/06/23 00:53
493300-019	Aroclor-1260	SVOA-GC06	B	10/06/23 00:53
493300-019	Aroclor-1262	SVOA-GC06	B	10/06/23 00:53
493300-019	Aroclor-1268	SVOA-GC06	B	10/06/23 00:53
493300-019	TCMX (PCB)	SVOA-GC06	B	10/06/23 00:53
493300-019	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/06/23 00:53
493300-021	Aroclor-1016	SVOA-GC06	B	10/06/23 01:12
493300-021	Aroclor-1221	SVOA-GC06	B	10/06/23 01:12
493300-021	Aroclor-1232	SVOA-GC06	B	10/06/23 01:12
493300-021	Aroclor-1242	SVOA-GC06	B	10/06/23 01:12

REPORTING SUMMARY FOR 493300 PCBs Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
493300-021	Aroclor-1248	SVOA-GC06	B	10/06/23 01:12
493300-021	Aroclor-1254	SVOA-GC06	B	10/06/23 01:12
493300-021	Aroclor-1260	SVOA-GC06	B	10/06/23 01:12
493300-021	Aroclor-1262	SVOA-GC06	B	10/06/23 01:12
493300-021	Aroclor-1268	SVOA-GC06	B	10/06/23 01:12
493300-021	TCMX (PCB)	SVOA-GC06	B	10/06/23 01:12
493300-021	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/06/23 01:12
493300-023	Aroclor-1016	SVOA-GC06	B	10/06/23 01:30
493300-023	Aroclor-1221	SVOA-GC06	B	10/06/23 01:30
493300-023	Aroclor-1232	SVOA-GC06	B	10/06/23 01:30
493300-023	Aroclor-1242	SVOA-GC06	B	10/06/23 01:30
493300-023	Aroclor-1248	SVOA-GC06	B	10/06/23 01:30
493300-023	Aroclor-1254	SVOA-GC06	B	10/06/23 01:30
493300-023	Aroclor-1260	SVOA-GC06	B	10/06/23 01:30
493300-023	Aroclor-1262	SVOA-GC06	B	10/06/23 01:30
493300-023	Aroclor-1268	SVOA-GC06	B	10/06/23 01:30
493300-023	TCMX (PCB)	SVOA-GC06	B	10/06/23 01:30
493300-023	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/06/23 01:30
QC1098102	Aroclor-1016	SVOA-GC07	B	10/05/23 16:23
QC1098102	Aroclor-1221	SVOA-GC07	B	10/05/23 16:23
QC1098102	Aroclor-1232	SVOA-GC07	B	10/05/23 16:23
QC1098102	Aroclor-1242	SVOA-GC07	B	10/05/23 16:23
QC1098102	Aroclor-1248	SVOA-GC07	B	10/05/23 16:23
QC1098102	Aroclor-1254	SVOA-GC07	B	10/05/23 16:23
QC1098102	Aroclor-1260	SVOA-GC07	B	10/05/23 16:23
QC1098102	Aroclor-1262	SVOA-GC07	B	10/05/23 16:23
QC1098102	Aroclor-1268	SVOA-GC07	B	10/05/23 16:23
QC1098102	TCMX (PCB)	SVOA-GC07	B	10/05/23 16:23
QC1098102	Decachlorobiphenyl (PCB)	SVOA-GC07	B	10/05/23 16:23

REPORTING SUMMARY FOR 493300 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC1098653	Aroclor-1016	SVOA-GC06	B	10/05/23 19:45
QC1098653	Aroclor-1260	SVOA-GC06	B	10/05/23 19:45
QC1098653	TCMX (PCB)	SVOA-GC06	B	10/05/23 19:45
QC1098653	Decachlorobiphenyl (PCB)	SVOA-GC06	B	10/05/23 19:45

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-001	Client ID: ARCH-C8E-EXT-1 TO 2-231003-P-WF
Seqnum: 453400820048	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523048	Batch: 323800	Time: 05-OCT-2023 22:10
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	22.83	ND	1.0	126%	0.50		u
Aroclor-1016 Peak # 1	B	47.25	0.47	0.66	33%			
Aroclor-1016 Peak # 2	B	27.29	0.27	0.33	20%			
Aroclor-1016 Peak # 3	B	22.79	0.23	1.23	137%			
Aroclor-1016 Peak # 4	B	2.888	0.03	2.27	195%			
Aroclor-1016 Peak # 5	B	13.94	0.14	0.56	120%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	21.10	ND	0.42	65%	0.50		u
Aroclor-1260 Peak # 1	B	46.49	0.46	0.54	15%			
Aroclor-1260 Peak # 2	B	12.21	0.12	0.03	123%			
Aroclor-1260 Peak # 3	B	9.604	0.10	0.00	182%			
Aroclor-1260 Peak # 4	B	9.835	0.10	1.03	165%			
Aroclor-1260 Peak # 5	B	27.36	0.27	0.47	52%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	33.57	0.5000	0.3357	67	19-121	c+ u
Decachlorobiphenyl (PCB)	B	26.97	0.5000	0.2697	54	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	12901917	0.24
1-bromo-2-nitrobenzene (PCB)	A	5358611	5239930	-2.21

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.33	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

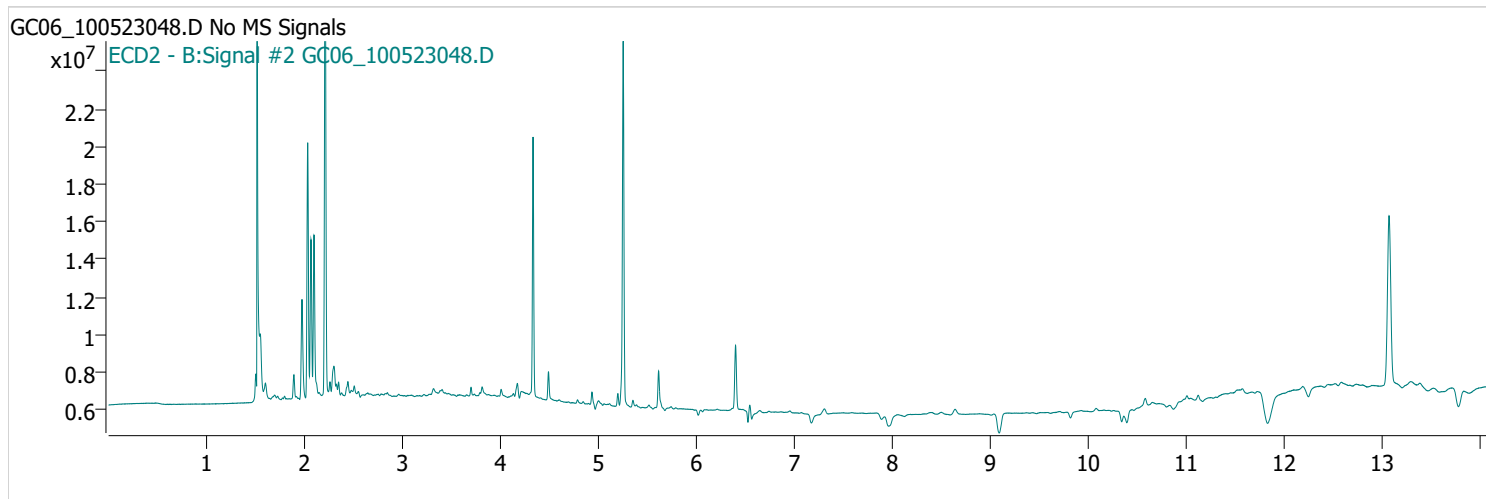
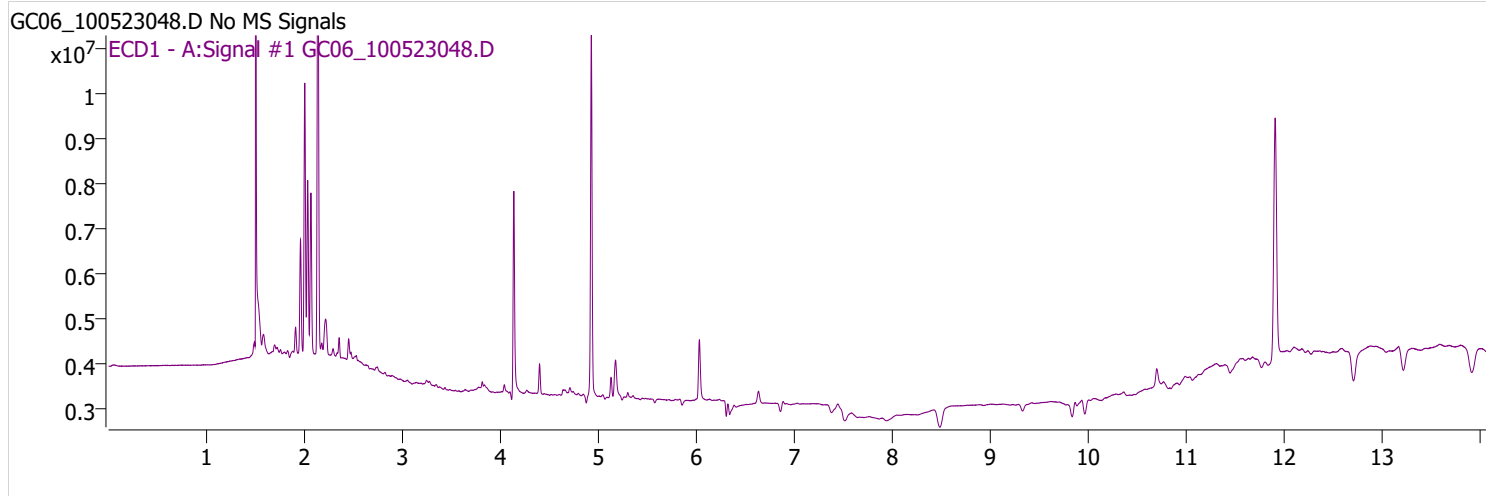
ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523048.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 10:10:26 PM
Sample Name	493300-001, 323800, 1	Instrument	SVOA-GC06
Vial	9	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5239930.46 2	20.0000	ng/ml	-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.334	0.0	12901917.1 45	20.0000	ng/ml	-0.002
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	9367834.73 8	33.1287	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 165.64%	*	
S TCMX (PCB) #2	5.255	0.0	21456593.3 35	33.5689	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 167.84%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	11431016.6 45	31.5673	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 157.84%	*	
S Decachlorobiphenyl (PCB) #2	13.076	0.0	21930230.8 35	26.9692	ng/ml	-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 134.85%		

Target Compounds

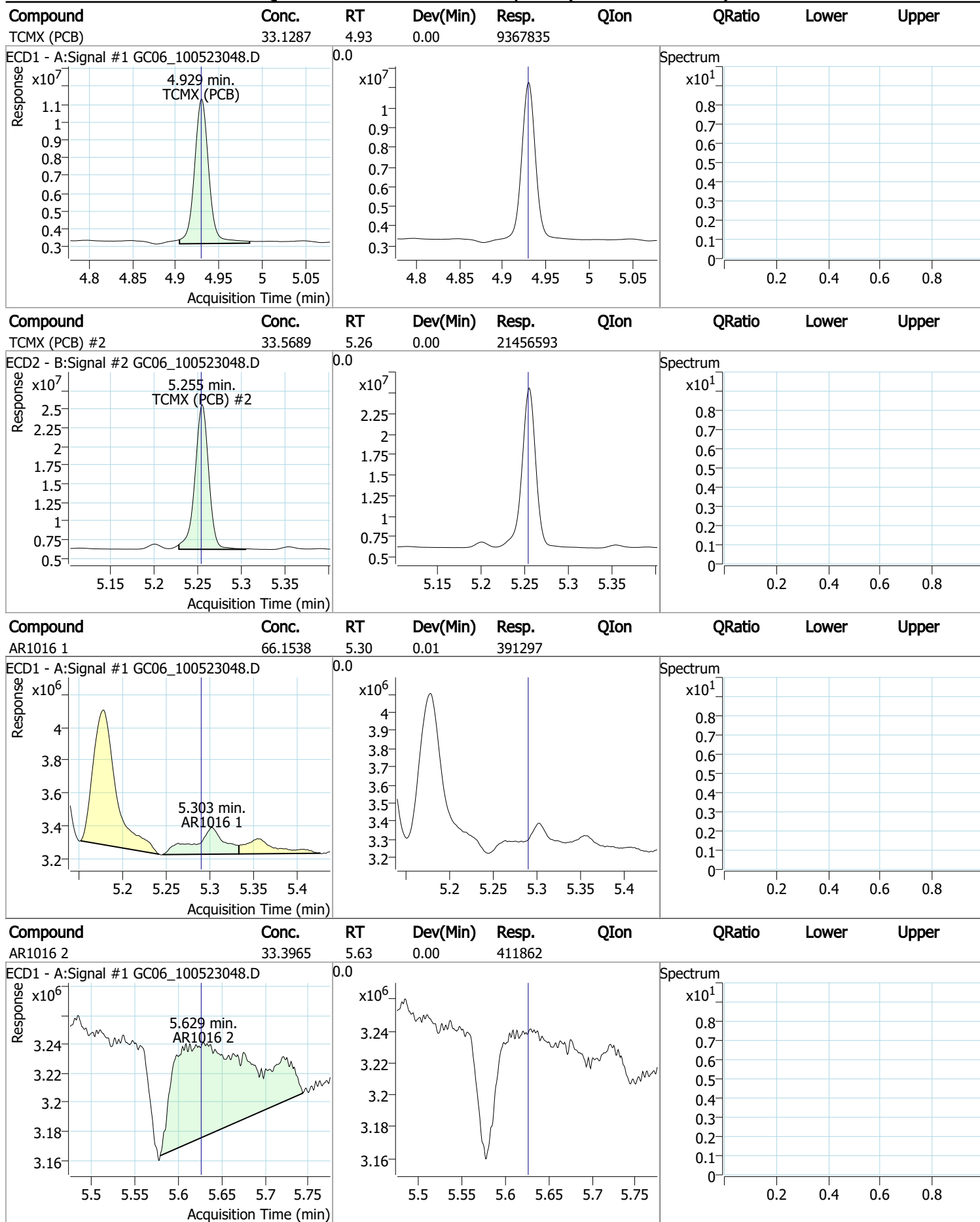
GC06_100523048.D

Quantitation Results Report (Not Reviewed)

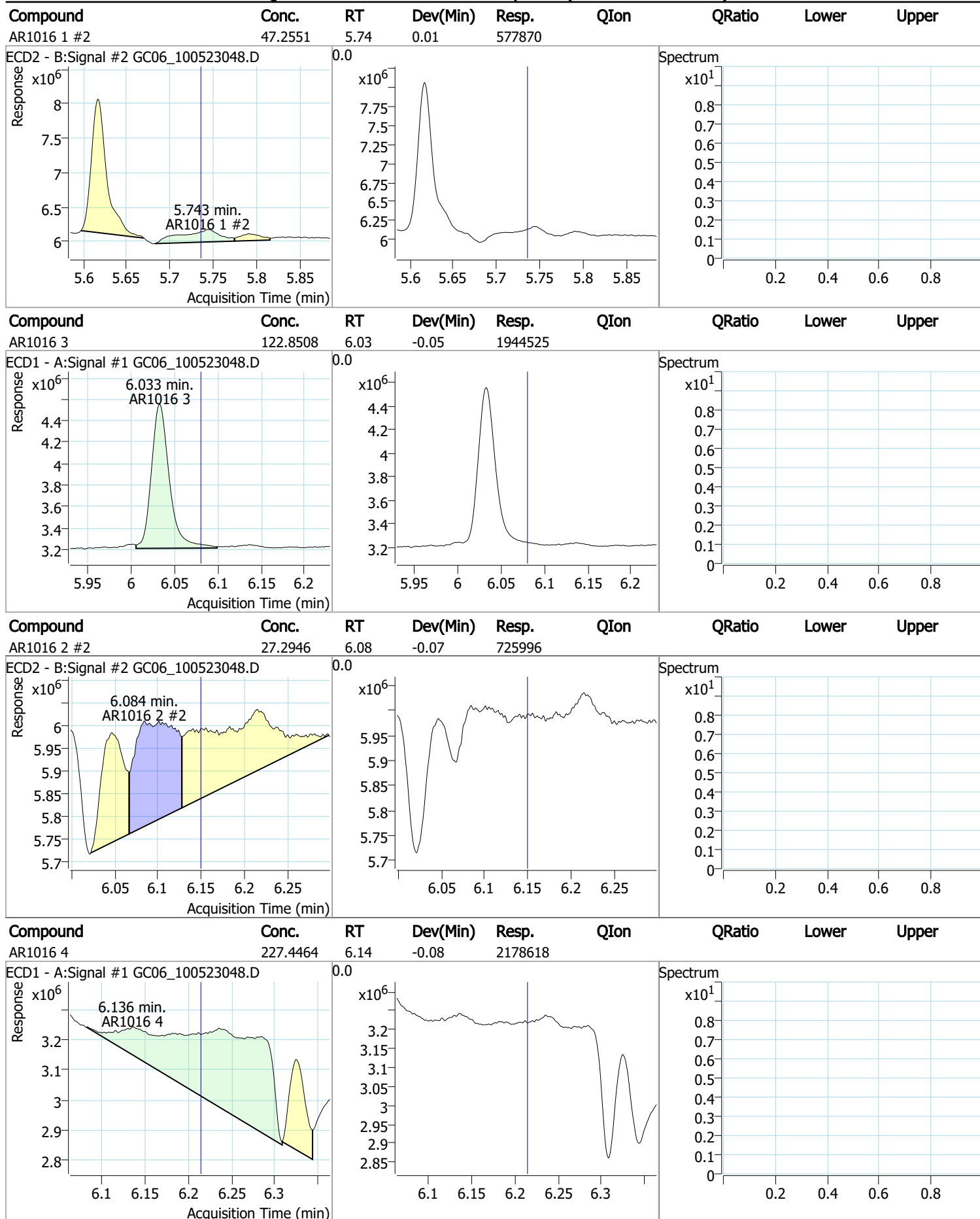
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.303	0.0	391296.683	66.1538	ng/ml	100
T AR1016 2	5.629	0.0	411861.772	33.3965	ng/ml	100
T AR1016 1 #2	5.743	0.0	577869.618	47.2551	ng/ml	100
T AR1016 3	6.033	0.0	1944524.871	122.8508	ng/ml	100
T AR1016 2 #2	6.084	0.0	725996.331	27.2946	ng/ml	100
T AR1016 4	6.136	0.0	2178618.216	227.4464	ng/ml	100
T AR1016 5	6.638	0.0	544947.493	55.8138	ng/ml	100
T AR1016 3 #2	6.652	0.0	800574.209	22.7915	ng/ml	100
T AR1016 4 #2	6.815	0.0	71012.796	2.8878	ng/ml	100
T AR1016 5 #2	7.502	0.0	279991.797	13.9440	ng/ml	100
T AR1260 1	8.428	0.0	976849.432	54.1776	ng/ml	100
T AR1260 2	9.006	0.0	91874.607	2.9292	ng/ml	100
T AR1260 3	9.618	0.0	14333.853	0.4483	ng/ml	100
T AR1260 1 #2	9.715	0.0	1694753.638	46.4944	ng/ml	100
T AR1260 4	9.938	0.0	1647587.525	103.1731	ng/ml	100
T AR1260 2 #2	9.931	0.0	535442.960	12.2099	ng/ml	100
T AR1260 3 #2	10.366	0.0	530191.173	9.6042	ng/ml	100
T AR1260 5	10.703	0.0	1210085.092	46.8326	ng/ml	100
T AR1260 4 #2	10.832	0.0	315479.946	9.8350	ng/ml	100
T AR1260 5 #2	11.575	0.0	1304596.618	27.3627	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

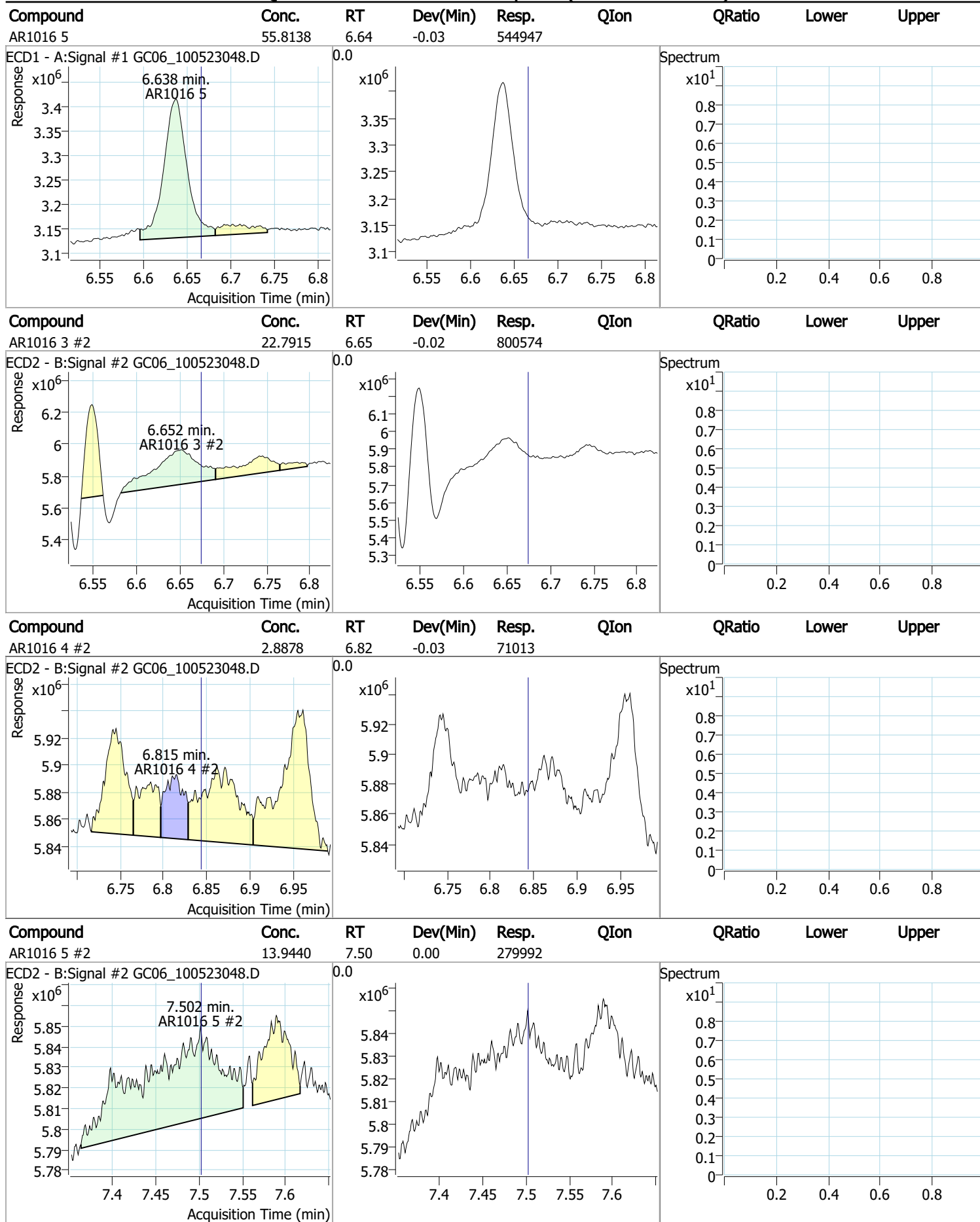
Quantitation Results Report (Not Reviewed)



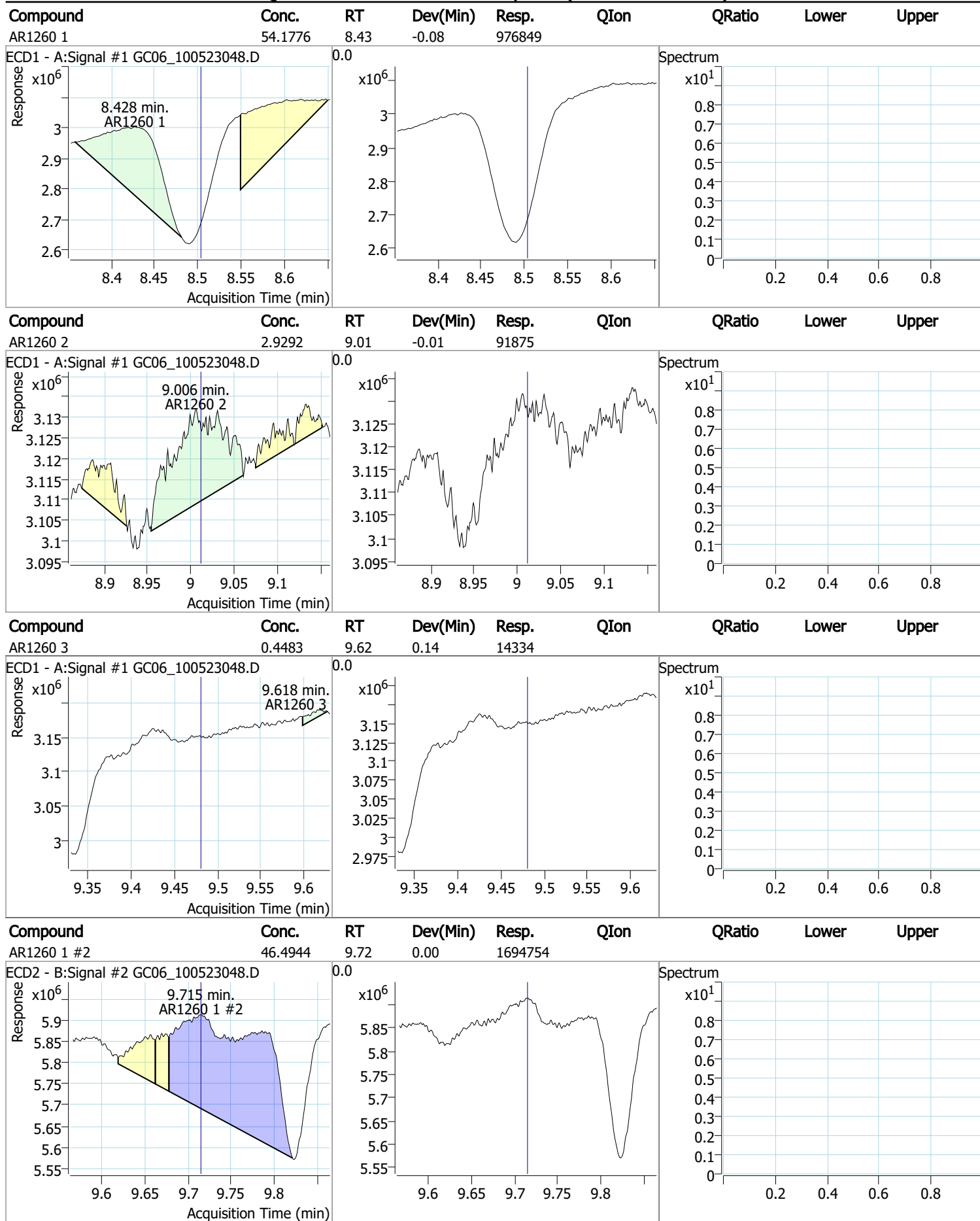
Quantitation Results Report (Not Reviewed)



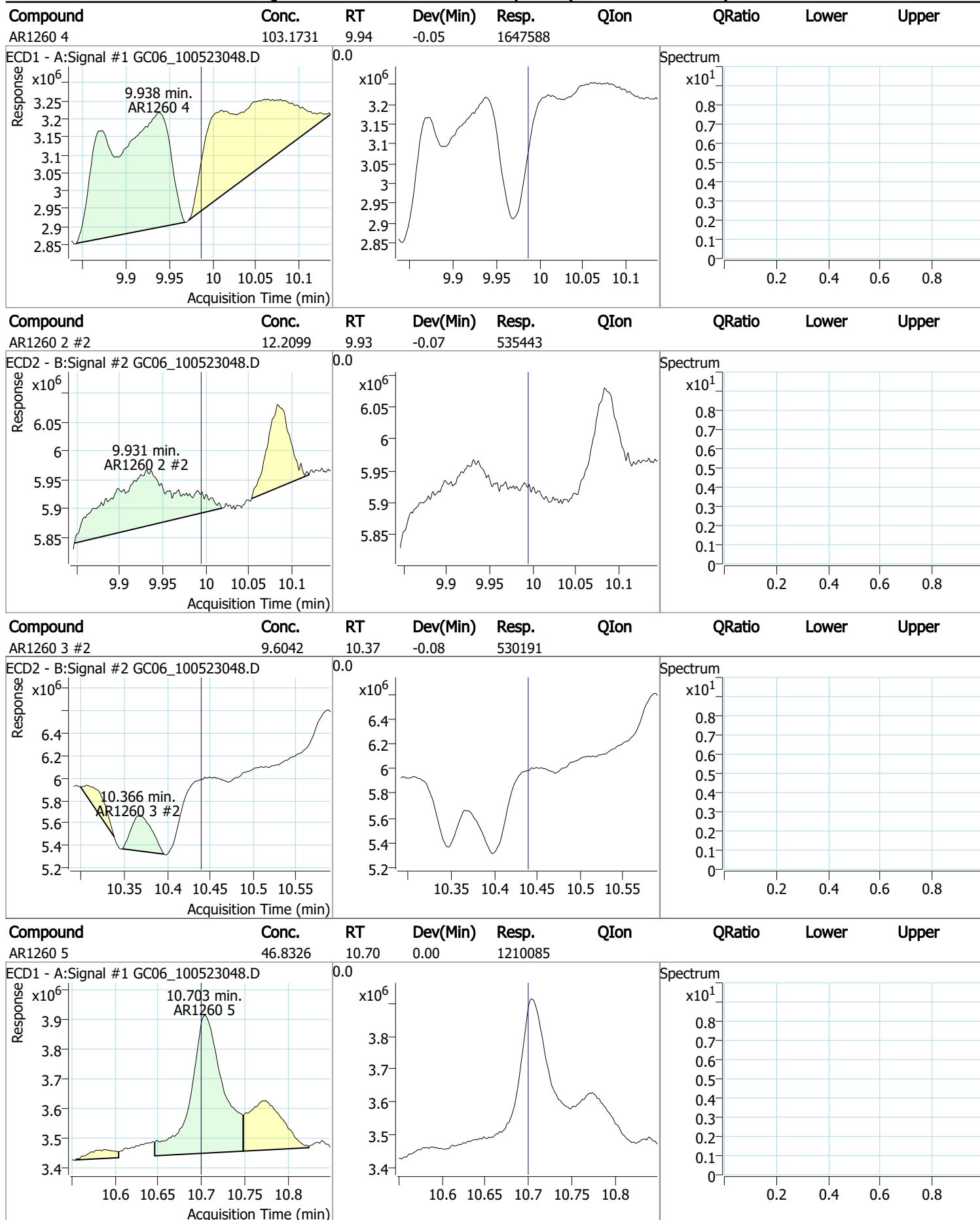
Quantitation Results Report (Not Reviewed)



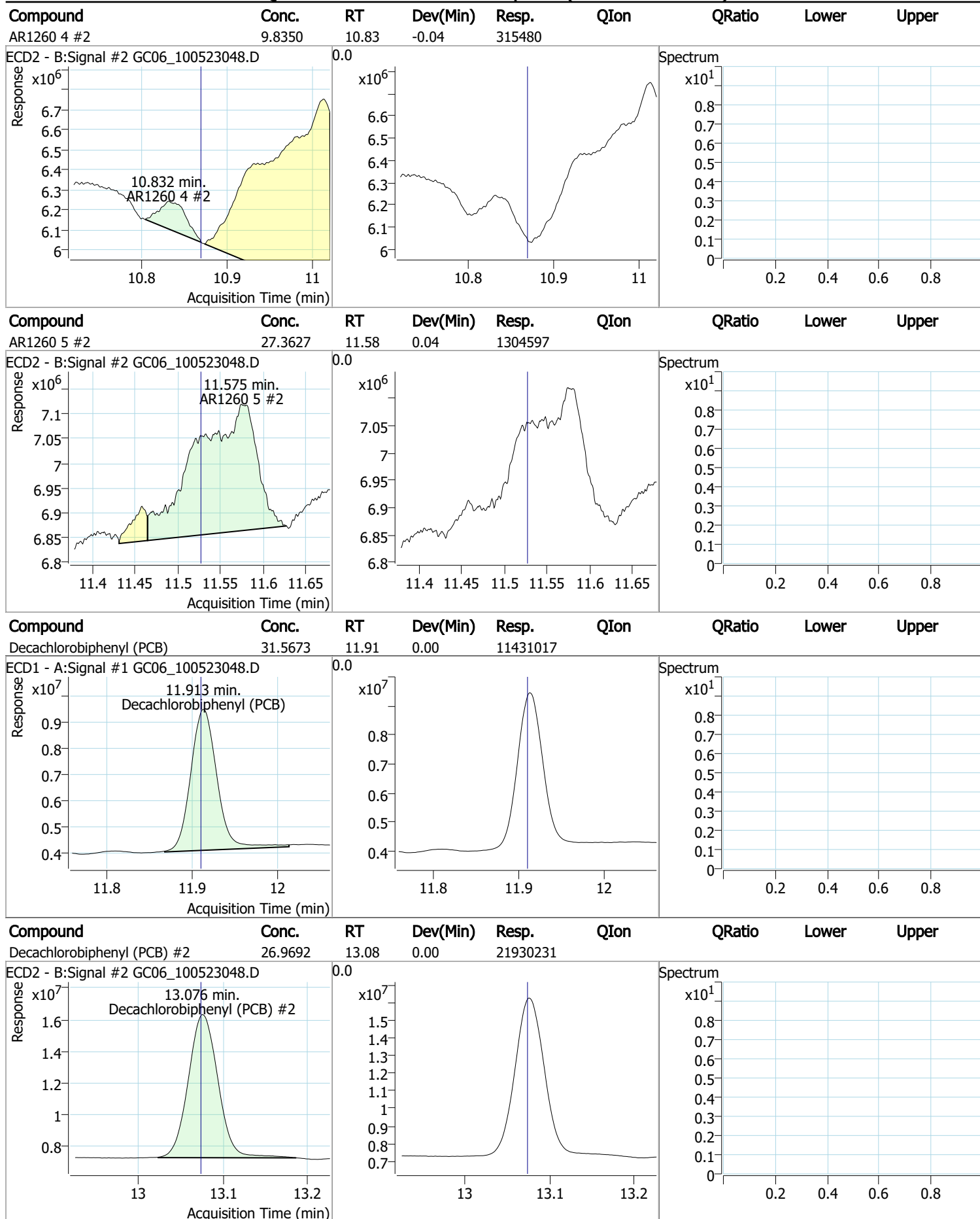
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-004	Client ID: ARCH-C9E-EXT-1 TO 2-231003-P-WF
Seqnum: 453400820049	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523049	Batch: 323800	Time: 05-OCT-2023 22:28
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	39.50	ND	1.1	92%	0.50		u
Aroclor-1016 Peak # 1	B	49.66	0.50	0.63	23%			
Aroclor-1016 Peak # 2	B	18.07	0.18	0.23	23%			
Aroclor-1016 Peak # 3	B	86.56	0.87	2.05	81%			
Aroclor-1016 Peak # 4	B	5.159	0.05	2.06	190%			
Aroclor-1016 Peak # 5	B	38.07	0.38	0.36	6%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	20.66	ND	0.35	51%	0.50		u
Aroclor-1260 Peak # 1	B	44.84	0.45	0.53	17%			
Aroclor-1260 Peak # 2	B	12.40	0.12	0.04	111%			
Aroclor-1260 Peak # 3	B	9.348	0.09	0.16	52%			
Aroclor-1260 Peak # 4	B	7.996	0.08	0.54	148%			
Aroclor-1260 Peak # 5	B	28.70	0.29	0.47	49%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	31.72	0.5000	0.3172	63	19-121	c+ u
Decachlorobiphenyl (PCB)	B	26.55	0.5000	0.2655	53	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	12999706	1.00
1-bromo-2-nitrobenzene (PCB)	A	5358611	5343489	-0.28

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.33	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

Analyst: TRN 10/06/23

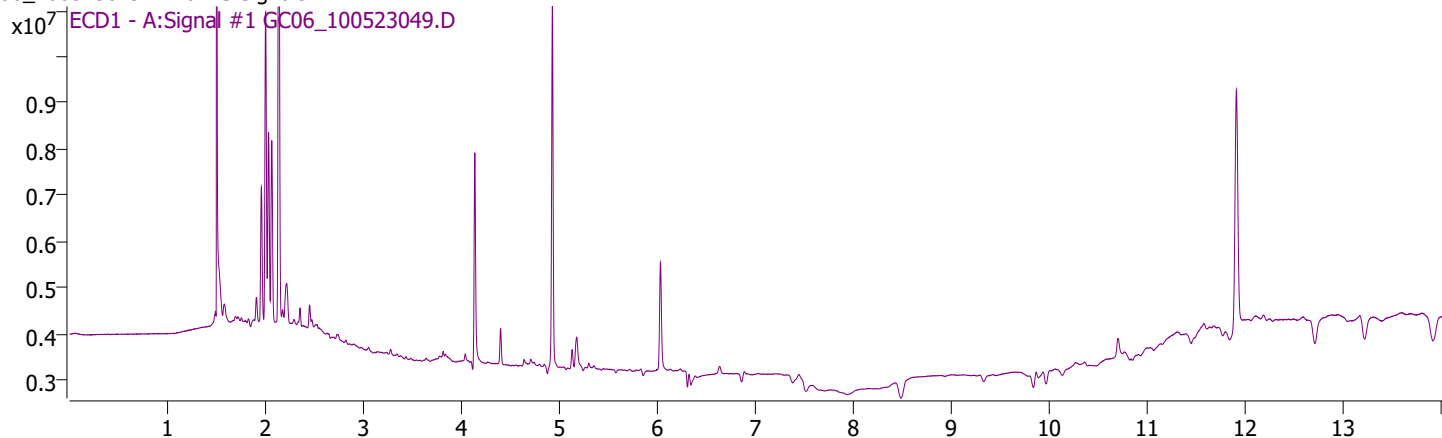
Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

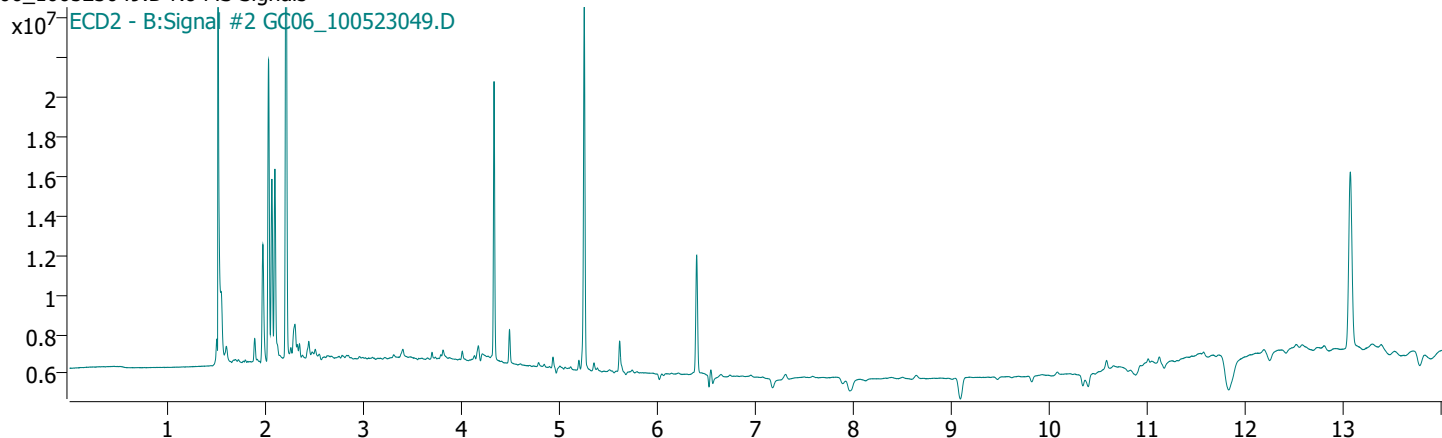
Data File GC06_100523049.D
 Acq. Method Acq_Pesticide_122221_2
 Sample Name 493300-004, 323800, 1
 Vial 10
 DA Method File PCB_608_100523_GC06_1.m
 Tune File ATUNE.U
 Batch Name 100523PCBICAL.batch.bin
 Ref Library

Operator
 Acq. Date-Time 10/5/2023 10:28:39 PM
 Instrument SVOA-GC06
 Multiplier 1.00
 Comment WIPE/1DM^2-10ML
 Tune Date
 Last Calib Update 10/5/2023 6:33:52 PM

GC06_100523049.D No MS Signals



GC06_100523049.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5343489.160	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.334	0.0	12999705.595	20.0000	ng/ml	-0.002
System Monitoring Compounds						
S TCMX (PCB)	4.930	0.0	8974272.552	31.1218	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 155.61%	*	
S TCMX (PCB) #2	5.255	0.0	20429212.762	31.7211	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 158.61%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	11520326.299	31.1973	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 155.99%	*	
S Decachlorobiphenyl (PCB) #2	13.077	0.0	21752387.419	26.5493	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 132.75%		

Target Compounds

QValue

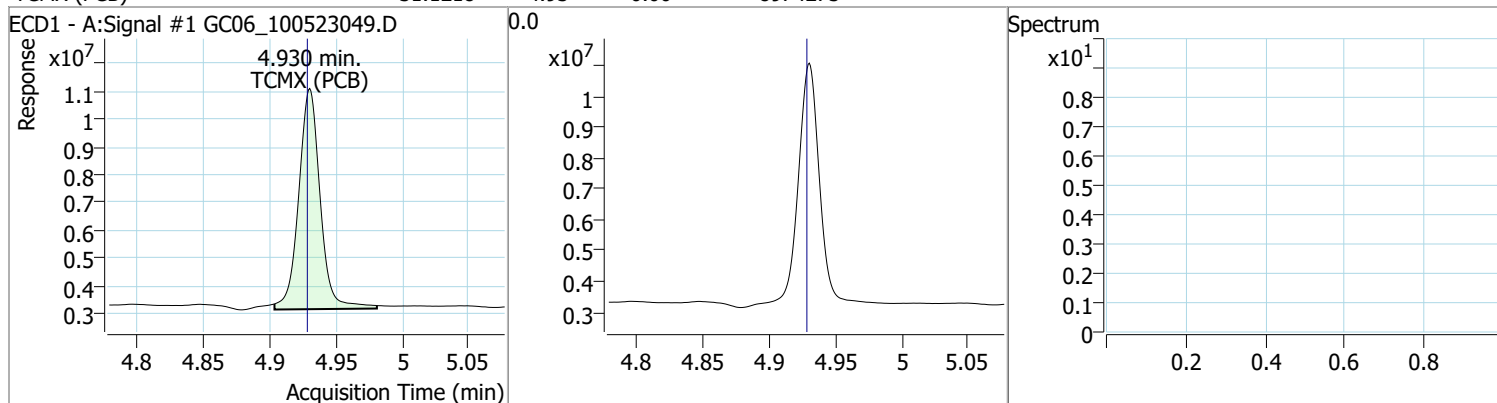
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.302	0.0	378494.676	62.7493	ng/ml	100
T AR1016 2	5.633	0.0	285149.022	22.6737	ng/ml	100
T AR1016 1 #2	5.745	0.0	611905.481	49.6620	ng/ml	100
T AR1016 3	6.033	0.0	3308100.74 0	204.9480	ng/ml	100
T AR1016 2 #2	6.148	0.0	484326.286	18.0718	ng/ml	100
T AR1016 4	6.239	0.0	2015310.31 8	206.3196	ng/ml	100
T AR1016 5	6.638	0.0	358312.626	35.9873	ng/ml	100
T AR1016 3 #2	6.652	0.0	3063685.90 4	86.5637	ng/ml	100
T AR1016 4 #2	6.865	0.0	127821.308	5.1589	ng/ml	100
T AR1016 5 #2	7.586	0.0	770241.840	38.0705	ng/ml	100
T AR1260 1	8.428	0.0	973433.607	52.9418	ng/ml	100
T AR1260 2	9.012	0.0	112829.744	3.5276	ng/ml	100
T AR1260 3	9.427	0.0	516196.991	15.8328	ng/ml	100
T AR1260 1 #2	9.686	0.0	1646777.22 2	44.8384	ng/ml	100
T AR1260 4	9.940	0.0	871850.616	53.5378	ng/ml	100
T AR1260 2 #2	9.928	0.0	547919.814	12.4004	ng/ml	100
T AR1260 3 #2	10.367	0.0	519973.353	9.3482	ng/ml	100
T AR1260 5	10.703	0.0	1251521.09 8	47.4975	ng/ml	100
T AR1260 4 #2	10.834	0.0	258447.998	7.9964	ng/ml	100
T AR1260 5 #2	11.578	0.0	1378958.93 8	28.7049	ng/ml	100

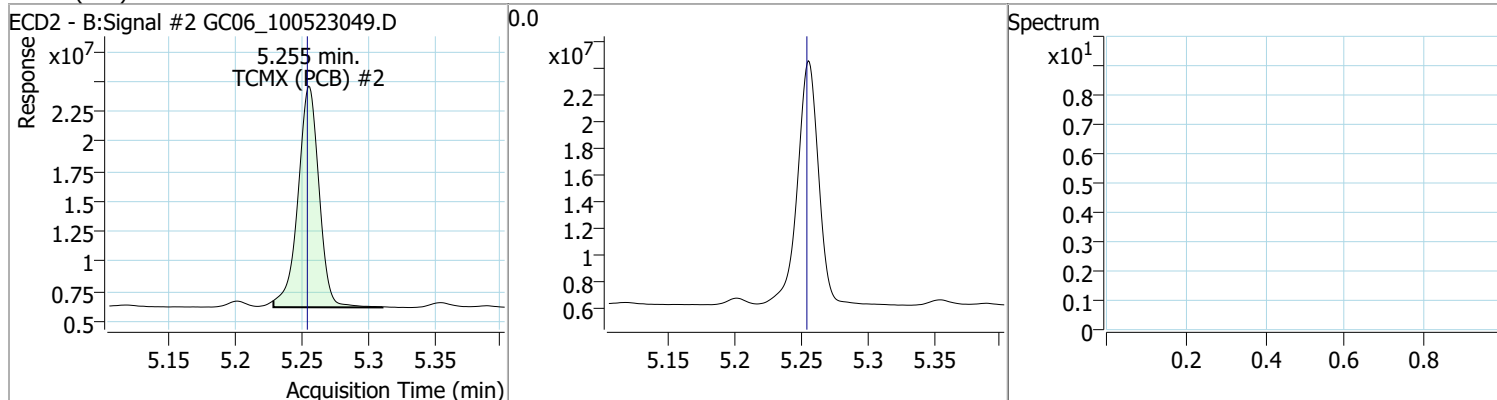
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

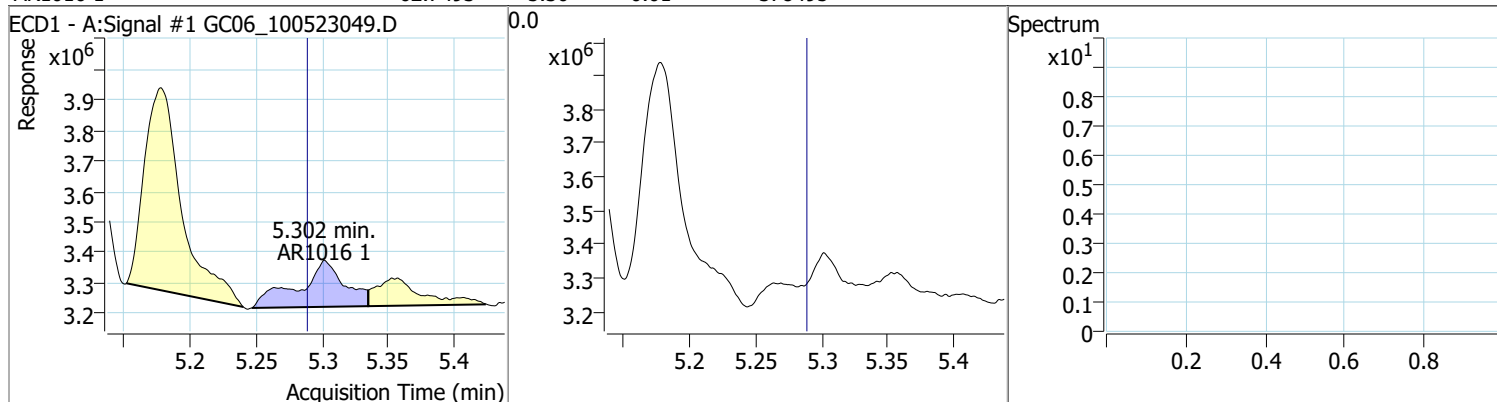
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	31.1218	4.93	0.00	8974273				



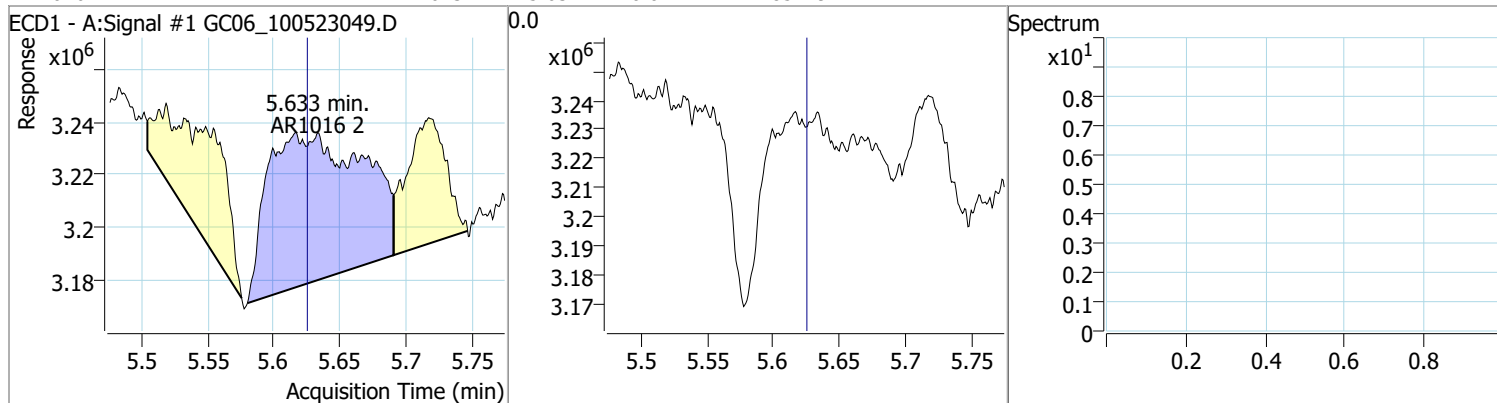
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	31.7211	5.26	0.00	20429213				



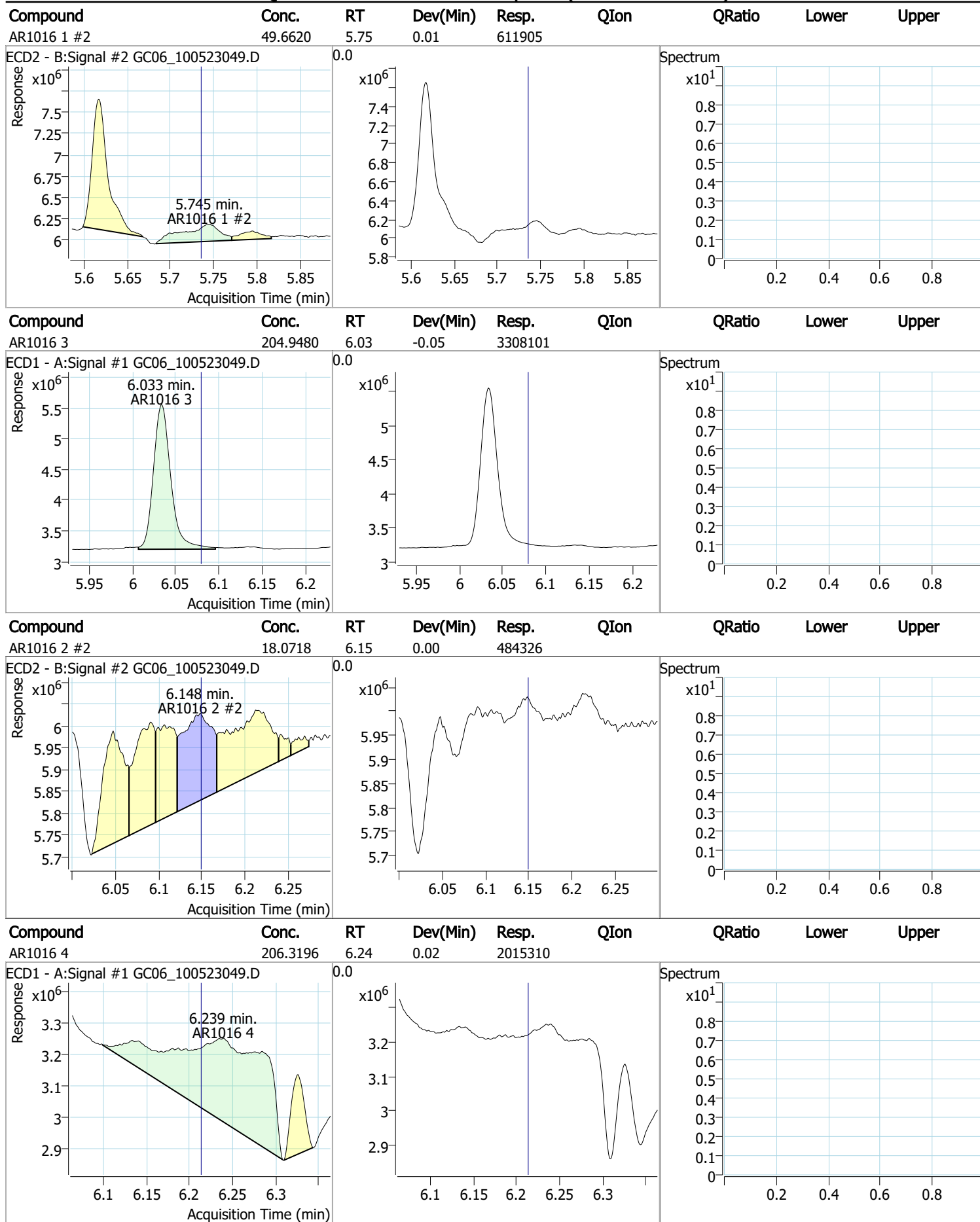
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	62.7493	5.30	0.01	378495				



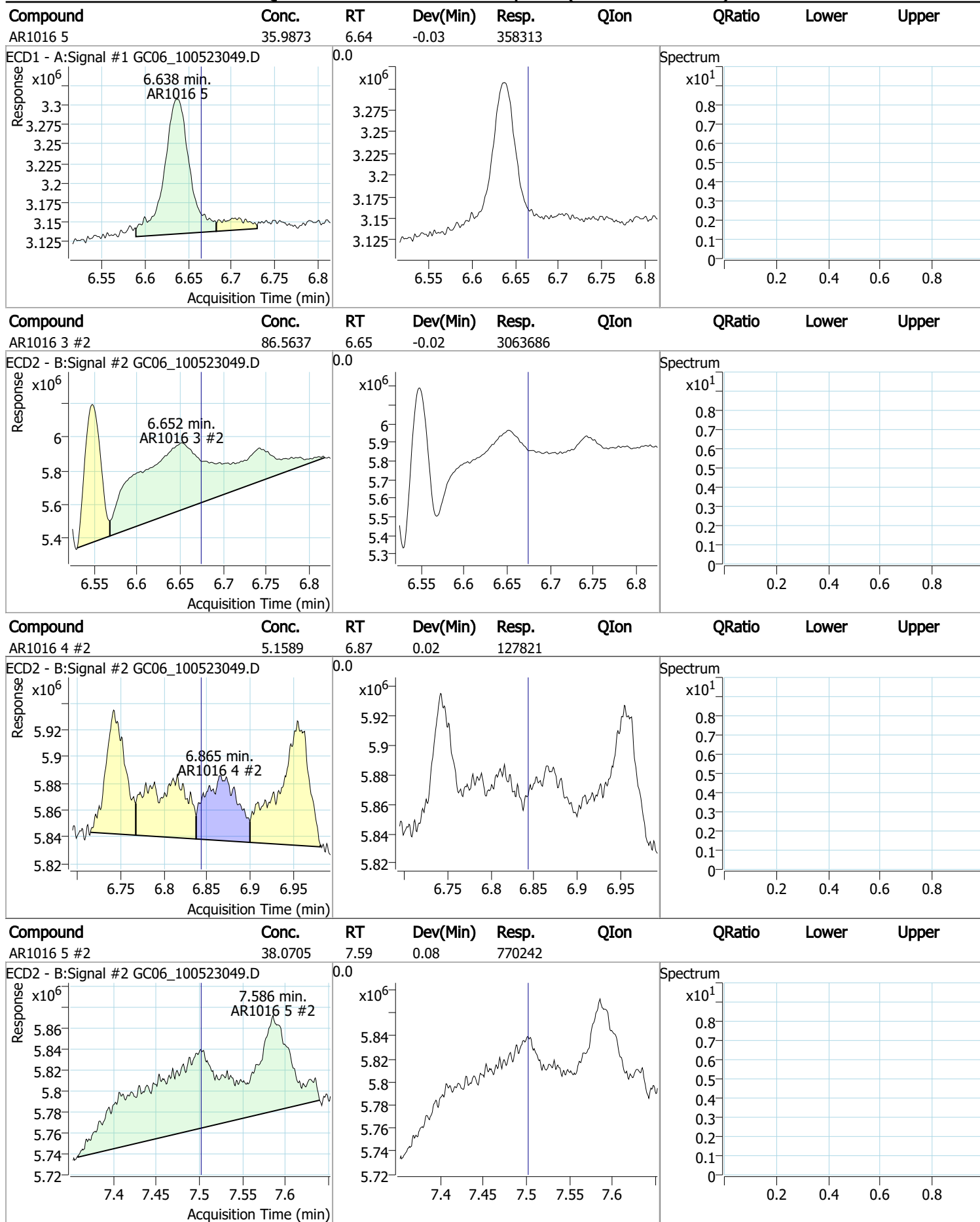
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	22.6737	5.63	0.01	285149				



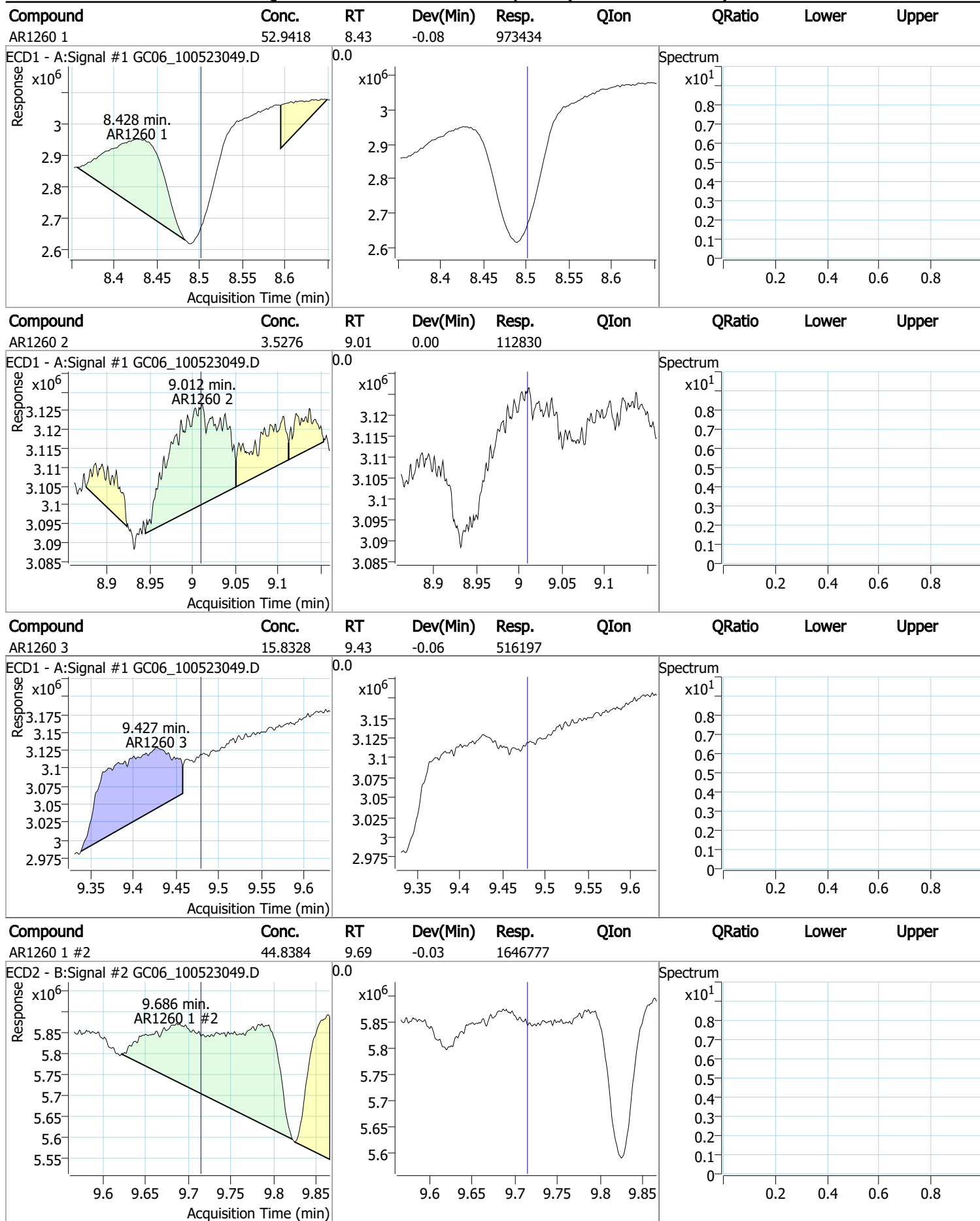
Quantitation Results Report (Not Reviewed)



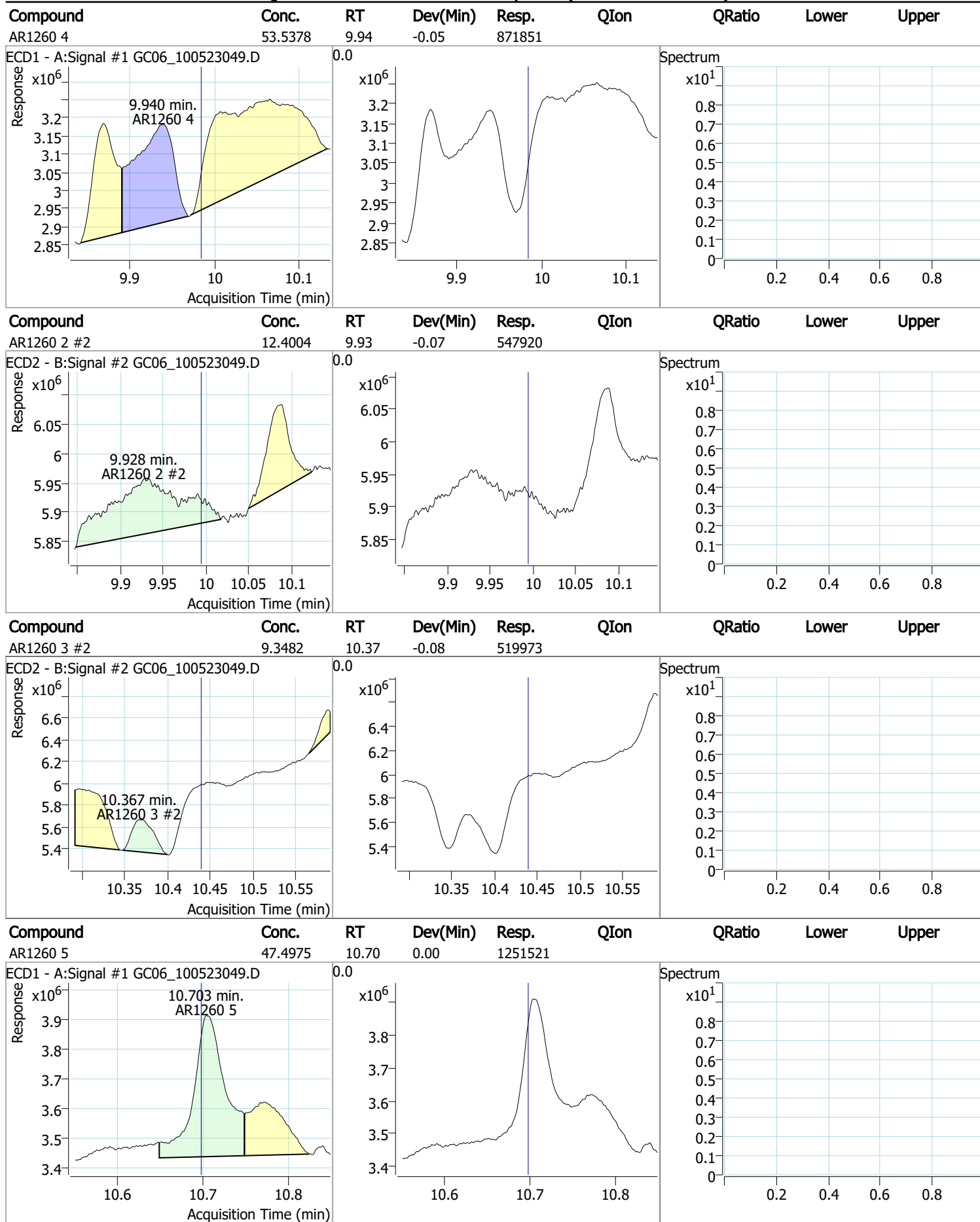
Quantitation Results Report (Not Reviewed)



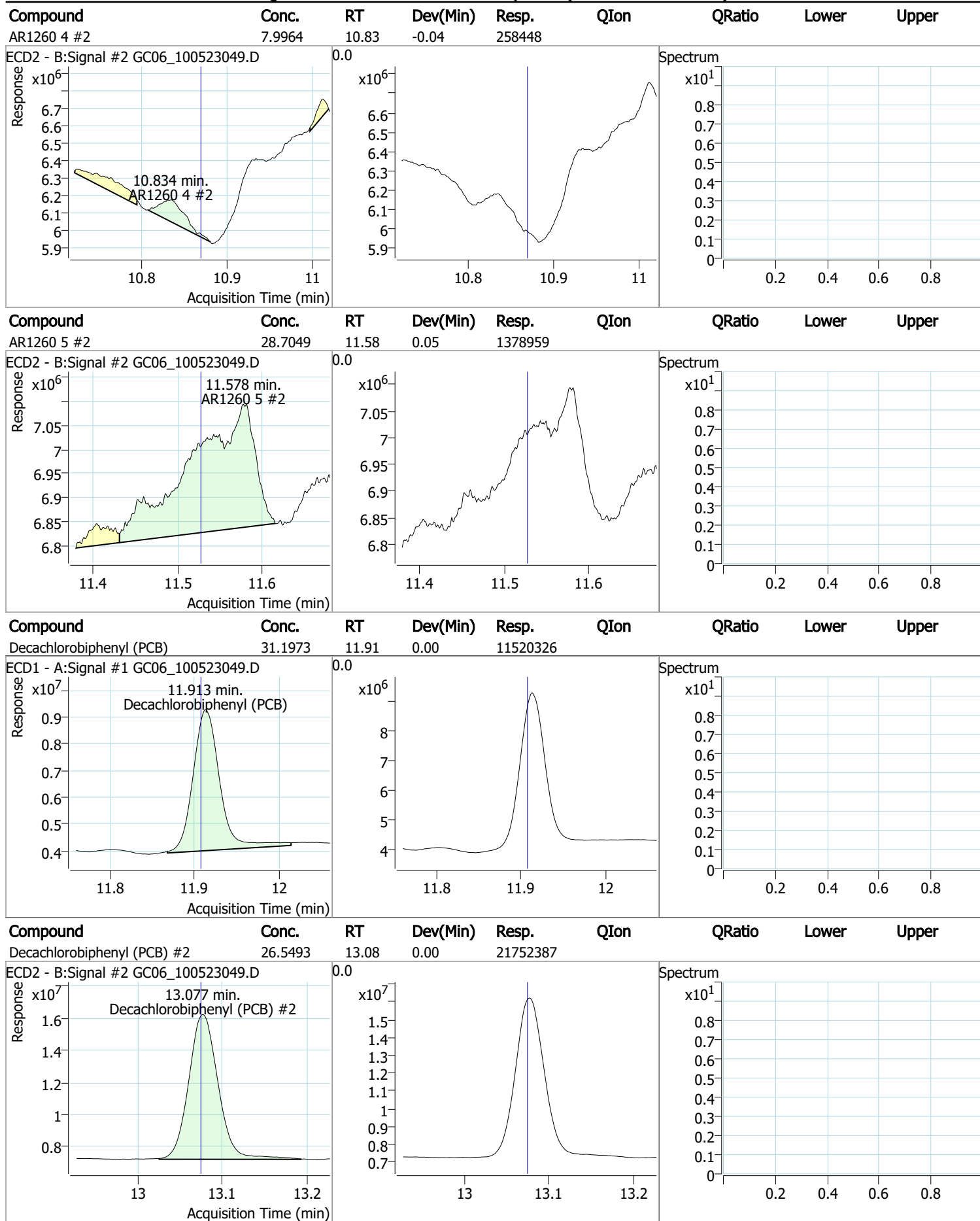
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-005	Client ID: ARCH-C9E-EXT-1 TO 2-231003-P-DUP-WF
Seqnum: 453400820050	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523050	Batch: 323800	Time: 05-OCT-2023 22:46
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	46.67	ND	1.4	101%	0.50		u
Aroclor-1016 Peak # 1	B	61.75	0.62	0.77	22%			
Aroclor-1016 Peak # 2	B	66.17	0.66	0.40	50%			
Aroclor-1016 Peak # 3	B	70.66	0.71	4.23	143%			
Aroclor-1016 Peak # 4	B	11.49	0.11	1.42	170%			
Aroclor-1016 Peak # 5	B	23.29	0.23	0.31	28%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	53.78	0.54 FP	0.39	32%	0.50		x u
Aroclor-1260 Peak # 1	B	24.10	0.24	0.61	86%			
Aroclor-1260 Peak # 2	B	2.695	0.03	0.05	50%			
Aroclor-1260 Peak # 3	B	19.54	0.20	0.01	187%			
Aroclor-1260 Peak # 4	B	193.8	1.94	0.55	112%			
Aroclor-1260 Peak # 5	B	28.72	0.29	0.74	88%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	36.14	0.5000	0.3614	72	19-121	c+ u
Decachlorobiphenyl (PCB)	B	28.09	0.5000	0.2809	56	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	12898943	0.22
1-bromo-2-nitrobenzene (PCB)	A	5358611	5309390	-0.92

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.34	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

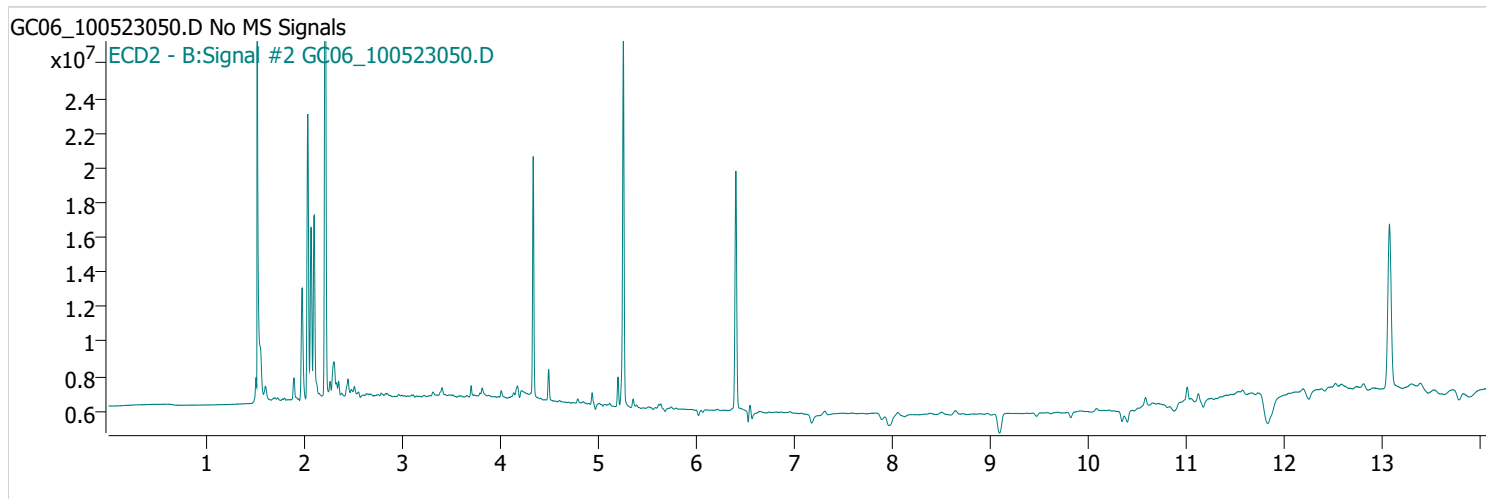
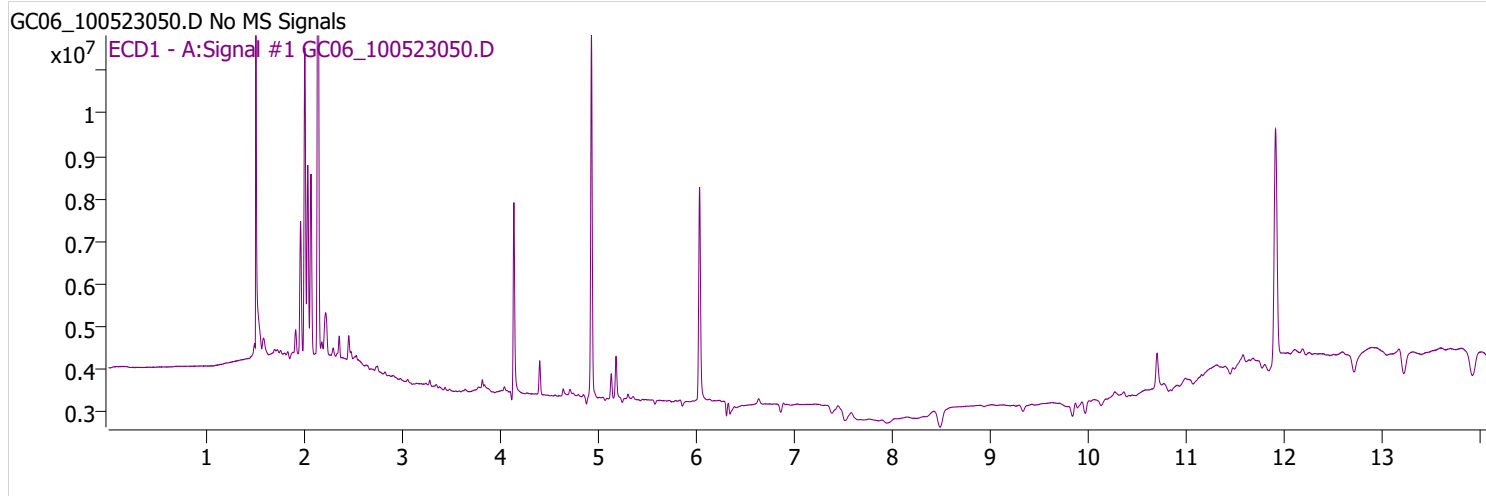
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523050.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 10:46:44 PM
Sample Name	493300-005, 323800, 1	Instrument	SVOA-GC06
Vial	11	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5309389.66 7	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.335	0.0	12898942.5 25	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	9990759.52 1	34.8694	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 174.35%	*	
S TCMX (PCB) #2	5.255	0.0	23095725.9 98	36.1417	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 180.71%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	12115379.2 89	33.0195	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 165.10%	*	
S Decachlorobiphenyl (PCB) #2	13.077	0.0	22836998.4 07	28.0908	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 140.45%		

Target Compounds

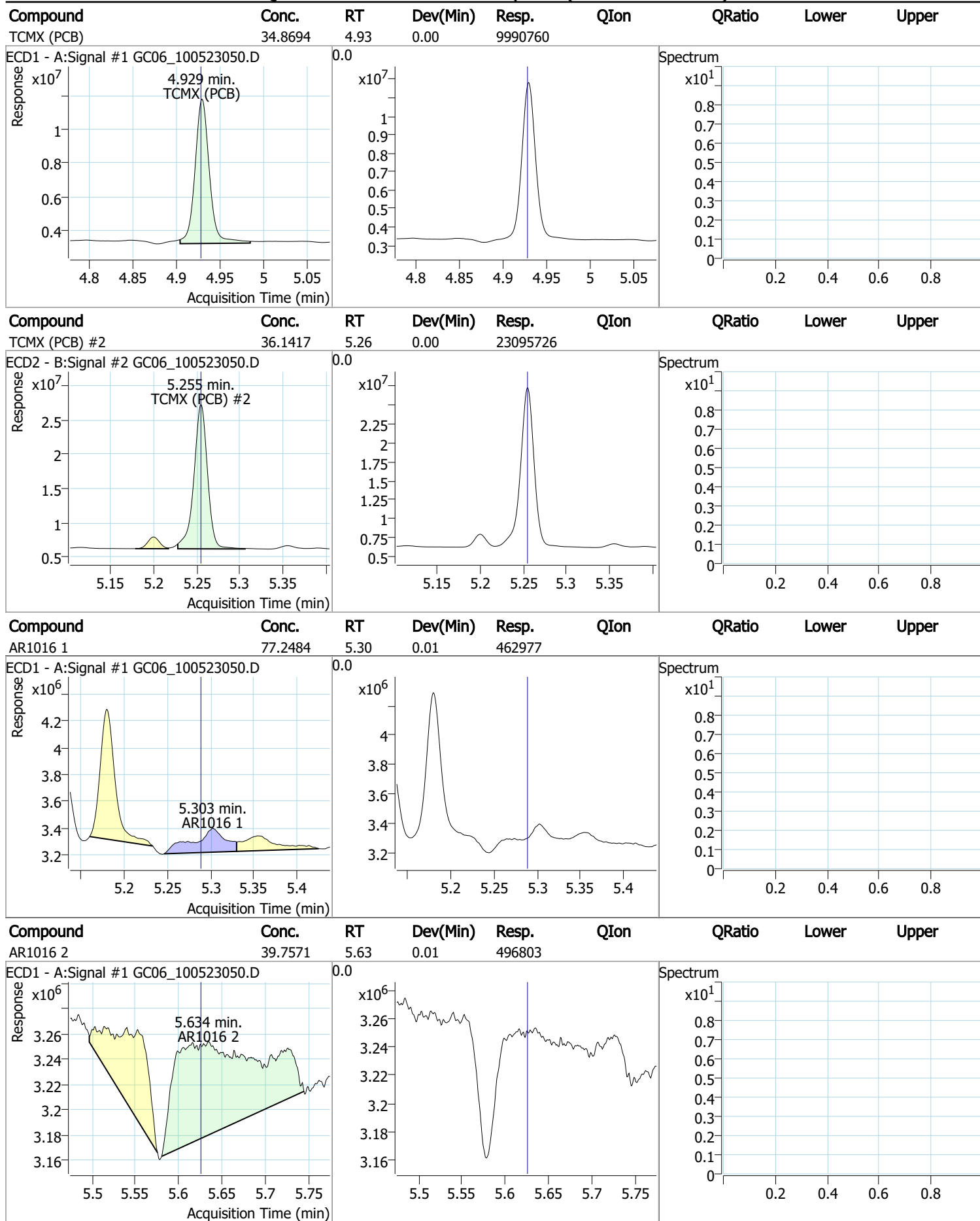
GC06_100523050.D

Quantitation Results Report (Not Reviewed)

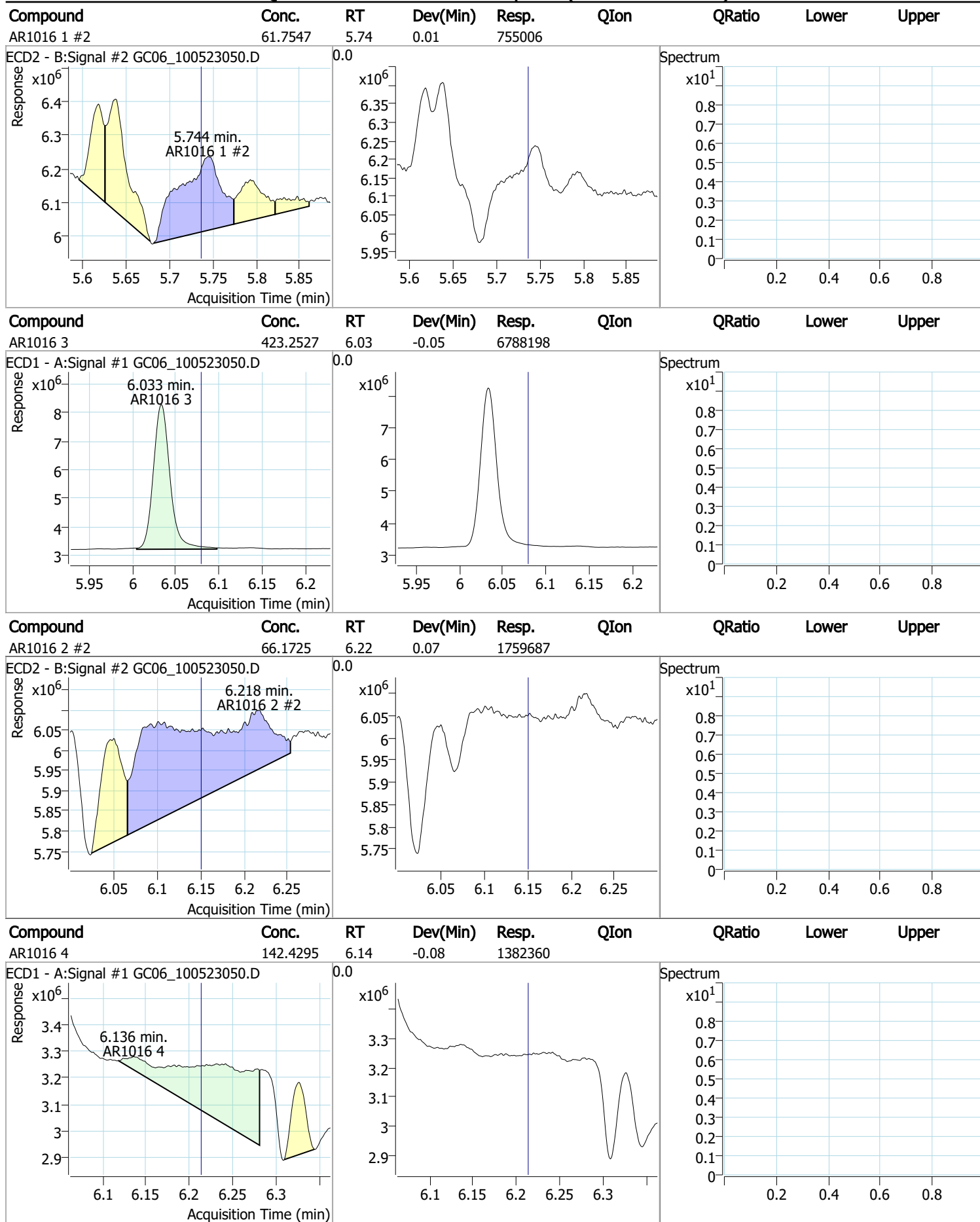
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.303	0.0	462977.435	77.2484	ng/ml	100
T AR1016 2	5.634	0.0	496803.029	39.7571	ng/ml	100
T AR1016 1 #2	5.744	0.0	755006.228	61.7547	ng/ml	100
T AR1016 3	6.033	0.0	6788198.03 5	423.2527	ng/ml	100
T AR1016 2 #2	6.218	0.0	1759687.24 0	66.1725	ng/ml	100
T AR1016 4	6.136	0.0	1382360.37 7	142.4295	ng/ml	100
T AR1016 5	6.636	0.0	304926.546	30.8222	ng/ml	100
T AR1016 3 #2	6.648	0.0	2481365.23 9	70.6581	ng/ml	100
T AR1016 4 #2	6.821	0.0	282396.643	11.4866	ng/ml	100
T AR1016 5 #2	7.498	0.0	467504.529	23.2877	ng/ml	100
T AR1260 1	8.425	0.0	1105329.74 7	60.5013	ng/ml	100
T AR1260 2	9.015	0.0	143352.316	4.5107	ng/ml	100
T AR1260 3	9.607	0.0	21776.847	0.6722	ng/ml	100
T AR1260 1 #2	9.698	0.0	878372.551	24.1031	ng/ml	100
T AR1260 4	9.935	0.0	887510.656	54.8495	ng/ml	100
T AR1260 2 #2	9.991	0.0	118180.758	2.6955	ng/ml	100
T AR1260 3 #2	10.452	0.0	1078698.45 7	19.5446	ng/ml	100
T AR1260 5	10.704	0.0	1941040.99 5	74.1392	ng/ml	100
T AR1260 4 #2	11.012	0.0	6216367.89 4	193.8376	ng/ml	100
T AR1260 5 #2	11.578	0.0	1368980.72 7	28.7198	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

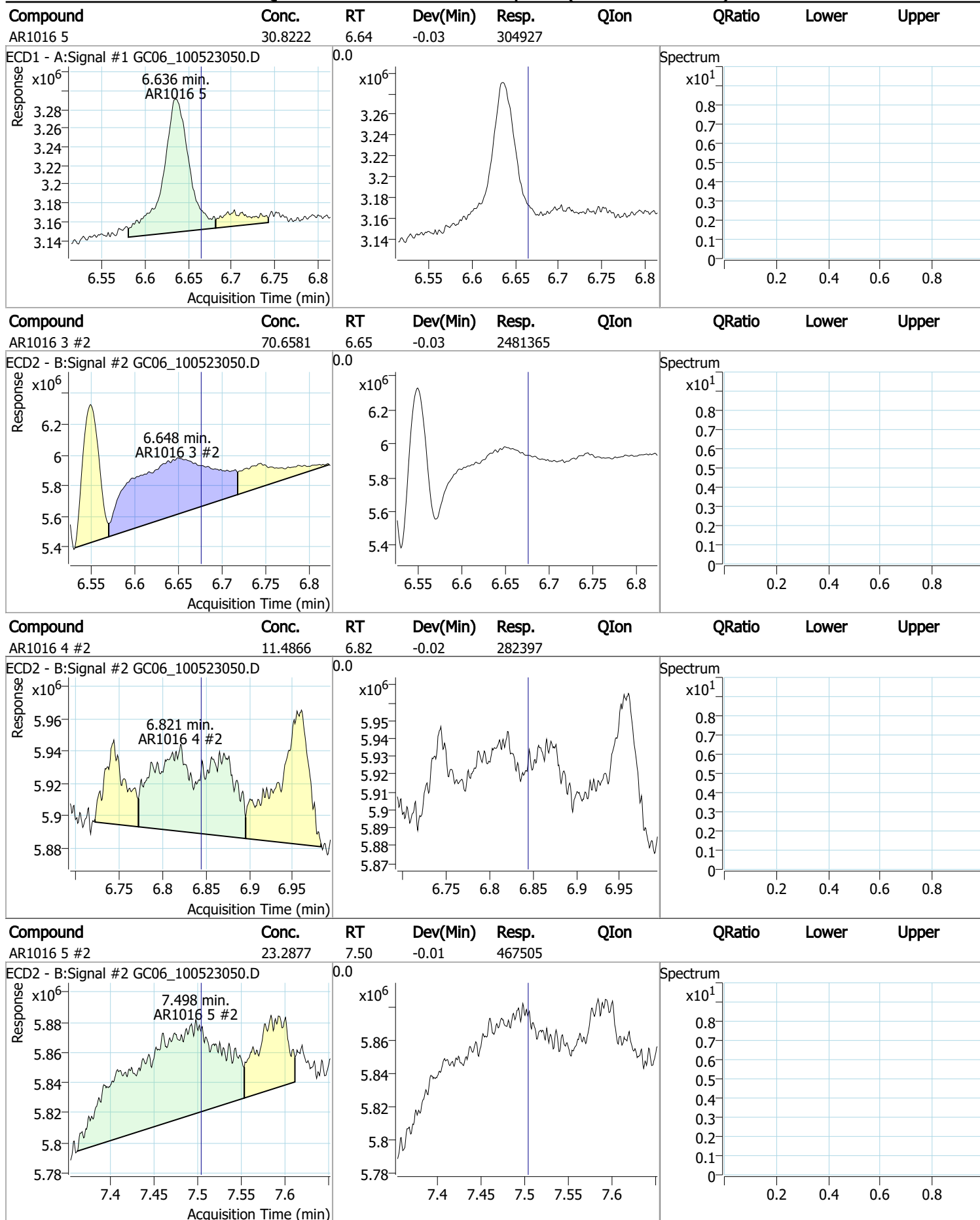
Quantitation Results Report (Not Reviewed)



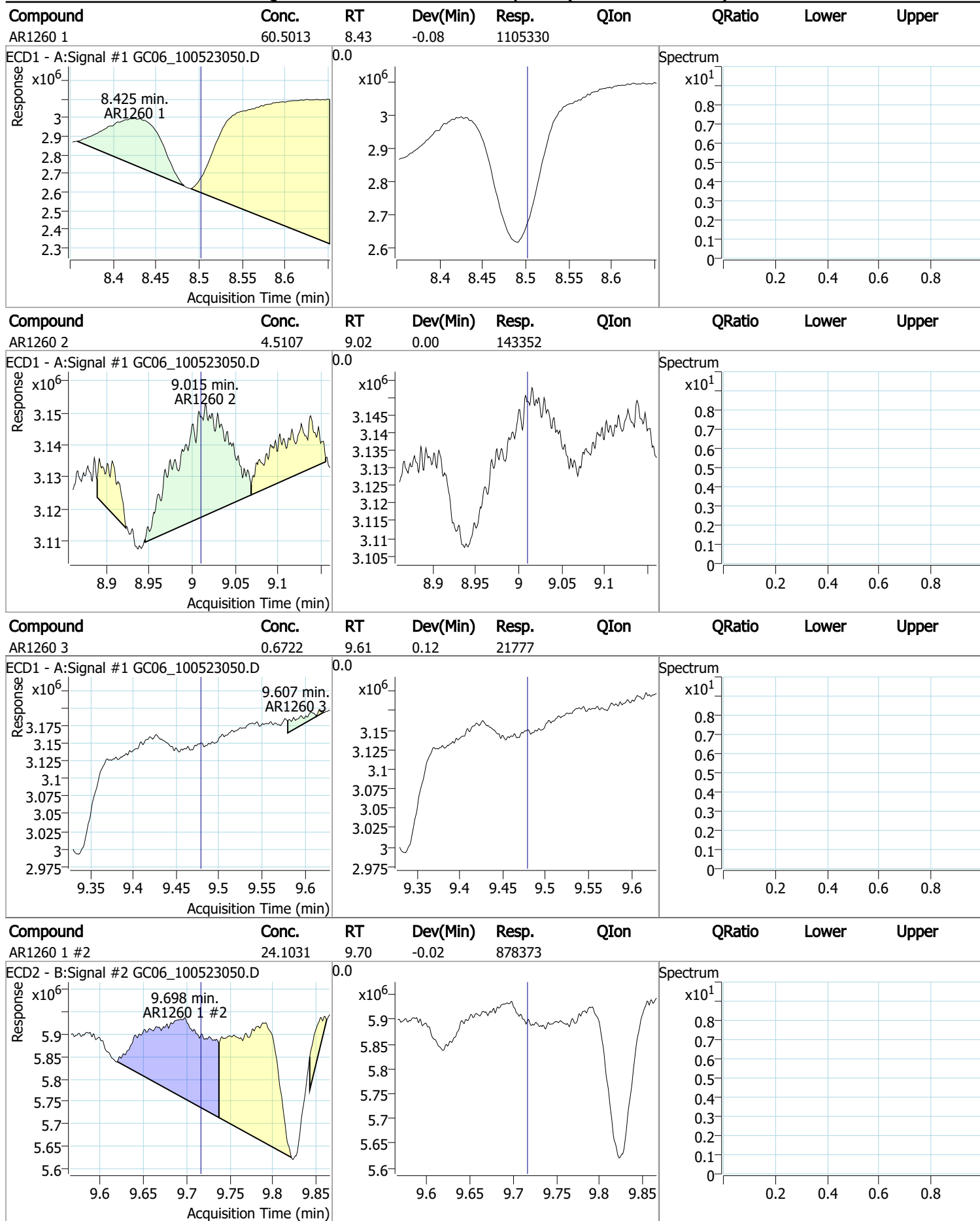
Quantitation Results Report (Not Reviewed)



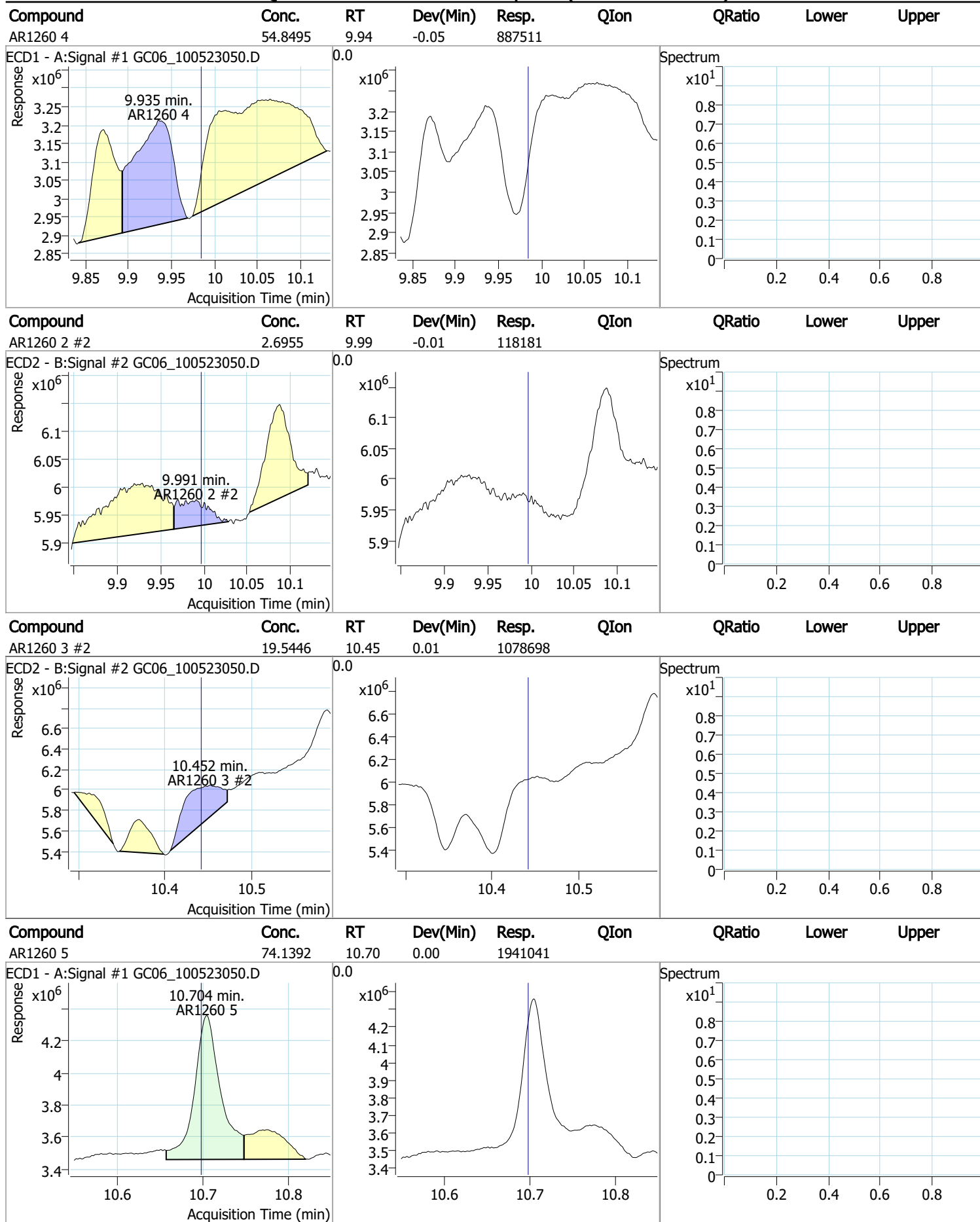
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

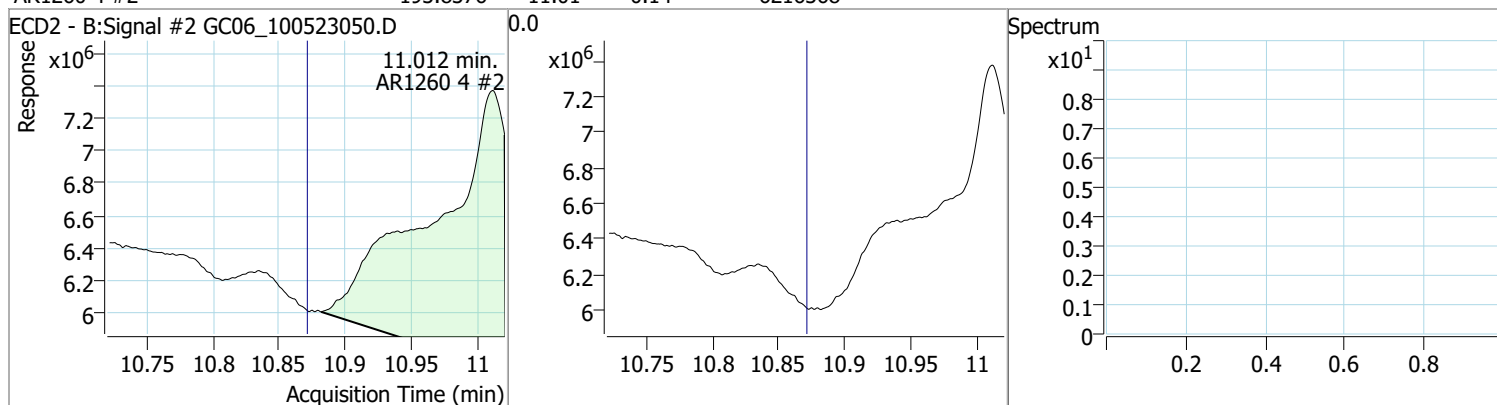


Quantitation Results Report (Not Reviewed)

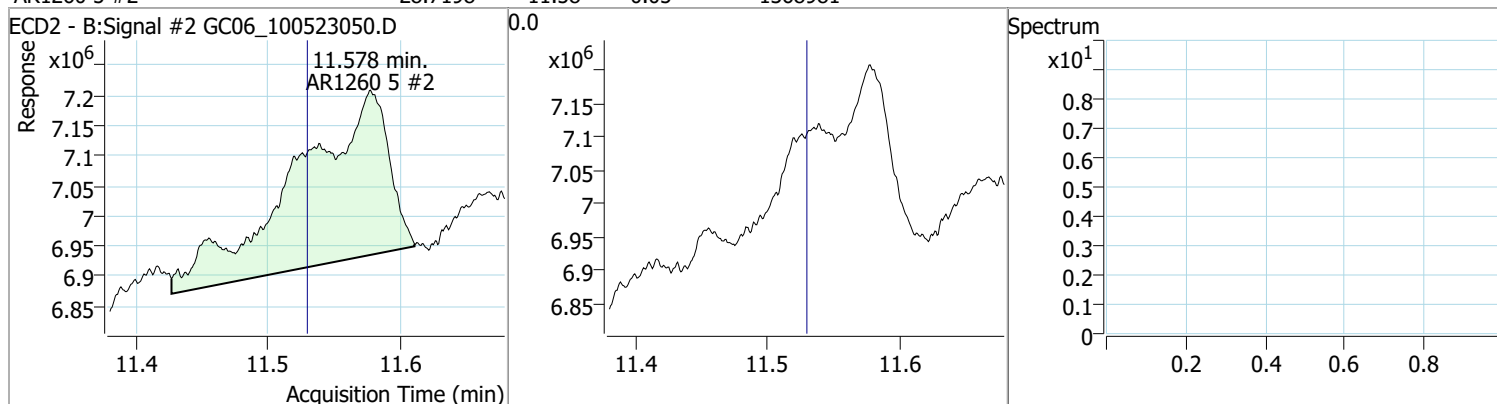


Quantitation Results Report (Not Reviewed)

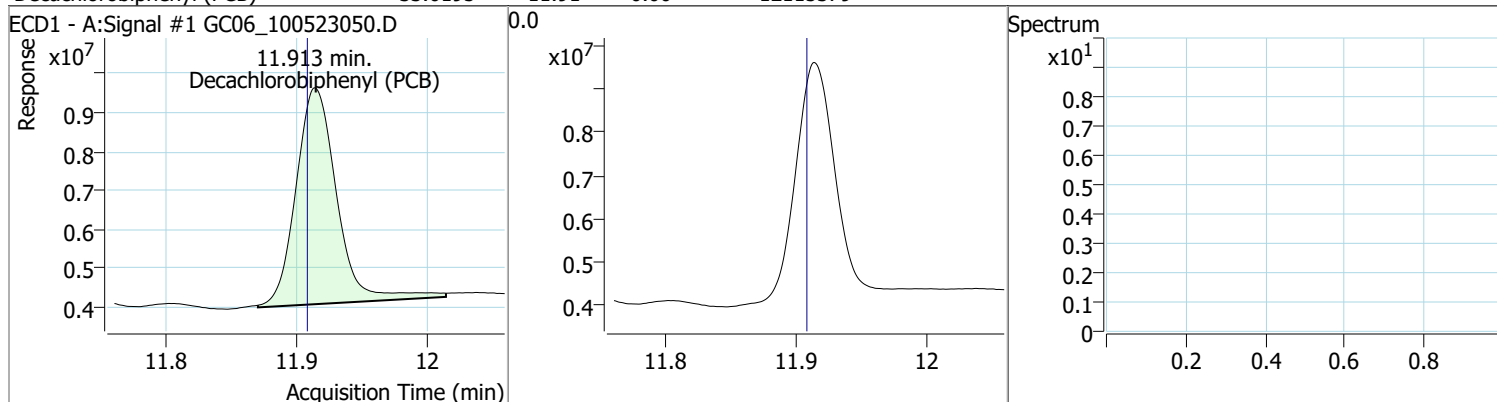
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	193.8376	11.01	0.14	6216368				



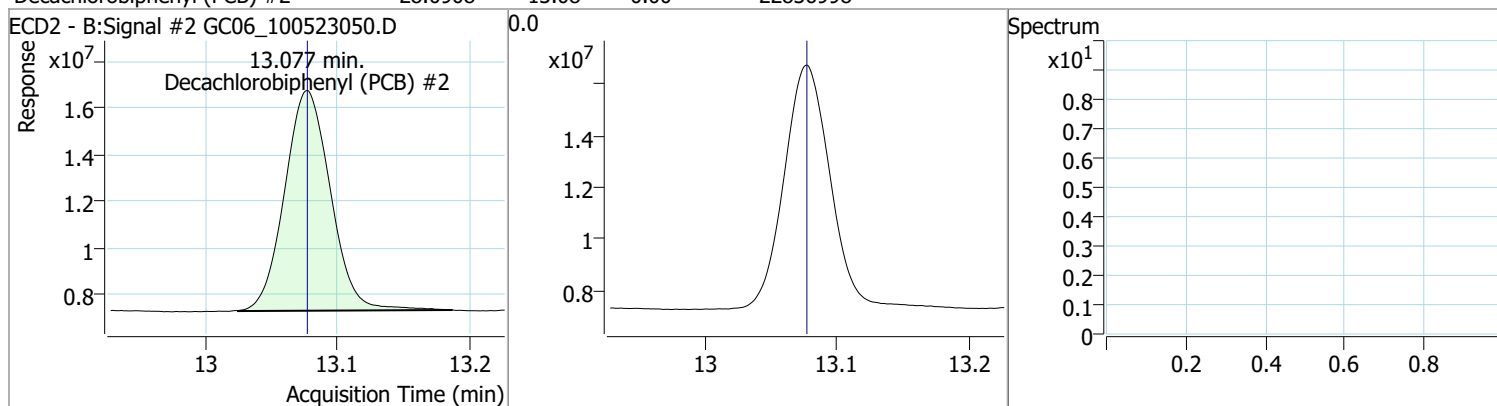
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	28.7198	11.58	0.05	1368981				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	33.0195	11.91	0.00	12115379				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	28.0908	13.08	0.00	22836998				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-007	Client ID: ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-LA
Seqnum: 453400820051	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523051	Batch: 323800	Time: 05-OCT-2023 23:04
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	50.19	0.50 ^{FP} 1.5		100%	0.50		X U
Aroclor-1016 Peak # 1	B	60.58	0.61	0.81	29%			
Aroclor-1016 Peak # 2	B	61.48	0.61	0.37	49%			
Aroclor-1016 Peak # 3	B	81.85	0.82	4.12	134%			
Aroclor-1016 Peak # 4	B	16.02	0.16	1.88	169%			
Aroclor-1016 Peak # 5	B	30.99	0.31	0.32	3%			
Aroclor-1221	B		ND			0.50		U
Aroclor-1232	B		ND			0.50		U
Aroclor-1242	B		ND			0.50		U
Aroclor-1248	B		ND			0.50		U
Aroclor-1254	B		ND			0.50		U
Aroclor-1260	B	41.30	ND	0.38	9%	0.50		U
Aroclor-1260 Peak # 1	B	22.69	0.23	0.51	78%			
Aroclor-1260 Peak # 2	B	2.578	0.03	0.04	53%			
Aroclor-1260 Peak # 3	B	8.033	0.08	ND				
Aroclor-1260 Peak # 4	B	153.6	1.54	0.67	79%			
Aroclor-1260 Peak # 5	B	19.59	0.20	0.67	109%			
Aroclor-1262	B		ND			0.50		U
Aroclor-1268	B		ND			0.50		U

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	34.66	0.5000	0.3466	69	19-121	C+ U
Decachlorobiphenyl (PCB)	B	27.06	0.5000	0.2706	54	19-121	C+ U

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	13279783	3.18
1-bromo-2-nitrobenzene (PCB)	A	5358611	5469523	2.07

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.34	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

10/06/23 : WIPE/1DM^2-10ML

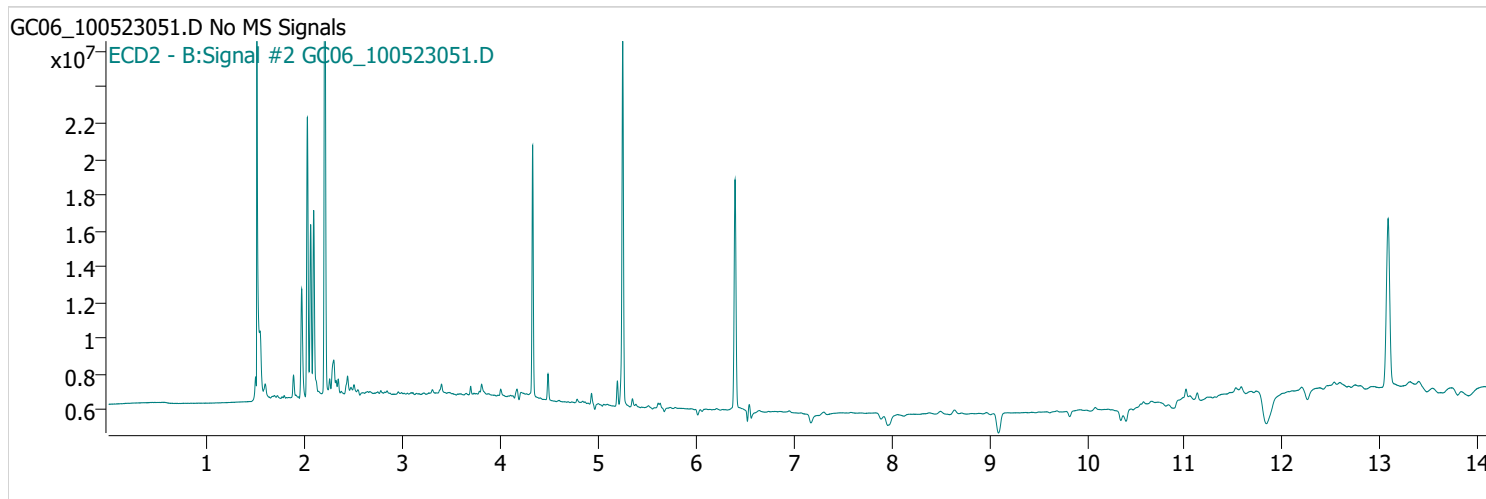
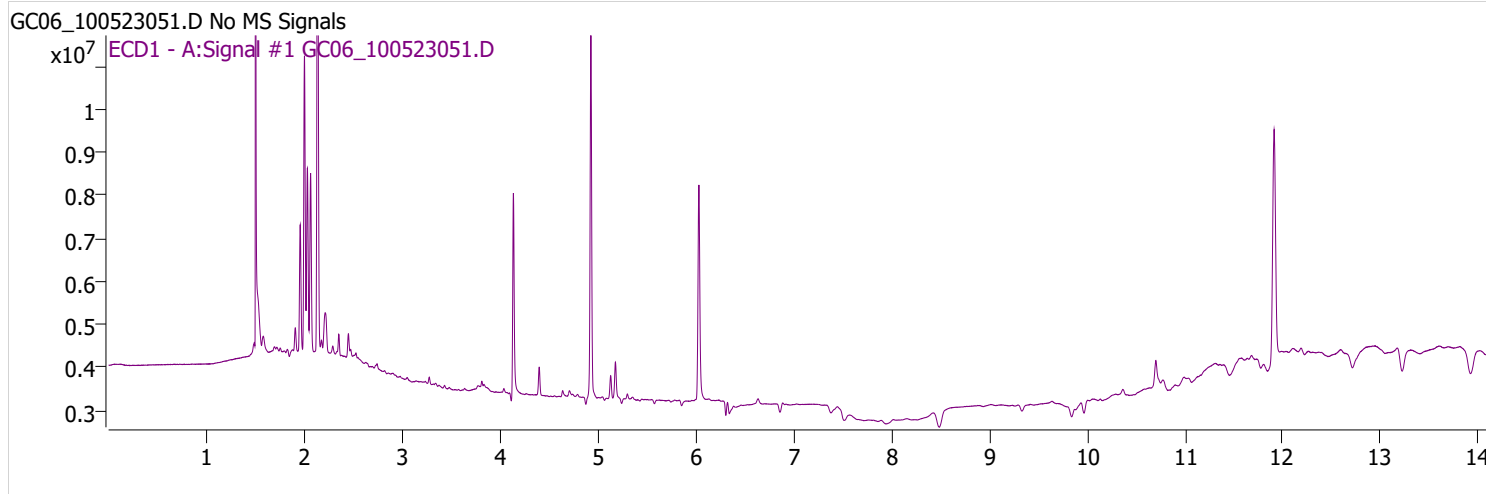
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523051.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 11:04:54 PM
Sample Name	493300-007, 323800, 1	Instrument	SVOA-GC06
Vial	12	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5469523.347	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.335	0.0	13279782.738	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	9916742.286	33.5977	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 167.99%	*	
S TCMX (PCB) #2	5.255	0.0	22803200.581	34.6605	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 173.30%	*	
S Decachlorobiphenyl (PCB)	11.912	0.0	12040084.157	31.8535	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 159.27%	*	
S Decachlorobiphenyl (PCB) #2	13.078	0.0	22651773.584	27.0639	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 135.32%		

Target Compounds

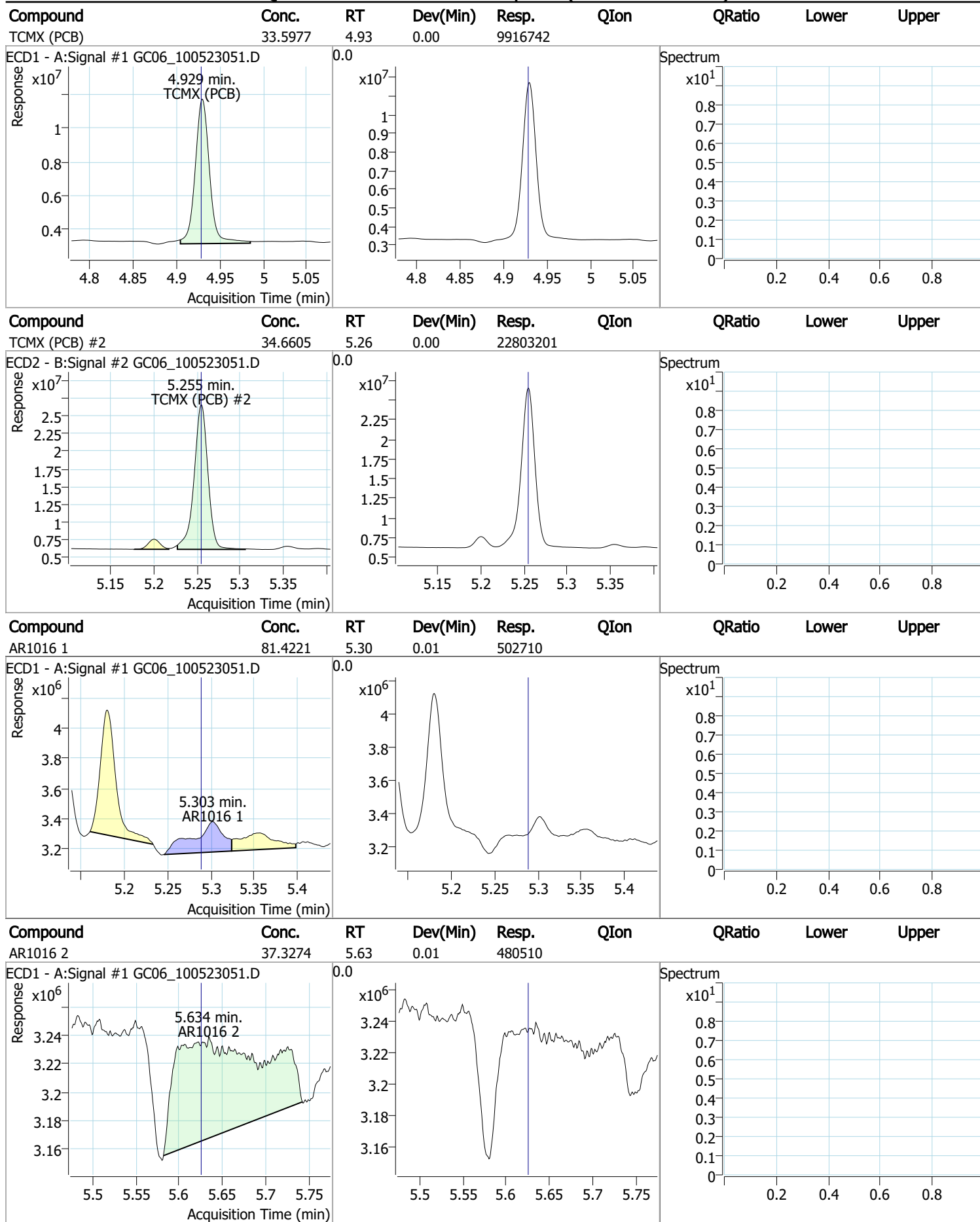
GC06_100523051.D

Quantitation Results Report (Not Reviewed)

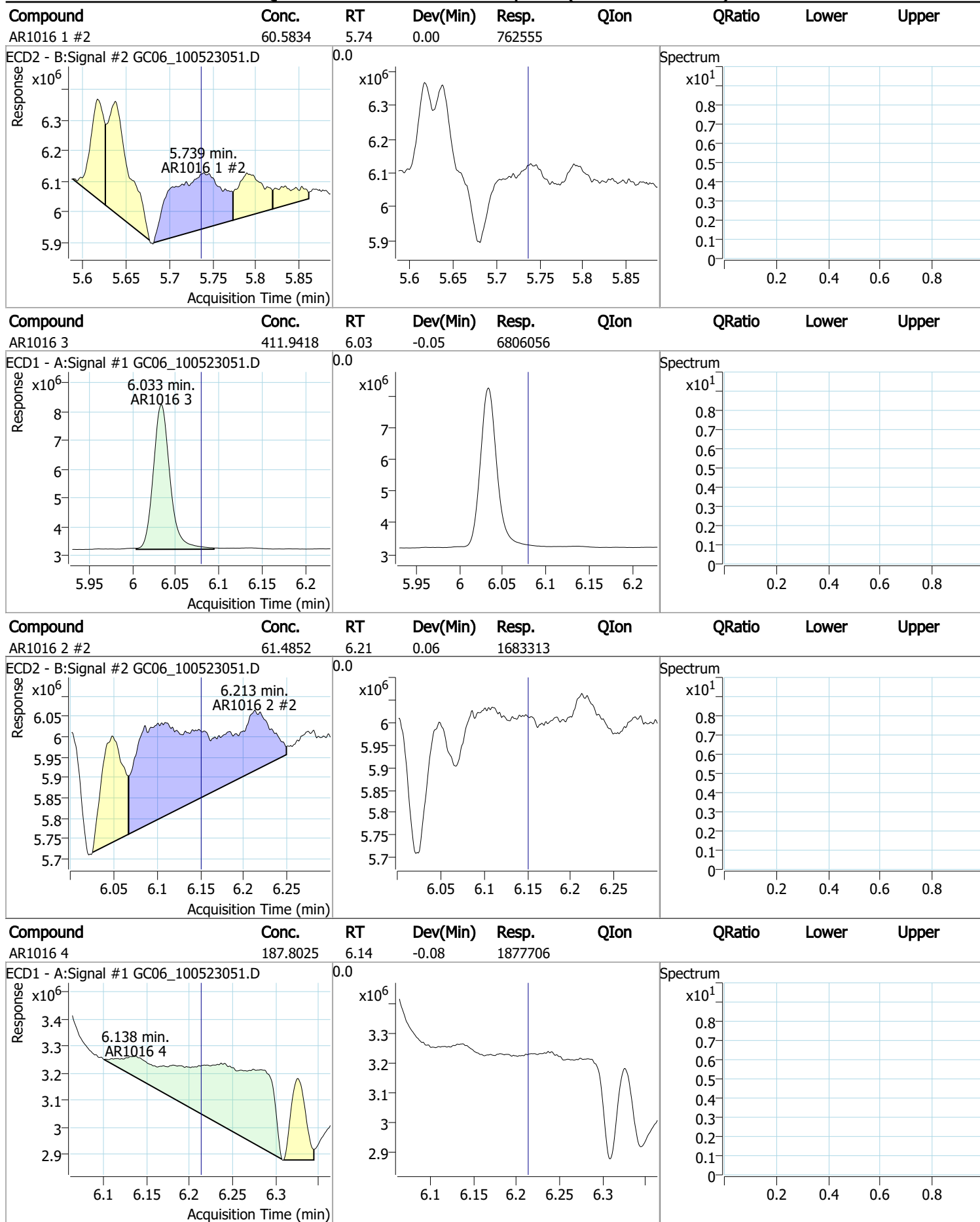
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.303	0.0	502710.229	81.4221	ng/ml	100
T AR1016 2	5.634	0.0	480509.934	37.3274	ng/ml	100
T AR1016 1 #2	5.739	0.0	762554.555	60.5834	ng/ml	100
T AR1016 3	6.033	0.0	6806055.50 1	411.9418	ng/ml	100
T AR1016 2 #2	6.213	0.0	1683313.45 6	61.4852	ng/ml	100
T AR1016 4	6.138	0.0	1877705.59 5	187.8025	ng/ml	100
T AR1016 5	6.639	0.0	324852.858	31.8750	ng/ml	100
T AR1016 3 #2	6.653	0.0	2959479.14 5	81.8558	ng/ml	100
T AR1016 4 #2	6.747	0.0	405446.311	16.0187	ng/ml	100
T AR1016 5 #2	7.583	0.0	640563.759	30.9932	ng/ml	100
T AR1260 1	8.434	0.0	967406.390	51.4016	ng/ml	100
T AR1260 2	9.014	0.0	145874.750	4.4556	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.692	0.0	851205.582	22.6878	ng/ml	100
T AR1260 4	9.938	0.0	1108800.78 5	66.5193	ng/ml	100
T AR1260 2 #2	9.995	0.0	116359.535	2.5779	ng/ml	100
T AR1260 3 #2	10.368	0.0	456442.288	8.0330	ng/ml	100
T AR1260 5	10.703	0.0	1799116.04 9	66.7064	ng/ml	100
T AR1260 4 #2	11.013	0.0	5072243.59 7	153.6260	ng/ml	100
T AR1260 5 #2	11.522	0.0	961486.934	19.5925	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

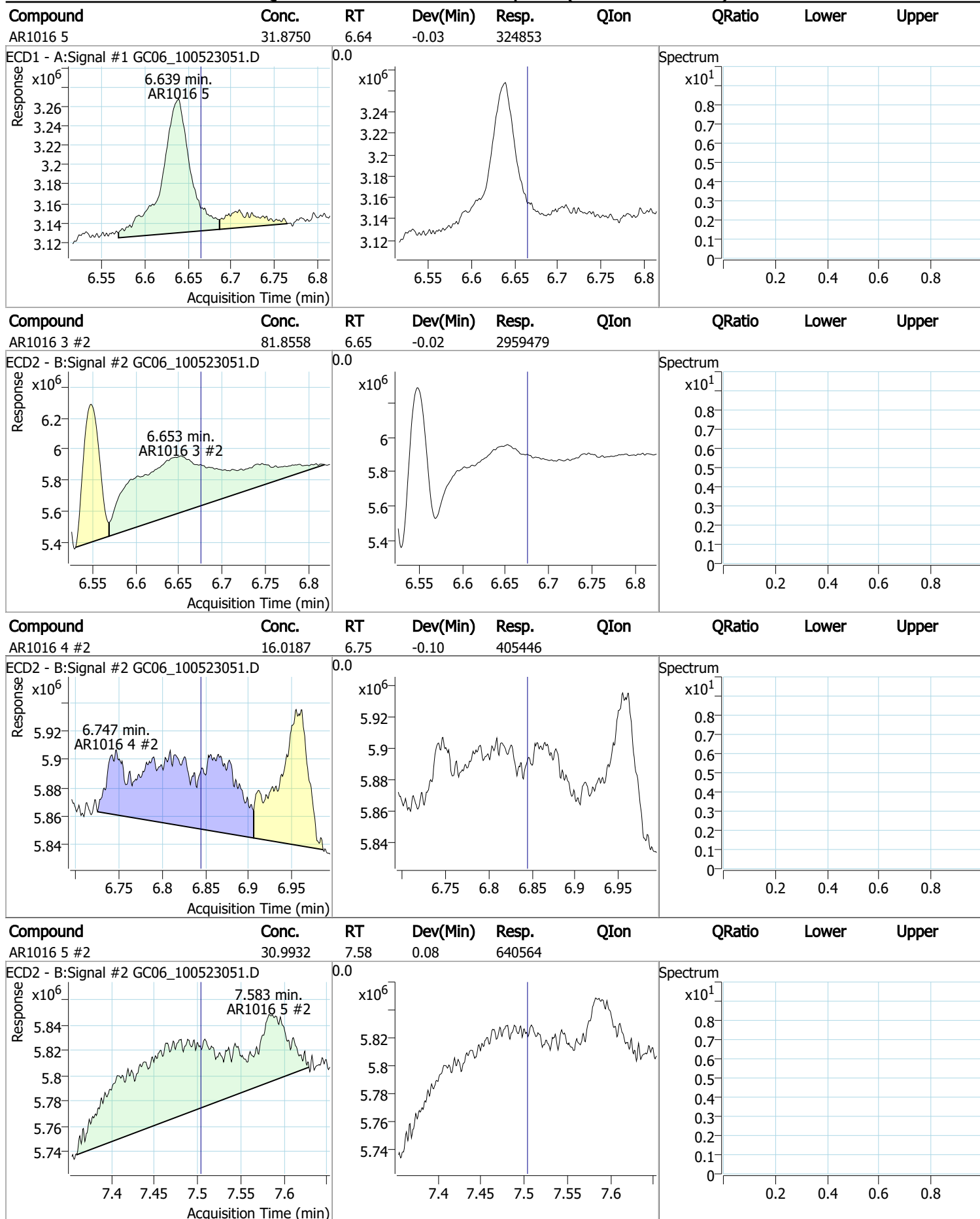
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

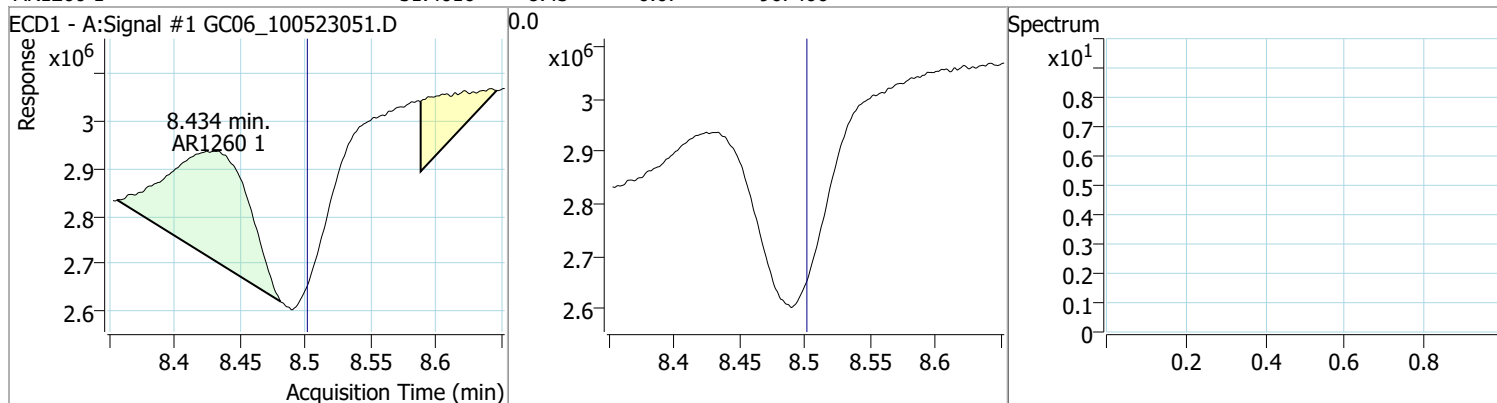


Quantitation Results Report (Not Reviewed)

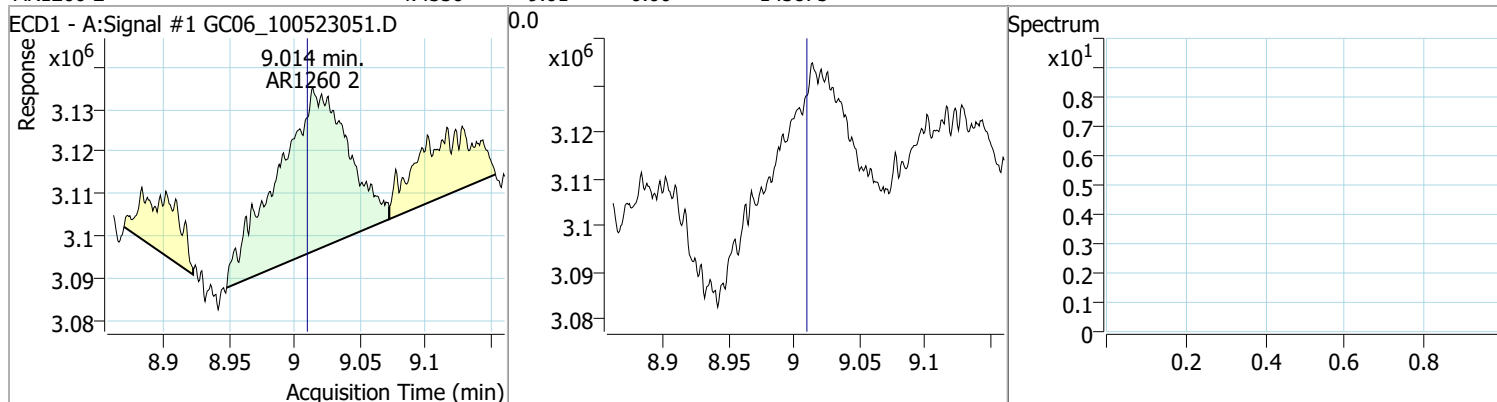


Quantitation Results Report (Not Reviewed)

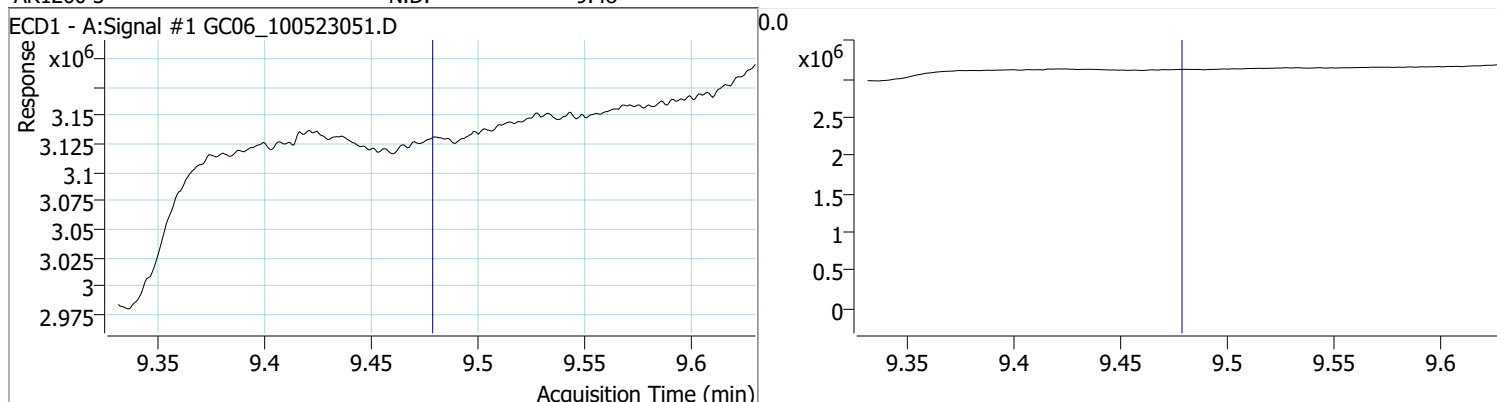
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	51.4016	8.43	-0.07	967406				



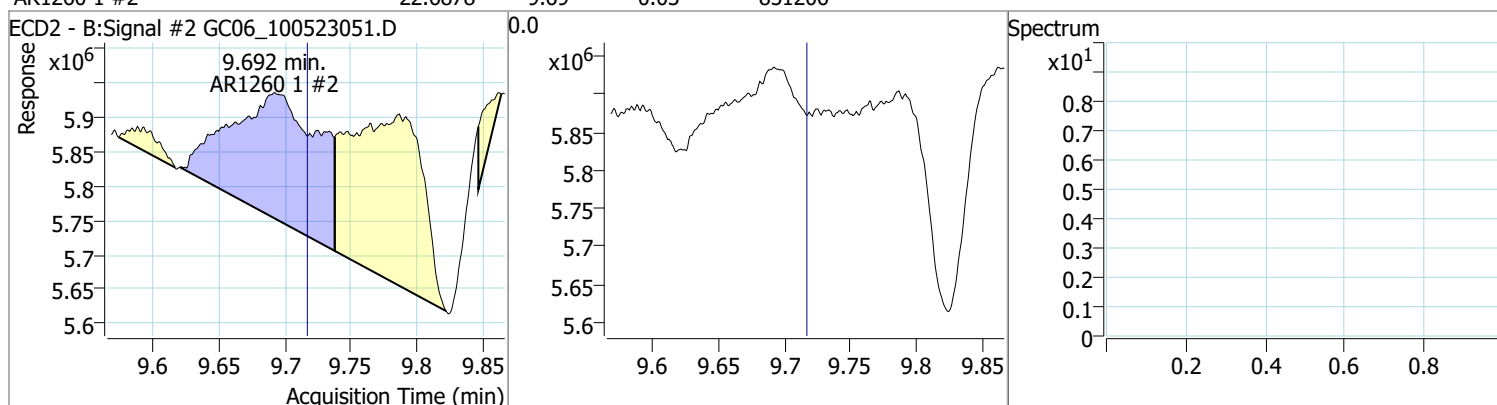
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	4.4556	9.01	0.00	145875				



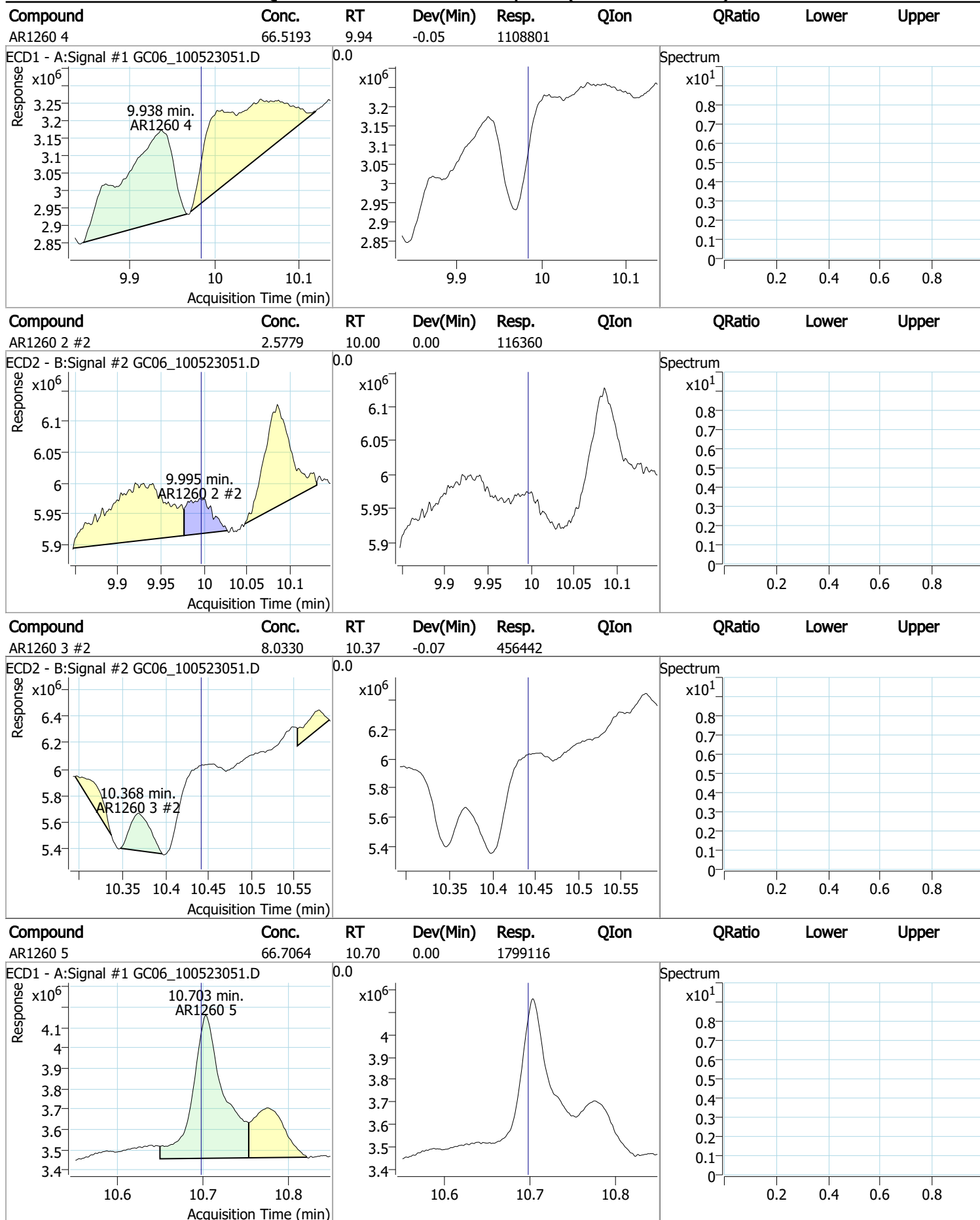
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.48		



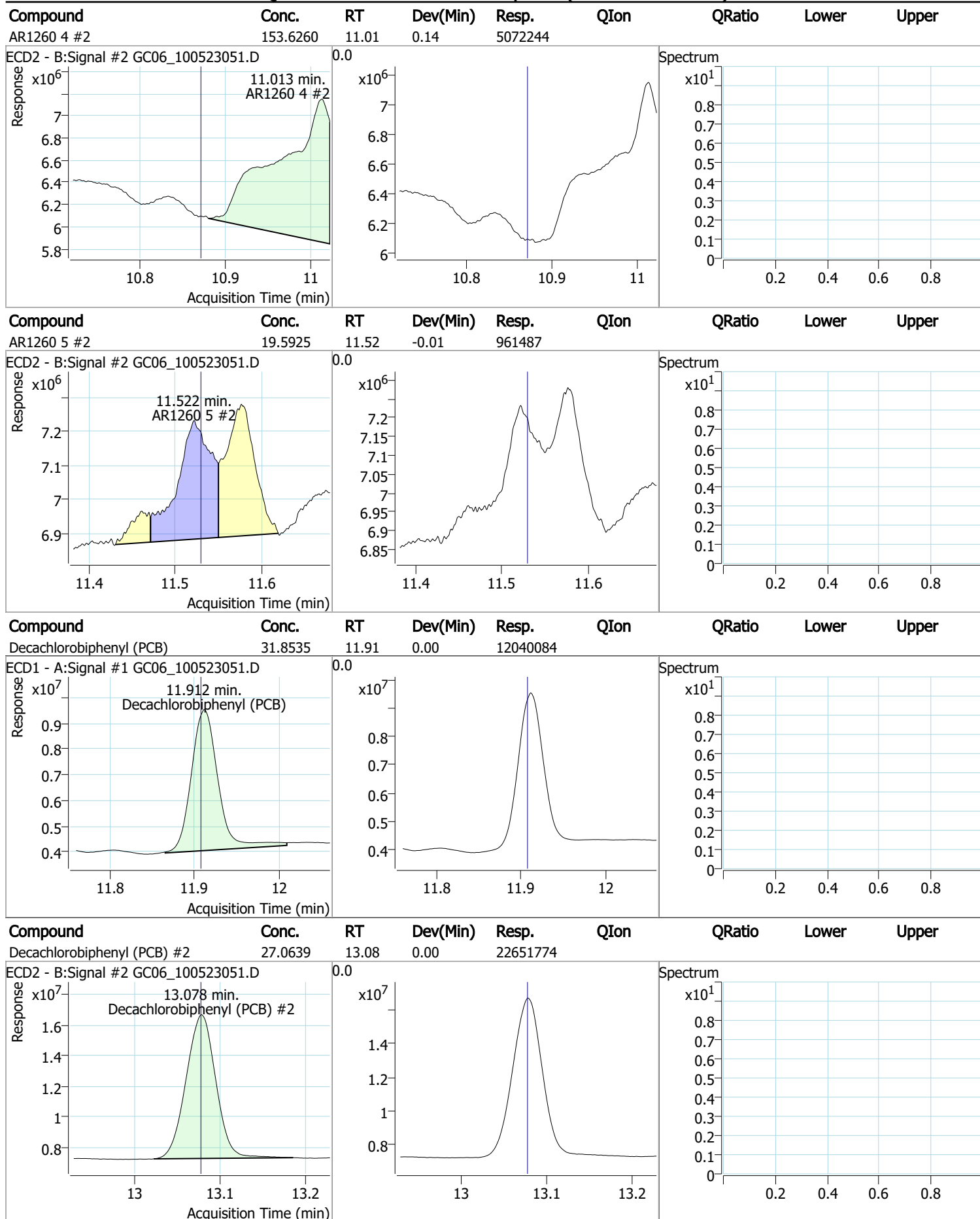
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	22.6878	9.69	-0.03	851206				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-008	Client ID: ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-DUP-LA
Seqnum: 453400820052	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523052	Batch: 323800	Time: 05-OCT-2023 23:23
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	36.57	ND	1.1	102%	0.50		u
Aroclor-1016 Peak # 1	B	57.21	0.57	0.92	46%			
Aroclor-1016 Peak # 2	B	30.19	0.30	0.38	24%			
Aroclor-1016 Peak # 3	B	70.25	0.70	1.89	92%			
Aroclor-1016 Peak # 4	B	8.639	0.09	2.01	184%			
Aroclor-1016 Peak # 5	B	16.57	0.17	0.41	86%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	12.86	ND	0.33	88%	0.50		u
Aroclor-1260 Peak # 1	B	29.91	0.30	0.41	31%			
Aroclor-1260 Peak # 2	B	2.416	0.02	0.04	40%			
Aroclor-1260 Peak # 3	B	6.459	0.06	0.10	43%			
Aroclor-1260 Peak # 4	B	5.656	0.06	0.54	162%			
Aroclor-1260 Peak # 5	B	19.86	0.20	0.58	97%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	33.56	0.5000	0.3356	67	19-121	c+ u
Decachlorobiphenyl (PCB)	B	27.20	0.5000	0.2720	54	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	13795858	7.19
1-bromo-2-nitrobenzene (PCB)	A	5358611	5633833	5.14

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.33	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

10/06/23 : WIPE/1DM^2-10ML

+ = high bias c = CCV u = use

Analyst: TRN 10/06/23

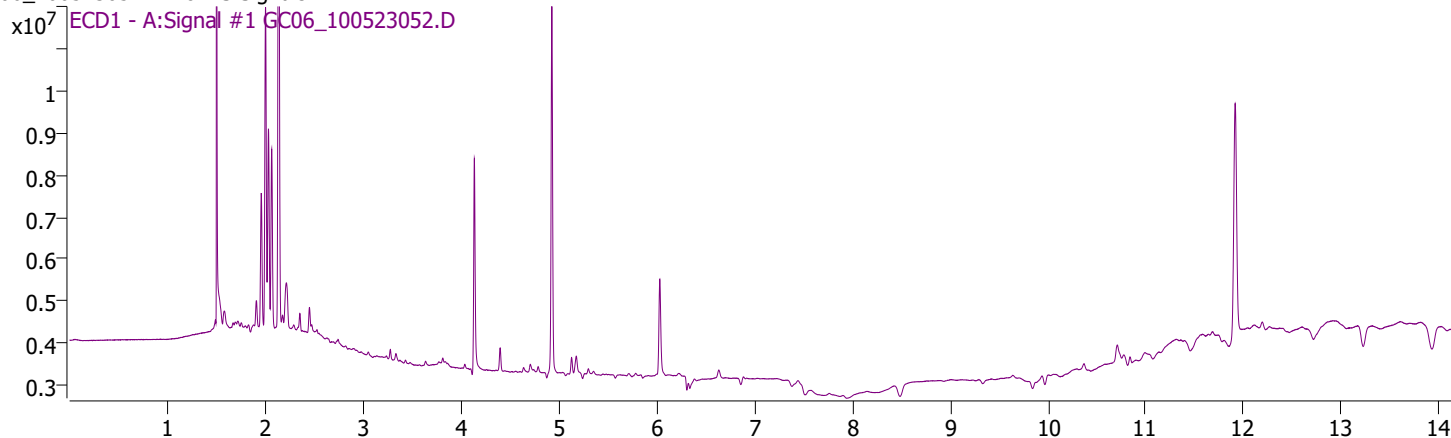
Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

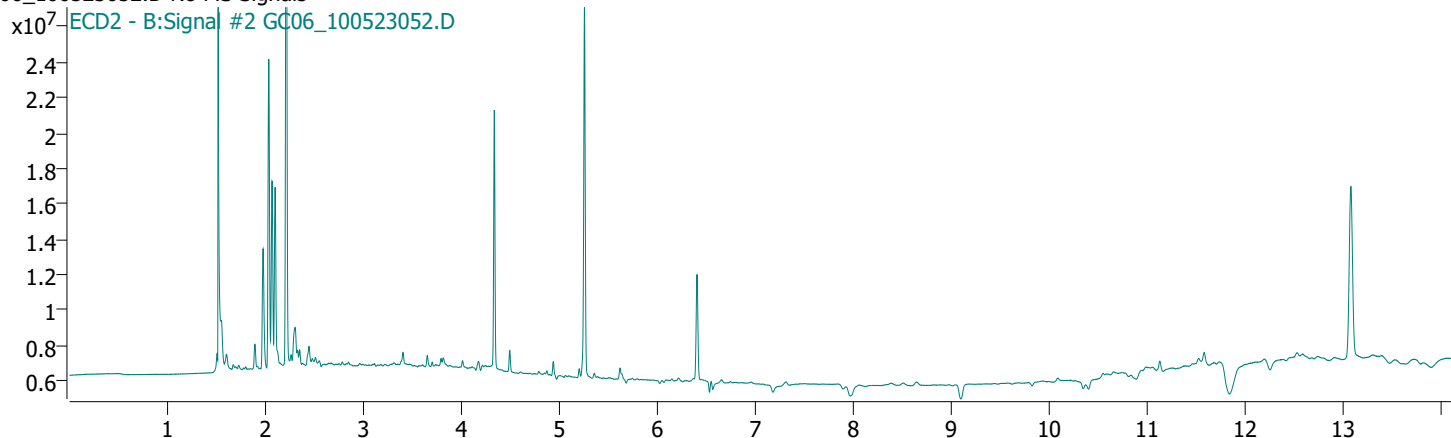
Data File GC06_100523052.D
 Acq. Method Acq_Pesticide_122221_2
 Sample Name 493300-008, 323800, 1
 Vial 13
 DA Method File PCB_608_100523_GC06_1.m
 Tune File ATUNE.U
 Batch Name 100523PCBICAL.batch.bin
 Ref Library

Operator
 Acq. Date-Time 10/5/2023 11:23:06 PM
 Instrument SVOA-GC06
 Multiplier 1.00
 Comment WIPE/1DM^2-10ML
 Tune Date
 Last Calib Update 10/5/2023 6:33:52 PM

GC06_100523052.D No MS Signals



GC06_100523052.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.137	0.0	5633832.71 9	20.0000	ng/ml	-0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.334	0.0	13795857.7 40	20.0000	ng/ml	-0.002
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	9863968.05 4	32.4443	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 162.22%	*	
S TCMX (PCB) #2	5.254	0.0	22935224.5 06	33.5571	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 167.79%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	12184252.0 69	31.2948	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 156.47%	*	
S Decachlorobiphenyl (PCB) #2	13.077	0.0	23650724.8 57	27.2004	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 136.00%		

Target Compounds

QValue

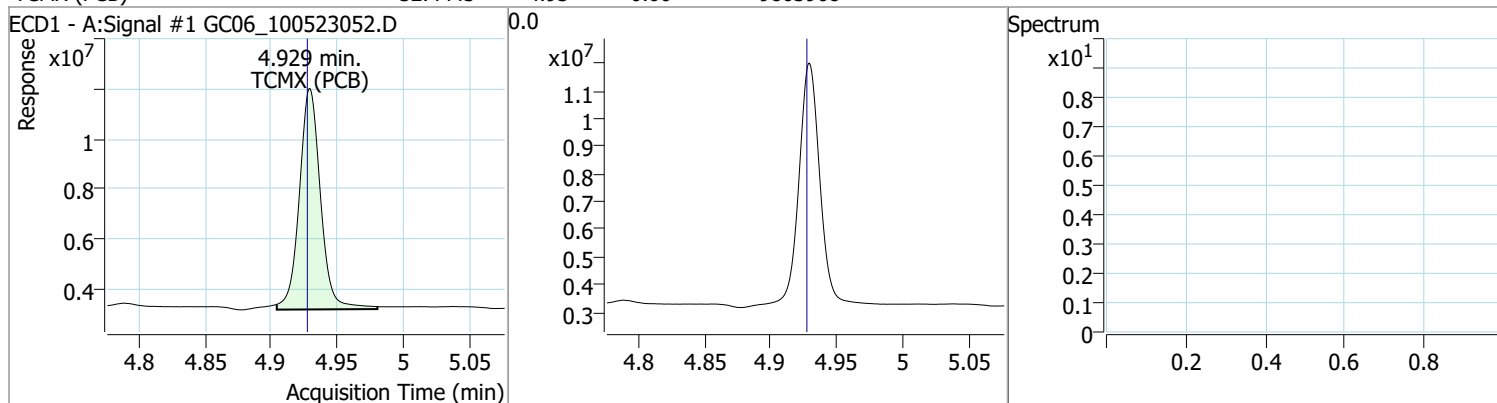
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.303	0.0	583483.489	91.7484	ng/ml	100
T AR1016 2	5.718	0.0	509126.838	38.3970	ng/ml	100
T AR1016 1 #2	5.743	0.0	748023.129	57.2058	ng/ml	100
T AR1016 3	6.033	0.0	3214136.55 1	188.8645	ng/ml	100
T AR1016 2 #2	6.148	0.0	858676.467	30.1910	ng/ml	100
T AR1016 4	6.225	0.0	2074653.43 4	201.4490	ng/ml	100
T AR1016 5	6.636	0.0	434152.479	41.3572	ng/ml	100
T AR1016 3 #2	6.653	0.0	2638605.81 3	70.2508	ng/ml	100
T AR1016 4 #2	6.780	0.0	227171.255	8.6395	ng/ml	100
T AR1016 5 #2	7.496	0.0	355736.840	16.5682	ng/ml	100
T AR1260 1	8.429	0.0	790632.634	40.7839	ng/ml	100
T AR1260 2	9.016	0.0	121697.242	3.6087	ng/ml	100
T AR1260 3	9.415	0.0	343632.195	9.9967	ng/ml	100
T AR1260 1 #2	9.782	0.0	1165757.50 6	29.9094	ng/ml	100
T AR1260 4	9.939	0.0	919386.224	53.5473	ng/ml	100
T AR1260 2 #2	9.991	0.0	113281.093	2.4158	ng/ml	100
T AR1260 3 #2	10.371	0.0	381300.840	6.4595	ng/ml	100
T AR1260 5	10.710	0.0	1598420.96 8	57.5367	ng/ml	100
T AR1260 4 #2	10.830	0.0	193998.876	5.6560	ng/ml	100
T AR1260 5 #2	11.523	0.0	1012394.56 0	19.8581	ng/ml	100

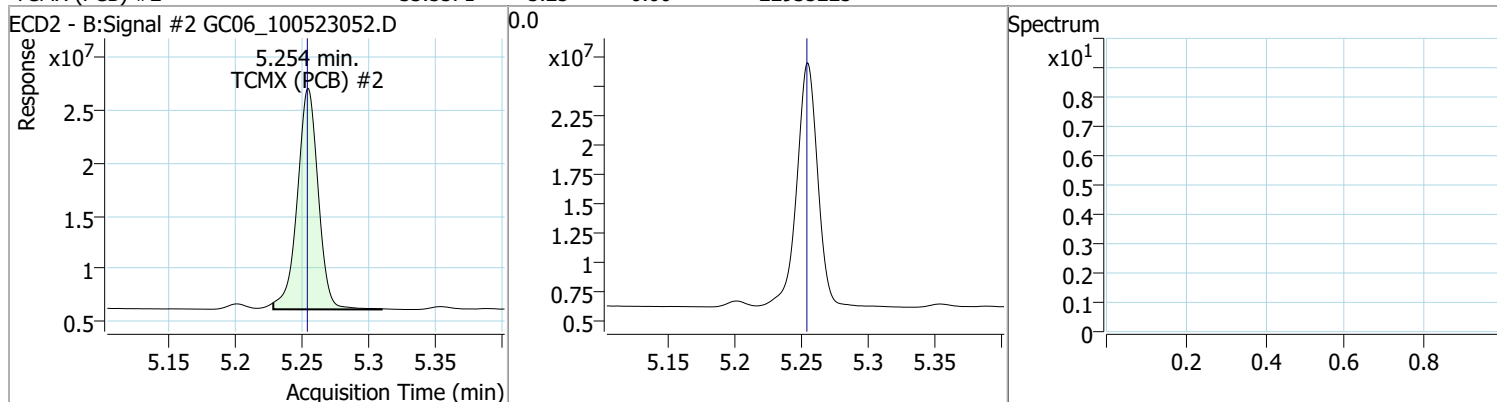
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

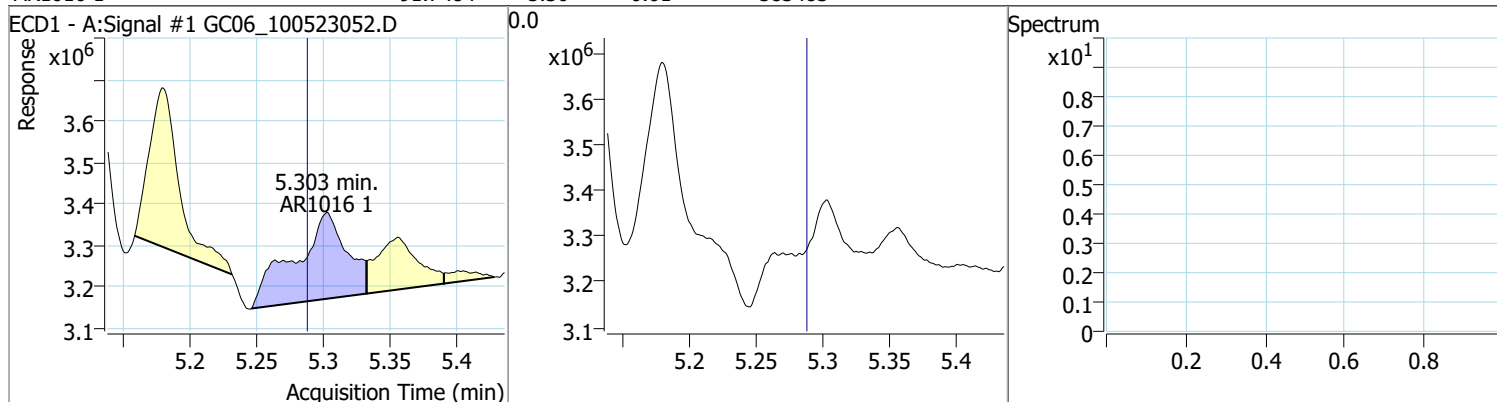
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	32.4443	4.93	0.00	9863968				



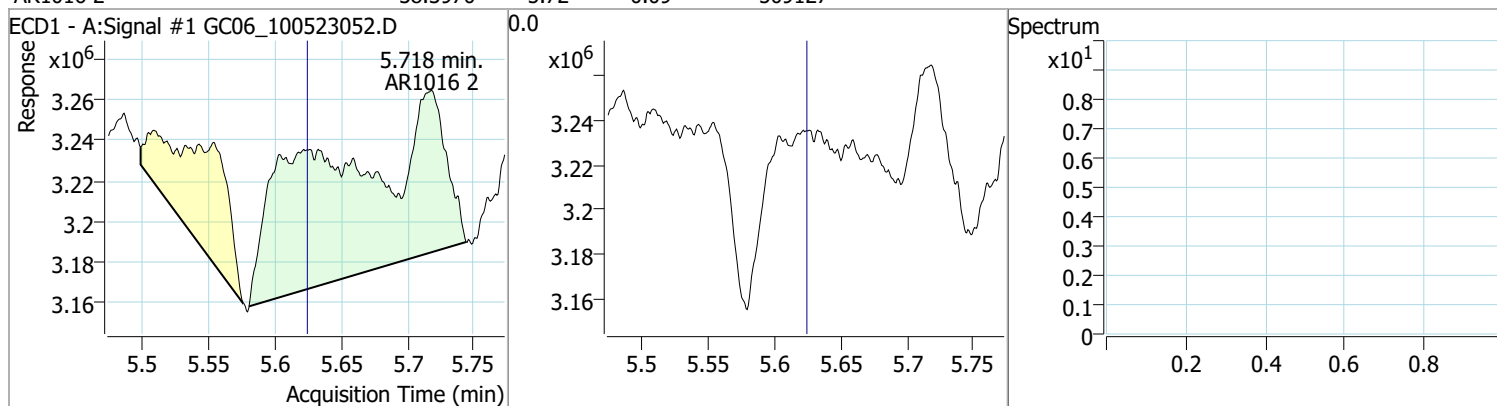
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	33.5571	5.25	0.00	22935225				



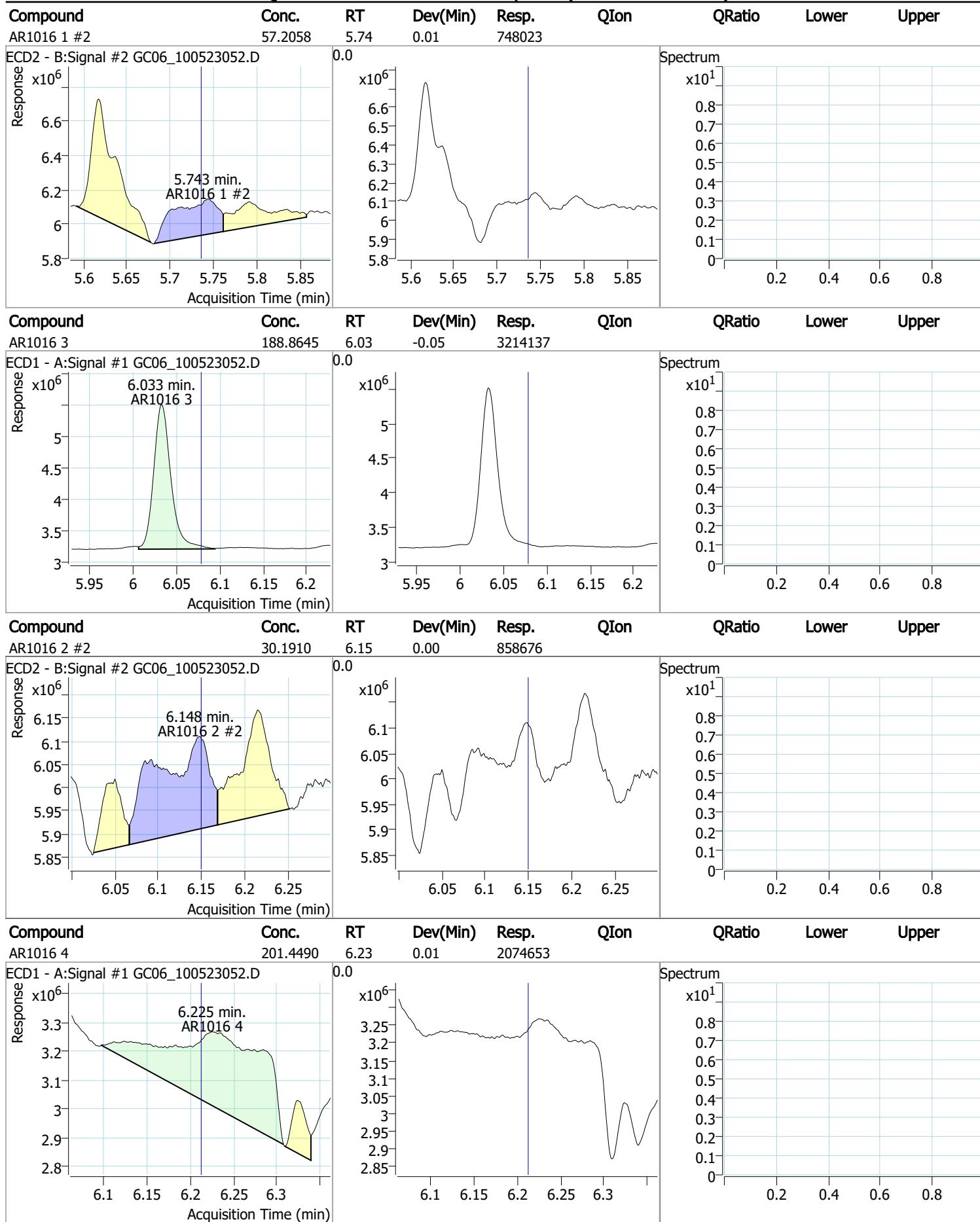
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	91.7484	5.30	0.01	583483				



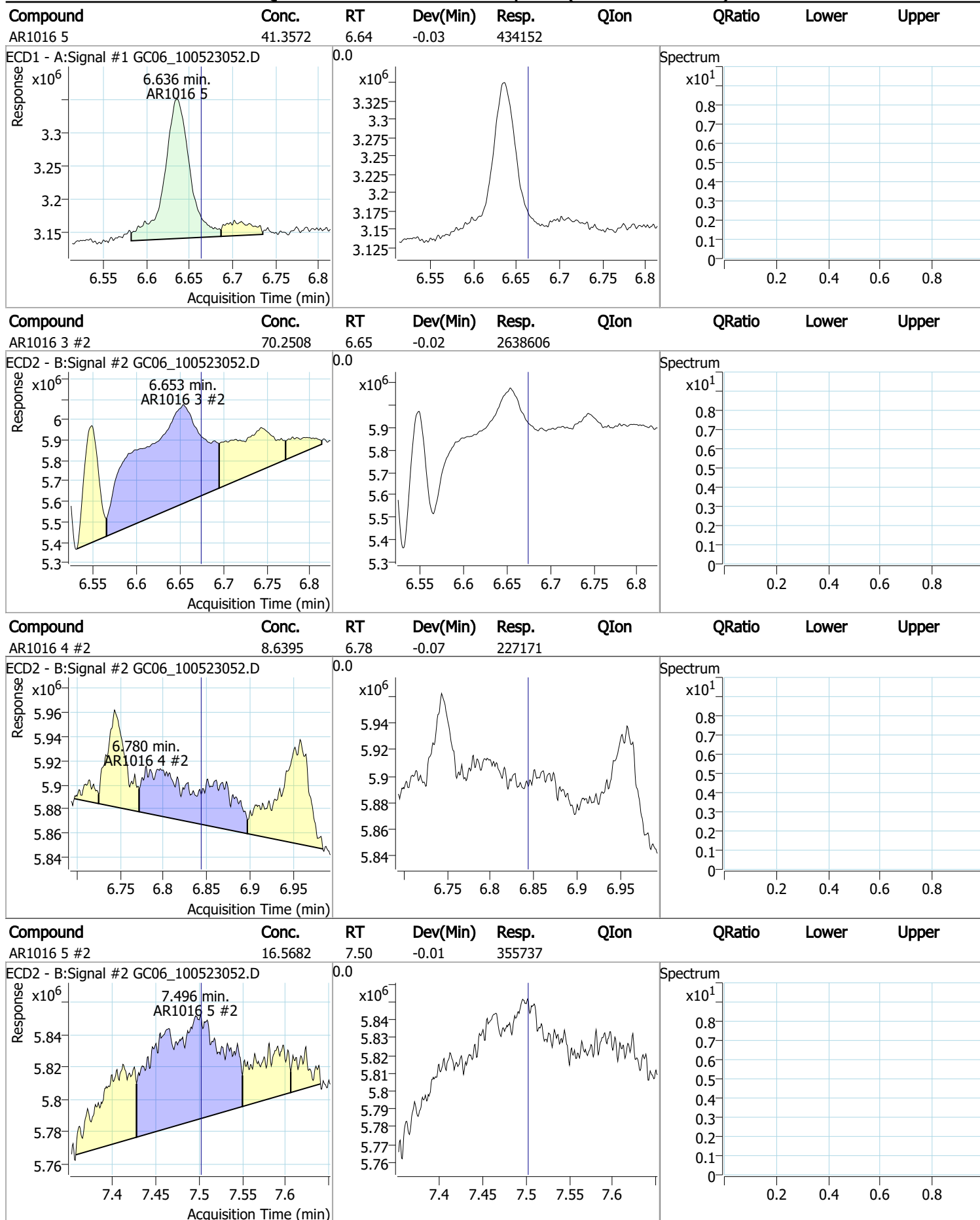
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	38.3970	5.72	0.09	509127				



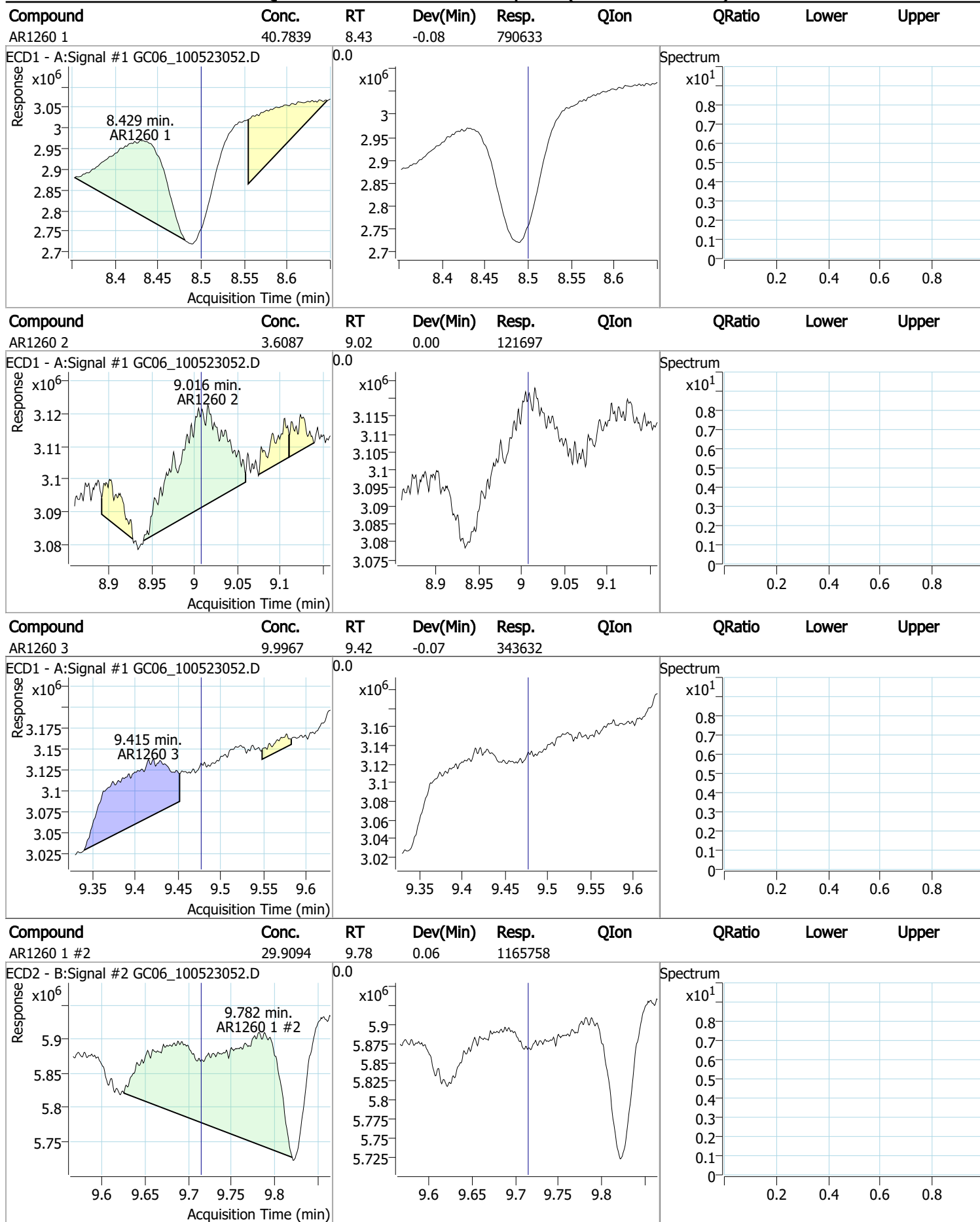
Quantitation Results Report (Not Reviewed)



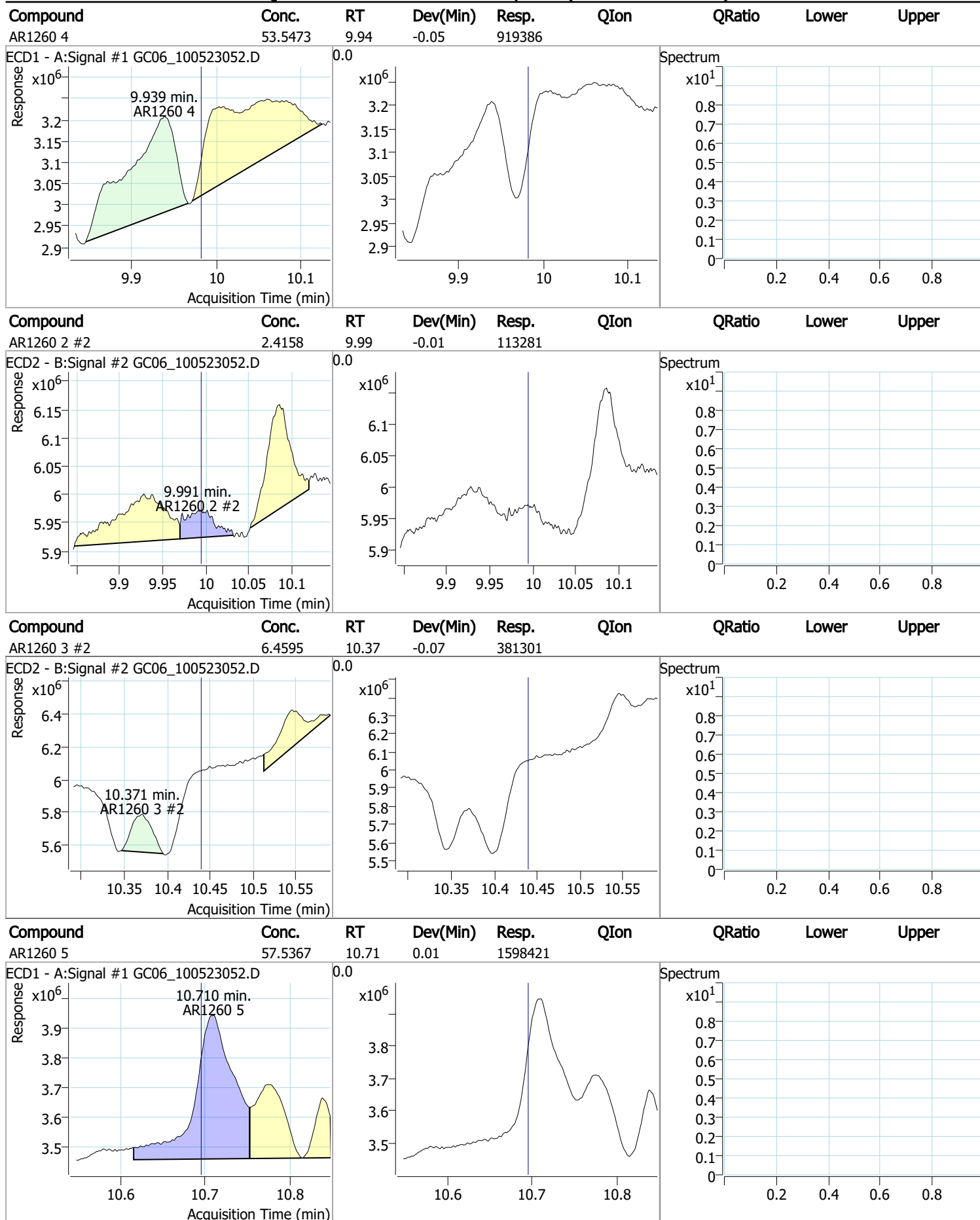
Quantitation Results Report (Not Reviewed)



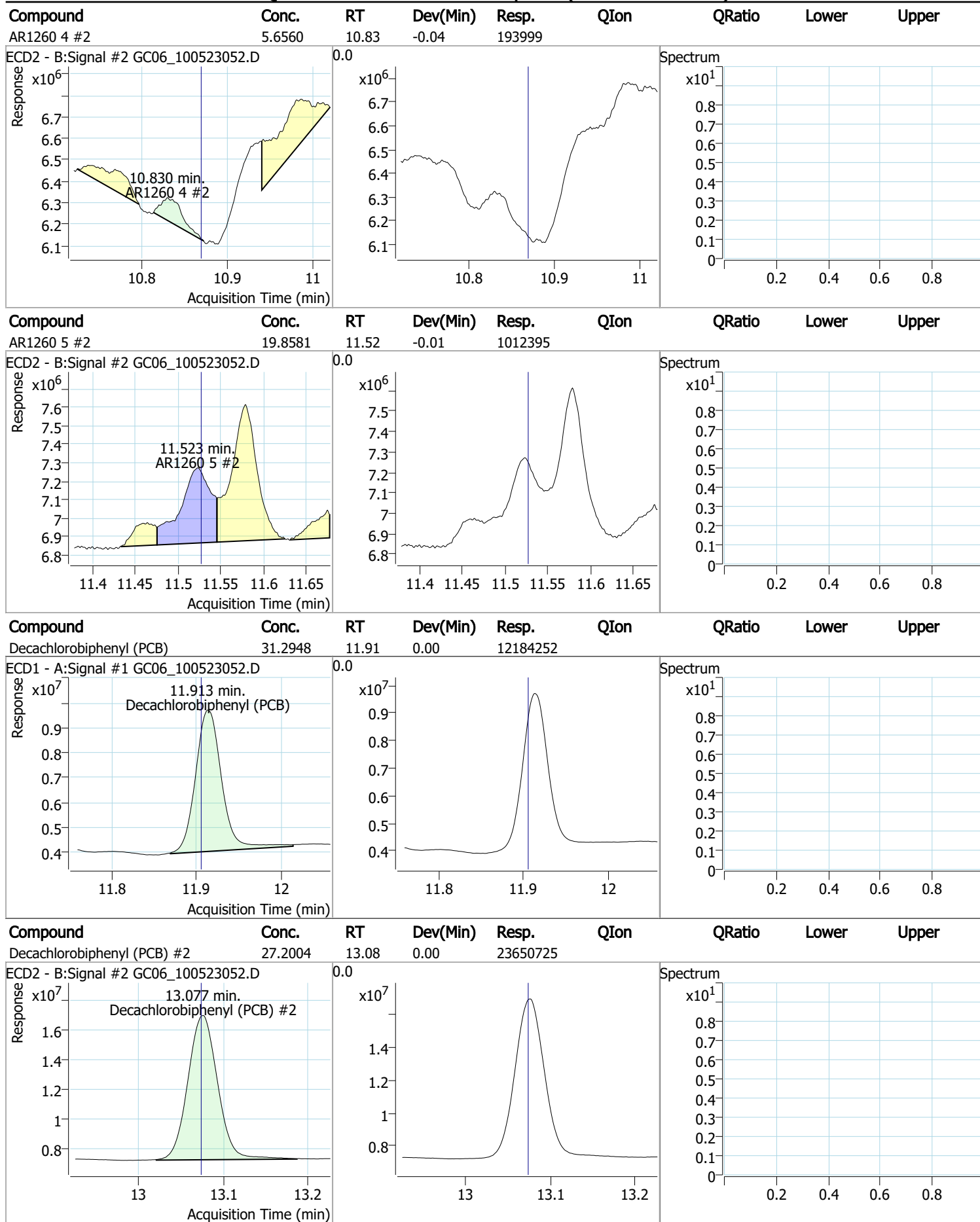
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-010	Client ID: ARCH-C10E-DG-1.5 TO 2-231003-P-FB
Seqnum: 453400820053	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523053	Batch: 323800	Time: 05-OCT-2023 23:41
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	46.90	ND	1.1	78%	0.50		u
Aroclor-1016 Peak # 1	B	46.26	0.46	0.81	54%			
Aroclor-1016 Peak # 2	B	83.46	0.83	0.29	97%			
Aroclor-1016 Peak # 3	B	65.35	0.65	1.97	100%			
Aroclor-1016 Peak # 4	B	8.201	0.08	1.99	184%			
Aroclor-1016 Peak # 5	B	31.21	0.31	0.31	2%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	23.47	ND	0.34	37%	0.50		u
Aroclor-1260 Peak # 1	B	49.95	0.50	0.32	42%			
Aroclor-1260 Peak # 2	B	13.06	0.13	0.04	98%			
Aroclor-1260 Peak # 3	B	8.584	0.09	0.01	153%			
Aroclor-1260 Peak # 4	B	10.38	0.10	0.79	154%			
Aroclor-1260 Peak # 5	B	35.40	0.35	0.53	39%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	36.20	0.5000	0.3620	72	19-121	C+ u
Decachlorobiphenyl (PCB)	B	29.40	0.5000	0.2940	59	19-121	C+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	13271622	3.11
1-bromo-2-nitrobenzene (PCB)	A	5358611	5386076	0.51

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.33	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

10/06/23 : WIPE/1DM^2-10ML

+ = high bias c = CCV u = use

Analyst: TRN 10/06/23

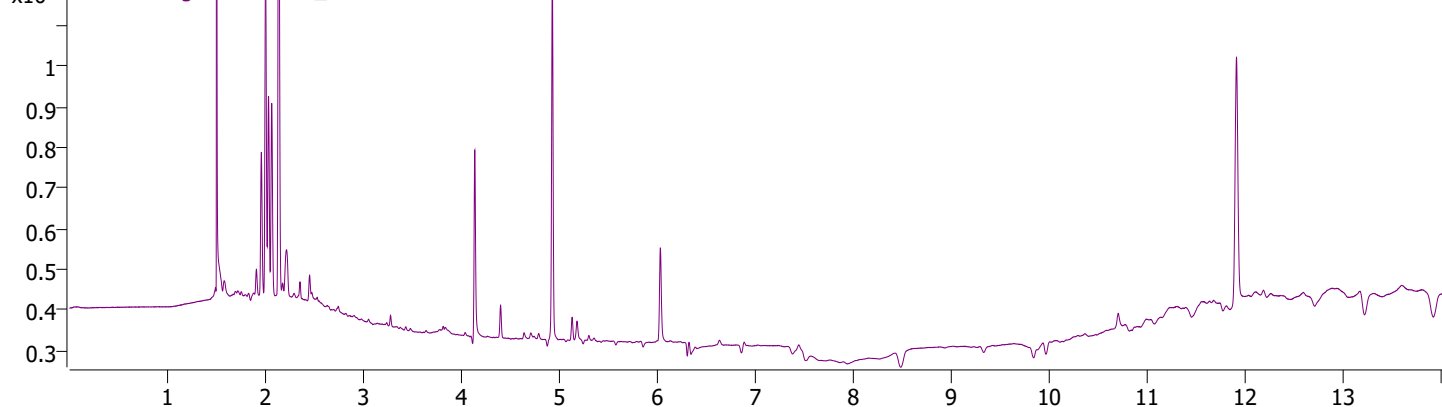
Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523053.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 11:41:17 PM
Sample Name	493300-010, 323800, 1	Instrument	SVOA-GC06
Vial	14	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			

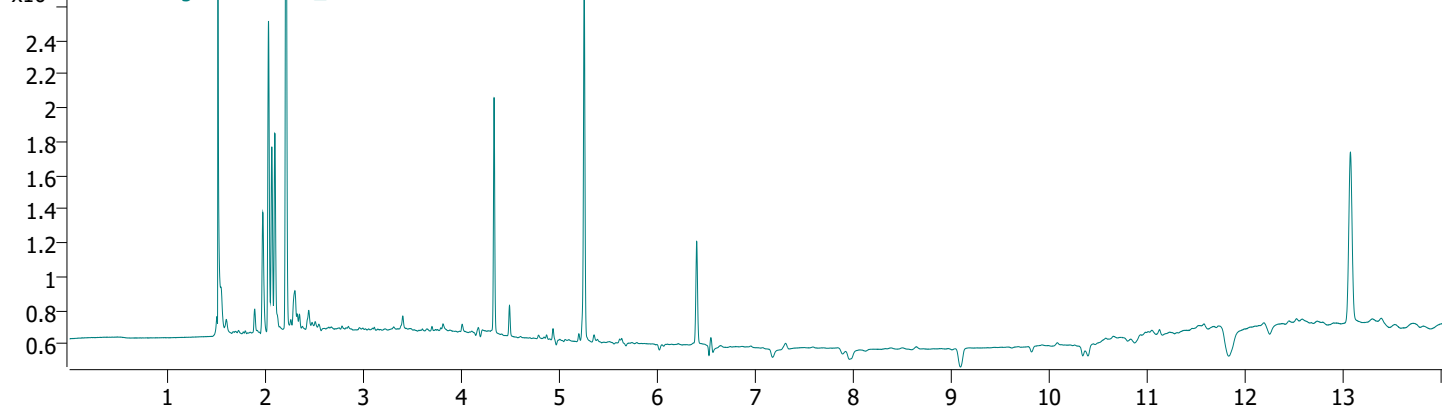
GC06_100523053.D No MS Signals

x10⁷ ECD1 - A:Signal #1 GC06_100523053.D



GC06_100523053.D No MS Signals

x10⁷ ECD2 - B:Signal #2 GC06_100523053.D



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5386075.87 3	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.334	0.0	13271622.3 68	20.0000	ng/ml	-0.002
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	10193191.7 20	35.0694	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 175.35%	*	
S TCMX (PCB) #2	5.254	0.0	23804902.2 51	36.2054	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 181.03%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	12634186.1 16	33.9432	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 169.72%	*	
S Decachlorobiphenyl (PCB) #2	13.077	0.0	24591017.2 89	29.3989	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 146.99%		

Target Compounds

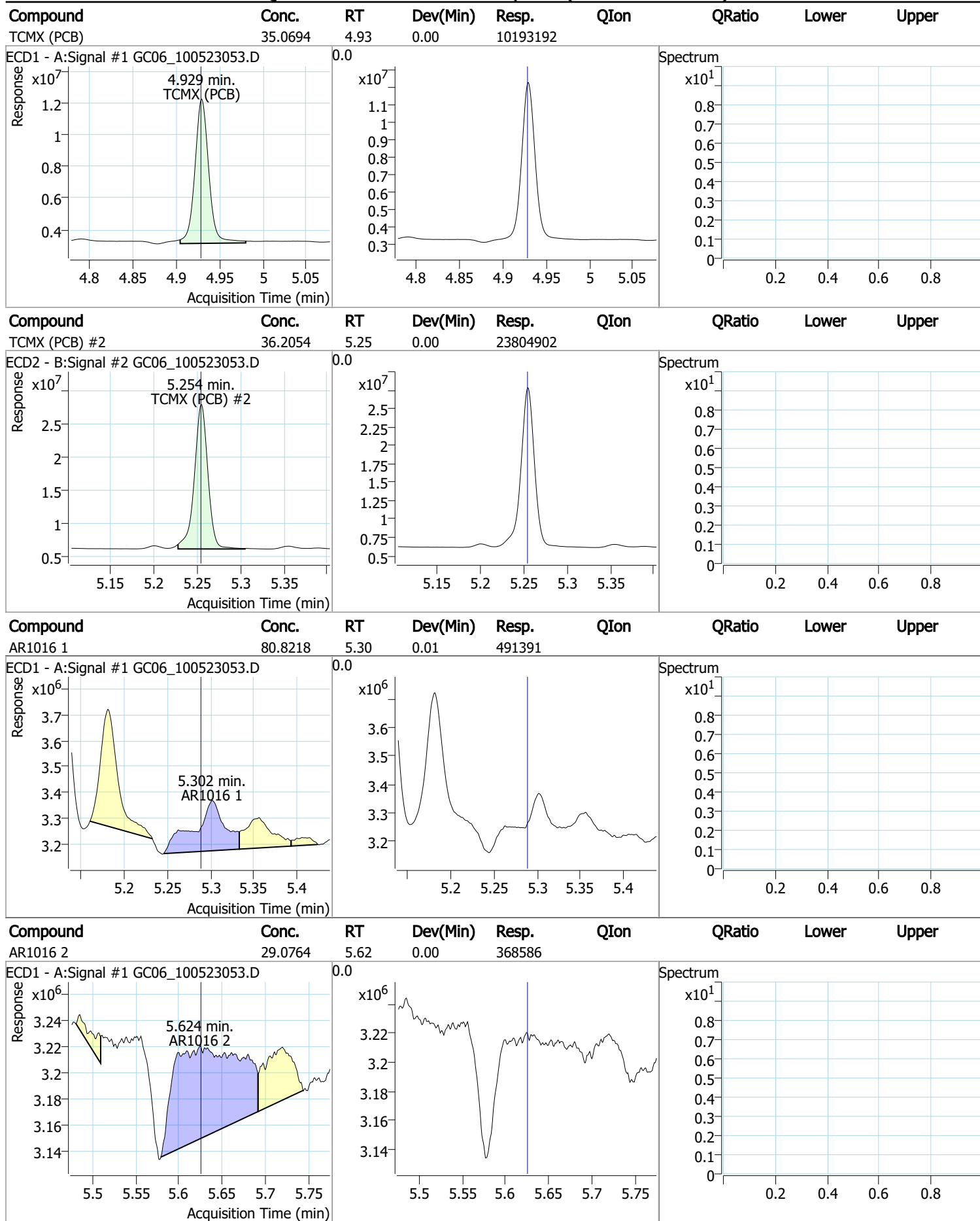
QValue

Quantitation Results Report (Not Reviewed)

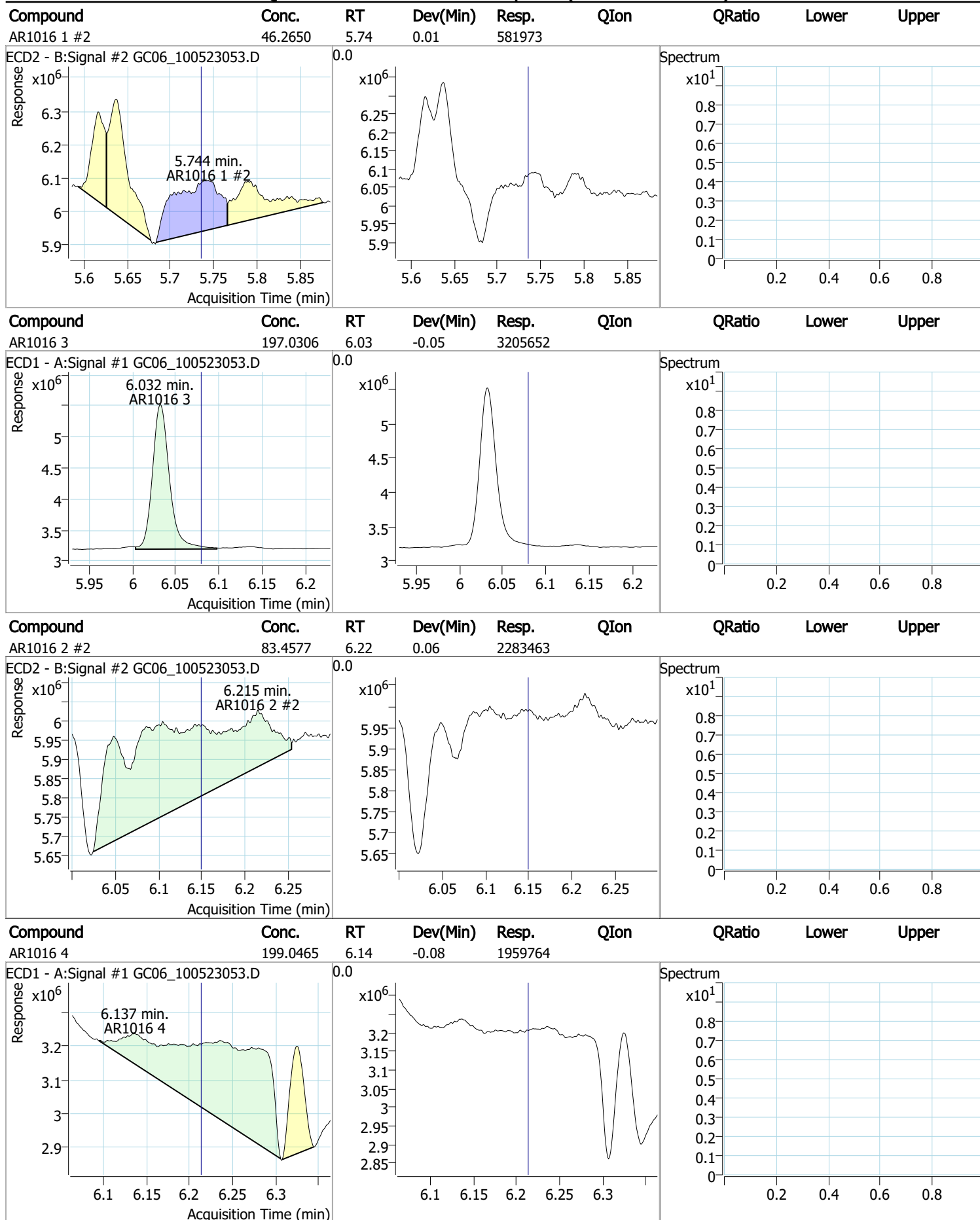
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.302	0.0	491391.022	80.8218	ng/ml	100
T AR1016 2	5.624	0.0	368585.879	29.0764	ng/ml	100
T AR1016 1 #2	5.744	0.0	581972.999	46.2650	ng/ml	100
T AR1016 3	6.032	0.0	3205651.998	197.0306	ng/ml	100
T AR1016 2 #2	6.215	0.0	2283462.936	83.4577	ng/ml	100
T AR1016 4	6.137	0.0	1959763.628	199.0465	ng/ml	100
T AR1016 5	6.635	0.0	306479.196	30.5380	ng/ml	100
T AR1016 3 #2	6.643	0.0	2361365.437	65.3528	ng/ml	100
T AR1016 4 #2	6.864	0.0	207458.167	8.2015	ng/ml	100
T AR1016 5 #2	7.591	0.0	644553.695	31.2055	ng/ml	100
T AR1260 1	8.428	0.0	602269.795	32.4965	ng/ml	100
T AR1260 2	9.011	0.0	144694.446	4.4881	ng/ml	100
T AR1260 3	9.613	0.0	37691.381	1.1469	ng/ml	100
T AR1260 1 #2	9.786	0.0	1873026.548	49.9538	ng/ml	100
T AR1260 4	9.938	0.0	1298947.781	79.1340	ng/ml	100
T AR1260 2 #2	9.928	0.0	589240.445	13.0623	ng/ml	100
T AR1260 3 #2	10.367	0.0	487478.914	8.5845	ng/ml	100
T AR1260 5	10.706	0.0	1401206.009	52.7578	ng/ml	100
T AR1260 4 #2	10.832	0.0	342349.216	10.3753	ng/ml	100
T AR1260 5 #2	11.583	0.0	1736035.609	35.3975	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

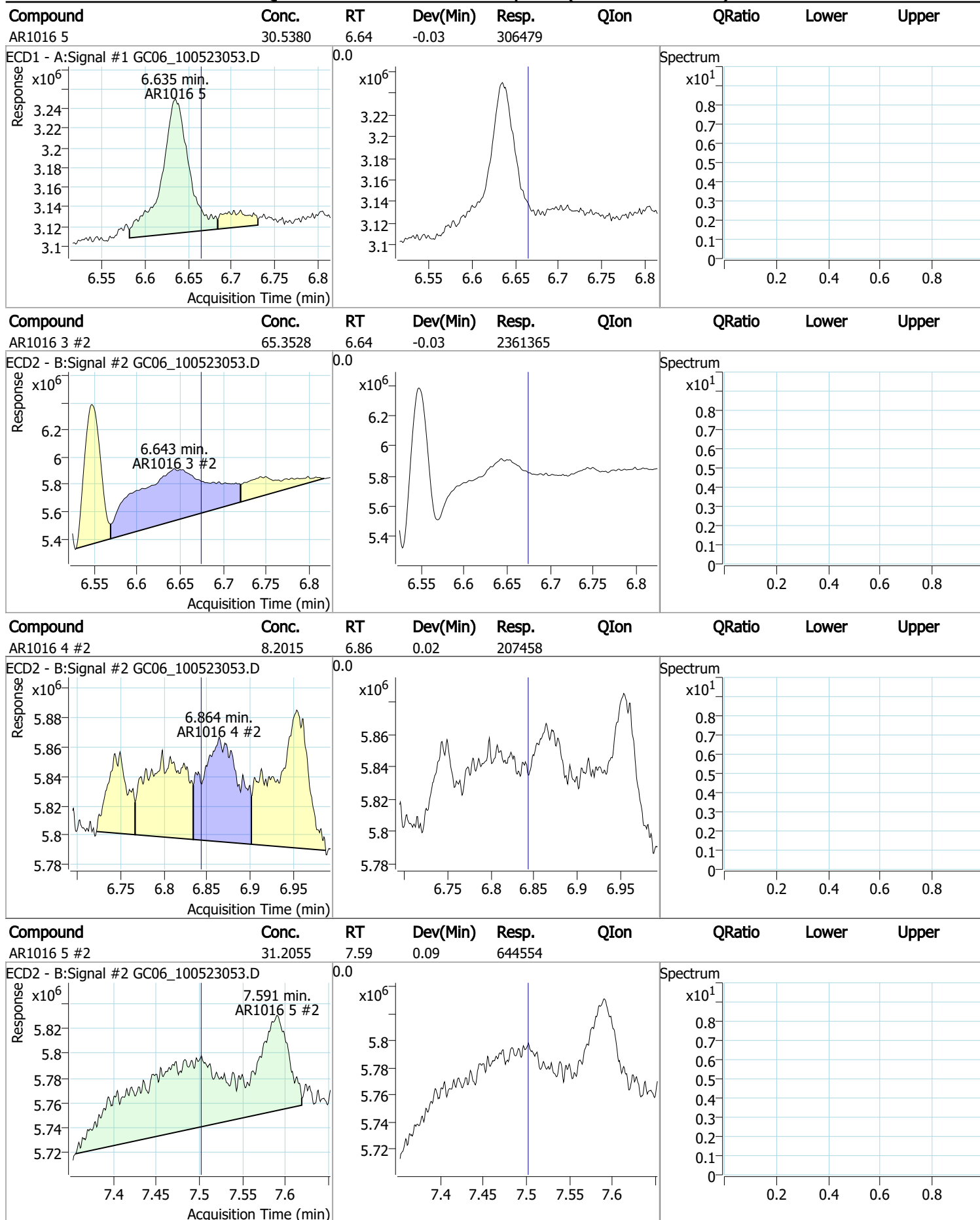
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



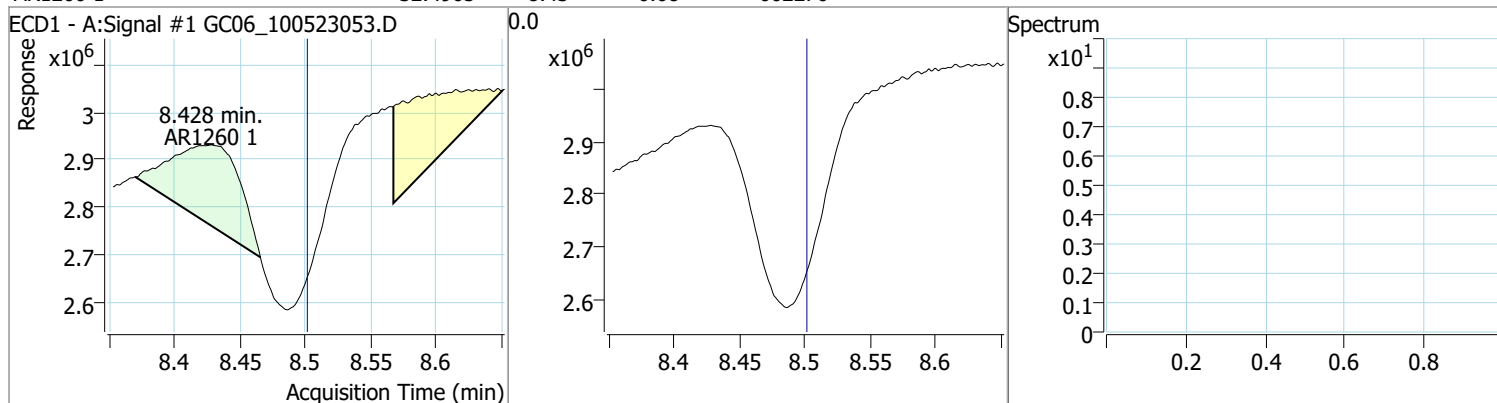
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

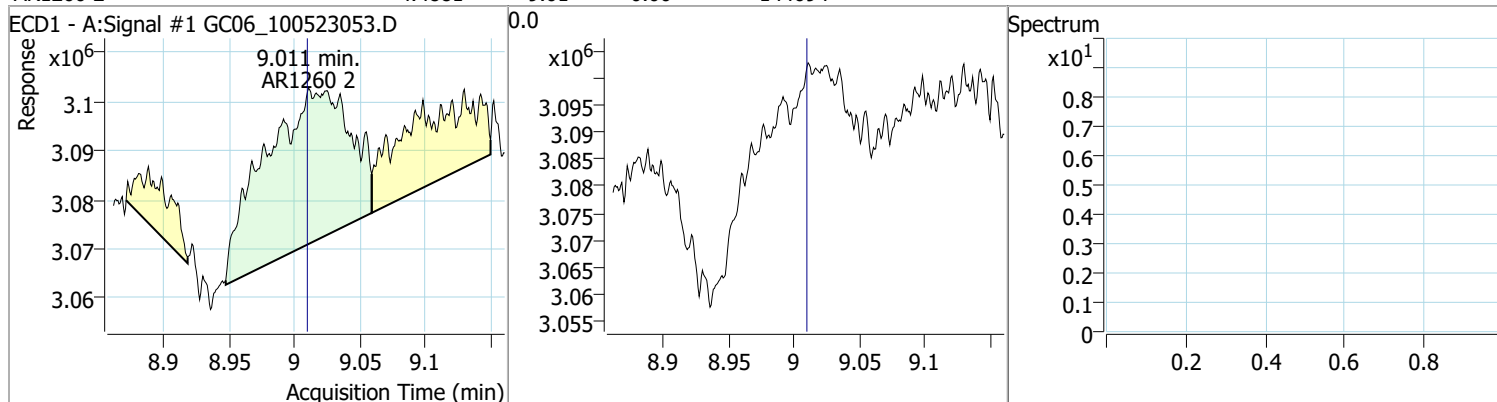
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 1 32.4965 8.43 -0.08 602270



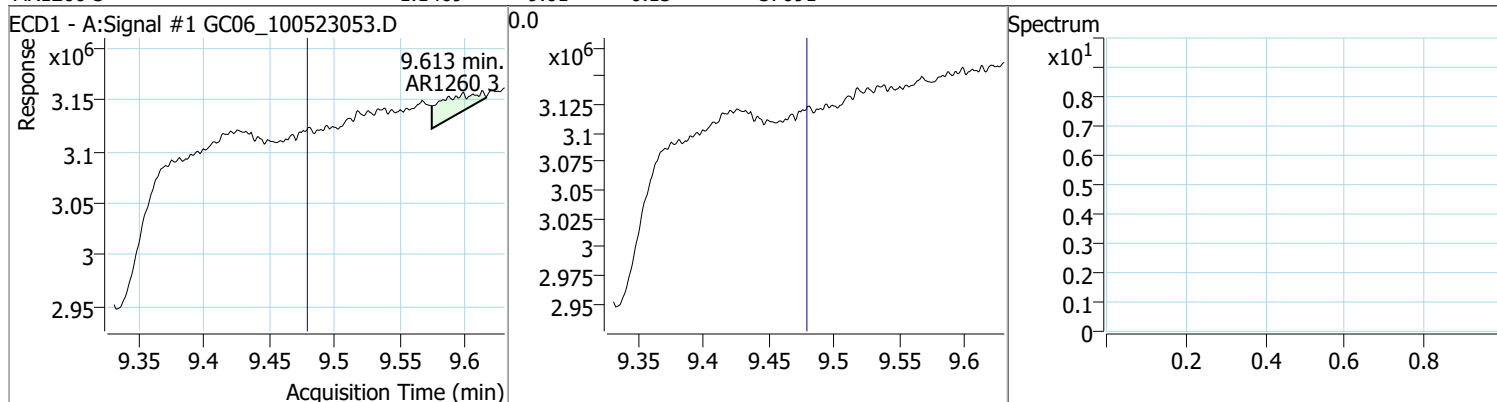
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 2 4.4881 9.01 0.00 144694



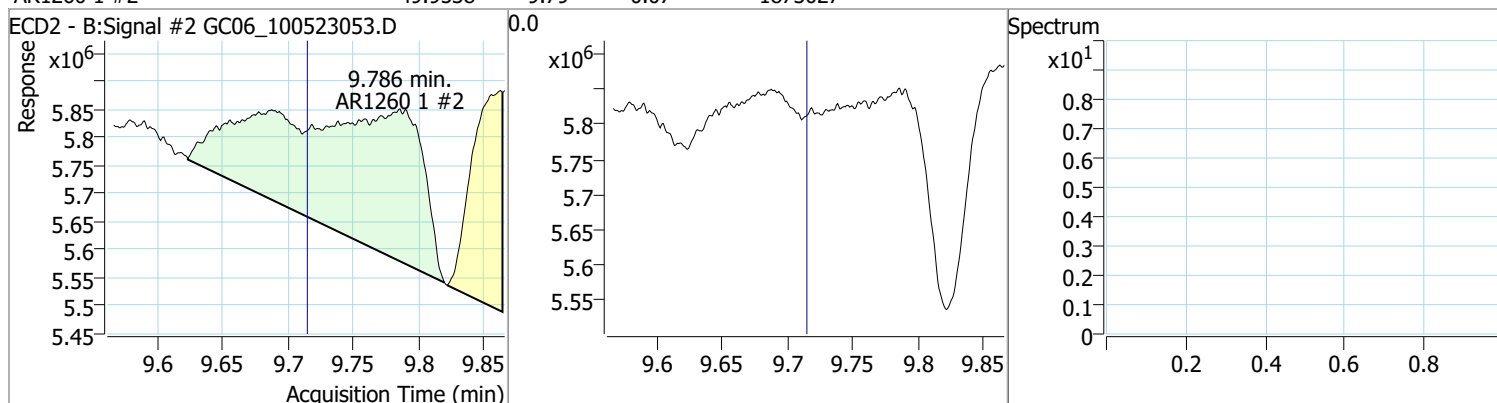
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 3 1.1469 9.61 0.13 37691

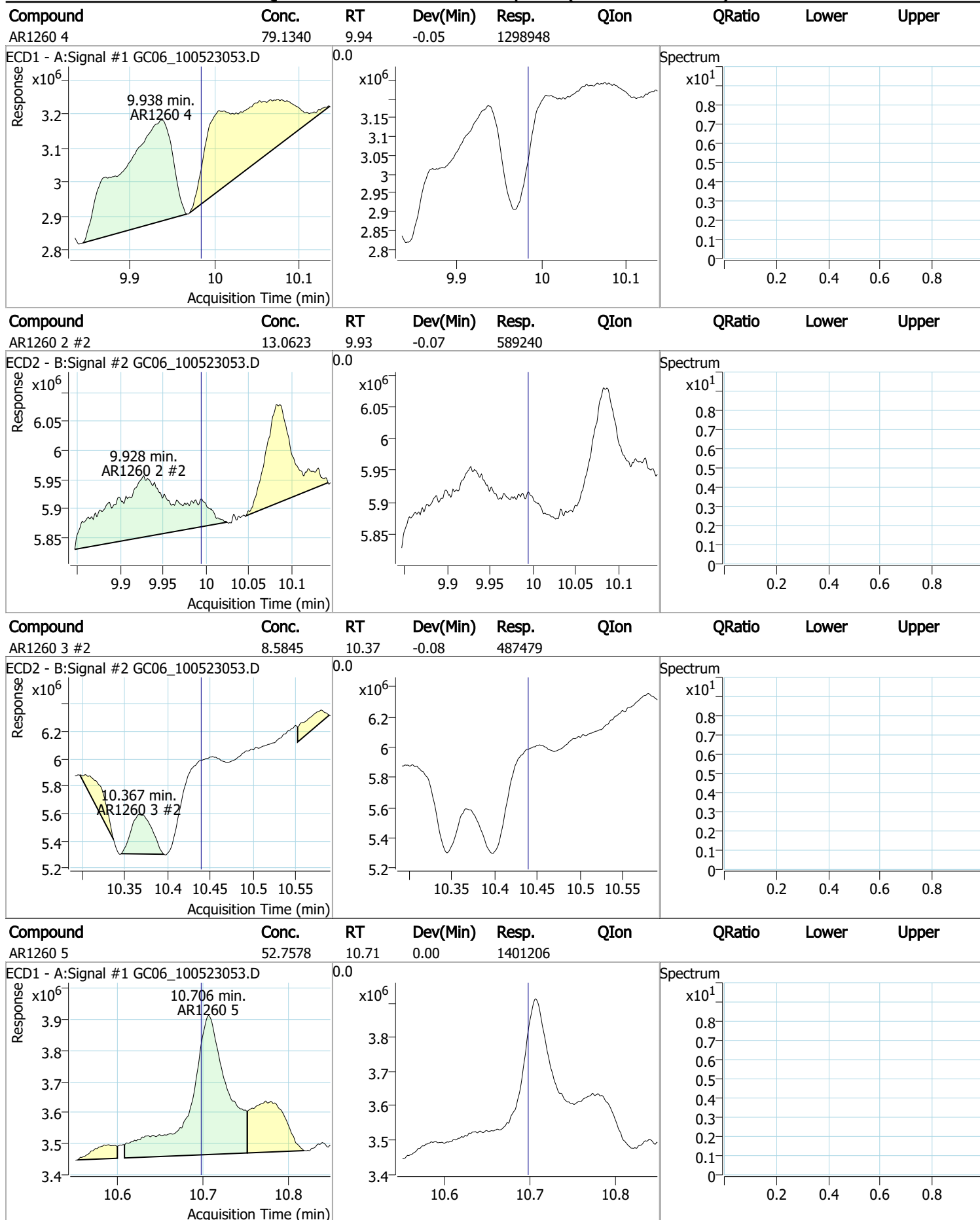


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

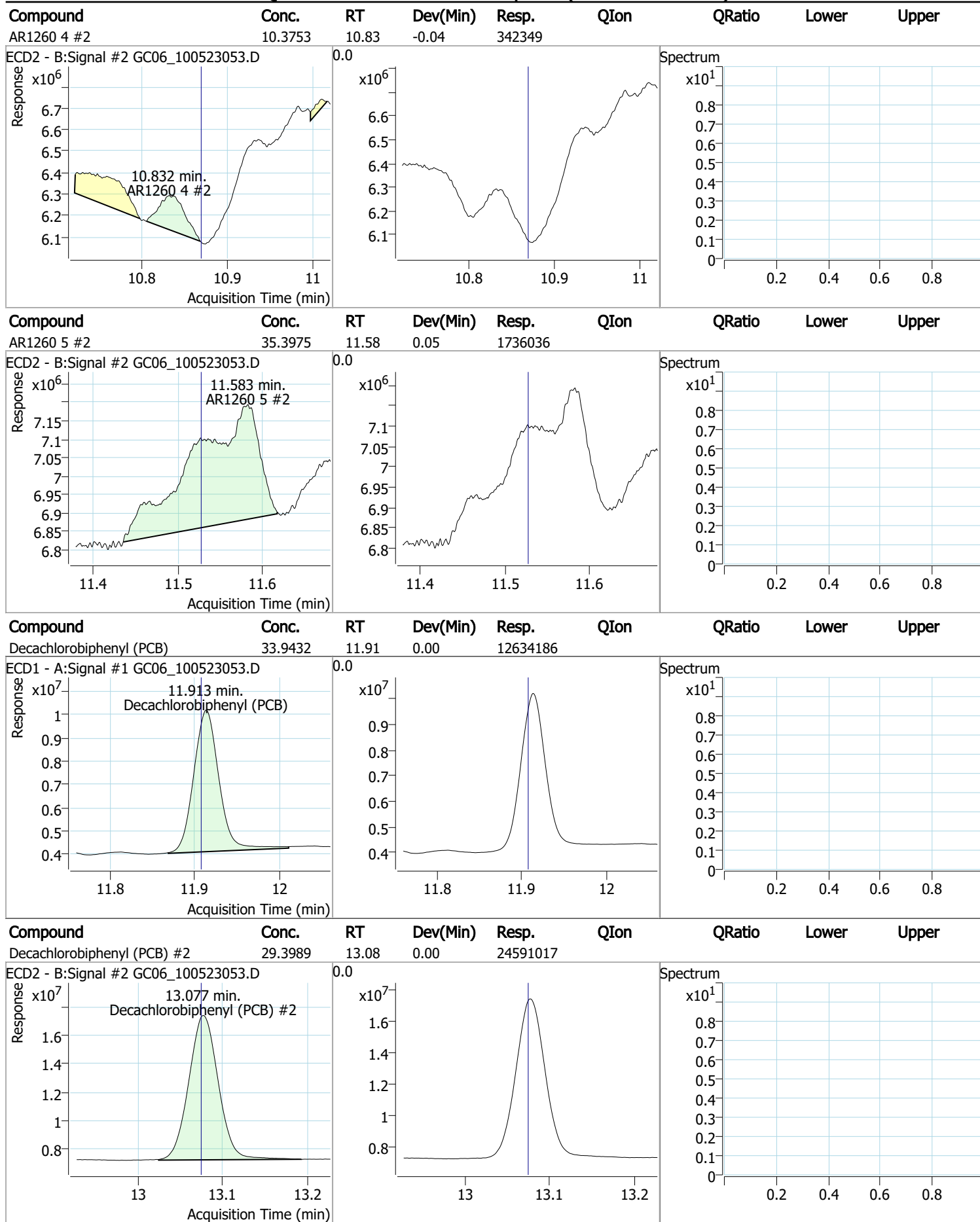
AR1260 1 #2 49.9538 9.79 0.07 1873027



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-013	Client ID: ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-P-LA
Seqnum: 453400820054	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523054	Batch: 323800	Time: 05-OCT-2023 23:59
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	52.46	0.52 ^{FP}	1.2	77%	0.50		X U
Aroclor-1016 Peak # 1	B	91.30	0.91	0.92	1%			
Aroclor-1016 Peak # 2	B	63.42	0.63	0.30	70%			
Aroclor-1016 Peak # 3	B	56.90	0.57	2.47	125%			
Aroclor-1016 Peak # 4	B	14.26	0.14	1.95	173%			
Aroclor-1016 Peak # 5	B	36.42	0.36	0.25	37%			
Aroclor-1221	B		ND			0.50		U
Aroclor-1232	B		ND			0.50		U
Aroclor-1242	B		ND			0.50		U
Aroclor-1248	B		ND			0.50		U
Aroclor-1254	B		ND			0.50		U
Aroclor-1260	B	11.67	ND	0.34	98%	0.50		U
Aroclor-1260 Peak # 1	B	5.527	0.06	0.46	157%			
Aroclor-1260 Peak # 2	B	12.76	0.13	0.04	97%			
Aroclor-1260 Peak # 3	B	8.024	0.08	ND				
Aroclor-1260 Peak # 4	B	8.800	0.09	0.61	149%			
Aroclor-1260 Peak # 5	B	23.22	0.23	0.58	86%			
Aroclor-1262	B		ND			0.50		U
Aroclor-1268	B		ND			0.50		U

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	34.74	0.5000	0.3474	69	19-121	C+ U
Decachlorobiphenyl (PCB)	B	27.68	0.5000	0.2768	55	19-121	C+ U

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	13633630	5.93
1-bromo-2-nitrobenzene (PCB)	A	5358611	5402074	0.81

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.33	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

10/06/23 : WIPE/1DM^2-10ML

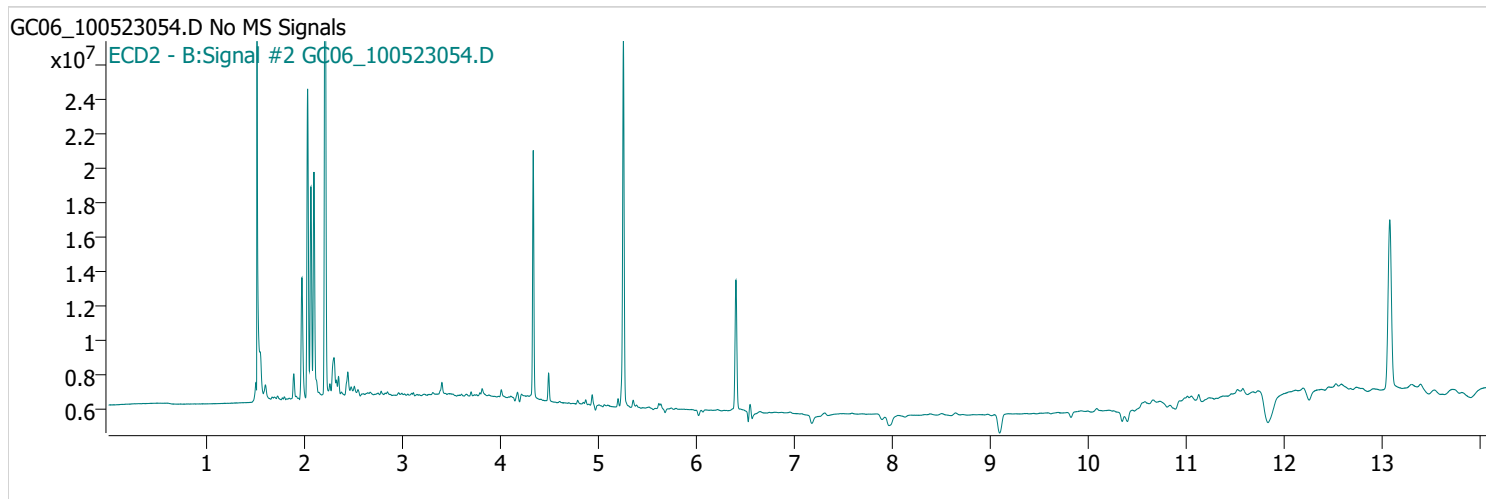
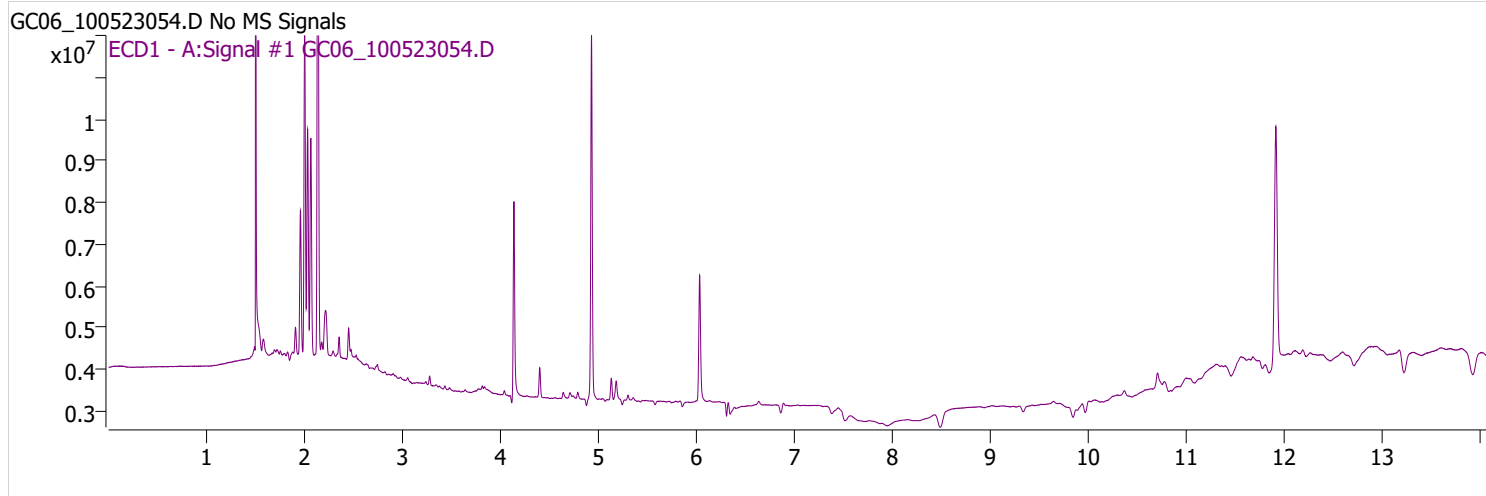
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523054.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 11:59:27 PM
Sample Name	493300-013, 323800, 1	Instrument	SVOA-GC06
Vial	15	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5402073.597	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.334	0.0	13633630.450	20.0000	ng/ml	-0.002
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	10031710.466	34.4116	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 172.06%	*	
S TCMX (PCB) #2	5.254	0.0	23465189.093	34.7411	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 173.71%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	12472243.017	33.4089	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 167.04%	*	
S Decachlorobiphenyl (PCB) #2	13.076	0.0	23785391.684	27.6808	ng/ml	-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 138.40%		

Target Compounds

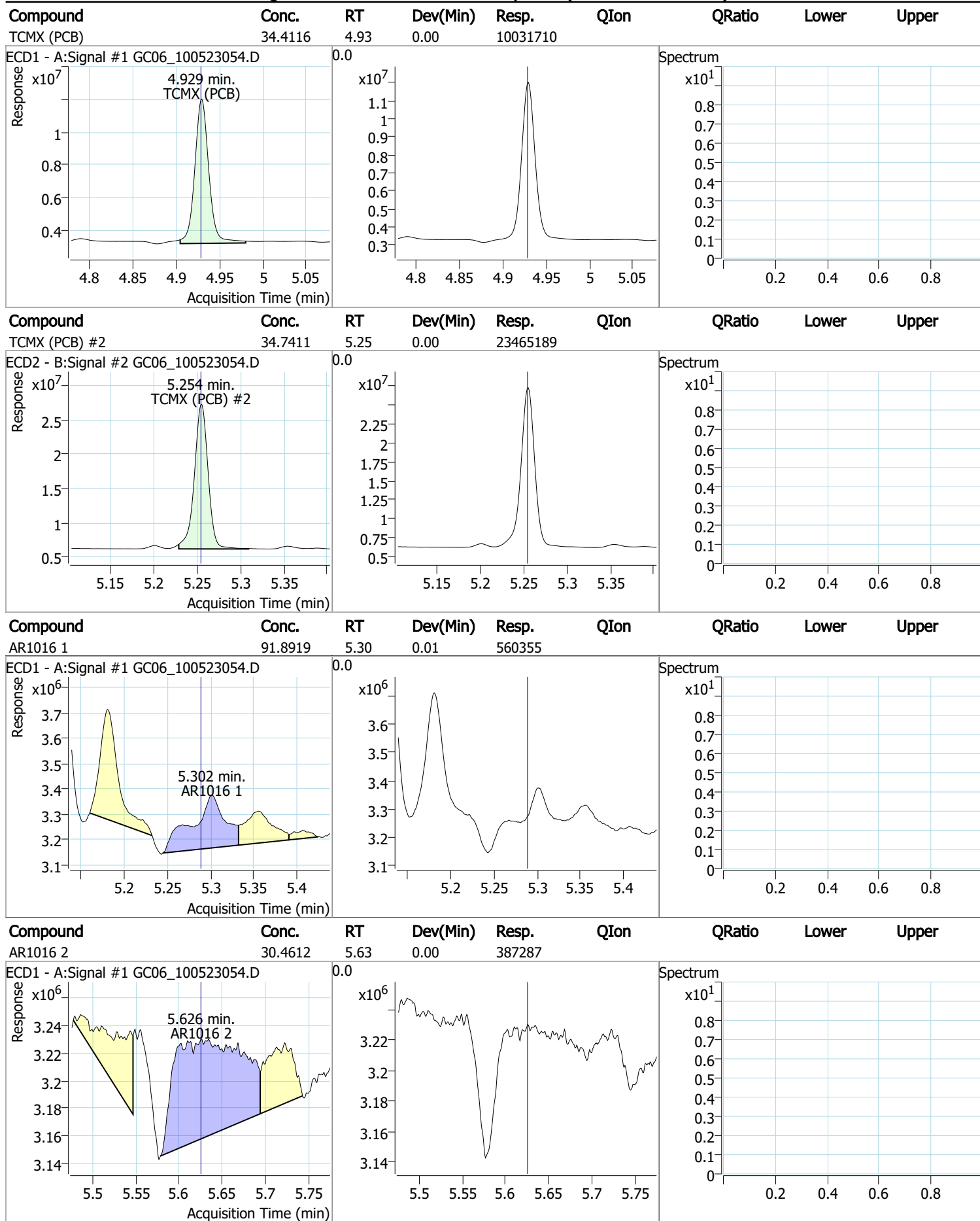
QValue

Quantitation Results Report (Not Reviewed)

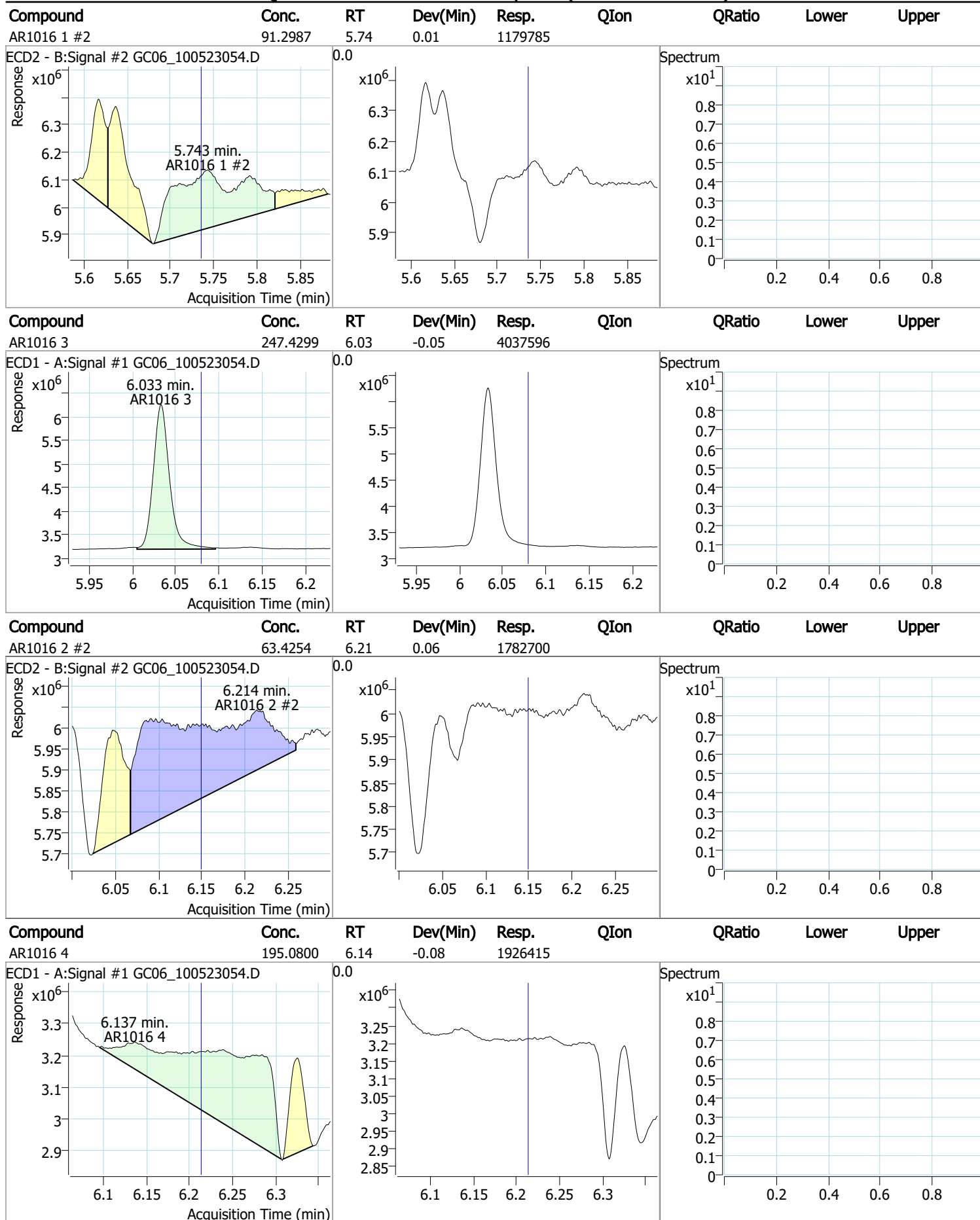
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.302	0.0	560355.498	91.8919	ng/ml	100
T AR1016 2	5.626	0.0	387287.302	30.4612	ng/ml	100
T AR1016 1 #2	5.743	0.0	1179784.66 8	91.2987	ng/ml	100
T AR1016 3	6.033	0.0	4037595.83 7	247.4299	ng/ml	100
T AR1016 2 #2	6.214	0.0	1782699.85 9	63.4254	ng/ml	100
T AR1016 4	6.137	0.0	1926414.62 4	195.0800	ng/ml	100
T AR1016 5	6.634	0.0	250961.633	24.9321	ng/ml	100
T AR1016 3 #2	6.652	0.0	2111917.59 9	56.8972	ng/ml	100
T AR1016 4 #2	6.805	0.0	370619.337	14.2627	ng/ml	100
T AR1016 5 #2	7.589	0.0	772827.784	36.4222	ng/ml	100
T AR1260 1	8.429	0.0	848604.999	45.6523	ng/ml	100
T AR1260 2	9.011	0.0	143519.384	4.4384	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.728	0.0	212903.751	5.5274	ng/ml	100
T AR1260 4	9.940	0.0	1002012.10 3	60.8634	ng/ml	100
T AR1260 2 #2	10.088	0.0	591136.926	12.7564	ng/ml	100
T AR1260 3 #2	10.367	0.0	468083.063	8.0240	ng/ml	100
T AR1260 5	10.706	0.0	1558020.89 6	58.4885	ng/ml	100
T AR1260 4 #2	10.833	0.0	298298.711	8.8003	ng/ml	100
T AR1260 5 #2	11.520	0.0	1169858.23 4	23.2198	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

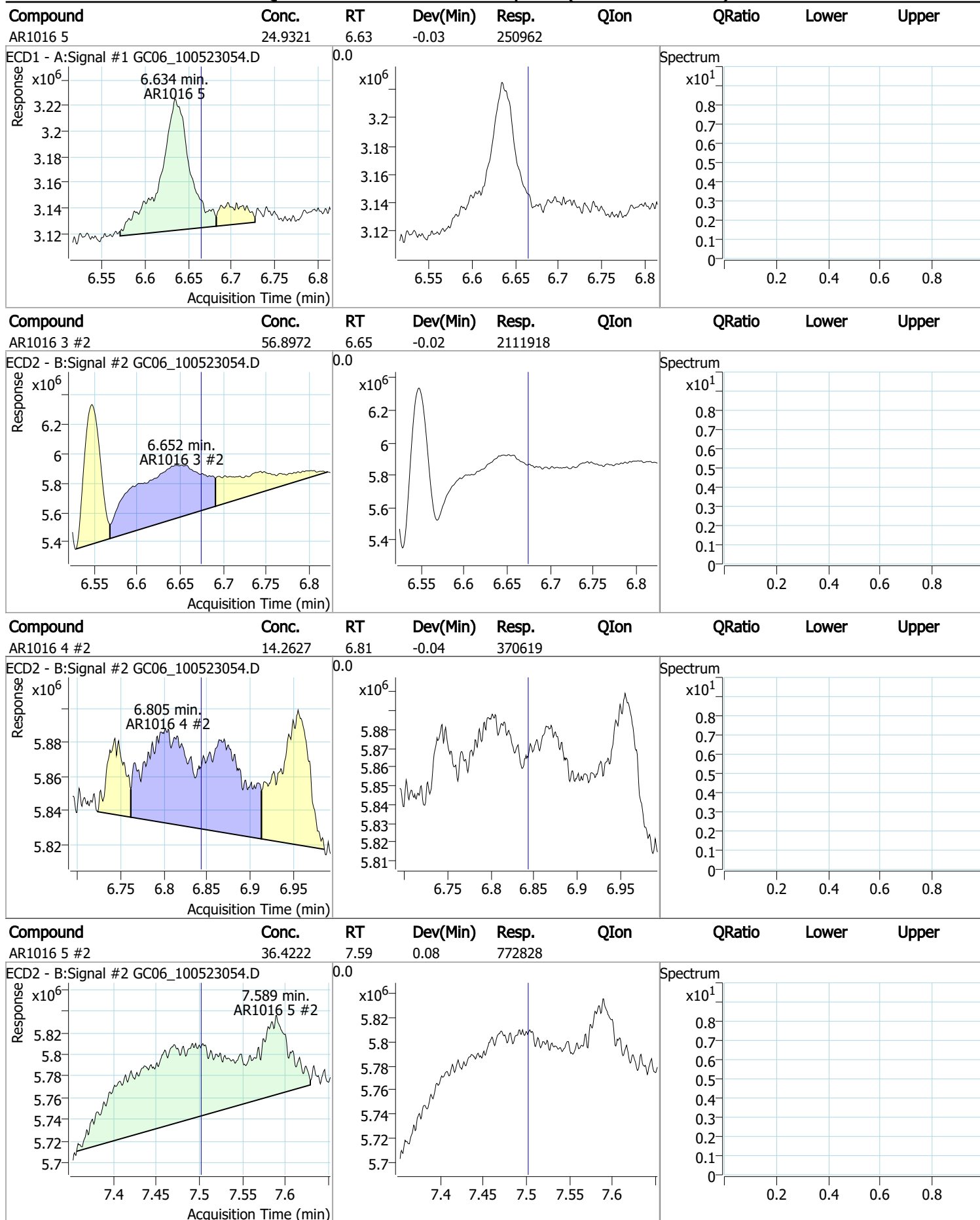
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

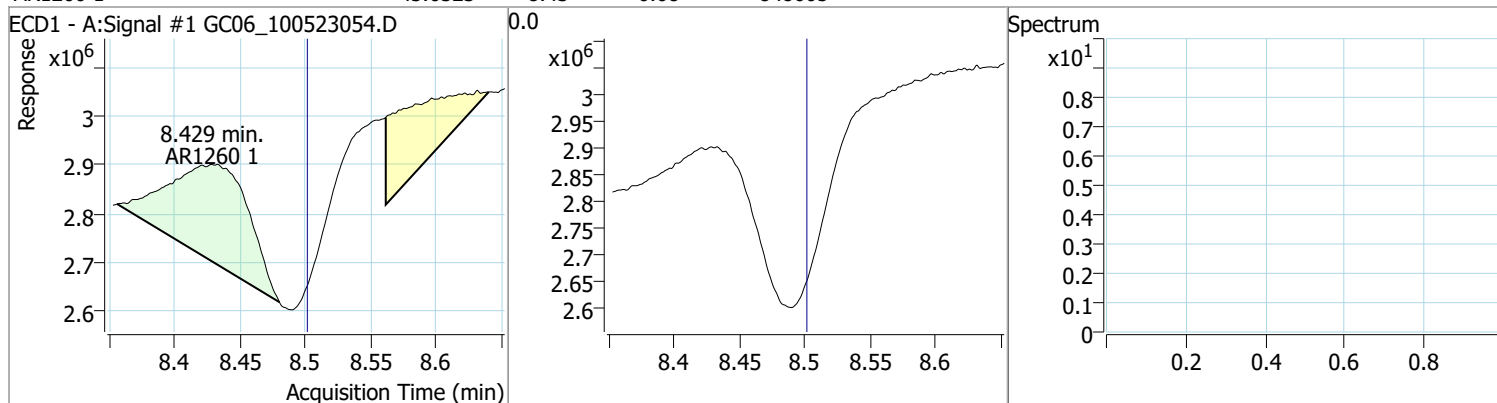


Quantitation Results Report (Not Reviewed)

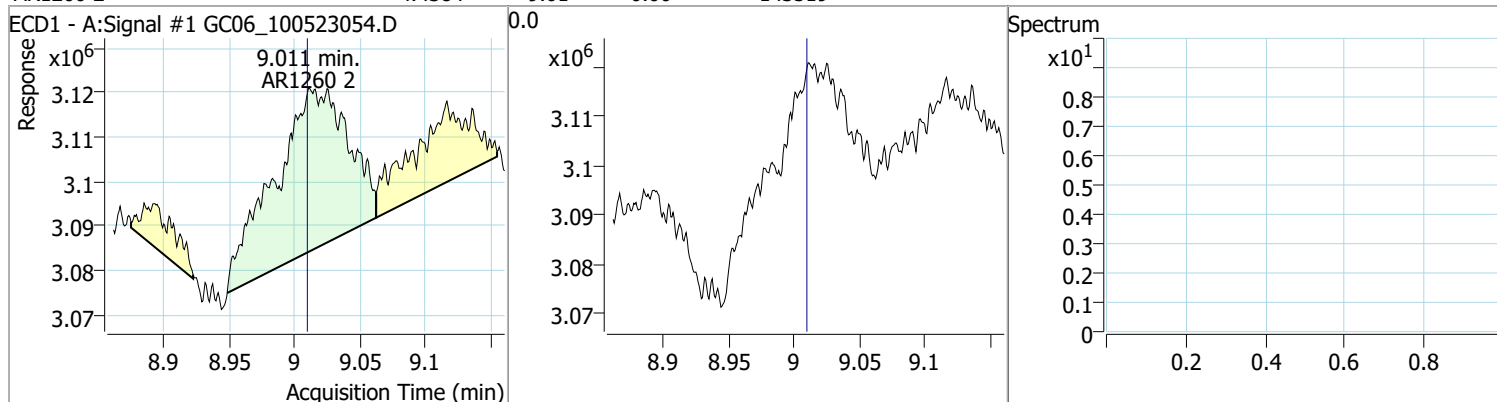


Quantitation Results Report (Not Reviewed)

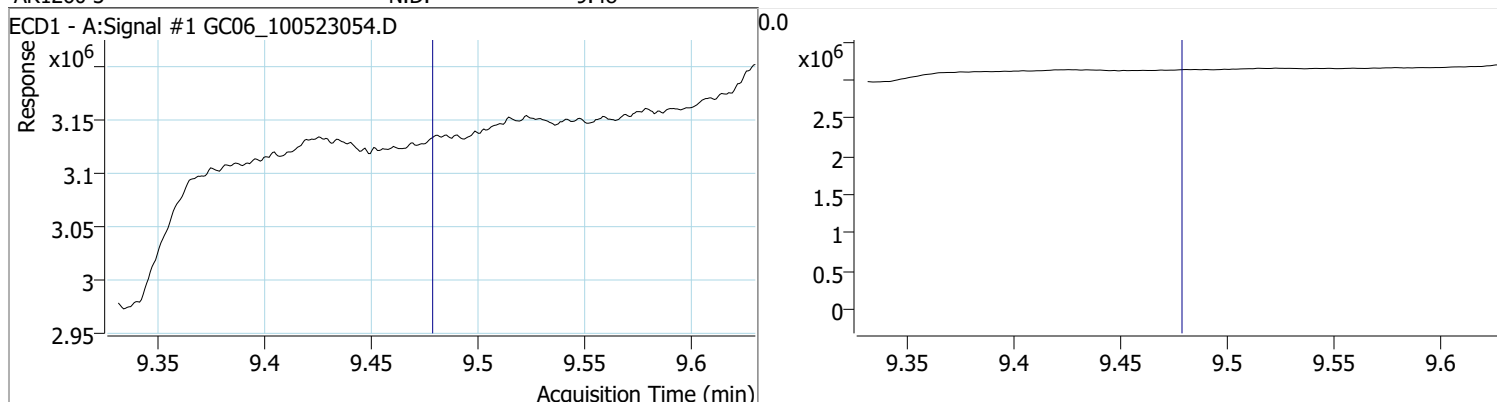
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	45.6523	8.43	-0.08	848605				



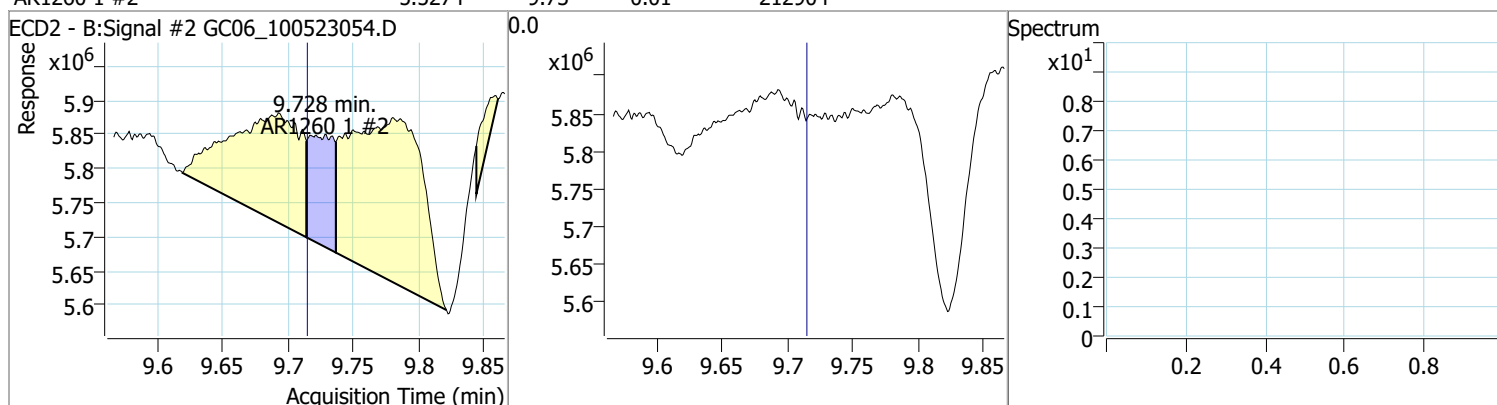
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	4.4384	9.01	0.00	143519				



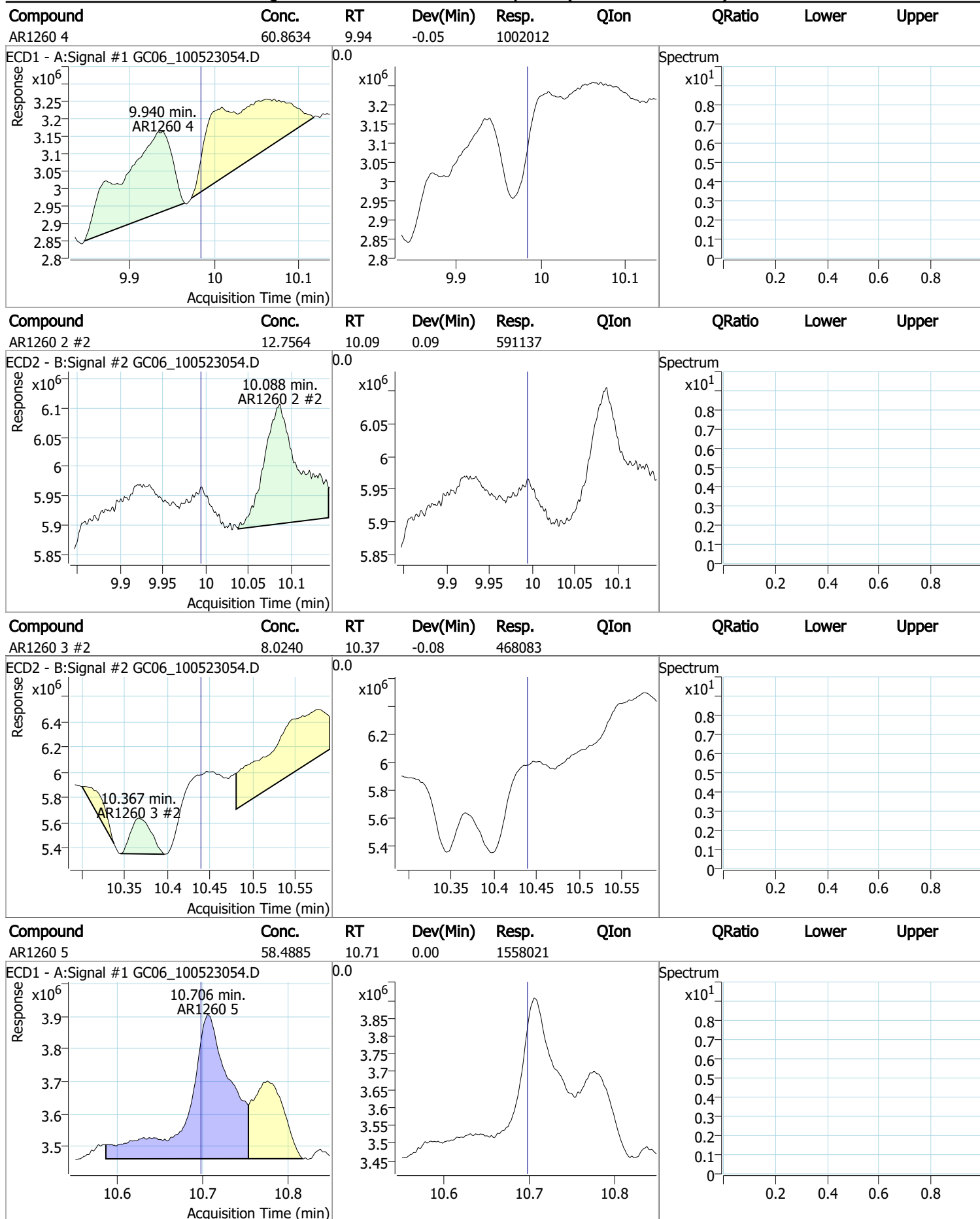
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.48		



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	5.5274	9.73	0.01	212904				

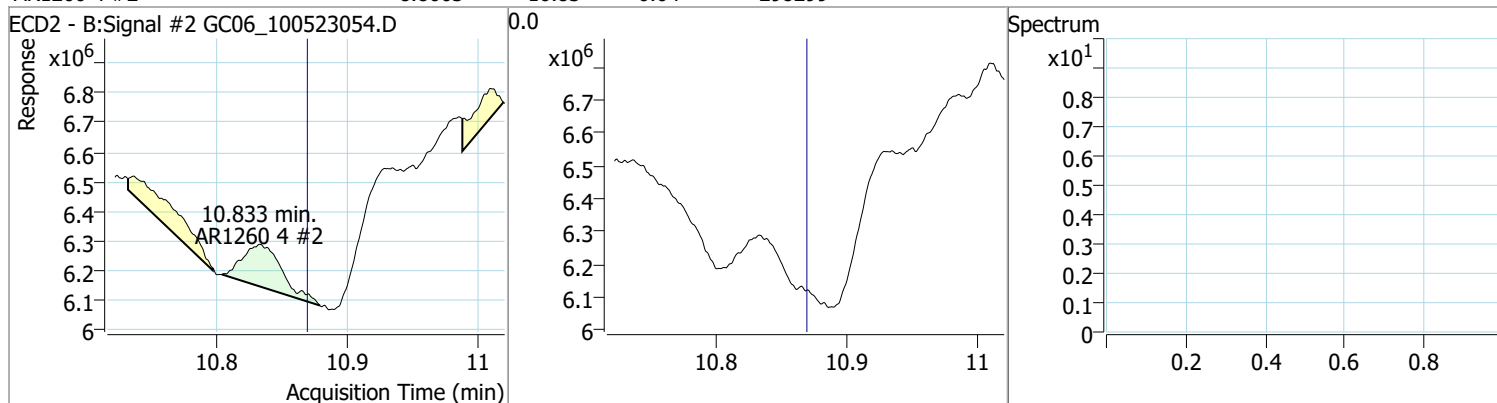


Quantitation Results Report (Not Reviewed)

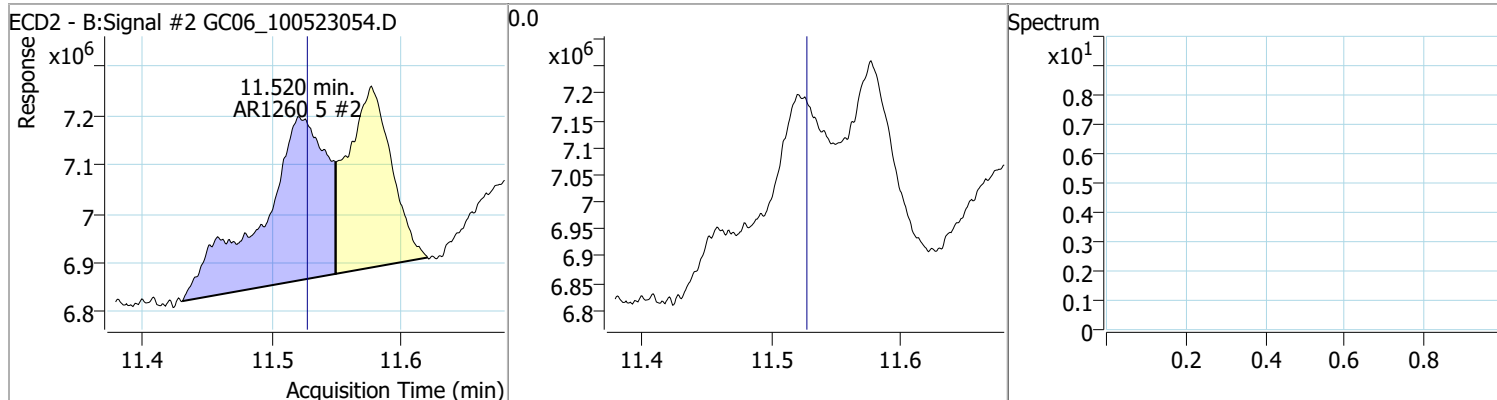


Quantitation Results Report (Not Reviewed)

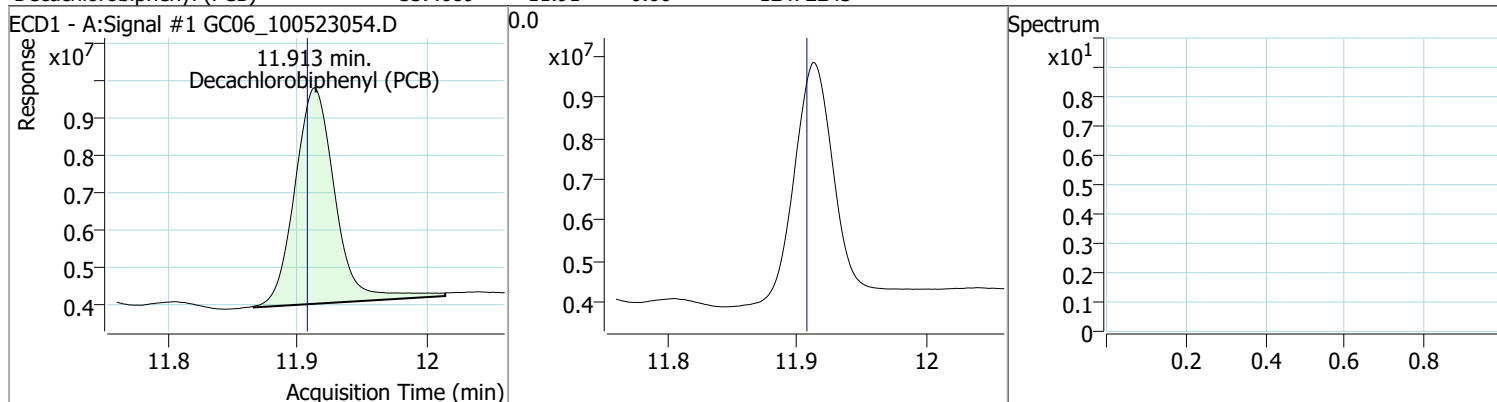
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	8.8003	10.83	-0.04	298299				



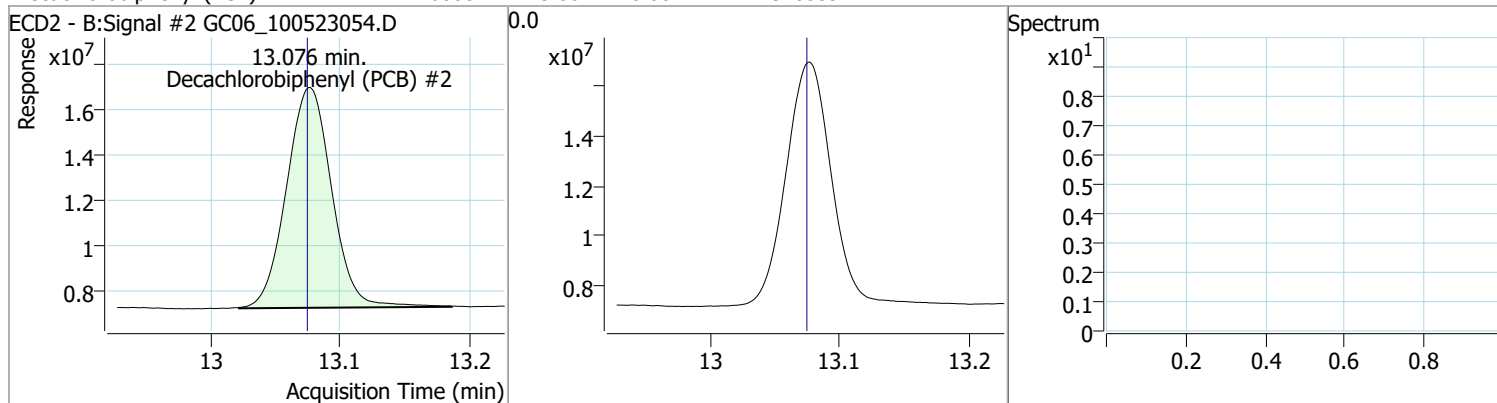
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	23.2198	11.52	-0.01	1169858				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	33.4089	11.91	0.00	12472243				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	27.6808	13.08	0.00	23785392				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-015	Client ID: ARCH-C11E-INT-1.5 TO 2.5-231003-P-WF
Seqnum: 453400820055	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523055	Batch: 323800	Time: 06-OCT-2023 00:17
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	36.23	ND	1.5	124%	0.50		u
Aroclor-1016 Peak # 1	B	58.12	0.58	0.87	39%			
Aroclor-1016 Peak # 2	B	31.08	0.31	0.32	4%			
Aroclor-1016 Peak # 3	B	65.92	0.66	4.30	147%			
Aroclor-1016 Peak # 4	B	5.690	0.06	1.88	188%			
Aroclor-1016 Peak # 5	B	20.32	0.20	0.32	46%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	20.18	ND	0.40	67%	0.50		u
Aroclor-1260 Peak # 1	B	48.68	0.49	0.57	16%			
Aroclor-1260 Peak # 2	B	5.859	0.06	0.05	17%			
Aroclor-1260 Peak # 3	B	8.235	0.08	ND				
Aroclor-1260 Peak # 4	B	8.325	0.08	0.76	160%			
Aroclor-1260 Peak # 5	B	29.79	0.30	0.65	74%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	37.33	0.5000	0.3733	75	19-121	c+ u
Decachlorobiphenyl (PCB)	B	29.96	0.5000	0.2996	60	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	13228146	2.78
1-bromo-2-nitrobenzene (PCB)	A	5358611	5297300	-1.14

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.33	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

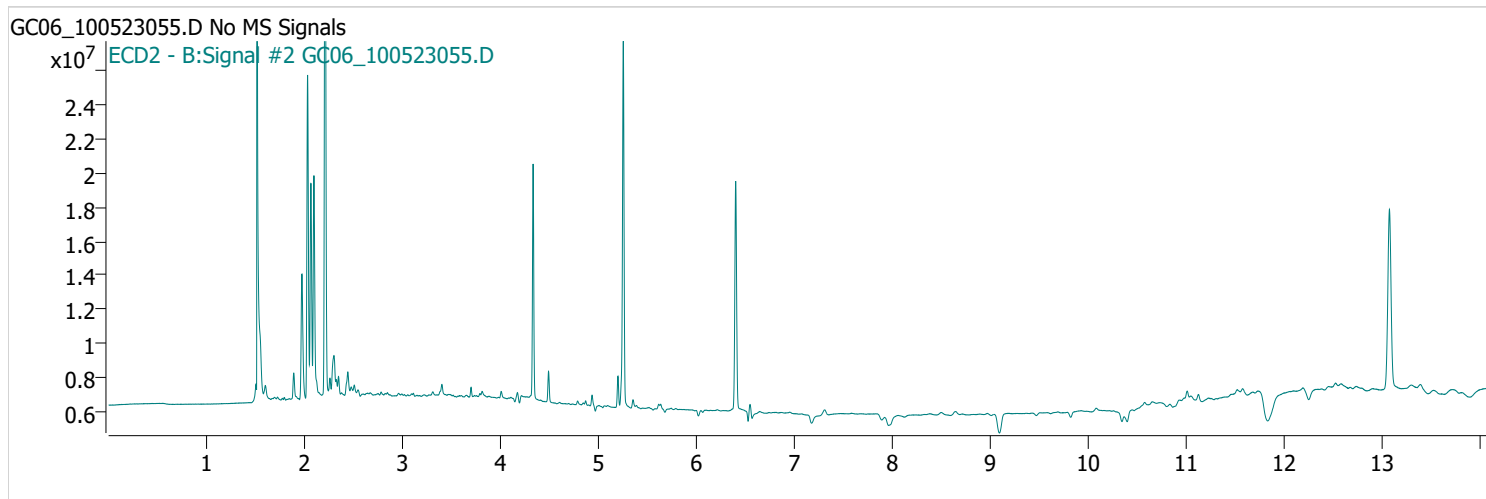
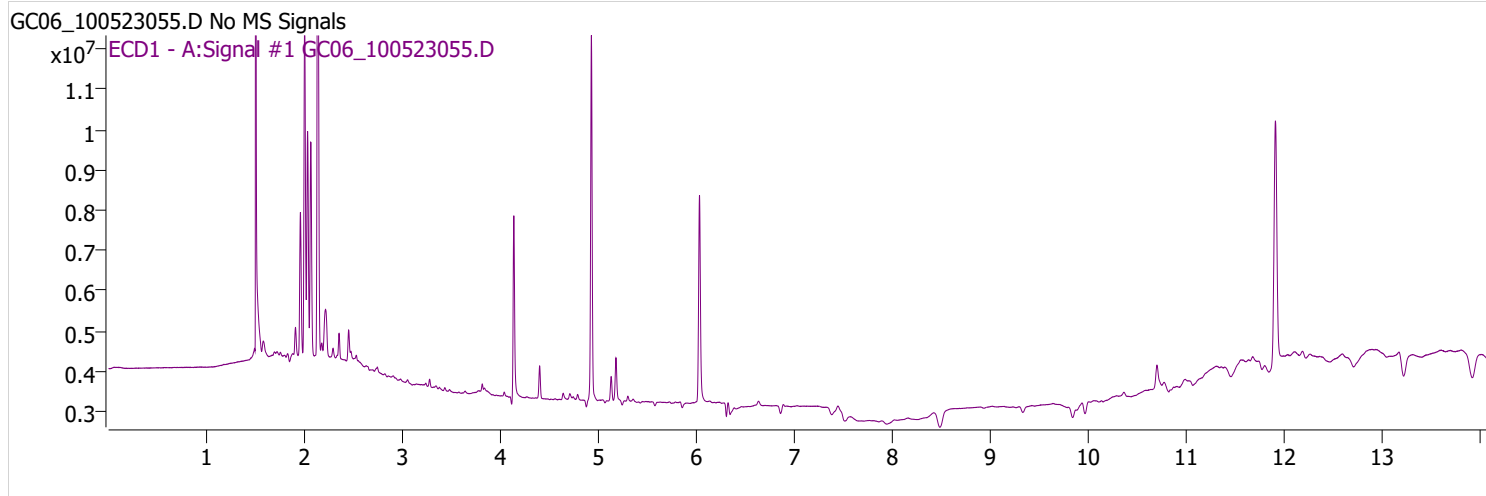
ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523055.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/6/2023 12:17:37 AM
Sample Name	493300-015, 323800, 1	Instrument	SVOA-GC06
Vial	16	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5297299.99 3	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.334	0.0	13228146.3 71	20.0000	ng/ml	-0.002
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	10464595.4 62	36.6065	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 183.03%	*	
S TCMX (PCB) #2	5.255	0.0	24461557.4 82	37.3264	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 186.63%	*	
S Decachlorobiphenyl (PCB)	11.914	0.0	12922455.7 29	35.2995	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 176.50%	*	
S Decachlorobiphenyl (PCB) #2	13.078	0.0	24976723.1 65	29.9582	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 149.79%		

Target Compounds

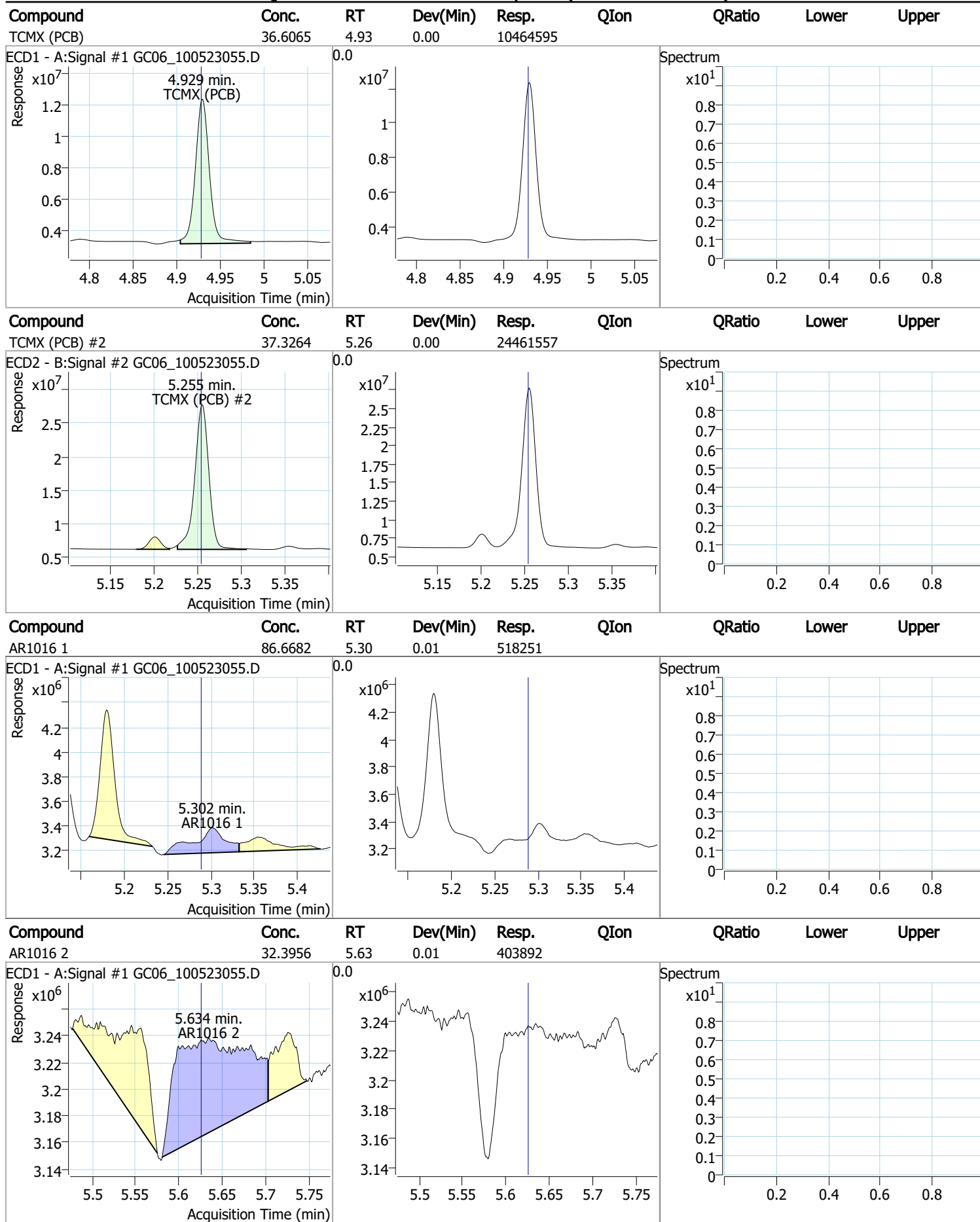
GC06_100523055.D

Quantitation Results Report (Not Reviewed)

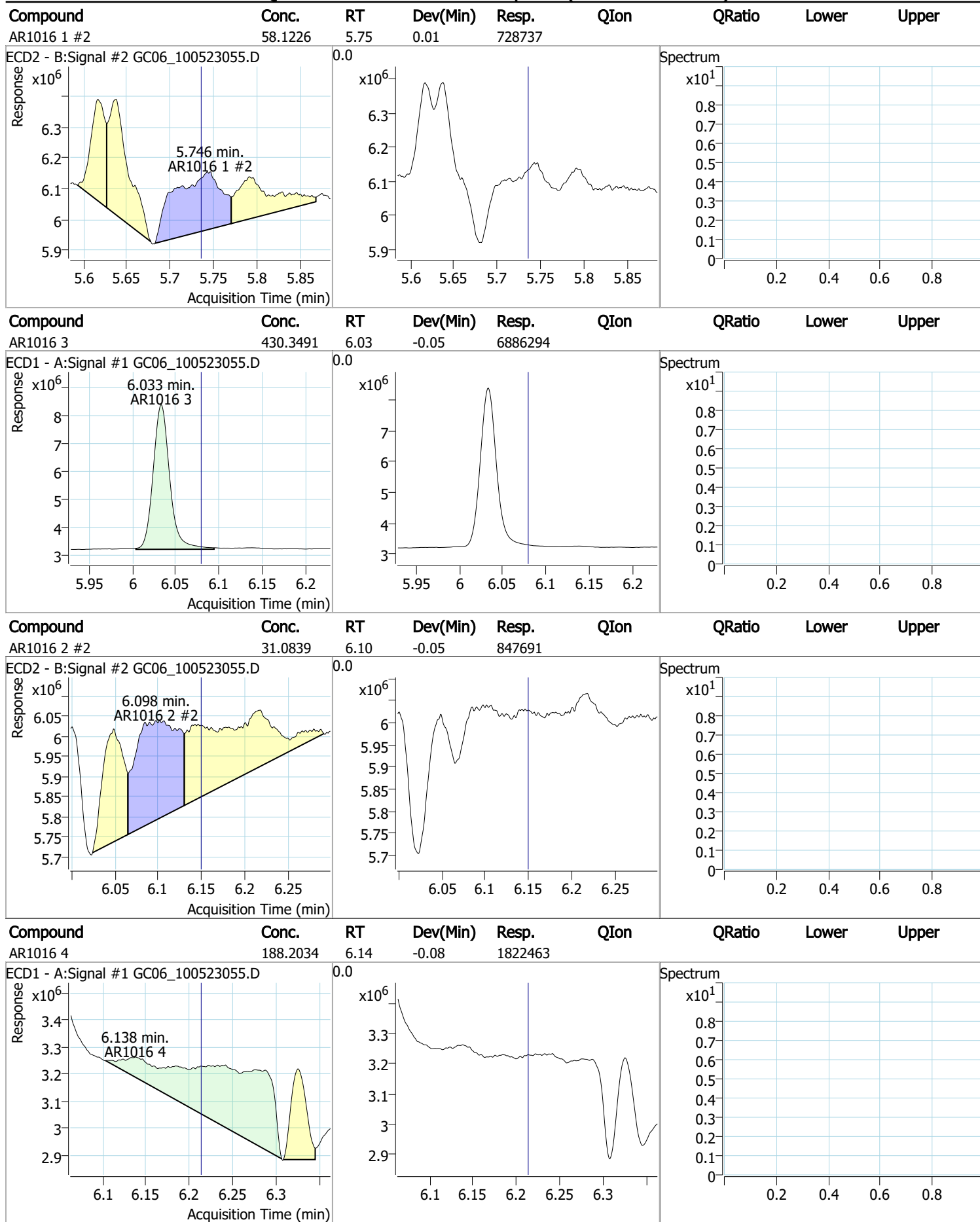
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.302	0.0	518251.112	86.6682	ng/ml	100
T AR1016 2	5.634	0.0	403892.348	32.3956	ng/ml	100
T AR1016 1 #2	5.746	0.0	728737.010	58.1226	ng/ml	100
T AR1016 3	6.033	0.0	6886294.150	430.3491	ng/ml	100
T AR1016 2 #2	6.098	0.0	847691.086	31.0839	ng/ml	100
T AR1016 4	6.138	0.0	1822462.963	188.2034	ng/ml	100
T AR1016 5	6.634	0.0	320306.337	32.4507	ng/ml	100
T AR1016 3 #2	6.648	0.0	2374086.307	65.9208	ng/ml	100
T AR1016 4 #2	6.865	0.0	143456.428	5.6899	ng/ml	100
T AR1016 5 #2	7.482	0.0	418365.919	20.3214	ng/ml	100
T AR1260 1	8.425	0.0	1038428.191	56.9691	ng/ml	100
T AR1260 2	9.028	0.0	157137.095	4.9557	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.695	0.0	1819202.981	48.6778	ng/ml	100
T AR1260 4	9.938	0.0	1220274.923	75.5869	ng/ml	100
T AR1260 2 #2	9.935	0.0	263446.488	5.8593	ng/ml	100
T AR1260 3 #2	10.368	0.0	466117.960	8.2353	ng/ml	100
T AR1260 5	10.704	0.0	1688639.757	64.6457	ng/ml	100
T AR1260 4 #2	10.839	0.0	273786.575	8.3247	ng/ml	100
T AR1260 5 #2	11.523	0.0	1456264.763	29.7906	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

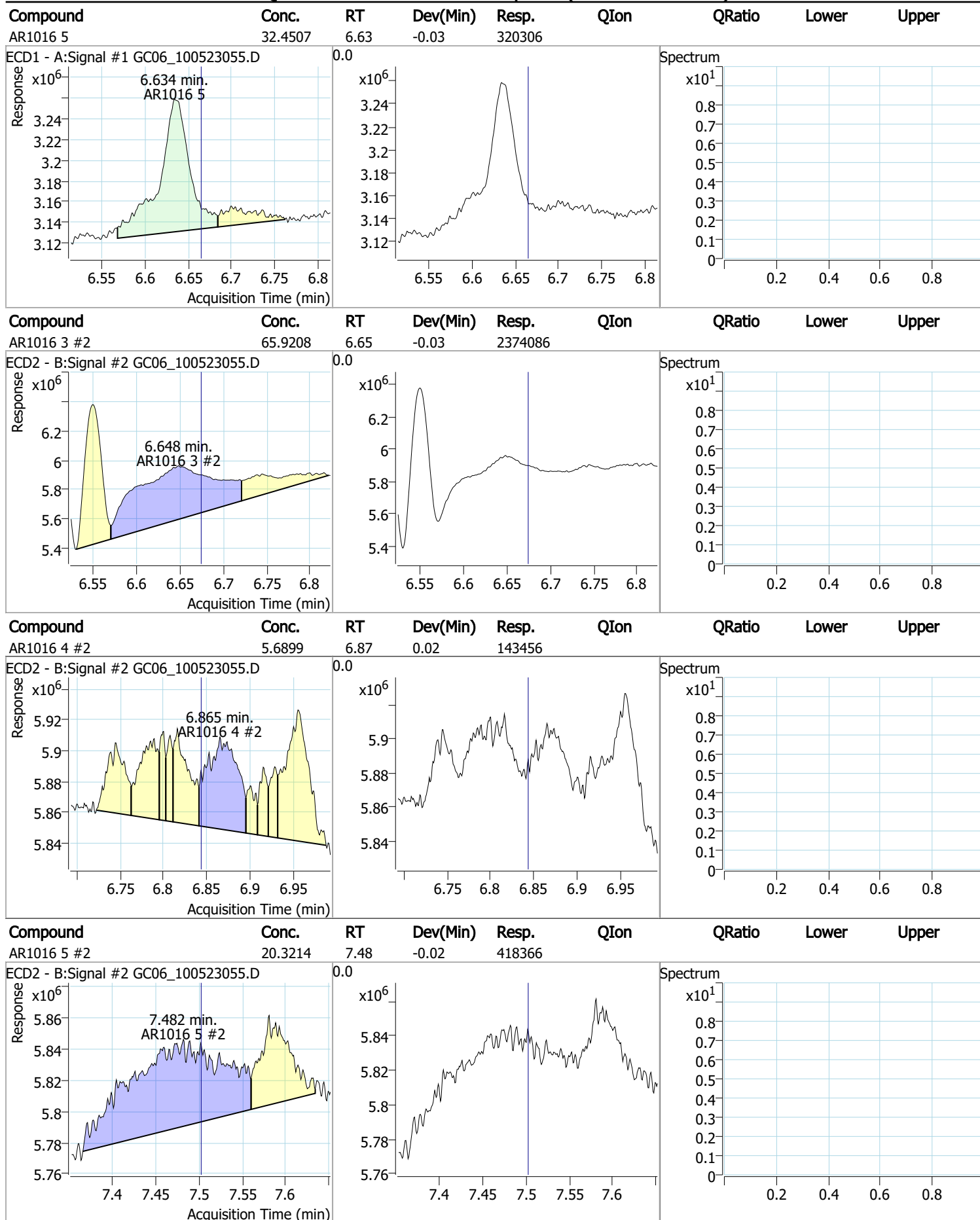
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

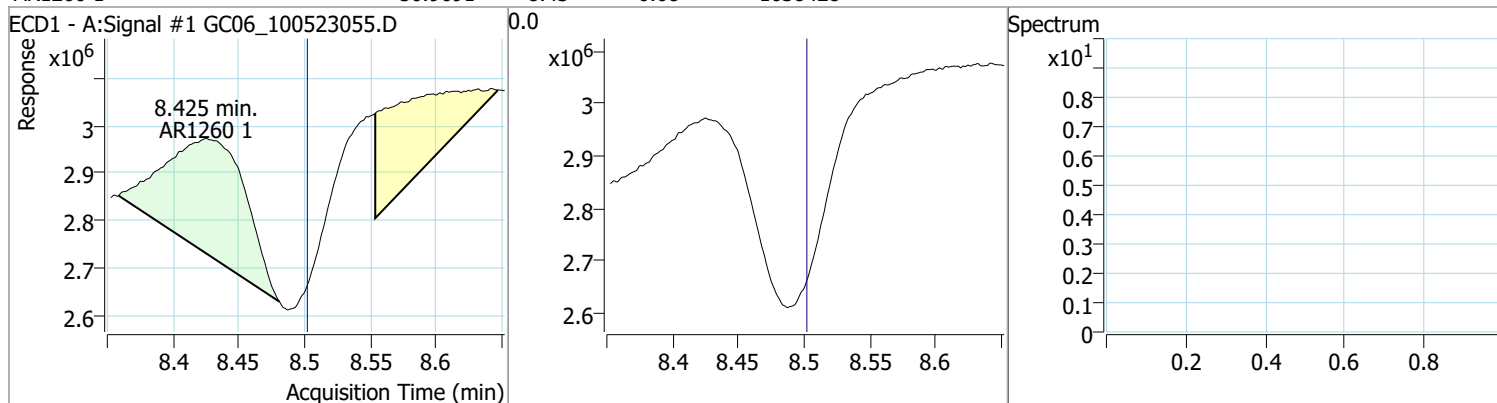


Quantitation Results Report (Not Reviewed)

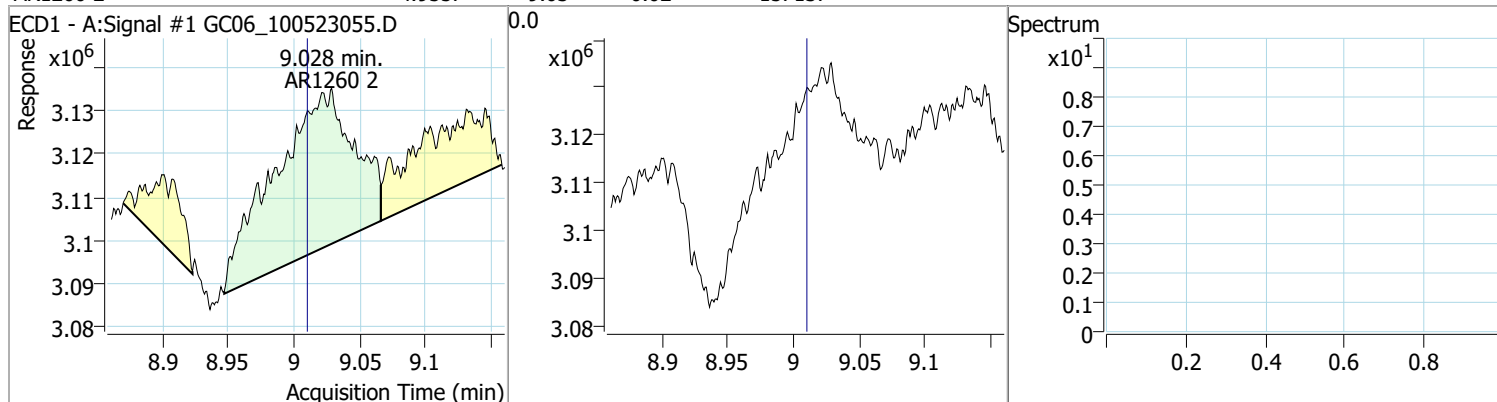


Quantitation Results Report (Not Reviewed)

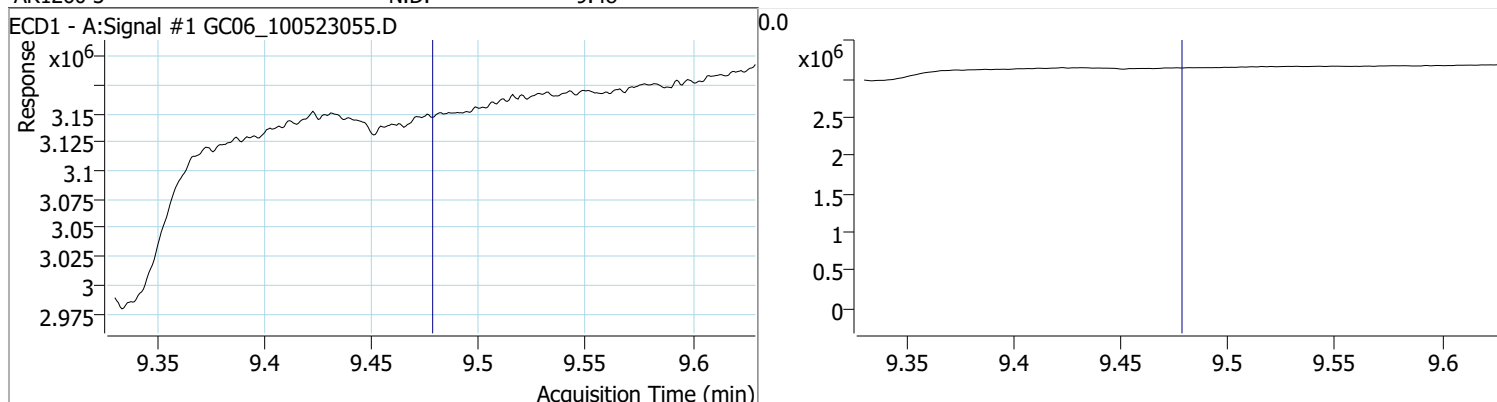
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	56.9691	8.43	-0.08	1038428				



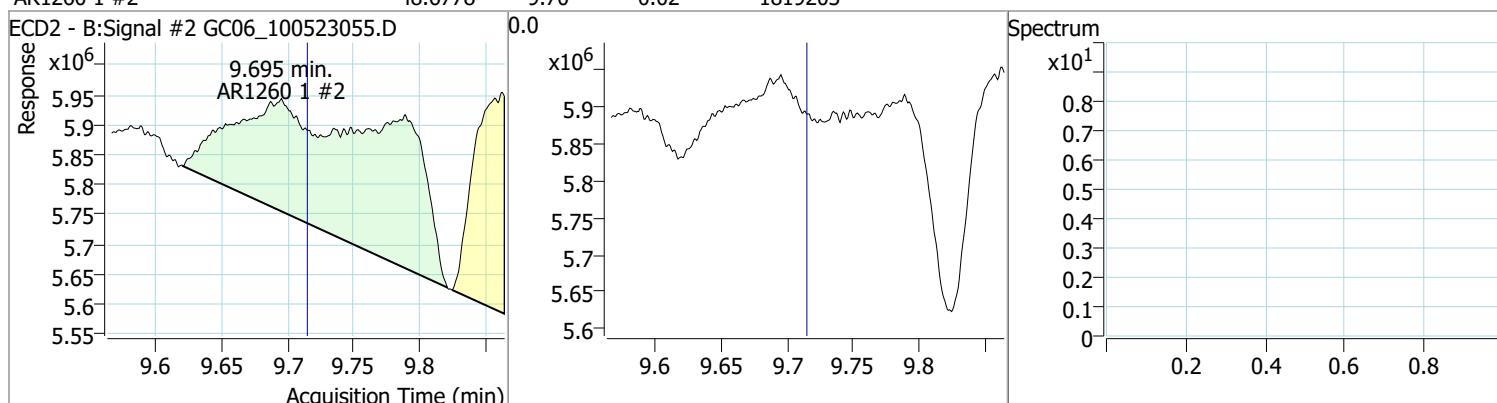
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	4.9557	9.03	0.02	157137				



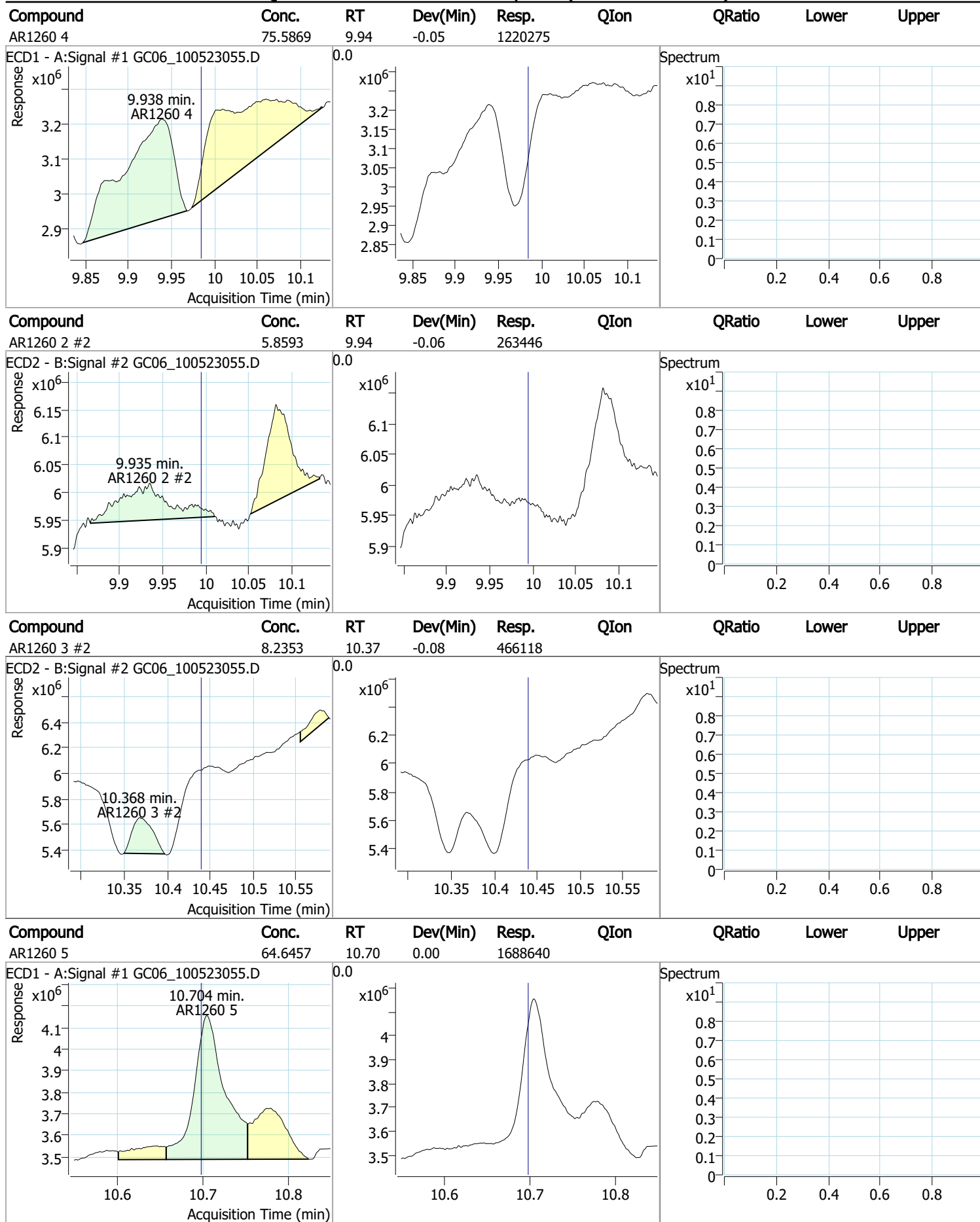
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.48		



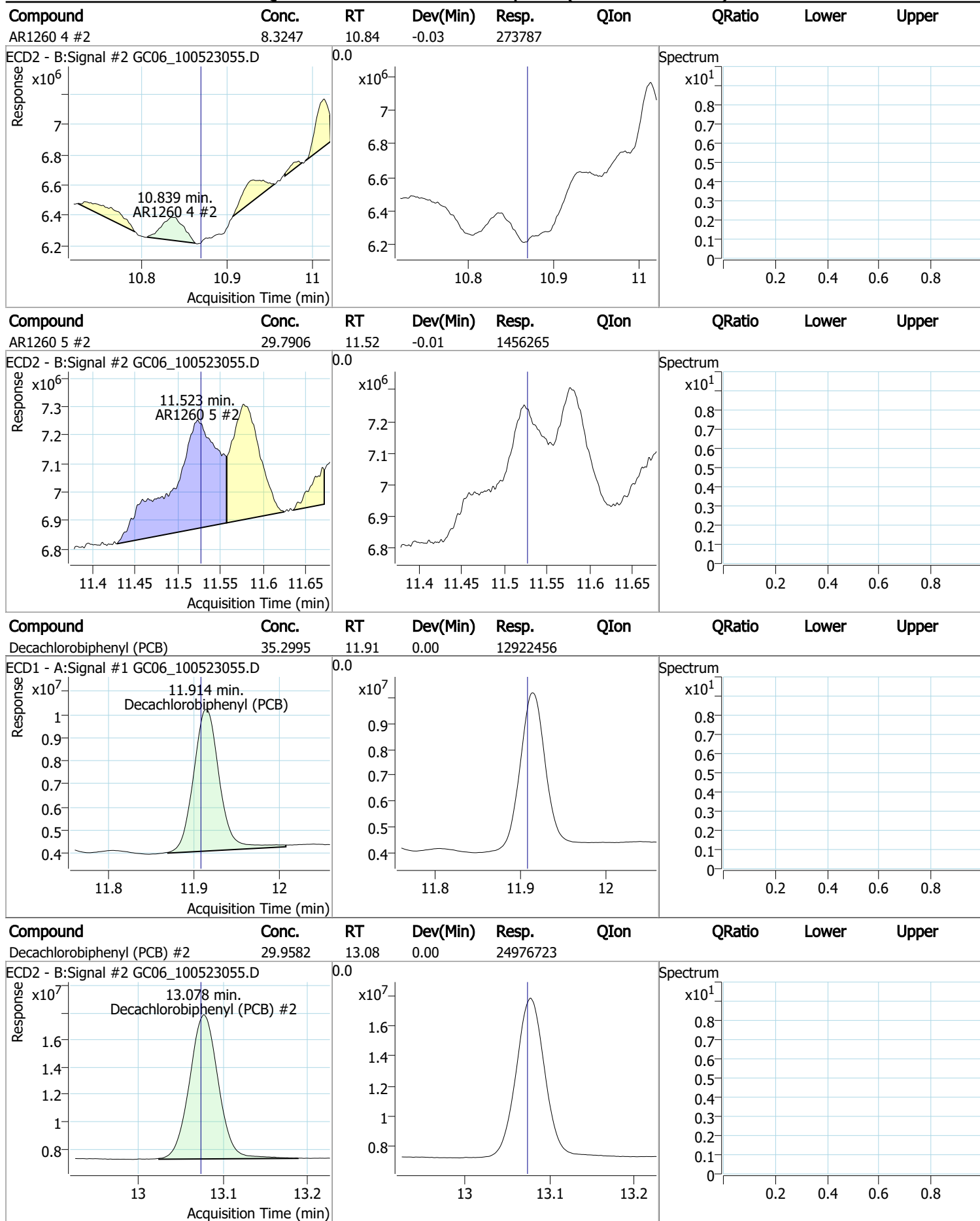
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	48.6778	9.70	-0.02	1819203				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-017	Client ID: ARCH-C8E-PS-2.5-231003-P-G
Seqnum: 453400820056	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523056	Batch: 323800	Time: 06-OCT-2023 00:35
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	46.53	ND	1.2	88%	0.50		u
Aroclor-1016 Peak # 1	B	51.65	0.52	0.87	51%			
Aroclor-1016 Peak # 2	B	52.35	0.52	0.27	65%			
Aroclor-1016 Peak # 3	B	89.19	0.89	3.80	124%			
Aroclor-1016 Peak # 4	B	4.376	0.04	0.61	173%			
Aroclor-1016 Peak # 5	B	35.10	0.35	0.46	28%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	19.94	ND	0.38	62%	0.50		u
Aroclor-1260 Peak # 1	B	39.12	0.39	0.31	23%			
Aroclor-1260 Peak # 2	B	2.710	0.03	0.02	12%			
Aroclor-1260 Peak # 3	B	6.758	0.07	0.25	114%			
Aroclor-1260 Peak # 4	B	9.977	0.10	0.60	143%			
Aroclor-1260 Peak # 5	B	41.12	0.41	0.70	52%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	29.94	0.5000	0.2994	60	19-121	c+ u
Decachlorobiphenyl (PCB)	B	25.17	0.5000	0.2517	50	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	13324006	3.52
1-bromo-2-nitrobenzene (PCB)	A	5358611	5194985	-3.05

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.33	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

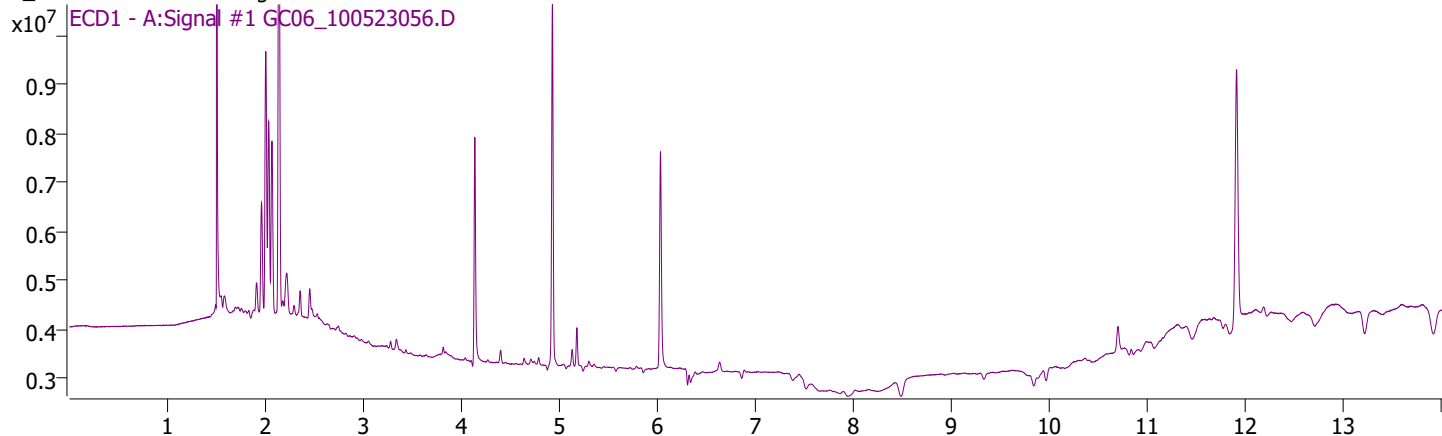
Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

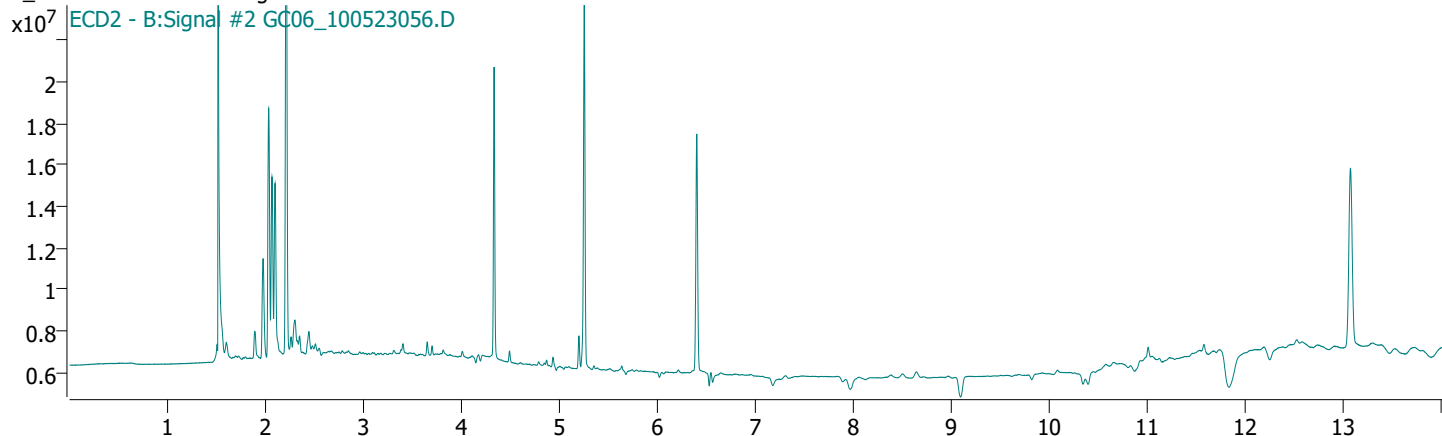
Quantitation Results Report (Not Reviewed)

Data File	GC06_100523056.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/6/2023 12:35:45 AM
Sample Name	493300-017, 323800, 1	Instrument	SVOA-GC06
Vial	17	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			

GC06_100523056.D No MS Signals



GC06_100523056.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5194985.37 5	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.334	0.0	13324005.7 36	20.0000	ng/ml	-0.002
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	8526843.78 1	30.4154	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 152.08%	*	
S TCMX (PCB) #2	5.254	0.0	19761923.4 82	29.9381	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 149.69%		
S Decachlorobiphenyl (PCB)	11.913	0.0	10885219.5 65	30.3201	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 151.60%	*	
S Decachlorobiphenyl (PCB) #2	13.076	0.0	21138132.5 65	25.1716	ng/ml	-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 125.86%		

Target Compounds

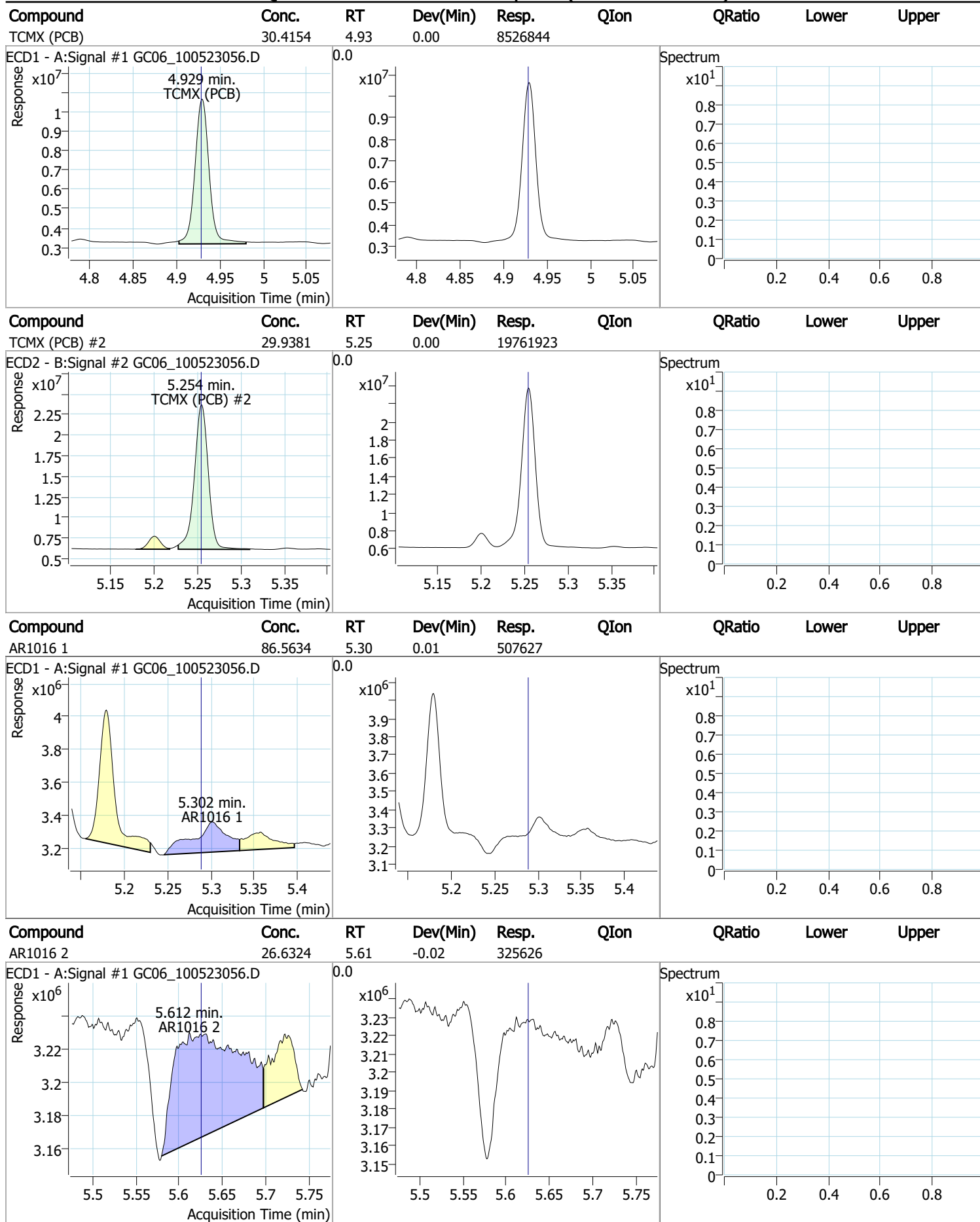
QValue

Quantitation Results Report (Not Reviewed)

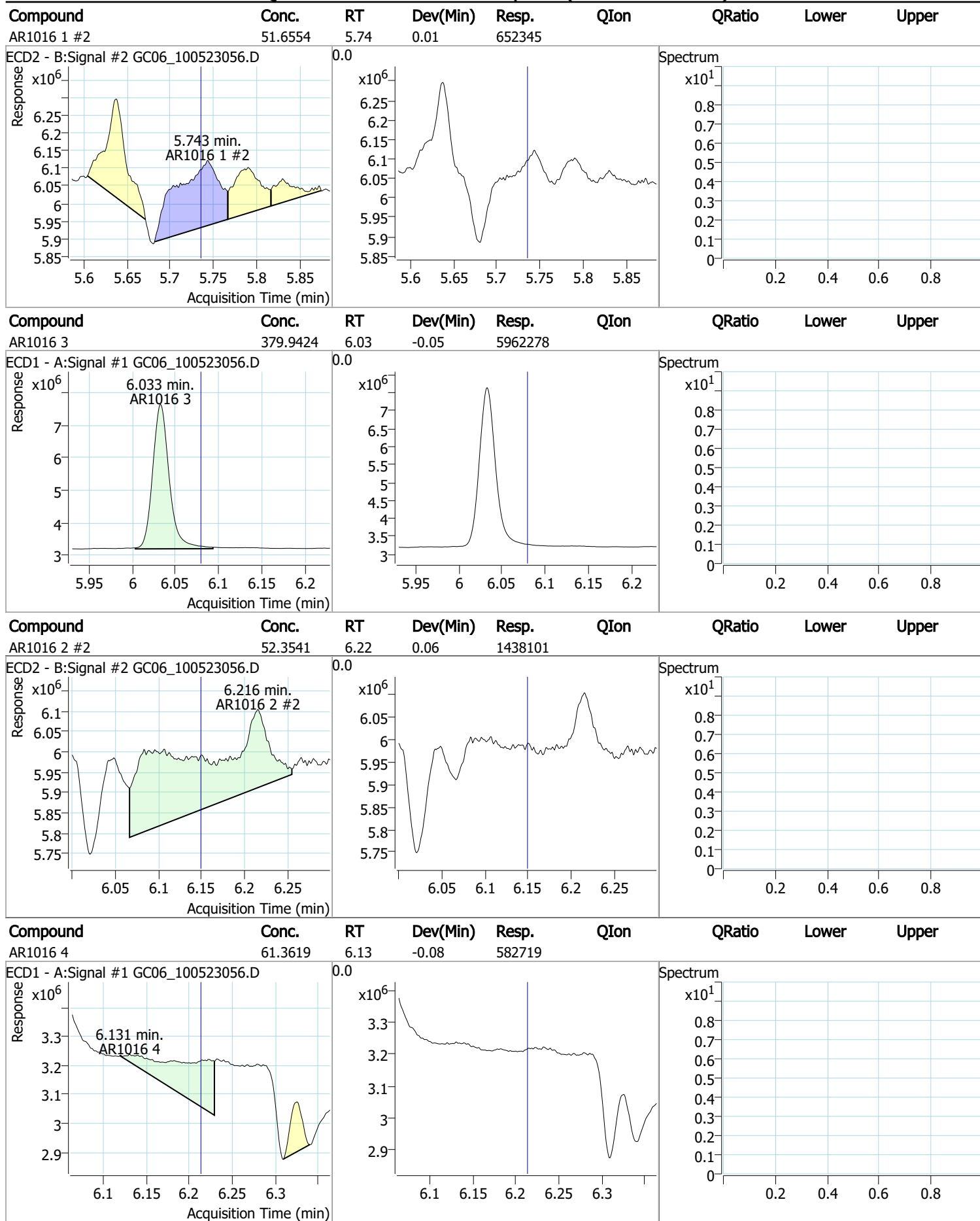
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.302	0.0	507626.641	86.5634	ng/ml	100
T AR1016 2	5.612	0.0	325626.427	26.6324	ng/ml	100
T AR1016 1 #2	5.743	0.0	652345.316	51.6554	ng/ml	100
T AR1016 3	6.033	0.0	5962277.579	379.9424	ng/ml	100
T AR1016 2 #2	6.216	0.0	1438100.551	52.3541	ng/ml	100
T AR1016 4	6.131	0.0	582719.457	61.3619	ng/ml	100
T AR1016 5	6.637	0.0	448572.615	46.3405	ng/ml	100
T AR1016 3 #2	6.649	0.0	3235273.746	89.1870	ng/ml	100
T AR1016 4 #2	6.869	0.0	111119.285	4.3756	ng/ml	100
T AR1016 5 #2	7.492	0.0	727855.345	35.0999	ng/ml	100
T AR1260 1	8.426	0.0	555207.571	31.0591	ng/ml	100
T AR1260 2	9.021	0.0	75083.256	2.4146	ng/ml	100
T AR1260 3	9.524	0.0	781505.814	24.6556	ng/ml	100
T AR1260 1 #2	9.697	0.0	1472711.620	39.1230	ng/ml	100
T AR1260 4	9.942	0.0	956356.926	60.4059	ng/ml	100
T AR1260 2 #2	9.991	0.0	122752.685	2.7105	ng/ml	100
T AR1260 3 #2	10.368	0.0	385294.805	6.7583	ng/ml	100
T AR1260 5	10.703	0.0	1801387.097	70.3202	ng/ml	100
T AR1260 4 #2	10.831	0.0	330494.309	9.9766	ng/ml	100
T AR1260 5 #2	11.581	0.0	2024634.666	41.1196	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

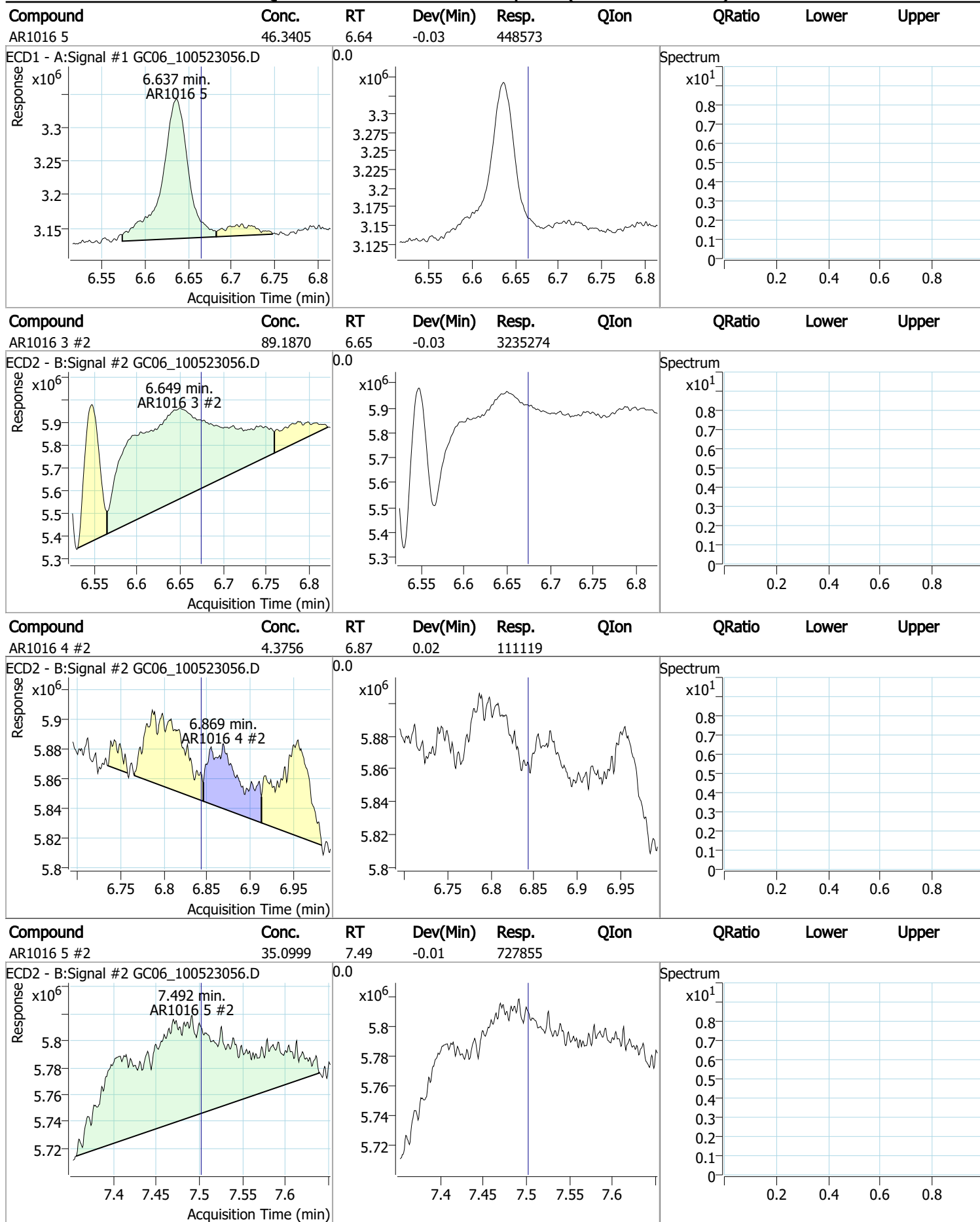
Quantitation Results Report (Not Reviewed)



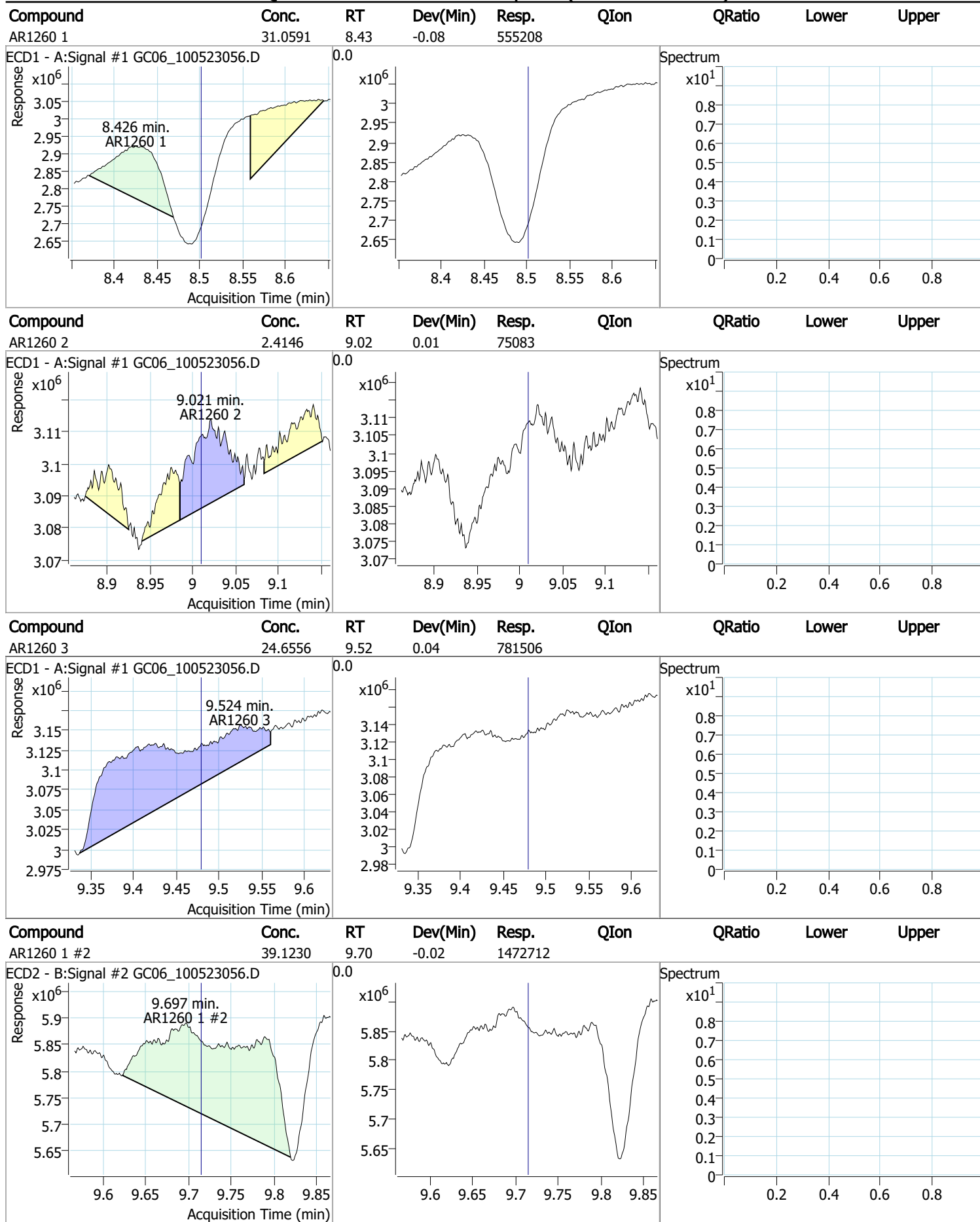
Quantitation Results Report (Not Reviewed)



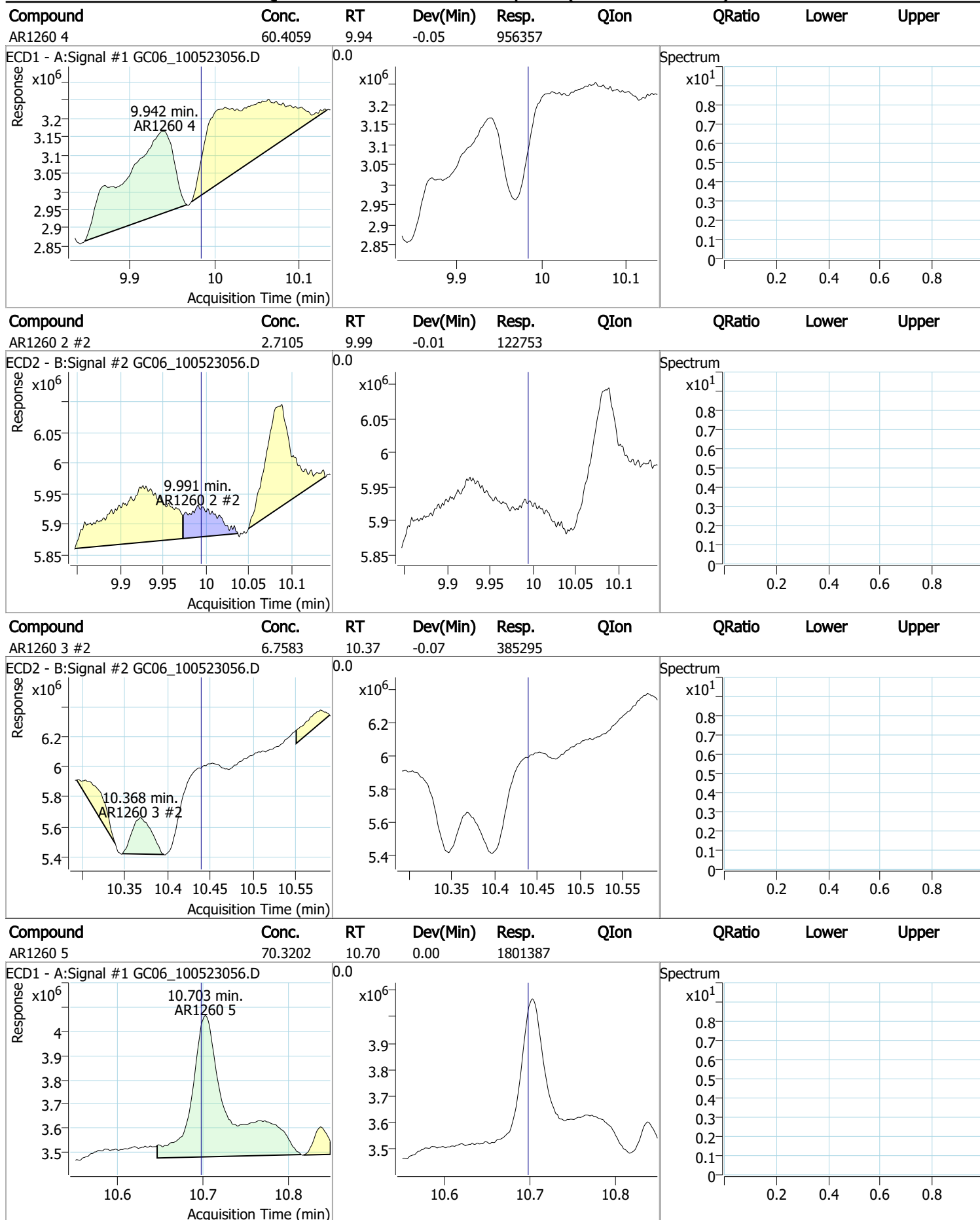
Quantitation Results Report (Not Reviewed)



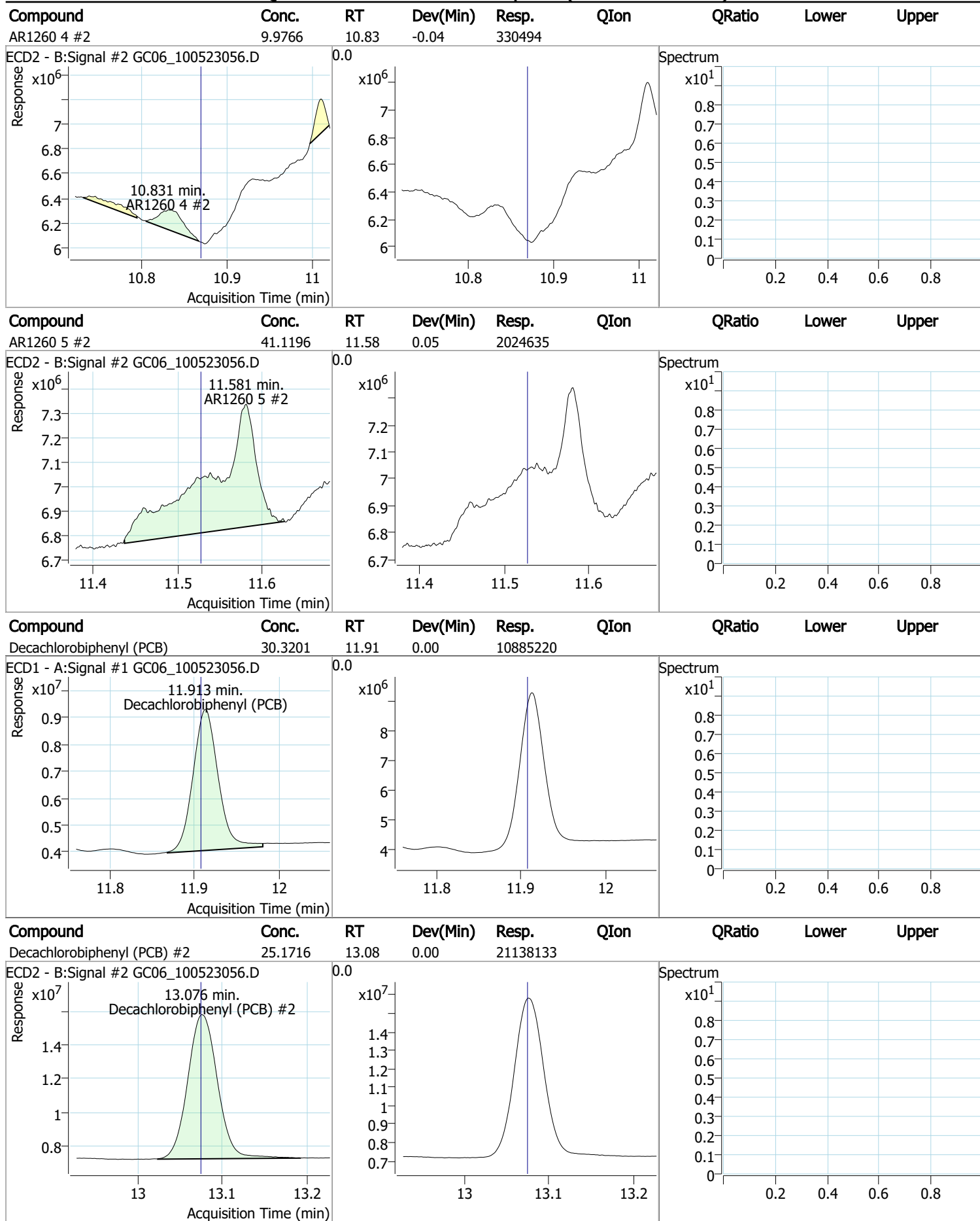
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-019	Client ID: ARCH-C10E-PS-2.5-231003-P-G
Seqnum: 453400820057	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523057	Batch: 323800	Time: 06-OCT-2023 00:53
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	37.23	ND	0.96	88%	0.50		u
Aroclor-1016 Peak # 1	B	91.74	0.92	0.90	2%			
Aroclor-1016 Peak # 2	B	20.48	0.20	0.04	138%			
Aroclor-1016 Peak # 3	B	58.07	0.58	1.55	91%			
Aroclor-1016 Peak # 4	B	5.698	0.06	1.91	188%			
Aroclor-1016 Peak # 5	B	10.15	0.10	0.42	123%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	15.95	ND	0.33	68%	0.50		u
Aroclor-1260 Peak # 1	B	40.50	0.40	0.41	2%			
Aroclor-1260 Peak # 2	B	2.159	0.02	0.04	51%			
Aroclor-1260 Peak # 3	B	7.422	0.07	ND				
Aroclor-1260 Peak # 4	B	5.382	0.05	0.80	175%			
Aroclor-1260 Peak # 5	B	24.27	0.24	0.37	42%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	31.83	0.5000	0.3183	64	19-121	c+ u
Decachlorobiphenyl (PCB)	B	25.20	0.5000	0.2520	50	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	14289404	11.02
1-bromo-2-nitrobenzene (PCB)	A	5358611	5587245	4.27

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.34	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

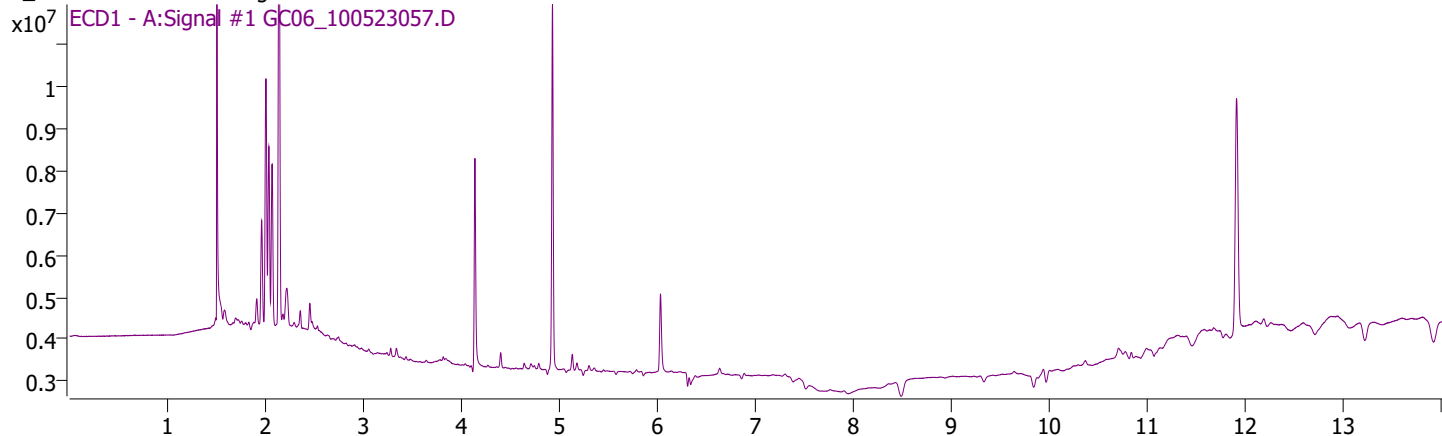
Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

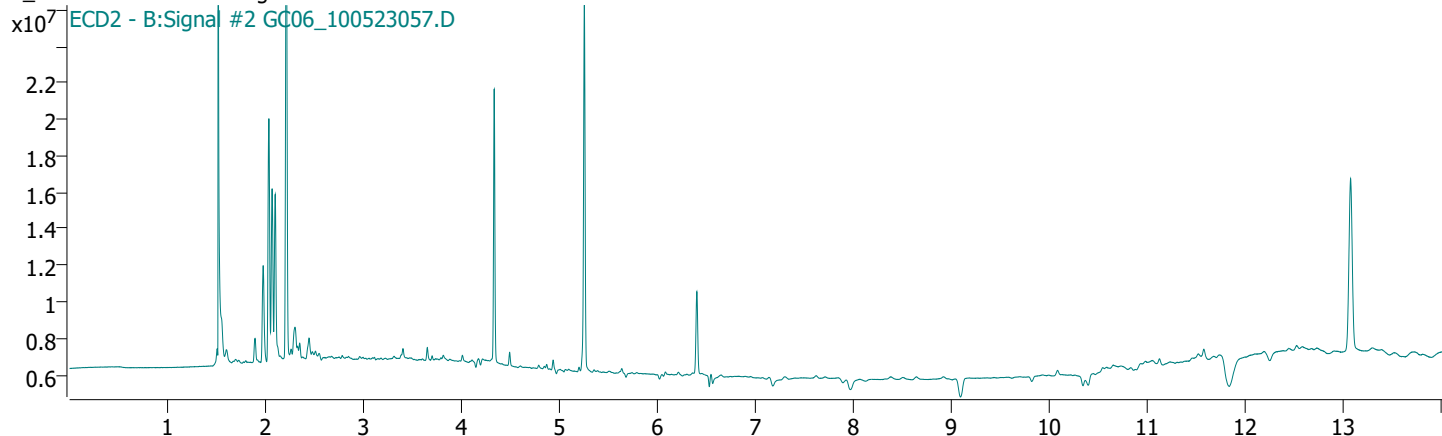
Quantitation Results Report (Not Reviewed)

Data File	GC06_100523057.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/6/2023 12:53:59 AM
Sample Name	493300-019, 323800, 1	Instrument	SVOA-GC06
Vial	18	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			

GC06_100523057.D No MS Signals



GC06_100523057.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5587244.88 4	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.335	0.0	14289404.3 17	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	9626917.86 7	31.9286	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 159.64%	*	
S TCMX (PCB) #2	5.255	0.0	22536786.2 60	31.8353	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 159.18%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	11622229.6 91	30.1002	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 150.50%	*	
S Decachlorobiphenyl (PCB) #2	13.078	0.0	22695271.1 09	25.2000	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 126.00%		

Target Compounds

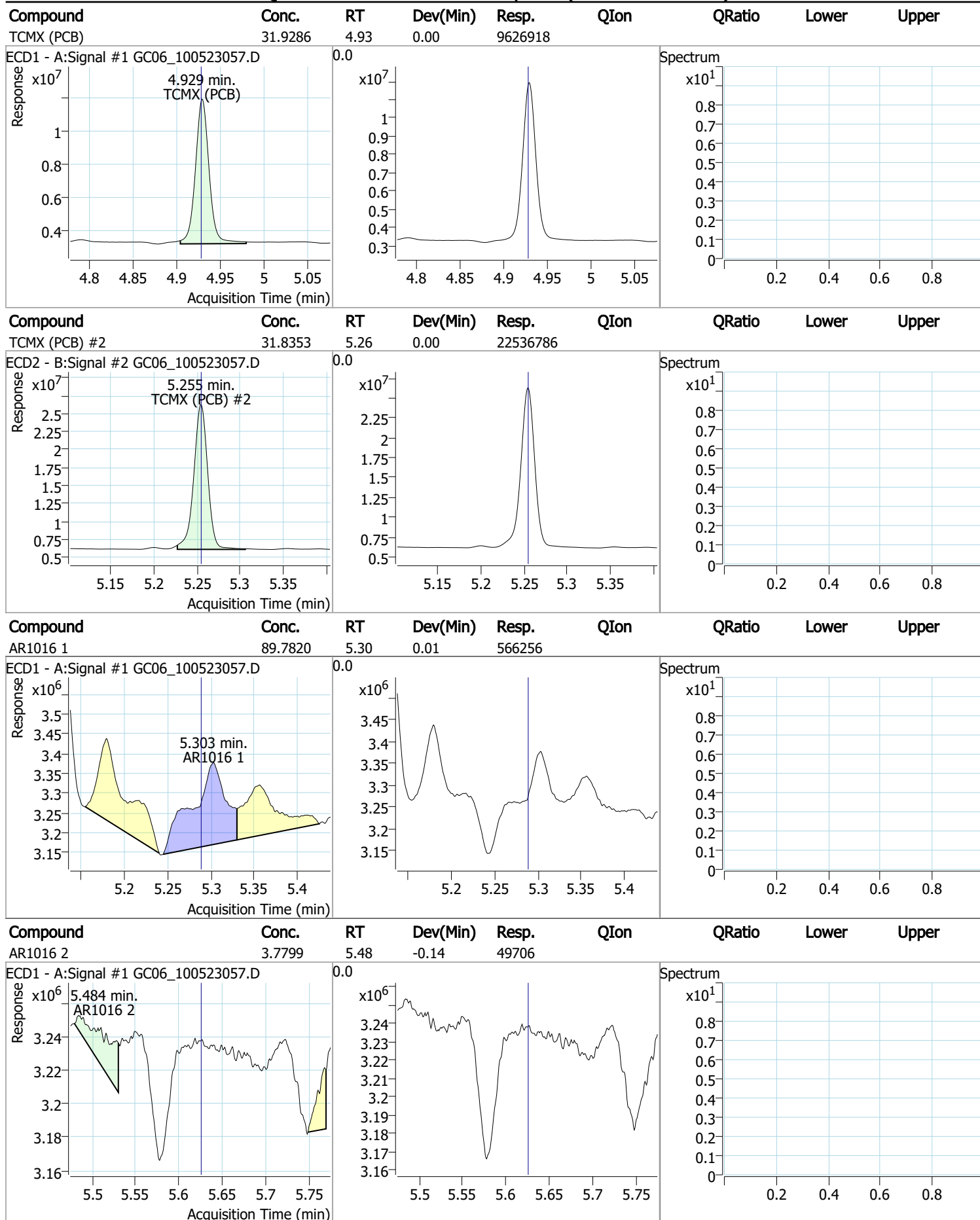
QValue

Quantitation Results Report (Not Reviewed)

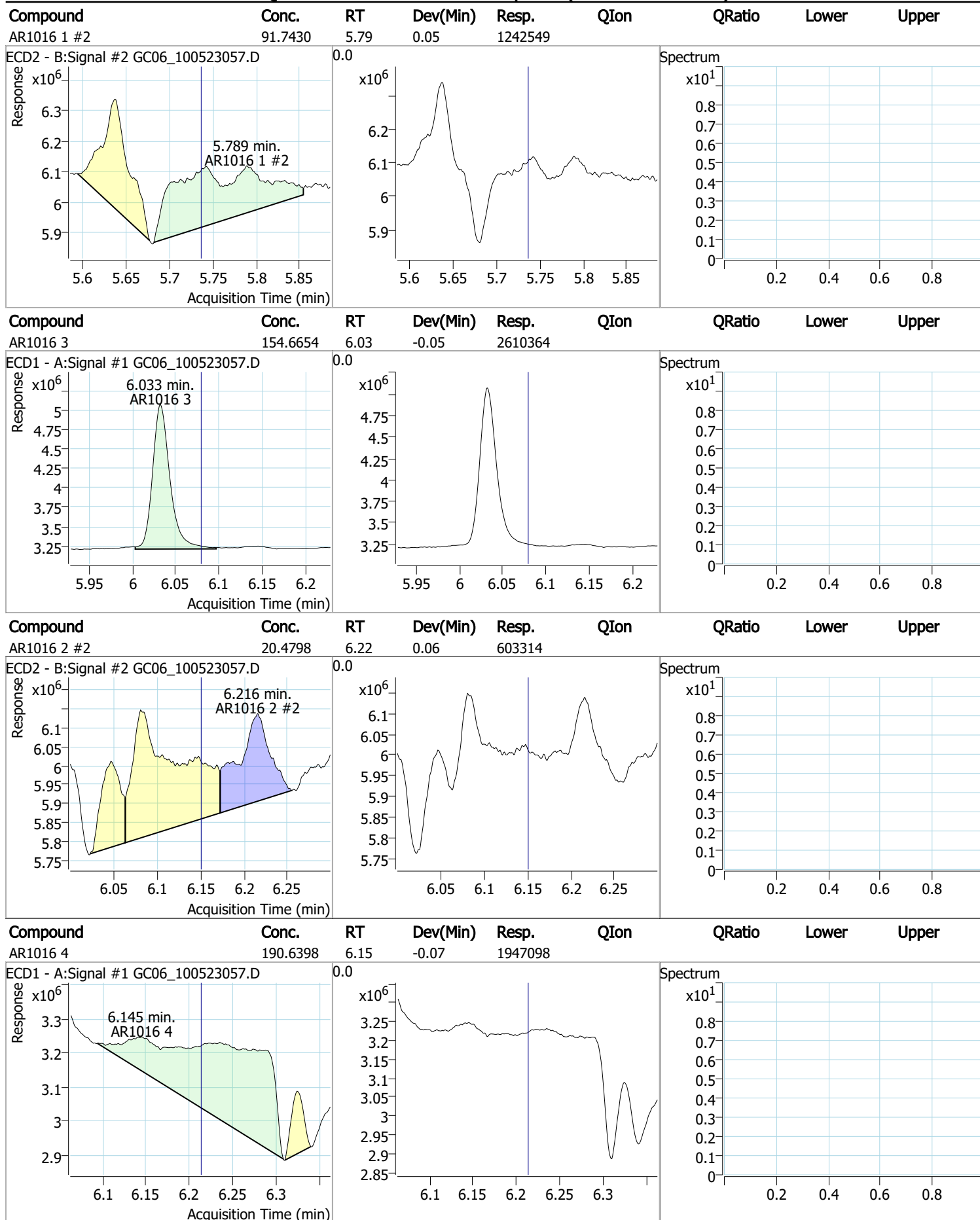
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.303	0.0	566256.443	89.7820	ng/ml	100
T AR1016 2	5.484	0.0	49705.794	3.7799	ng/ml	100
T AR1016 1 #2	5.789	0.0	1242549.187	91.7430	ng/ml	100
T AR1016 3	6.033	0.0	2610364.288	154.6654	ng/ml	100
T AR1016 2 #2	6.216	0.0	603313.869	20.4798	ng/ml	100
T AR1016 4	6.145	0.0	1947098.021	190.6398	ng/ml	100
T AR1016 5	6.637	0.0	440683.534	42.3294	ng/ml	100
T AR1016 3 #2	6.650	0.0	2259019.912	58.0672	ng/ml	100
T AR1016 4 #2	6.836	0.0	155194.855	5.6983	ng/ml	100
T AR1016 5 #2	7.469	0.0	225759.159	10.1514	ng/ml	100
T AR1260 1	8.426	0.0	796228.917	41.4150	ng/ml	100
T AR1260 2	9.017	0.0	121546.789	3.6343	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.698	0.0	1634850.504	40.4960	ng/ml	100
T AR1260 4	9.941	0.0	1367004.591	80.2816	ng/ml	100
T AR1260 2 #2	9.991	0.0	104864.871	2.1591	ng/ml	100
T AR1260 3 #2	10.368	0.0	453772.541	7.4217	ng/ml	100
T AR1260 5	10.708	0.0	1027746.668	37.3032	ng/ml	100
T AR1260 4 #2	10.831	0.0	191225.770	5.3825	ng/ml	100
T AR1260 5 #2	11.523	0.0	1281768.634	24.2735	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

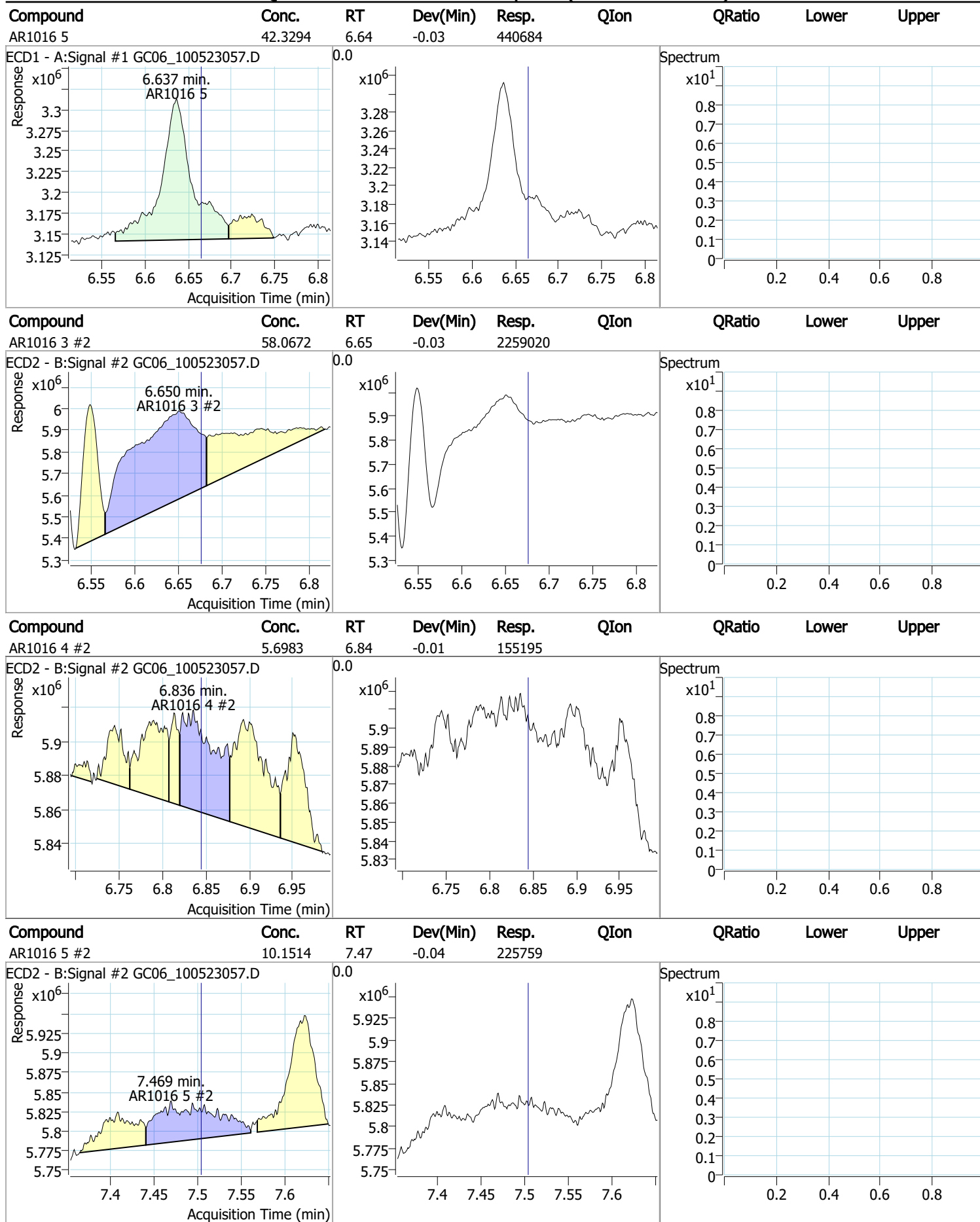
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

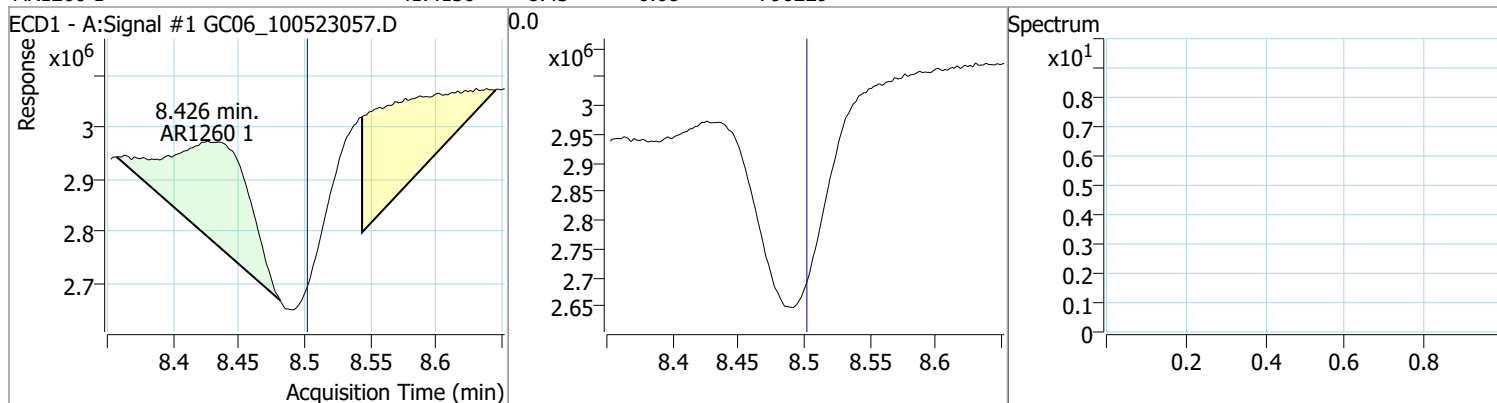


Quantitation Results Report (Not Reviewed)

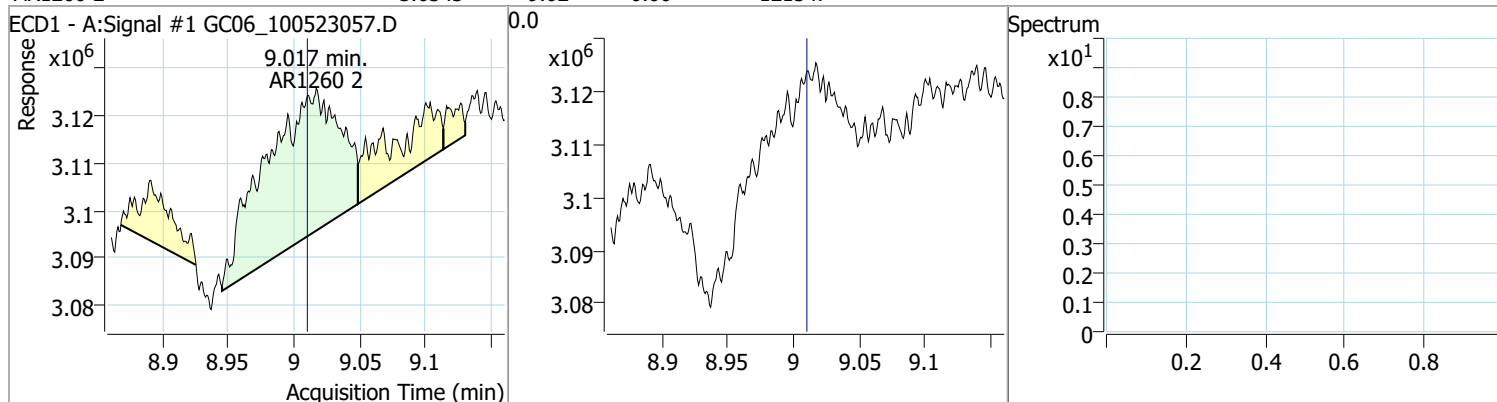


Quantitation Results Report (Not Reviewed)

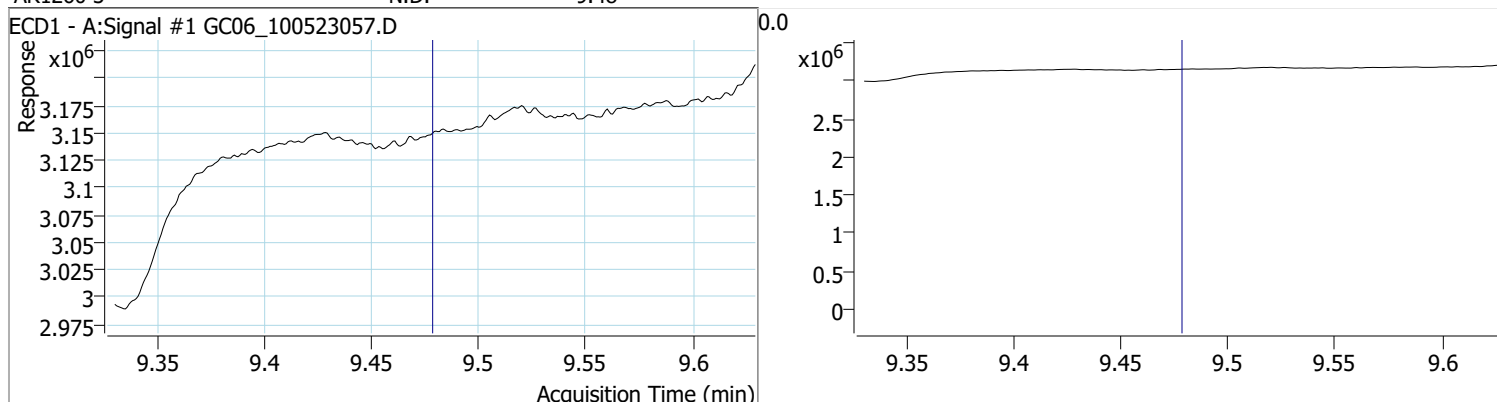
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	41.4150	8.43	-0.08	796229				



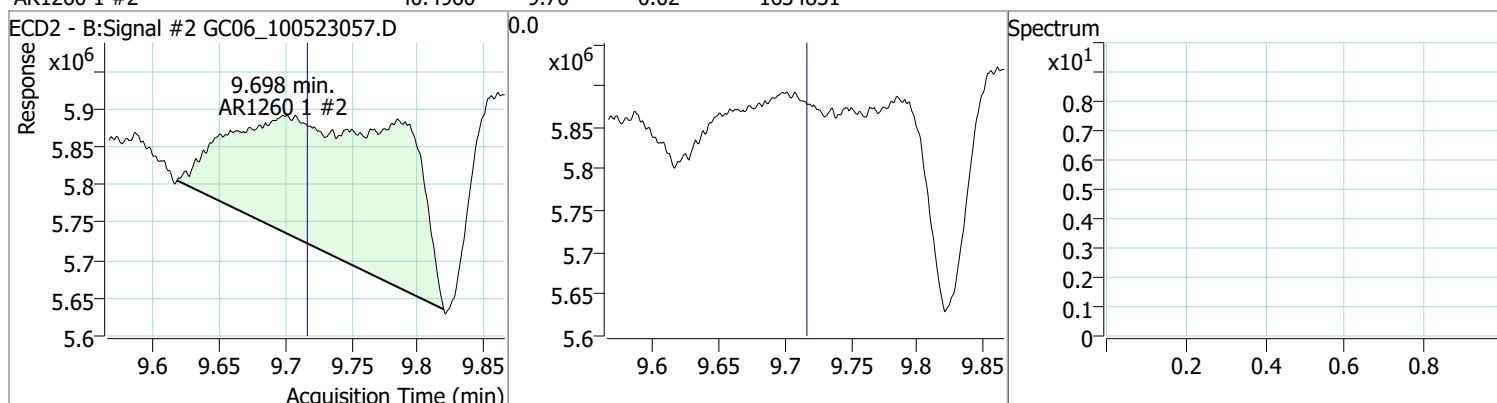
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	3.6343	9.02	0.00	121547				



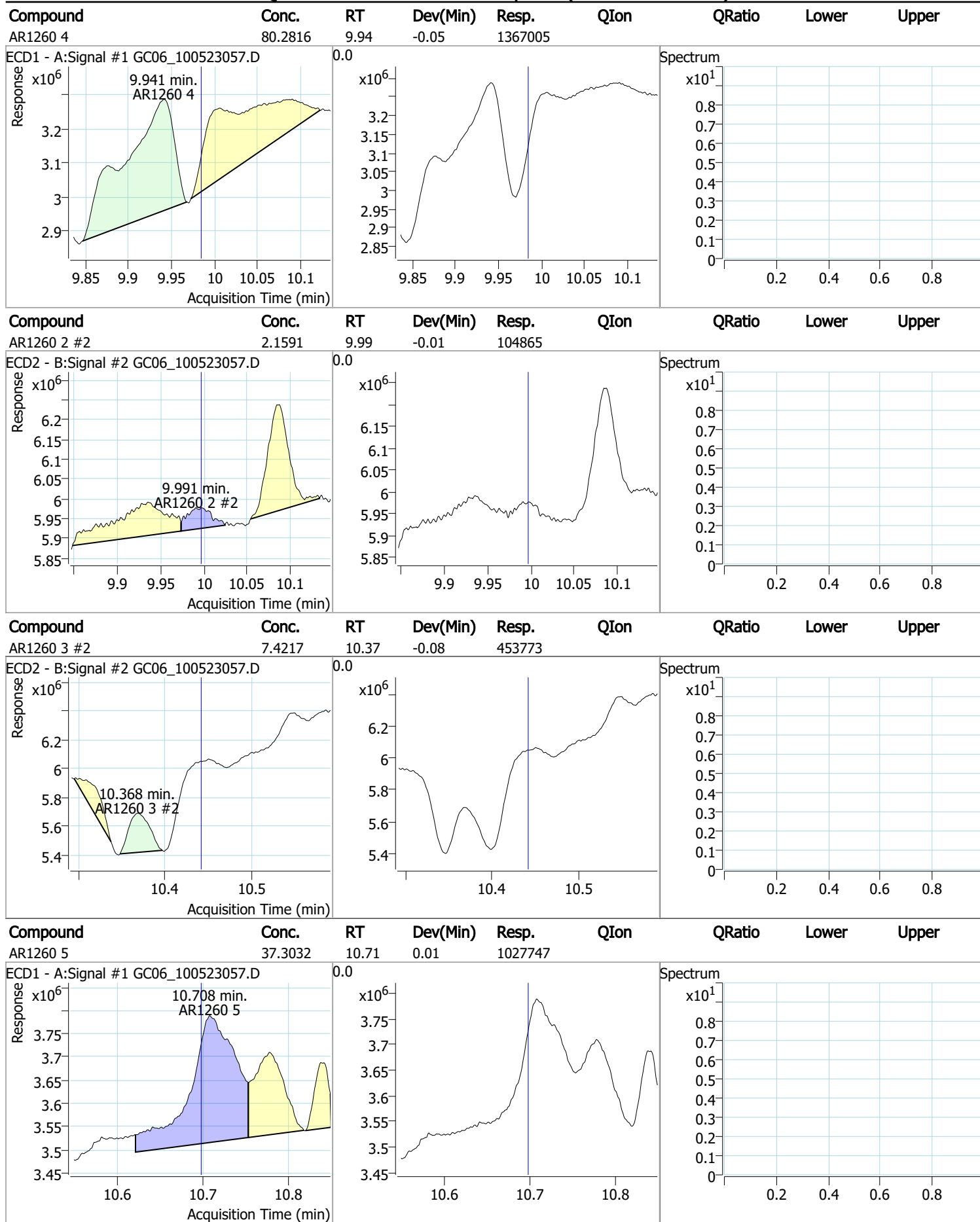
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.48		



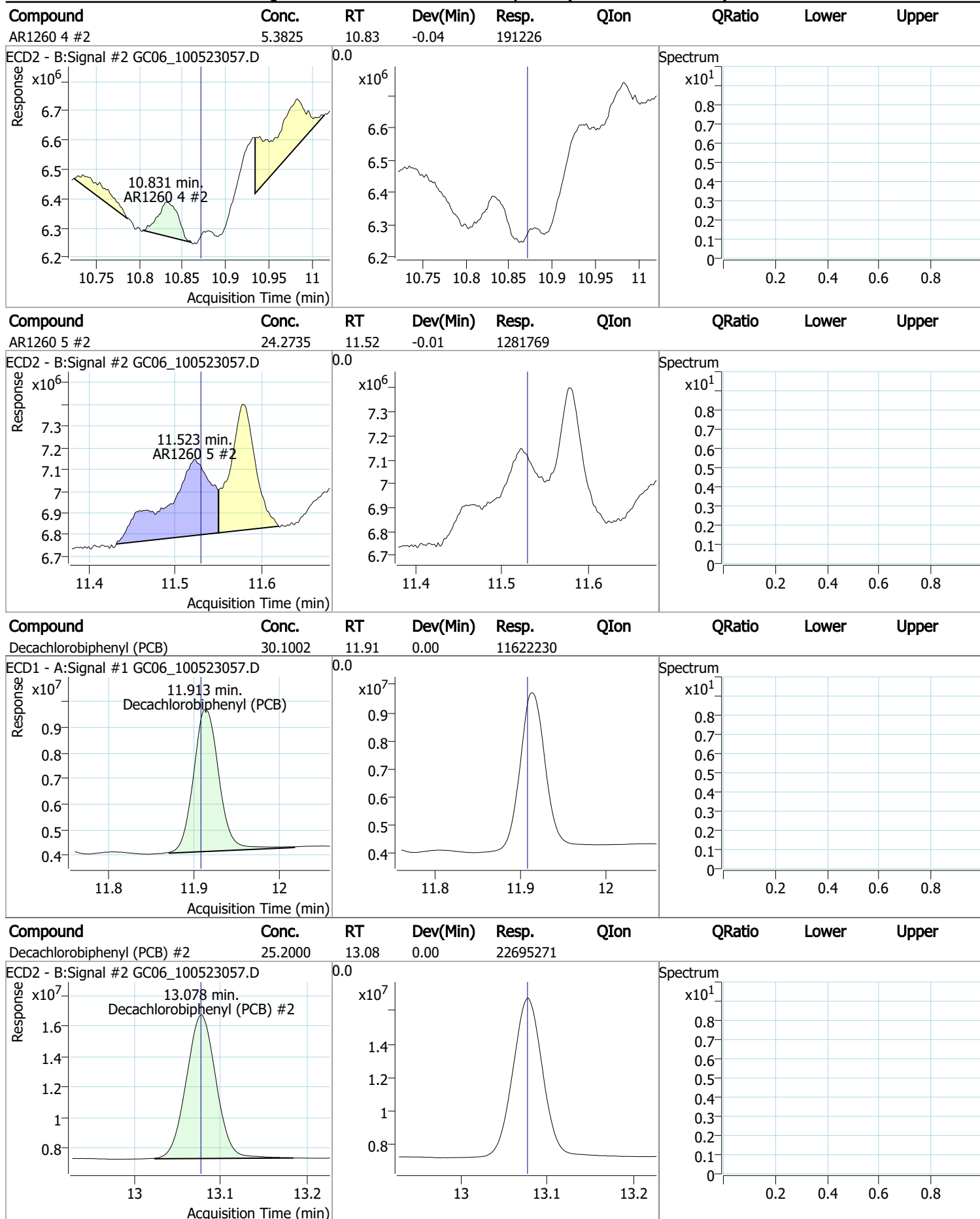
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	40.4960	9.70	-0.02	1634851				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-021	Client ID: ARCH-C8E-DG-3 TO 3.5-231003-P-FB
Seqnum: 453400820058	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523058	Batch: 323800	Time: 06-OCT-2023 01:12
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	44.94	ND	1.8	119%	0.50		u
Aroclor-1016 Peak # 1	B	75.66	0.76	1.14	41%			
Aroclor-1016 Peak # 2	B	32.30	0.32	0.55	52%			
Aroclor-1016 Peak # 3	B	91.93	0.92	4.80	136%			
Aroclor-1016 Peak # 4	B	3.092	0.03	2.04	194%			
Aroclor-1016 Peak # 5	B	21.73	0.22	0.38	55%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	14.78	ND	0.35	81%	0.50		u
Aroclor-1260 Peak # 1	B	32.76	0.33	0.45	32%			
Aroclor-1260 Peak # 2	B	2.045	0.02	0.05	76%			
Aroclor-1260 Peak # 3	B	6.192	0.06	ND				
Aroclor-1260 Peak # 4	B	7.274	0.07	0.56	154%			
Aroclor-1260 Peak # 5	B	25.62	0.26	0.69	92%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	36.30	0.5000	0.3630	73	19-121	c+ u
Decachlorobiphenyl (PCB)	B	28.44	0.5000	0.2844	57	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	13205350	2.60
1-bromo-2-nitrobenzene (PCB)	A	5358611	5191259	-3.12

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.33	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

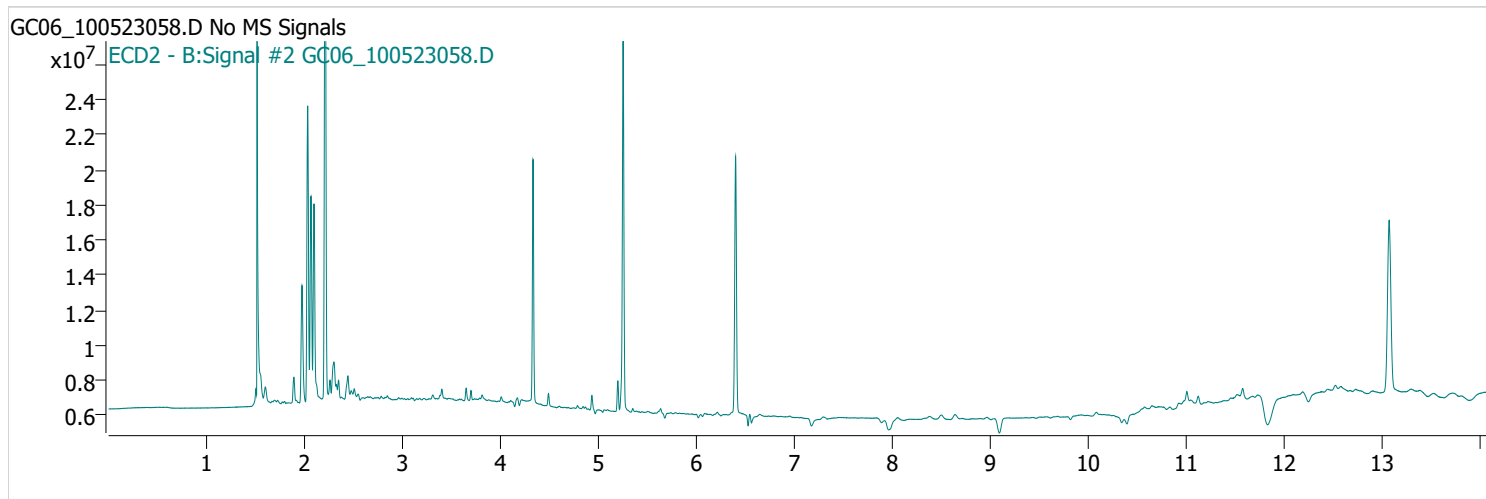
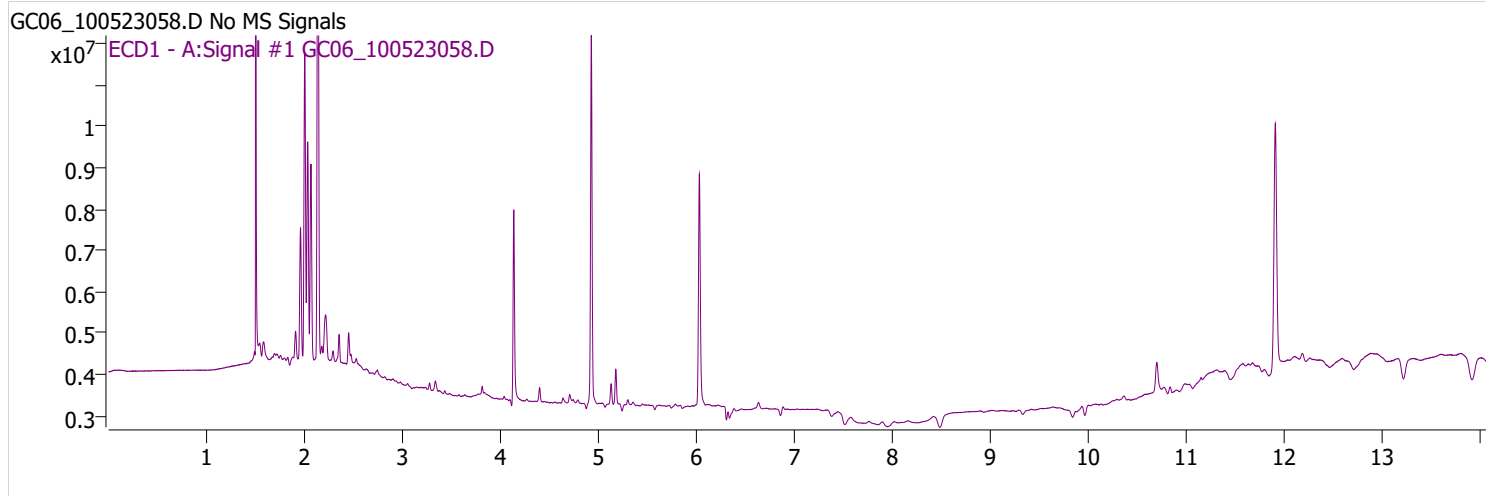
ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523058.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/6/2023 1:12:09 AM
Sample Name	493300-021, 323800, 1	Instrument	SVOA-GC06
Vial	19	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5191258.53 1	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.334	0.0	13205349.6 80	20.0000	ng/ml	-0.002
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	10202001.2 55	36.4169	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 182.08%	*	
S TCMX (PCB) #2	5.255	0.0	23749236.4 78	36.3020	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 181.51%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	12122704.0 24	33.7913	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 168.96%	*	
S Decachlorobiphenyl (PCB) #2	13.077	0.0	23667877.7 97	28.4373	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 142.19%		

Target Compounds

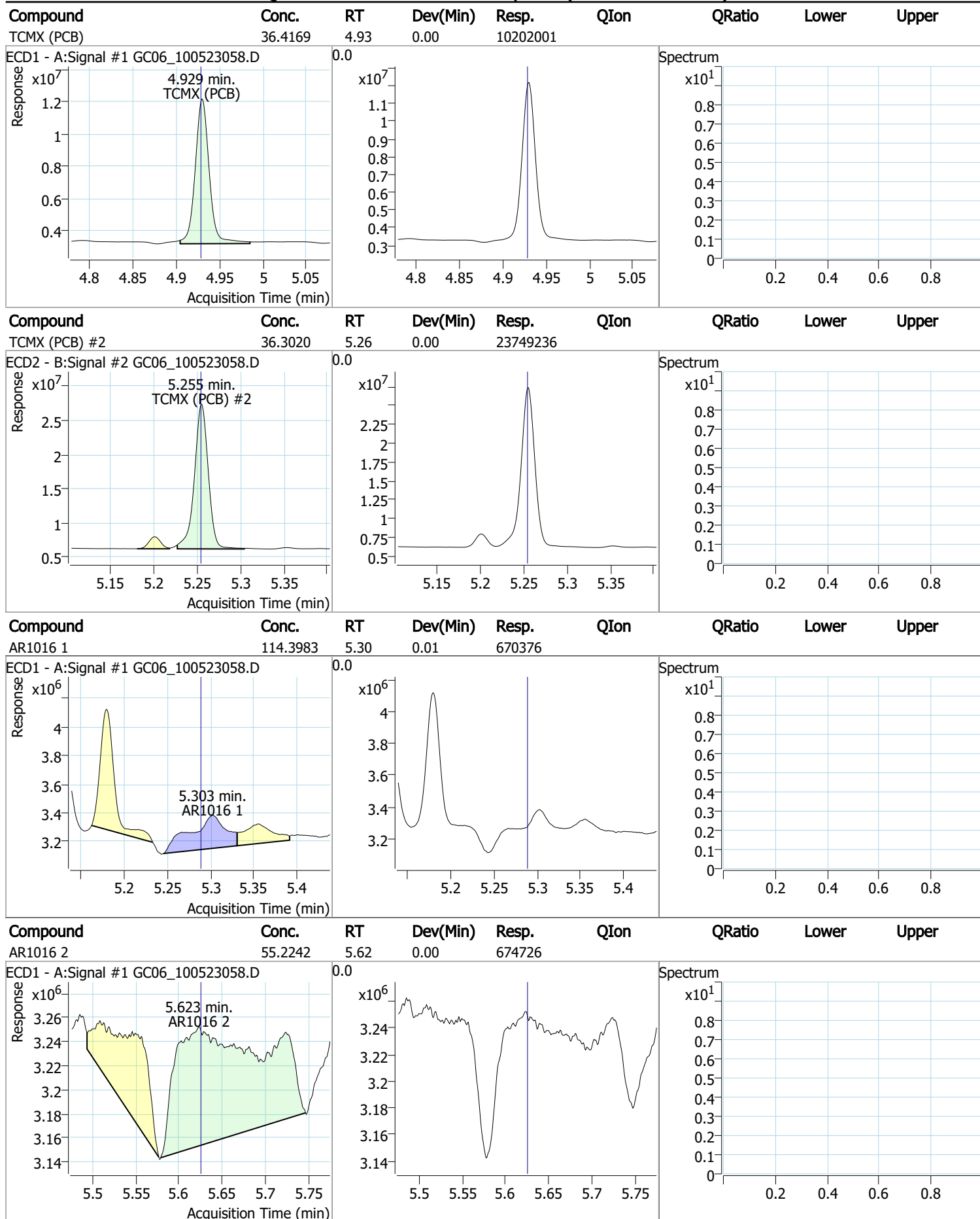
GC06_100523058.D

Quantitation Results Report (Not Reviewed)

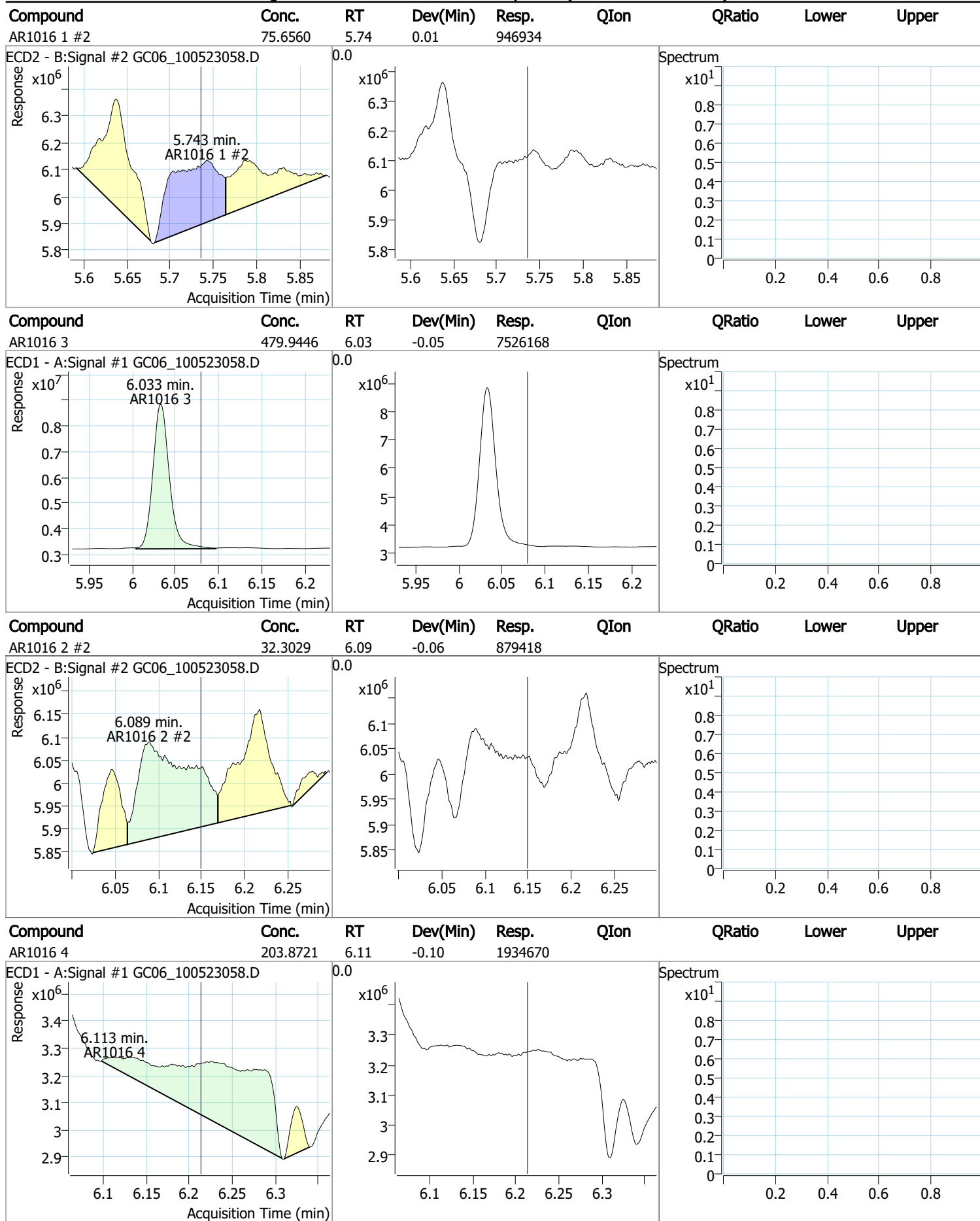
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.303	0.0	670375.571	114.3983	ng/ml	100
T AR1016 2	5.623	0.0	674725.522	55.2242	ng/ml	100
T AR1016 1 #2	5.743	0.0	946934.181	75.6560	ng/ml	100
T AR1016 3	6.033	0.0	7526167.53 1	479.9446	ng/ml	100
T AR1016 2 #2	6.089	0.0	879417.937	32.3029	ng/ml	100
T AR1016 4	6.113	0.0	1934670.37 6	203.8721	ng/ml	100
T AR1016 5	6.637	0.0	370337.519	38.2858	ng/ml	100
T AR1016 3 #2	6.650	0.0	3305213.88 6	91.9337	ng/ml	100
T AR1016 4 #2	6.864	0.0	77827.417	3.0922	ng/ml	100
T AR1016 5 #2	7.458	0.0	446536.365	21.7271	ng/ml	100
T AR1260 1	8.425	0.0	808678.164	45.2711	ng/ml	100
T AR1260 2	9.028	0.0	141901.013	4.5666	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.691	0.0	1222047.65 8	32.7557	ng/ml	100
T AR1260 4	9.939	0.0	889702.389	56.2362	ng/ml	100
T AR1260 2 #2	9.999	0.0	91772.401	2.0446	ng/ml	100
T AR1260 3 #2	10.369	0.0	349865.820	6.1920	ng/ml	100
T AR1260 5	10.704	0.0	1767180.73 8	69.0344	ng/ml	100
T AR1260 4 #2	10.838	0.0	238821.015	7.2741	ng/ml	100
T AR1260 5 #2	11.522	0.0	1250088.13 2	25.6170	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

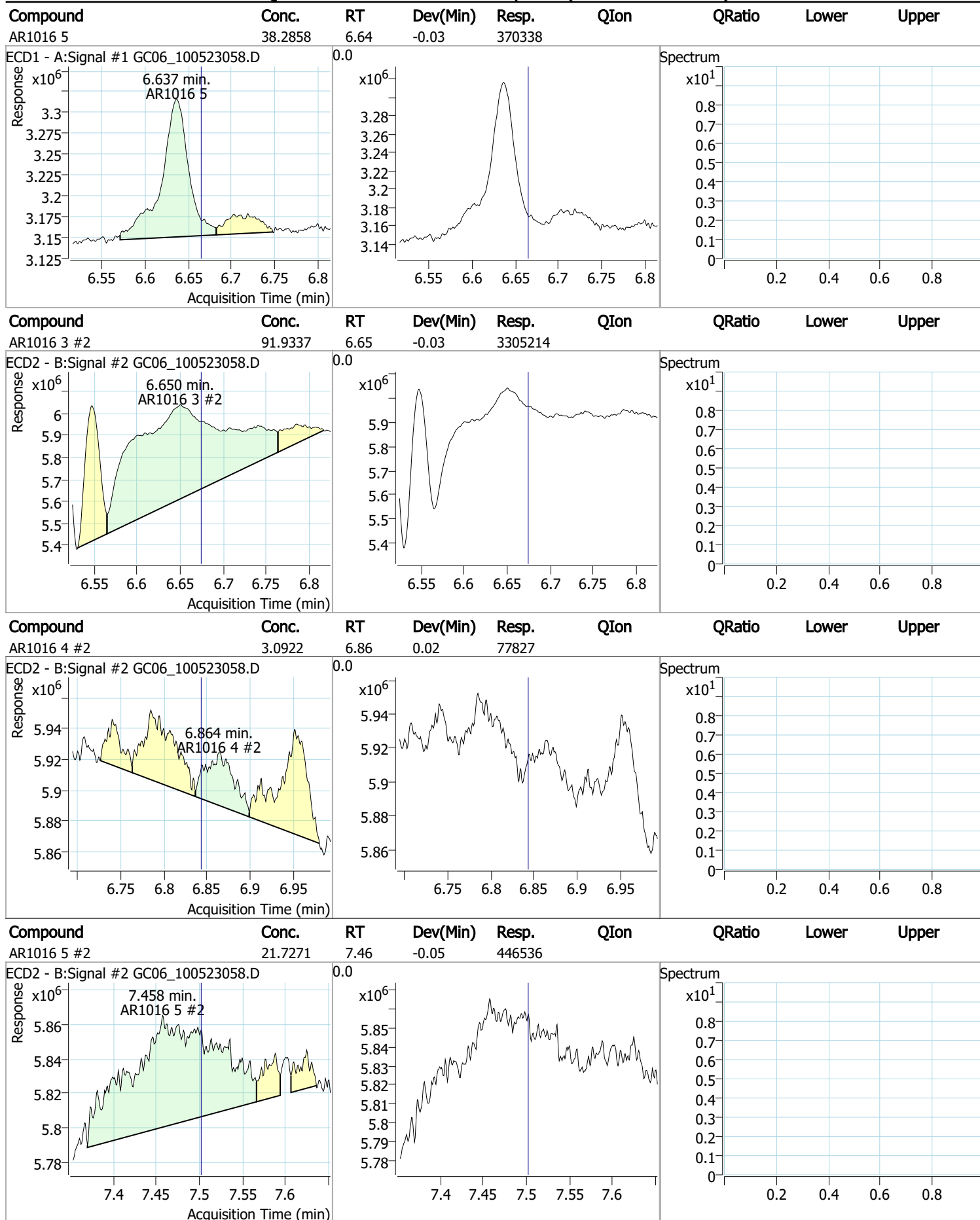
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

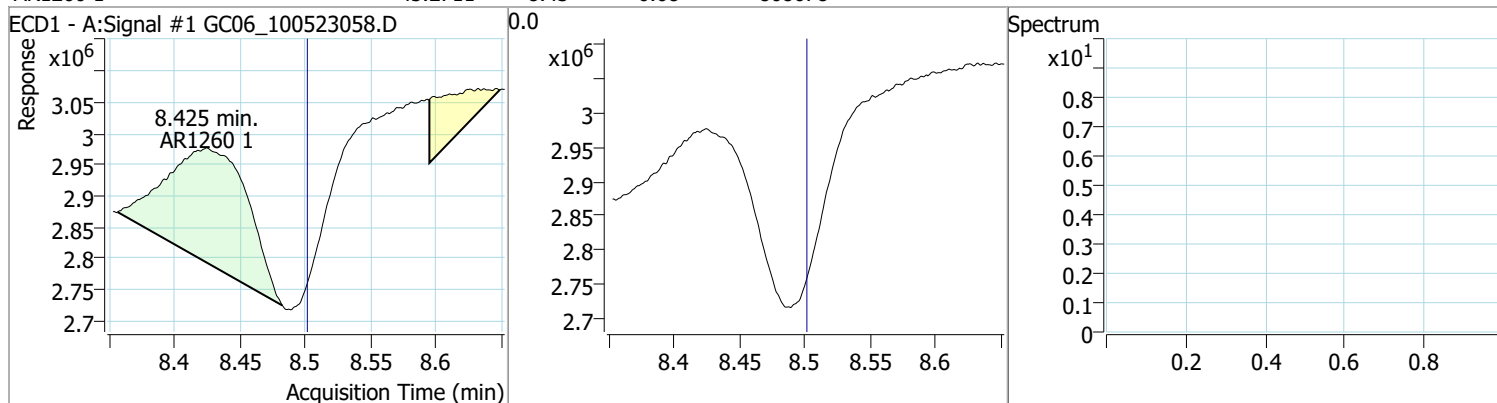


Quantitation Results Report (Not Reviewed)

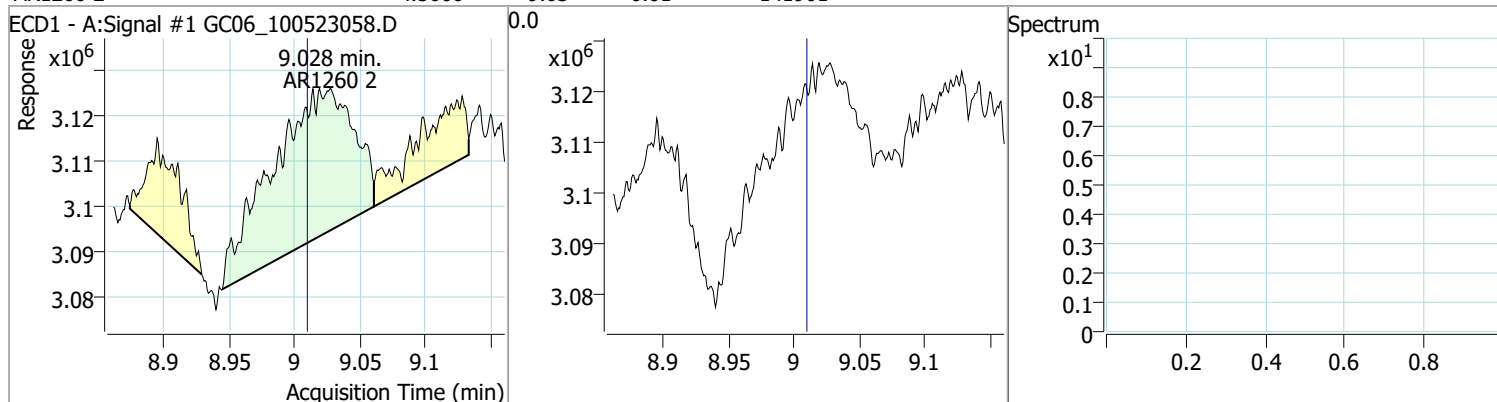


Quantitation Results Report (Not Reviewed)

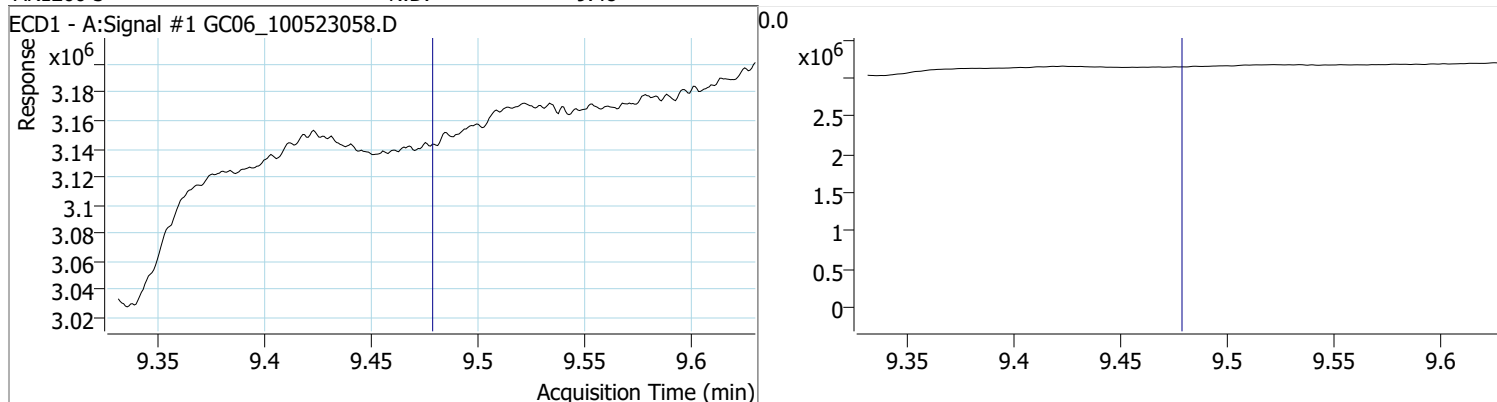
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	45.2711	8.43	-0.08	808678				



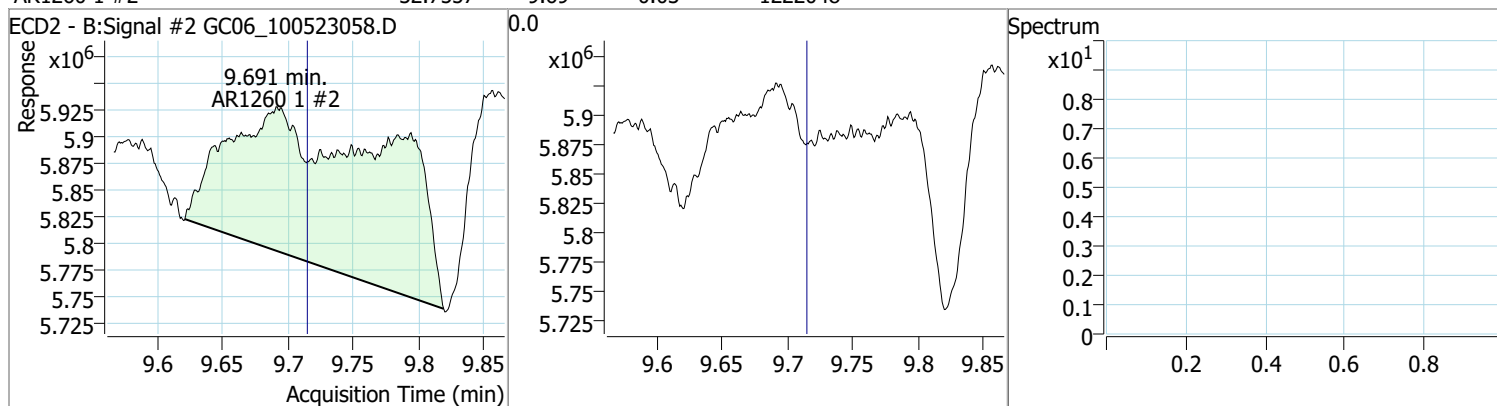
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	4.5666	9.03	0.01	141901				



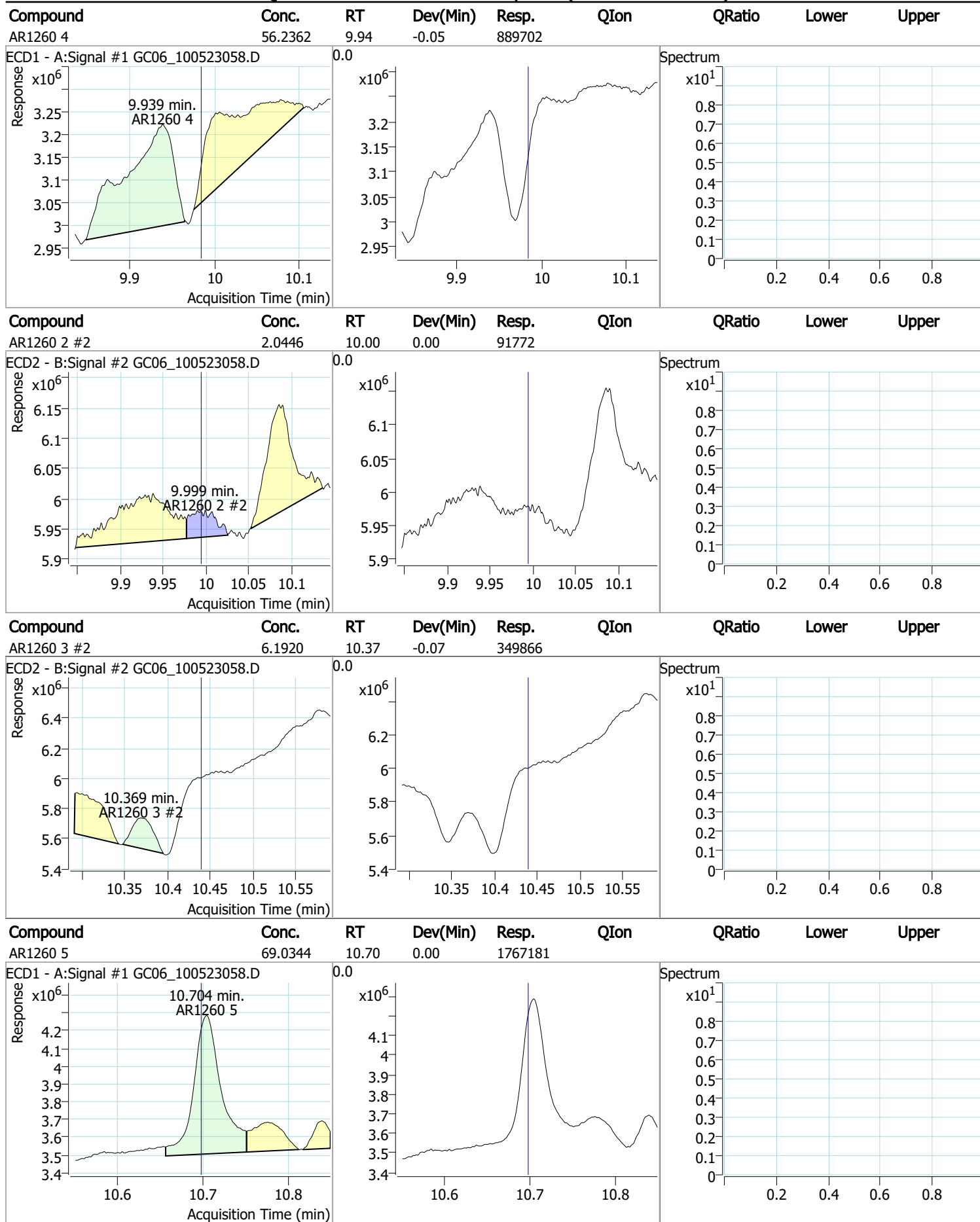
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.48		



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	32.7557	9.69	-0.03	1222048				

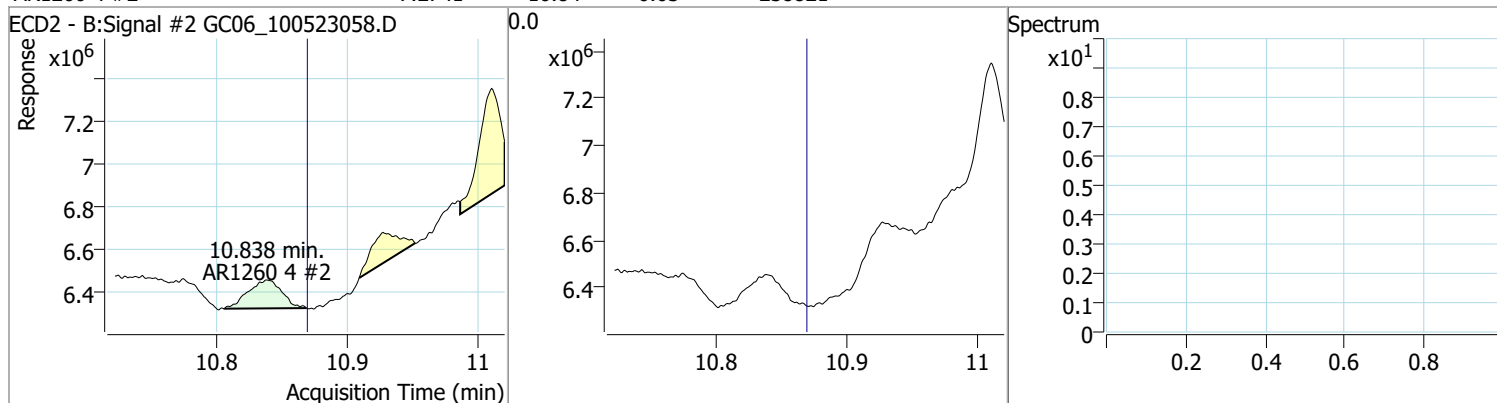


Quantitation Results Report (Not Reviewed)

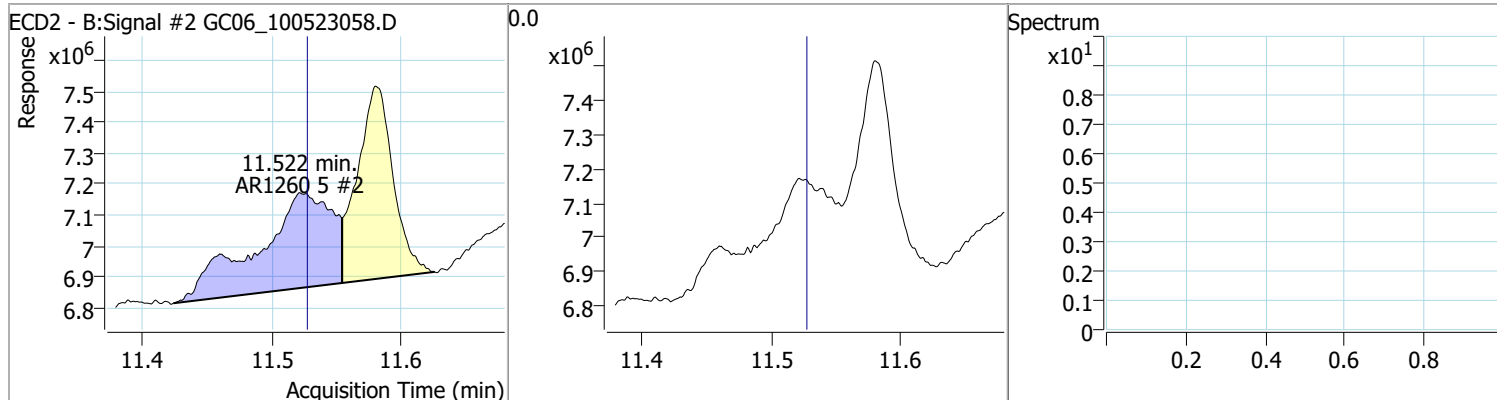


Quantitation Results Report (Not Reviewed)

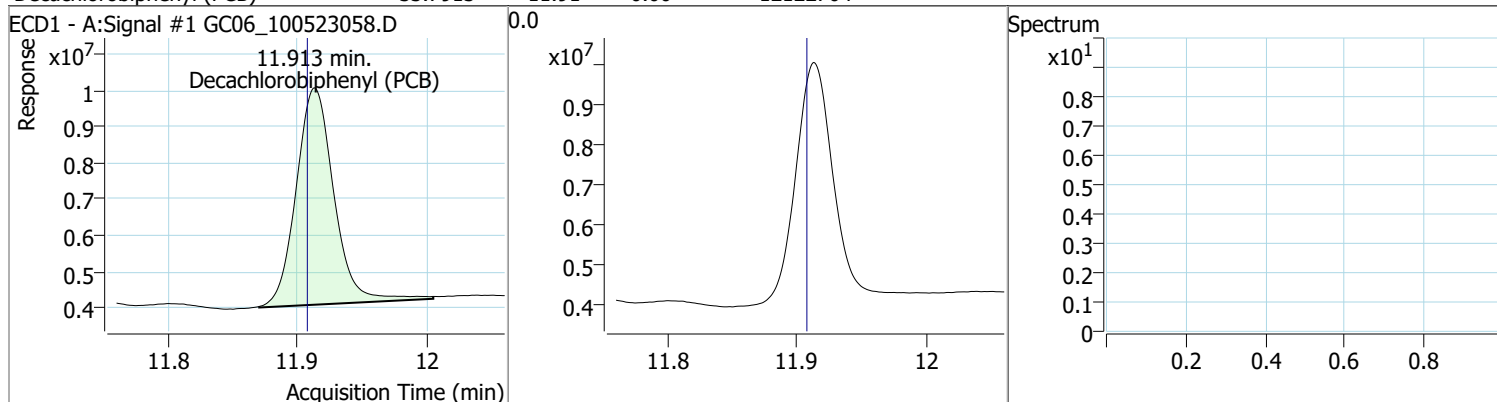
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	7.2741	10.84	-0.03	238821				



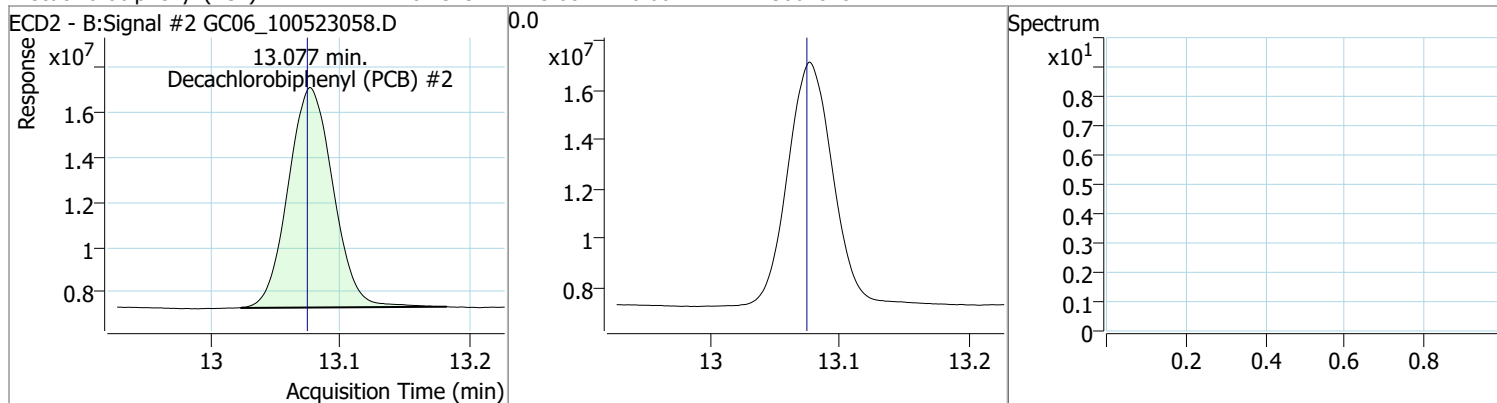
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	25.6170	11.52	-0.01	1250088				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	33.7913	11.91	0.00	12122704				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	28.4373	13.08	0.00	23667878				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 493300-023	Client ID: ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-P-LA
Seqnum: 453400820059	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_100523059	Batch: 323800	Time: 06-OCT-2023 01:30
Cal: 453400820002	Caldate: 05-OCT-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	42.73	ND	1.0	83%	0.50		u
Aroclor-1016 Peak # 1	B	35.26	0.35	0.70	66%			
Aroclor-1016 Peak # 2	B	62.71	0.63	0.14	126%			
Aroclor-1016 Peak # 3	B	76.48	0.76	1.26	49%			
Aroclor-1016 Peak # 4	B	1.938	0.02	2.41	197%			
Aroclor-1016 Peak # 5	B	37.28	0.37	0.67	56%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	17.32	ND	0.41	81%	0.50		u
Aroclor-1260 Peak # 1	B	22.44	0.22	0.51	78%			
Aroclor-1260 Peak # 2	B	2.651	0.03	0.03	24%			
Aroclor-1260 Peak # 3	B	9.149	0.09	0.20	76%			
Aroclor-1260 Peak # 4	B	9.169	0.09	0.83	160%			
Aroclor-1260 Peak # 5	B	43.18	0.43	0.47	8%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	33.00	0.5000	0.3300	66	19-121	c+ u
Decachlorobiphenyl (PCB)	B	26.99	0.5000	0.2699	54	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	13502129	4.90
1-bromo-2-nitrobenzene (PCB)	A	5358611	5249310	-2.04

ISTD (ICAL gc06_100523031)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1242)	A	5406087	???	-100.00 *
1-bromo-2-nitrobenzene (1242)	B	13255998	???	-100.00 *

ISTD (ICAL gc06_100523032)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1254)	B	13102057	???	-100.00 *
1-bromo-2-nitrobenzene (1254)	A	5302866	???	-100.00 *

ISTD (ICAL gc06_100523033)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1248)	A	4780732	???	-100.00 *
1-bromo-2-nitrobenzene (1248)	B	11692927	???	-100.00 *

ISTD (ICAL gc06_100523034)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	11450708	???	-100.00 *
1-bromo-2-nitrobenzene (1268)	A	4957241	???	-100.00 *

ISTD (ICAL gc06_100523037)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1221)	B	12069471	???	-100.00 *
1-bromo-2-nitrobenzene (1221)	A	4925828	???	-100.00 *

ISTD (ICAL gc06_100523038)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1232)	B	11381345	???	-100.00 *
1-bromo-2-nitrobenzene (1232)	A	4851011	???	-100.00 *

ISTD (ICAL gc06_100523039)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1262)	B	11681712	???	-100.00 *
1-bromo-2-nitrobenzene (1262)	A	4779708	???	-100.00 *

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.33	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

ISTD (ICAL gc06_100523031)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1242)	A	4.14	???	
1-bromo-2-nitrobenzene (1242)	B	4.34	???	

ISTD (ICAL gc06_100523032)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1254)	B	4.34	???	
1-bromo-2-nitrobenzene (1254)	A	4.14	???	

ISTD (ICAL gc06_100523033)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1248)	A	4.14	???	
1-bromo-2-nitrobenzene (1248)	B	4.34	???	

ISTD (ICAL gc06_100523034)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.34	???	
1-bromo-2-nitrobenzene (1268)	A	4.14	???	

ISTD (ICAL gc06_100523037)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1221)	B	4.34	???	
1-bromo-2-nitrobenzene (1221)	A	4.15	???	

ISTD (ICAL gc06_100523038)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1232)	B	4.34	???	
1-bromo-2-nitrobenzene (1232)	A	4.14	???	

ISTD (ICAL gc06_100523039)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1262)	B	4.34	???	
1-bromo-2-nitrobenzene (1262)	A	4.14	???	

10/06/23 : WIPE/1DM^2-10ML

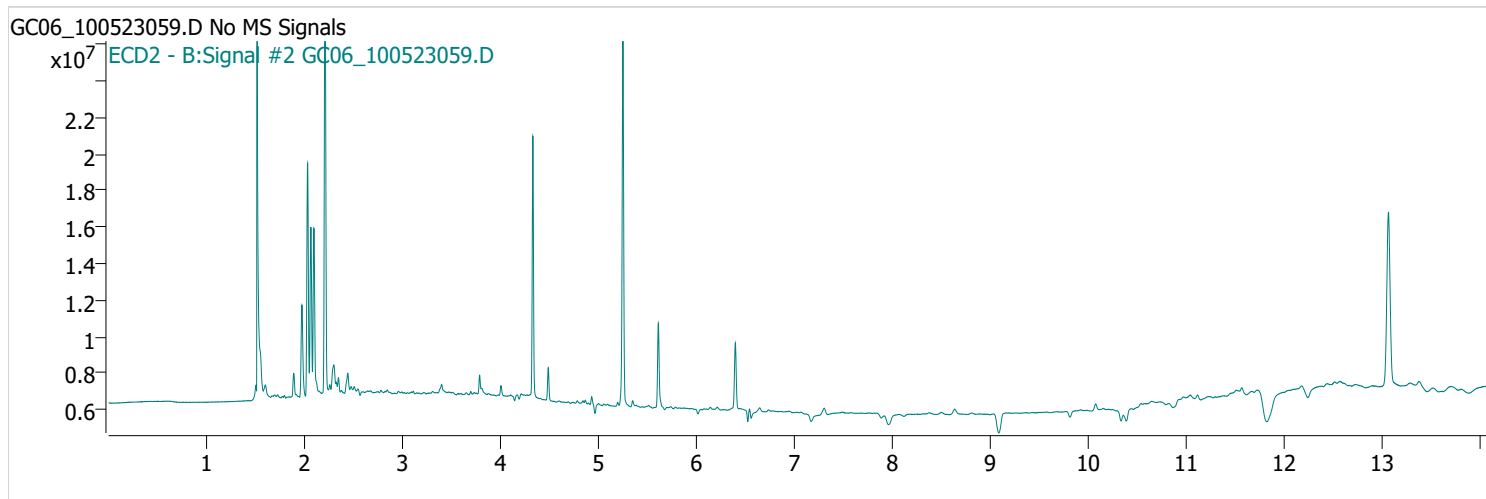
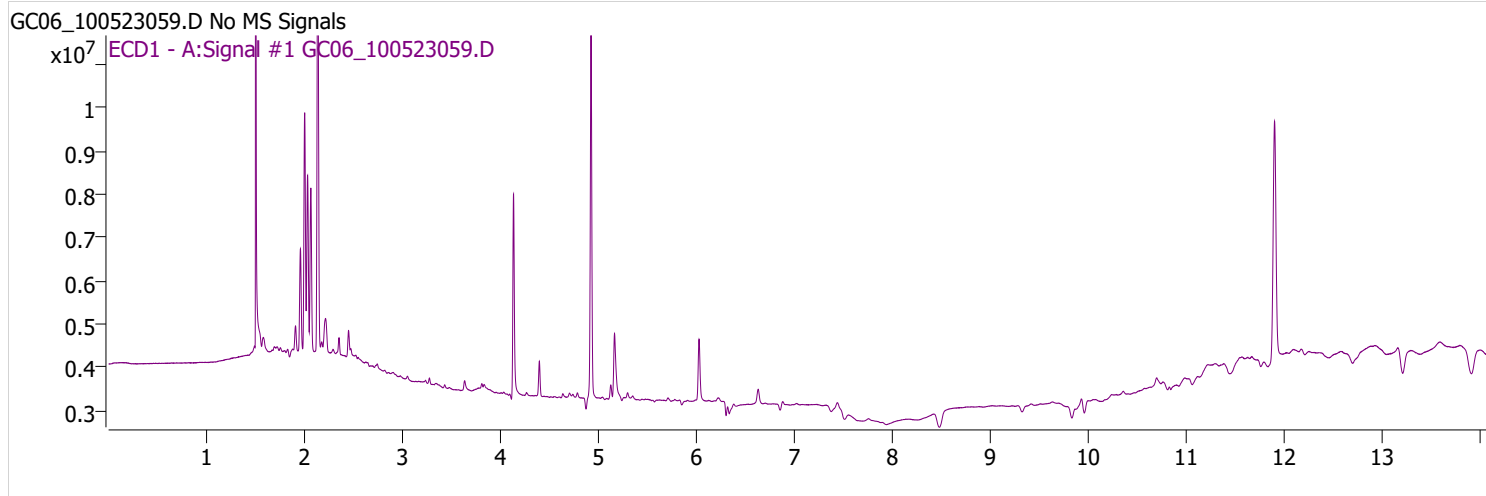
+ = high bias c = CCV u = use

Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523059.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/6/2023 1:30:17 AM
Sample Name	493300-023, 323800, 1	Instrument	SVOA-GC06
Vial	20	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE/1DM^2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.138	0.0	5249309.67 7	20.0000	ng/ml	-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.334	0.0	13502128.6 30	20.0000	ng/ml	-0.002
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	9978423.32 2	35.2249	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 176.12%	*	
S TCMX (PCB) #2	5.255	0.0	22075637.4 09	33.0021	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 165.01%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	11673860.2 47	32.1803	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 160.90%	*	
S Decachlorobiphenyl (PCB) #2	13.077	0.0	22969144.8 28	26.9912	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 134.96%		

Target Compounds

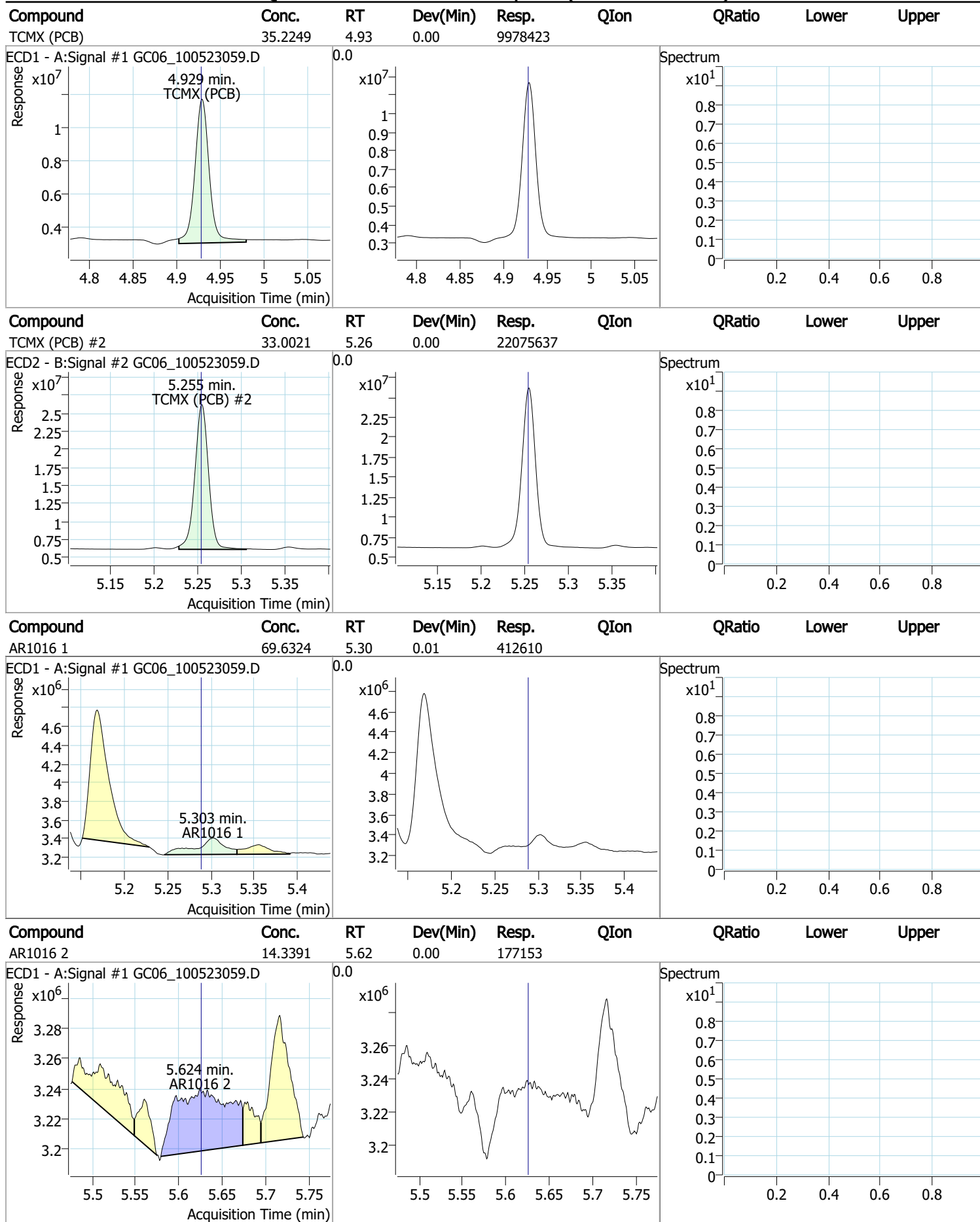
QValue

Quantitation Results Report (Not Reviewed)

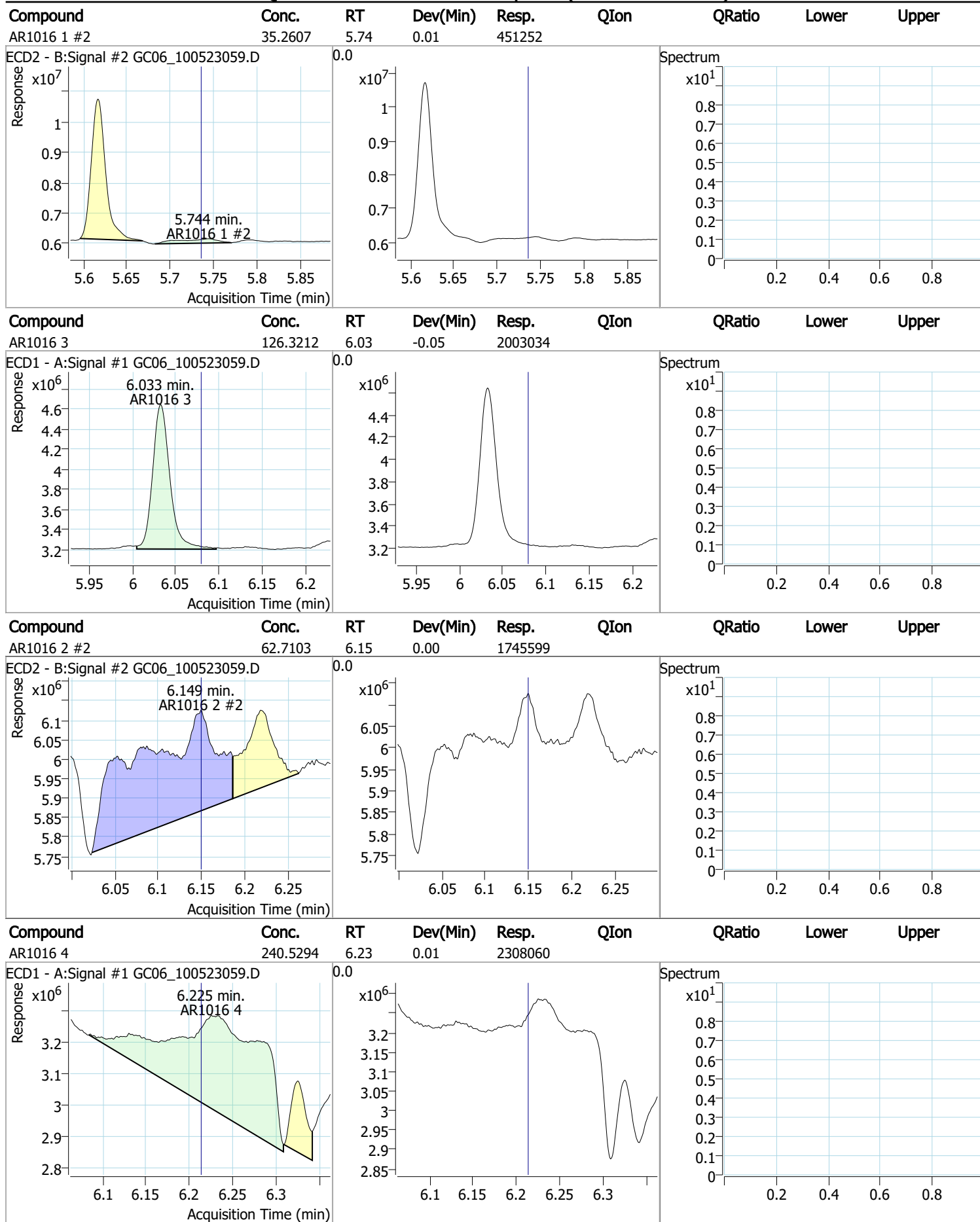
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.303	0.0	412609.799	69.6324	ng/ml	100
T AR1016 2	5.624	0.0	177153.063	14.3391	ng/ml	100
T AR1016 1 #2	5.744	0.0	451252.425	35.2607	ng/ml	100
T AR1016 3	6.033	0.0	2003034.47 2	126.3212	ng/ml	100
T AR1016 2 #2	6.149	0.0	1745599.26 9	62.7103	ng/ml	100
T AR1016 4	6.225	0.0	2308059.68 9	240.5294	ng/ml	100
T AR1016 5	6.638	0.0	651619.079	66.6199	ng/ml	100
T AR1016 3 #2	6.653	0.0	2811592.18 3	76.4848	ng/ml	100
T AR1016 4 #2	6.814	0.0	49881.960	1.9383	ng/ml	100
T AR1016 5 #2	7.499	0.0	783345.217	37.2775	ng/ml	100
T AR1260 1	8.433	0.0	921372.622	51.0095	ng/ml	100
T AR1260 2	9.026	0.0	105524.266	3.3584	ng/ml	100
T AR1260 3	9.427	0.0	655176.233	20.4562	ng/ml	100
T AR1260 1 #2	9.686	0.0	856090.238	22.4422	ng/ml	100
T AR1260 4	9.939	0.0	1333490.05 4	83.3549	ng/ml	100
T AR1260 2 #2	9.990	0.0	121672.367	2.6512	ng/ml	100
T AR1260 3 #2	10.368	0.0	528590.018	9.1495	ng/ml	100
T AR1260 5	10.710	0.0	1205307.16 5	46.5643	ng/ml	100
T AR1260 4 #2	10.834	0.0	307812.465	9.1694	ng/ml	100
T AR1260 5 #2	11.578	0.0	2154313.67 8	43.1762	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

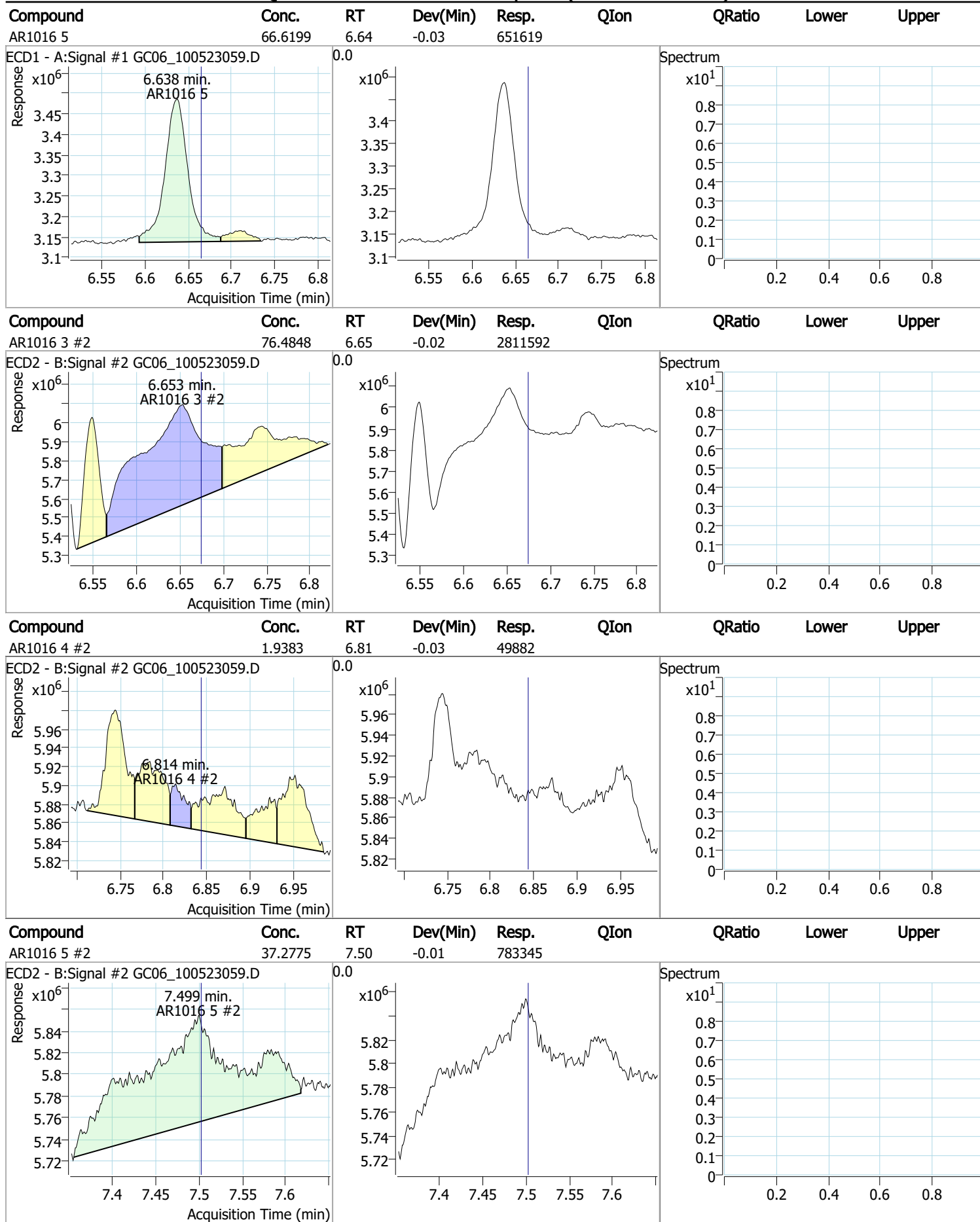
Quantitation Results Report (Not Reviewed)



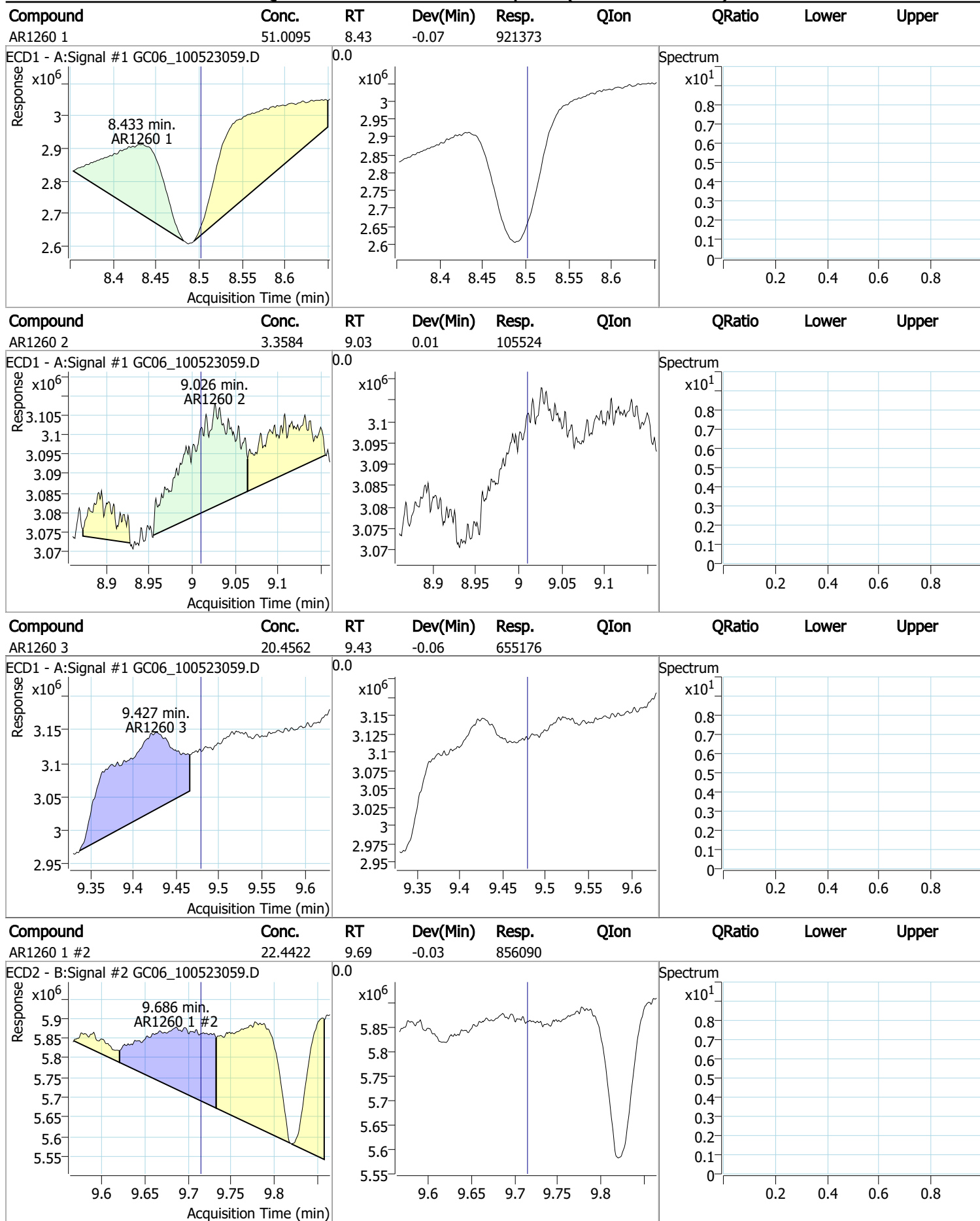
Quantitation Results Report (Not Reviewed)



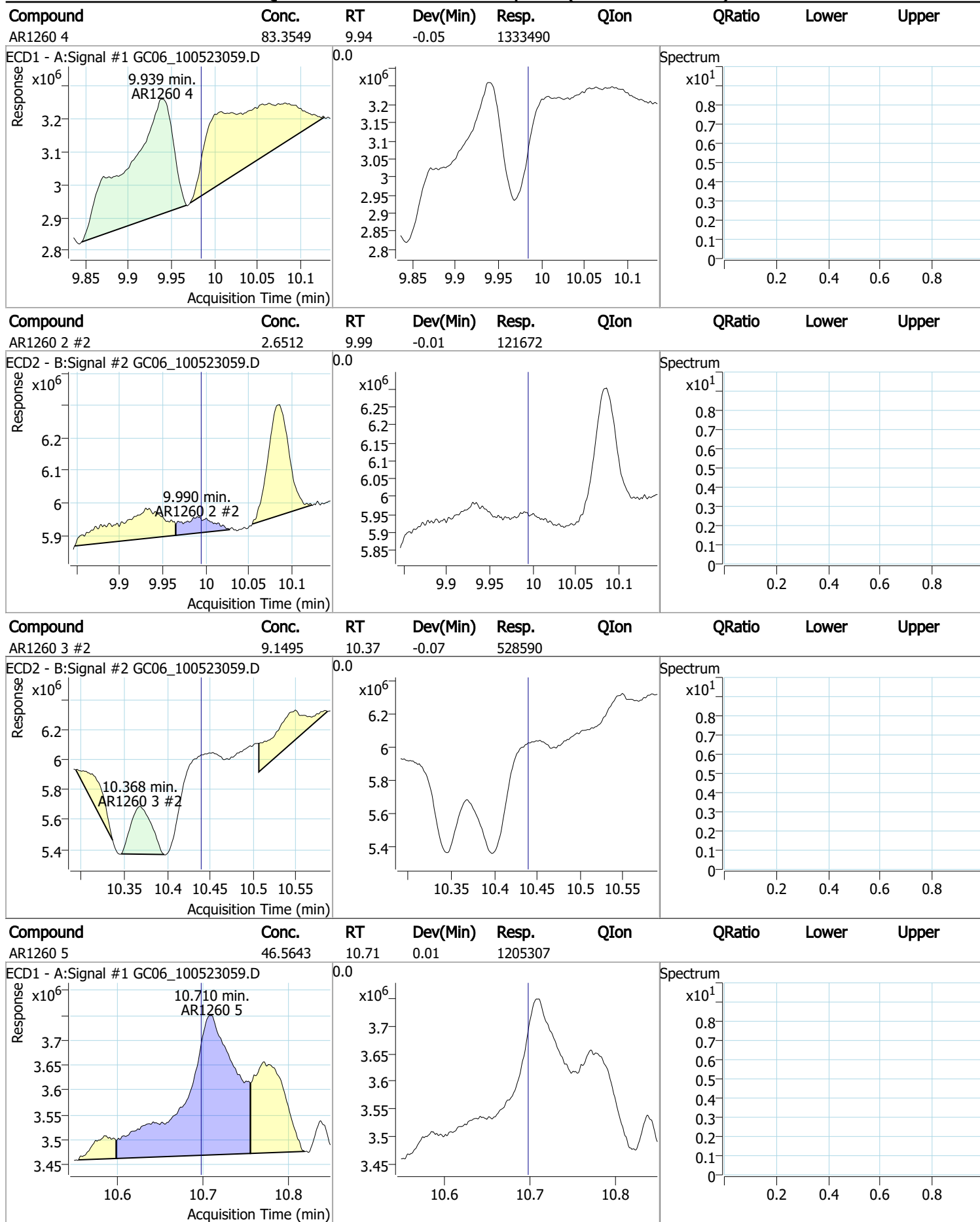
Quantitation Results Report (Not Reviewed)



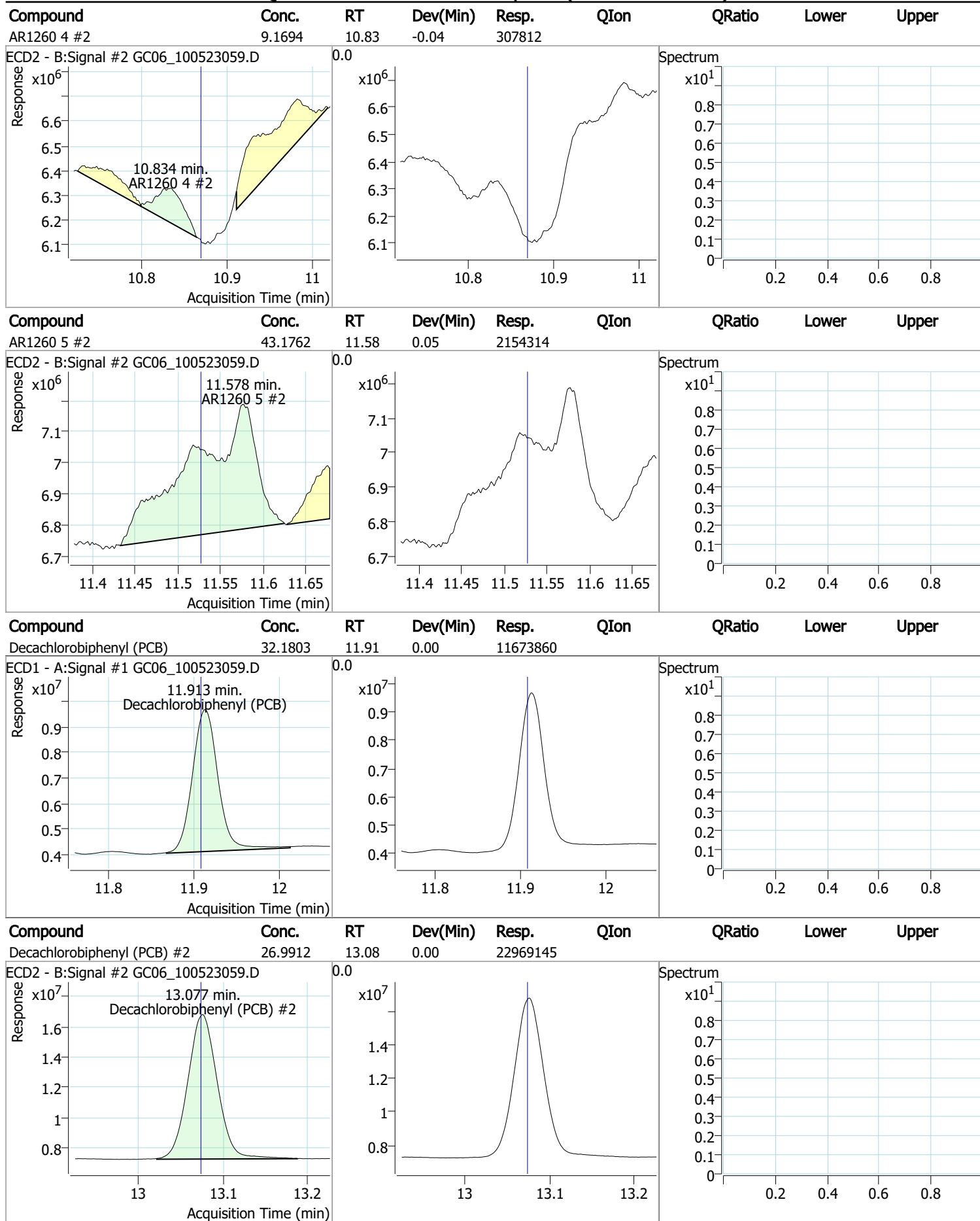
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 493300 PCBS Wipe

EPA 8082

Inst: SVOA-GC07	Lab ID: QC1098102	
Seqnum: 463401066016.2	Matrix: Wipe	
File: gc07_1005230016	Batch: 323800	Time: 05-OCT-2023 16:23
Cal: 463362148002	Caldate: 08-SEP-2023	
IDF: 1.0	Units: ug/dm2	

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Raw Units	Result	Conf	RPD	RL	Flags
Aroclor-1016	B	34.20	ug/L	ND	1.9	139%	0.50	u
Aroclor-1016 Peak # 1	B	36.34	ug/L	0.36	0.79	74%		
Aroclor-1016 Peak # 2	B	34.14	ug/L	0.34	0.47	31%		
Aroclor-1016 Peak # 3	B	99.42	ug/L	0.99	0.01	198%		
Aroclor-1016 Peak # 4	B	0.3140	ug/L	0.00	7.96	200%		
Aroclor-1016 Peak # 5	B	0.7731	ug/L	0.01	0.22	186%		
Aroclor-1221	B			ND			0.50	u
Aroclor-1232	B			ND			0.50	u
Aroclor-1242	B			ND			0.50	u
Aroclor-1248	B			ND			0.50	u
Aroclor-1254	B			ND			0.50	u
Aroclor-1260	B	8.843	ug/L	ND	0.29	107%	0.50	u
Aroclor-1260 Peak # 1	B	32.53	ug/L	0.33	0.18	57%		
Aroclor-1260 Peak # 2	B	1.101	ug/L	0.01	0.01	29%		
Aroclor-1260 Peak # 3	B	10.11	ug/L	0.10	ND			
Aroclor-1260 Peak # 4	B	0.4729	ug/L	0.00	1.18	198%		
Aroclor-1260 Peak # 5	B	0	ug/L	ND	0.09			
Aroclor-1262	B			ND			0.50	u
Aroclor-1268	B			ND			0.50	u

Surrogate	Ch	Raw	Raw Units	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	33.82	pg/uL	0.5000	0.3382	68	19-121	u
Decachlorobiphenyl (PCB)	B	40.67	pg/uL	0.5000	0.4067	81	19-121	u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc07_1005230004)	Ch	CCV Abund	BLANK Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	7829274	7469927	-4.59
1-bromo-2-nitrobenzene (PCB)	A	18065006	14387291	-20.36

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc07_1005230004)	Ch	CCV RT	BLANK RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.24	4.24	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.09	4.09	0.00

U=use

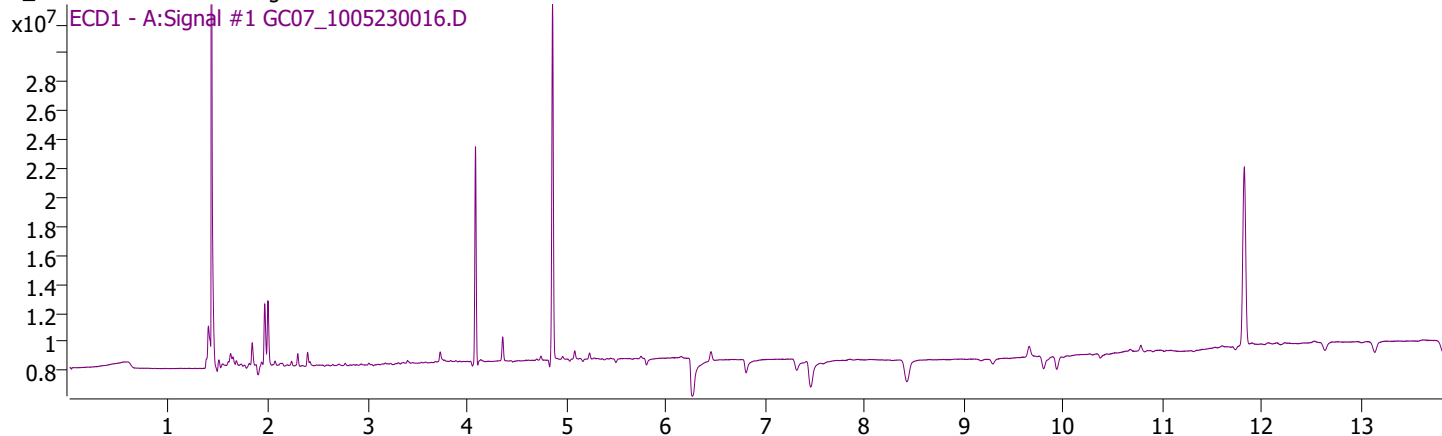
Analyst: MES 10/09/23

Reviewer: MTS 10/09/23

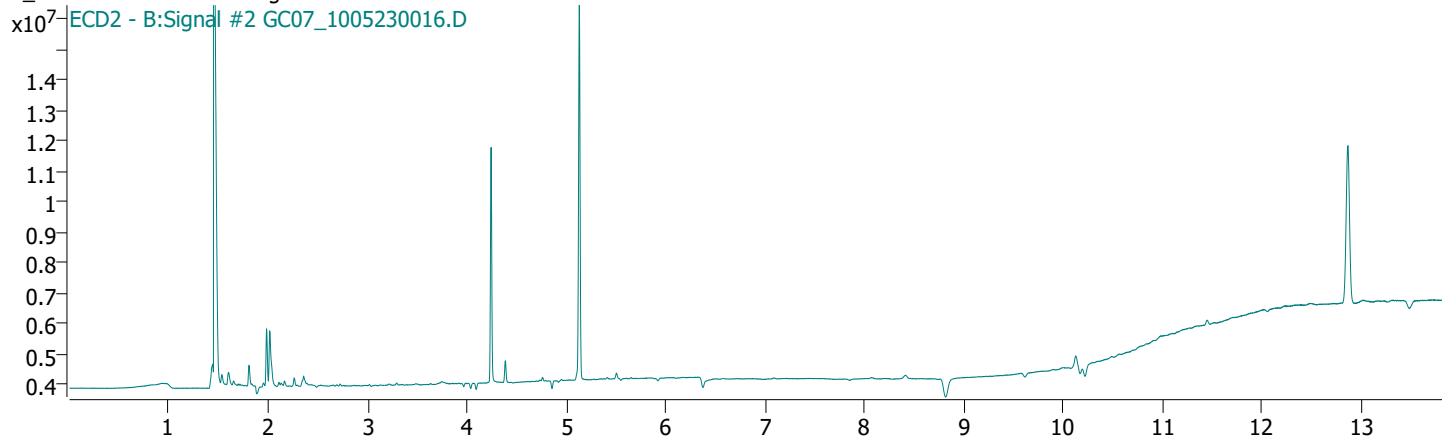
Quantitation Results Report (Not Reviewed)

Data File	GC07_1005230016.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	10/5/2023 4:23:09 PM
Sample Name	QC10981102, 323800, 1	Instrument	SVOA-GC07
Vial	4	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_16.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCB.batch.bin	Last Calib Update	9/12/2023 2:18:44 PM
Ref Library			

GC07_1005230016.D No MS Signals



GC07_1005230016.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.086	0.0	14387291.3 67	20.0000	ng/ml	-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.243	0.0	7469926.71 2	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.862	0.0	28109615.6 35	42.7592	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 213.80%	*	
S TCMX (PCB) #2	5.131	0.0	13198615.6 69	33.8224	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 169.11%	*	
S Decachlorobiphenyl (PCB)	11.824	0.0	26531058.6 53	38.4625	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 192.31%	*	
S Decachlorobiphenyl (PCB) #2	12.868	0.0	12344238.0 04	40.6690	ng/ml	0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 203.35%	*	

Target Compounds

QValue

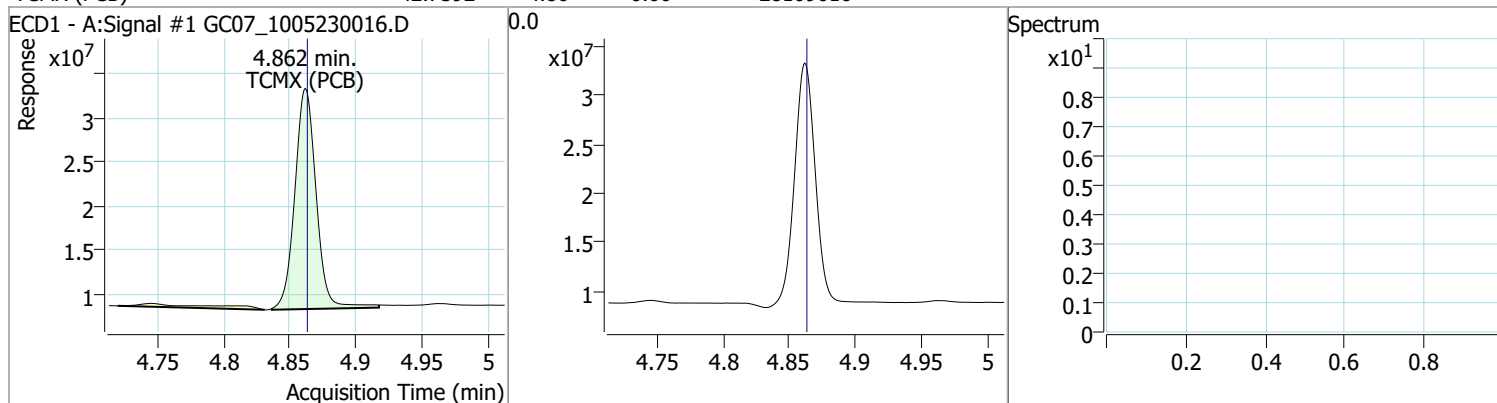
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.235	0.0	1035002.66 4	79.3758	ng/ml	100
T AR1016 2	5.633	0.0	1324177.27 4	46.5570	ng/ml	100
T AR1016 1 #2	5.654	0.0	273281.541	36.3378	ng/ml	100
T AR1016 3	5.991	0.0	17339.867	0.5428	ng/ml	100
T AR1016 2 #2	6.070	0.0	536440.294	34.1374	ng/ml	100
T AR1016 4	6.159	0.0	19305946.4 09	796.2790	ng/ml	100
T AR1016 3 #2	6.575	0.0	1899679.73 0	99.4174	ng/ml	100
T AR1016 5	6.608	0.0	413499.851	21.6977	ng/ml	100
T AR1016 4 #2	6.682	0.0	4294.593	0.3140	ng/ml	100
T AR1016 5 #2	7.307	0.0	8655.945	0.7731	ng/ml	100
T AR1260 1	8.513	0.0	679467.408	18.1081	ng/ml	100
T AR1260 2	8.919	0.0	83219.300	1.4684	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.576	0.0	703274.589	32.5313	ng/ml	100
T AR1260 2 #2	9.799	0.0	24487.189	1.1006	ng/ml	100
T AR1260 4	9.897	0.0	4423424.94 1	117.9546	ng/ml	100
T AR1260 3 #2	10.193	0.0	271110.966	10.1102	ng/ml	100
T AR1260 5	10.269	0.0	670656.947	9.2781	ng/ml	100
T AR1260 4 #2	10.878	0.0	8199.114	0.4729	ng/ml	100
T AR1260 5 #2	0.000		0	N.D.		

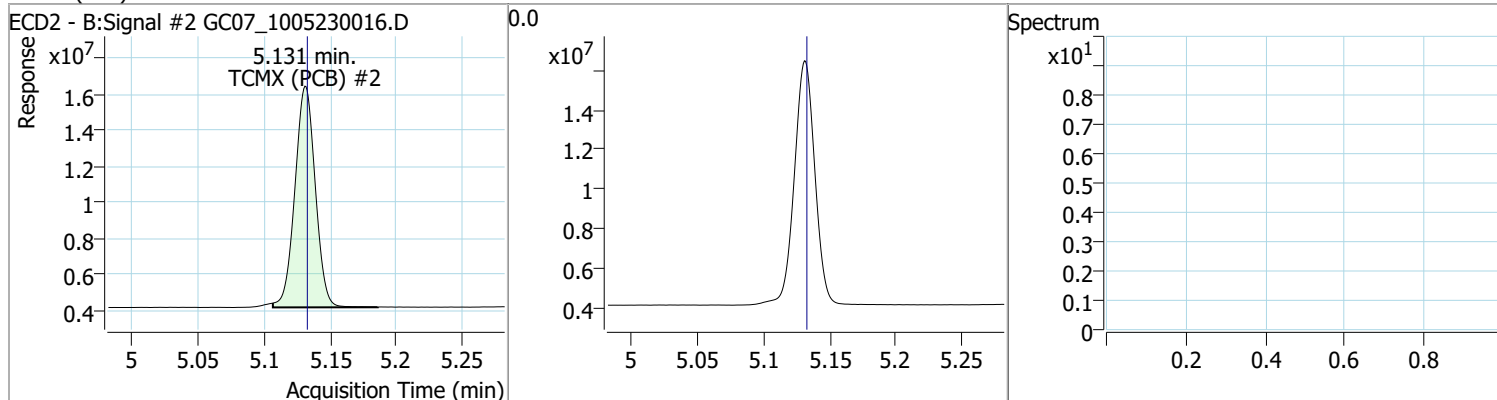
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

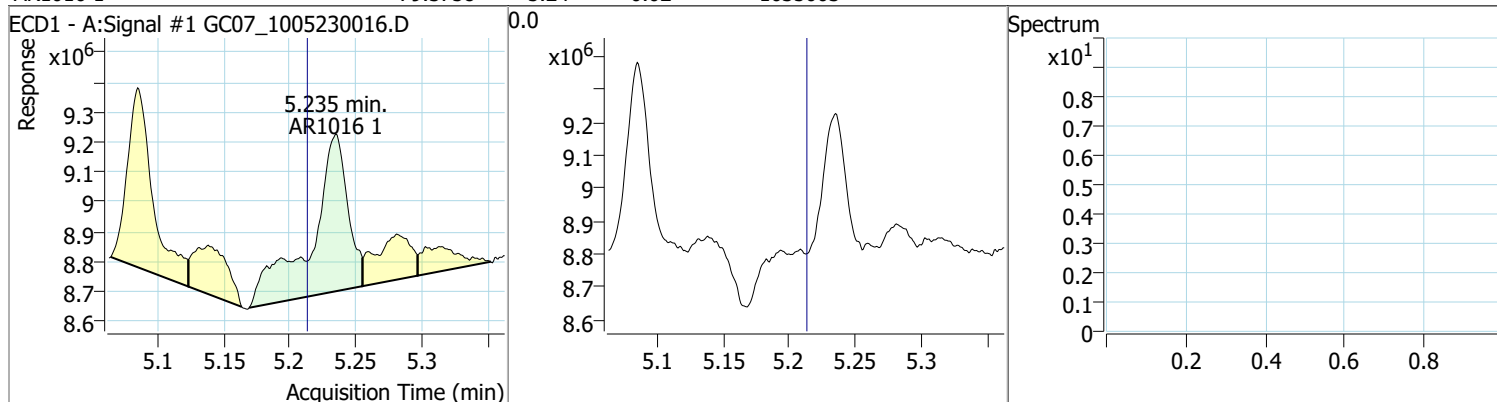
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	42.7592	4.86	0.00	28109616				



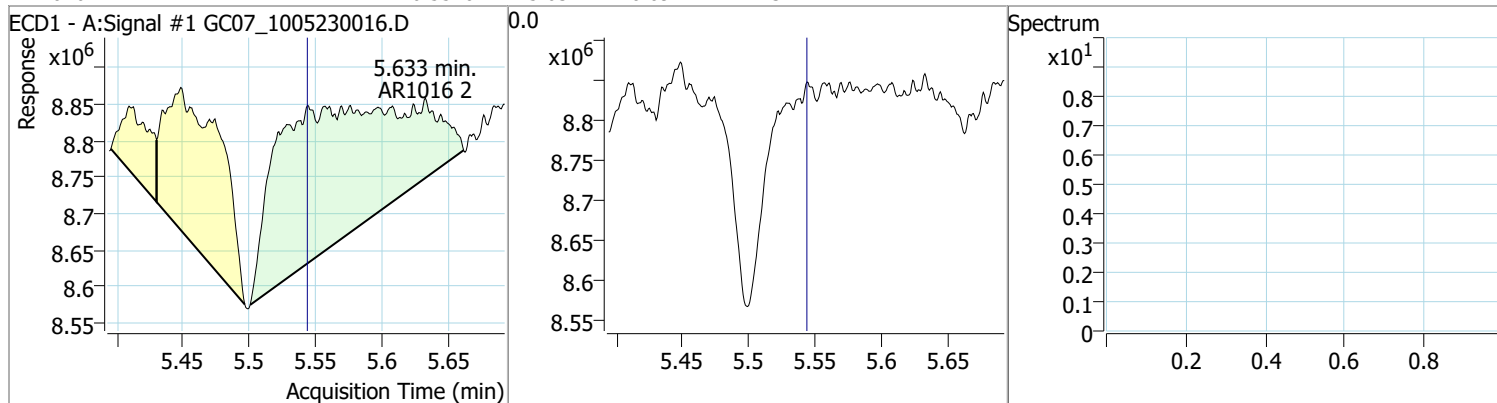
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	33.8224	5.13	0.00	13198616				



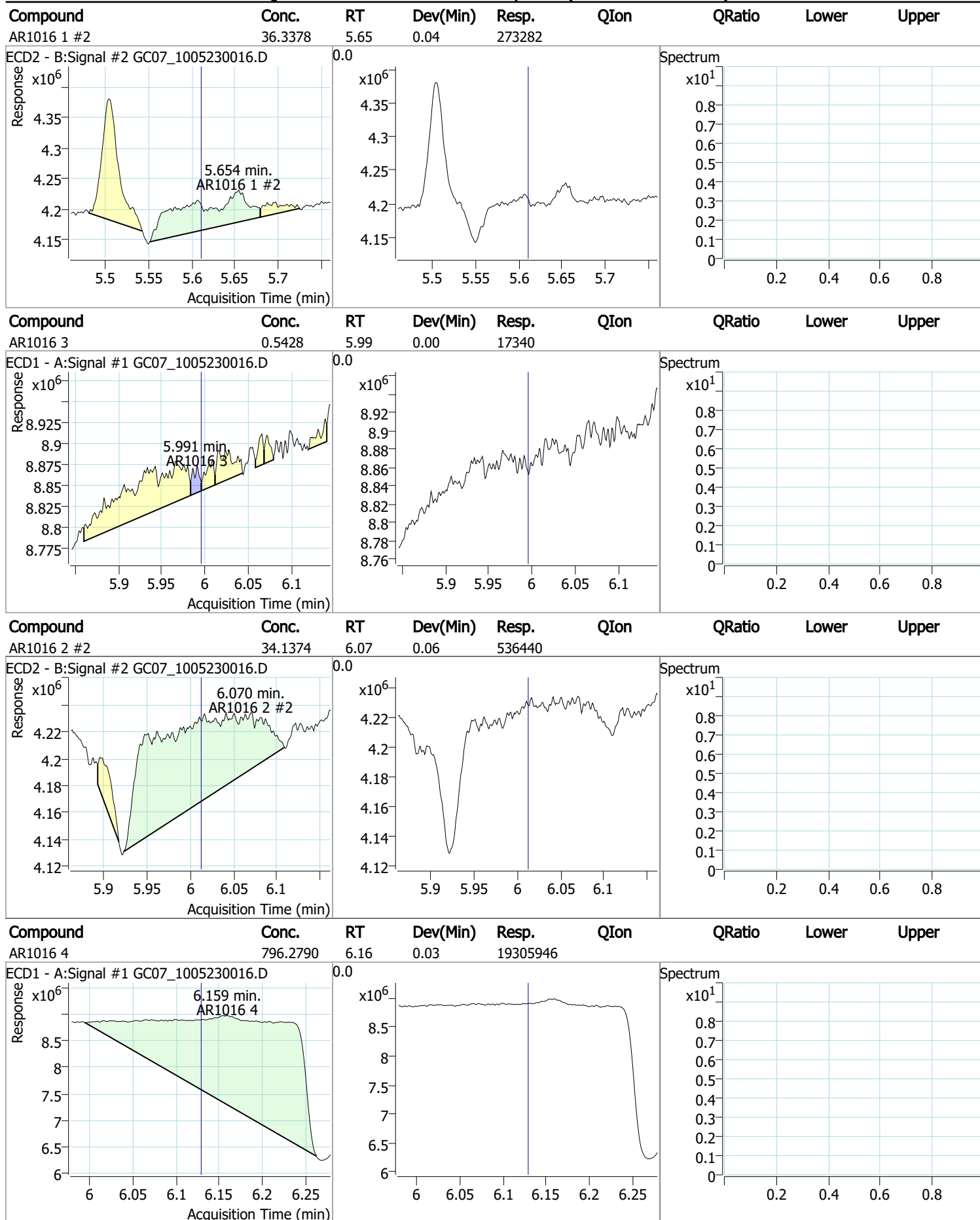
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	79.3758	5.24	0.02	1035003				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	46.5570	5.63	0.09	1324177				

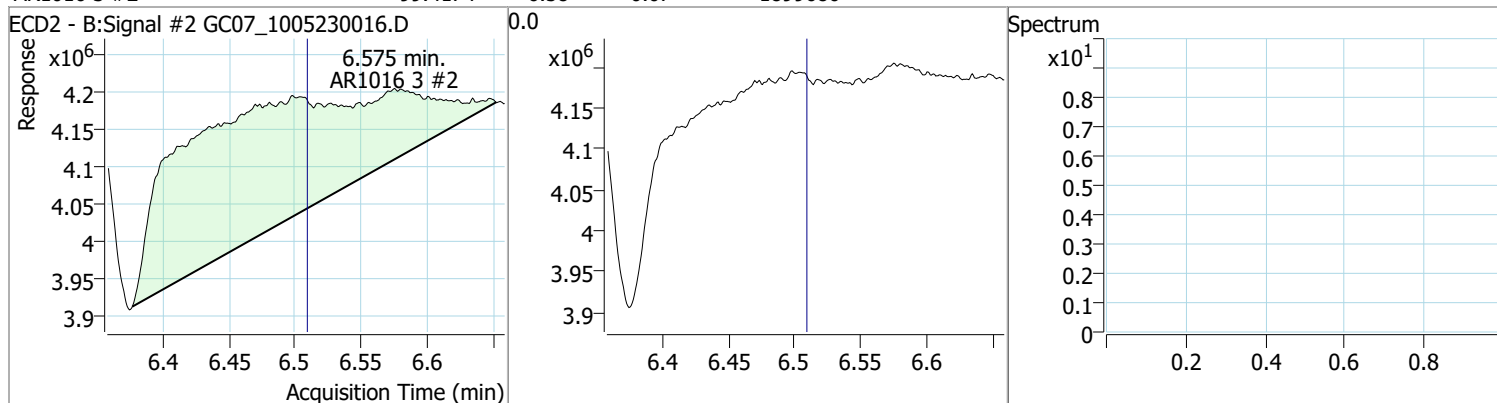


Quantitation Results Report (Not Reviewed)

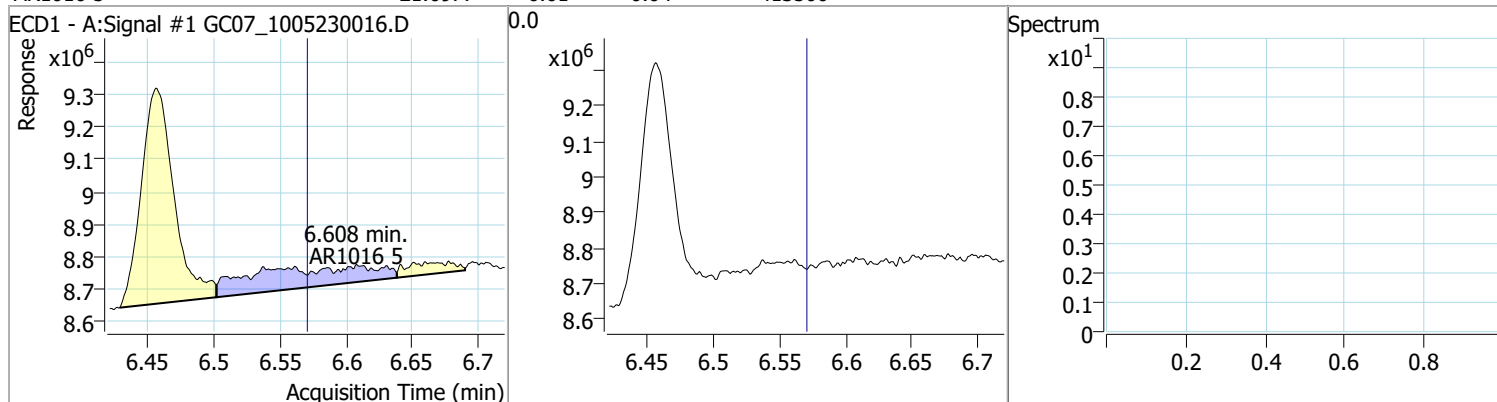


Quantitation Results Report (Not Reviewed)

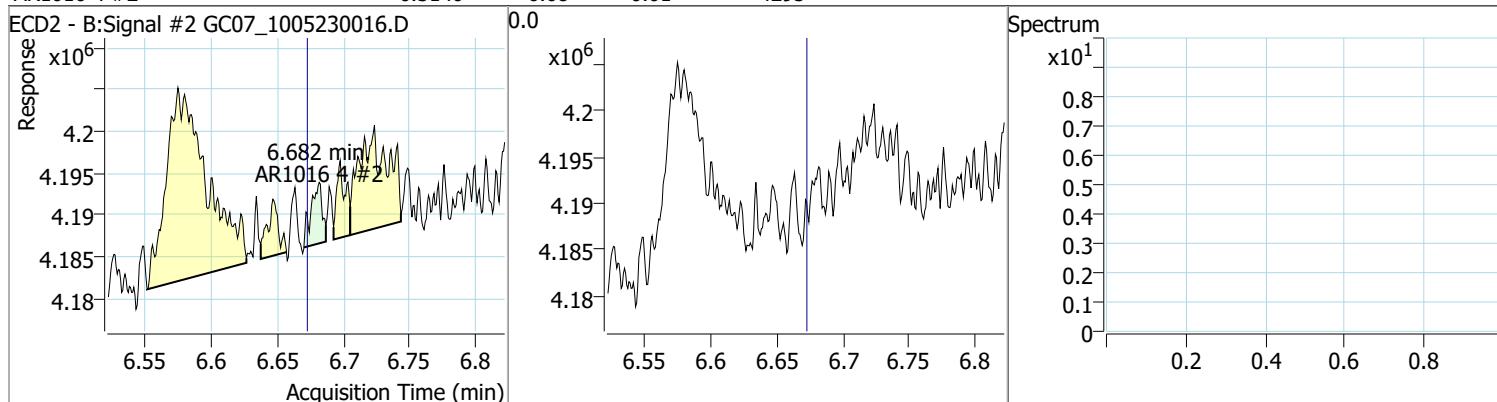
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	99.4174	6.58	0.07	1899680				



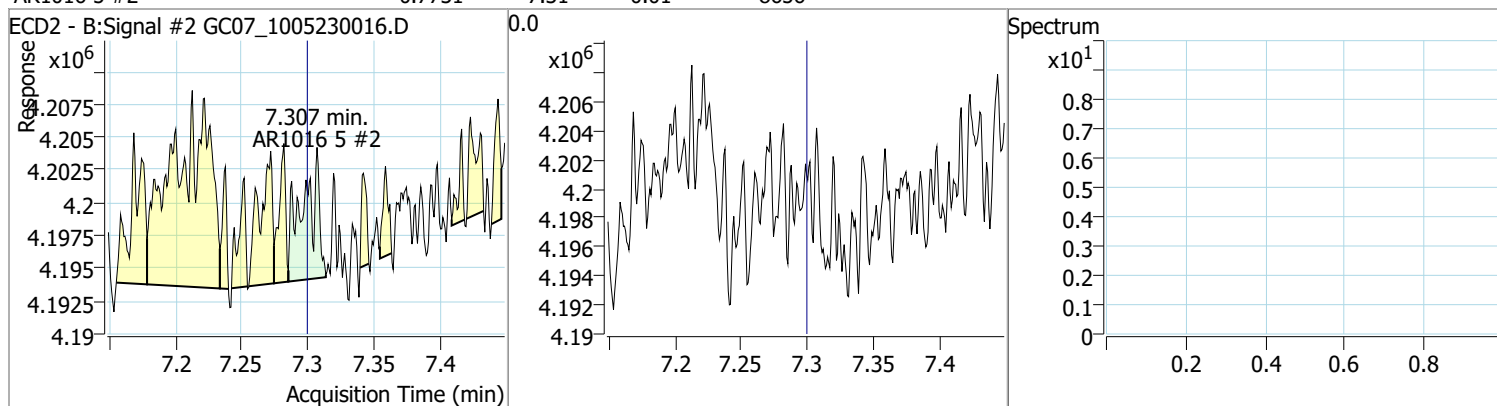
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	21.6977	6.61	0.04	413500				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.3140	6.68	0.01	4295				

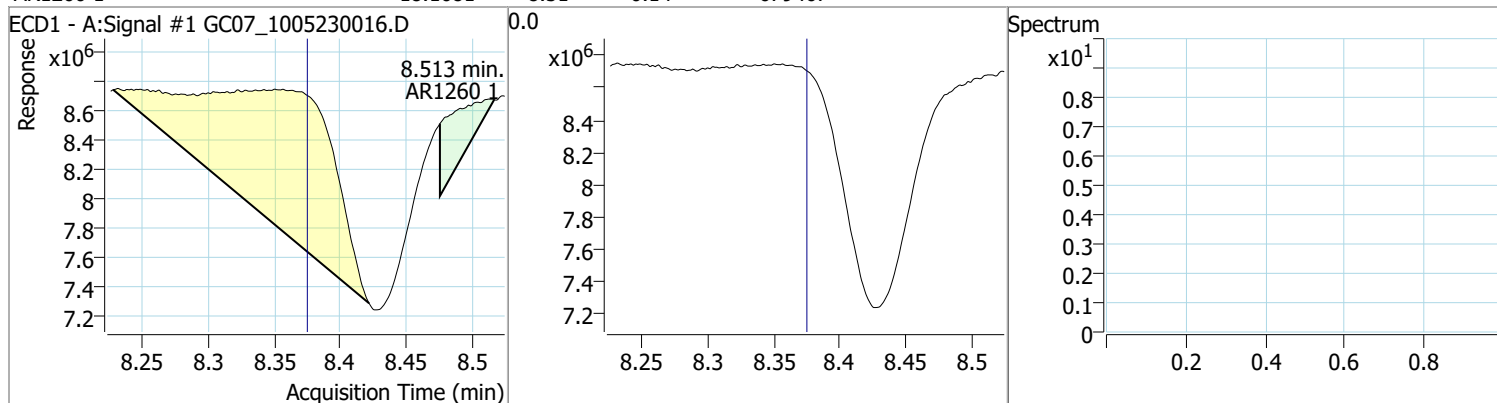


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	0.7731	7.31	0.01	8656				

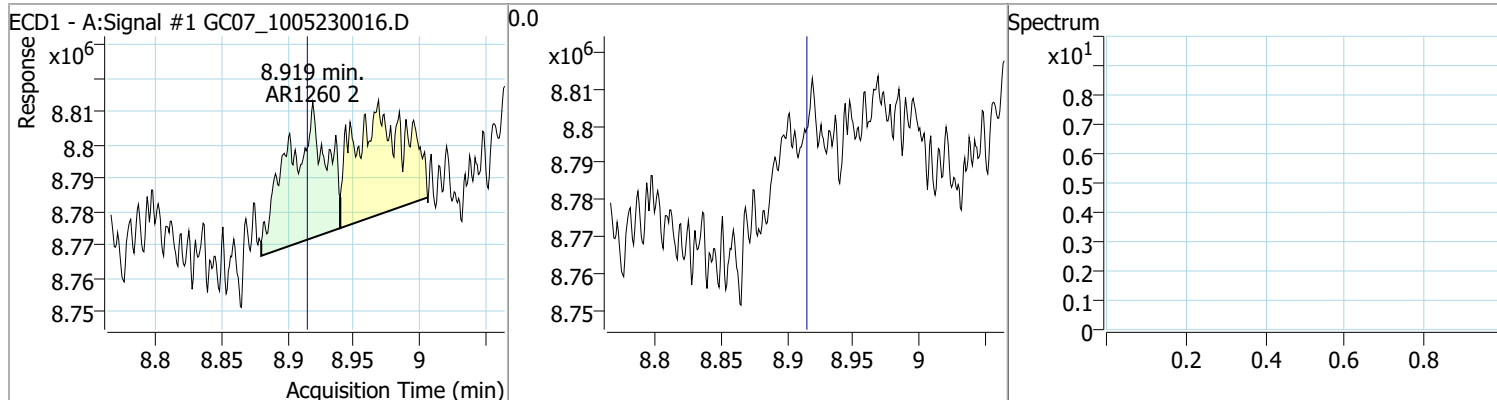


Quantitation Results Report (Not Reviewed)

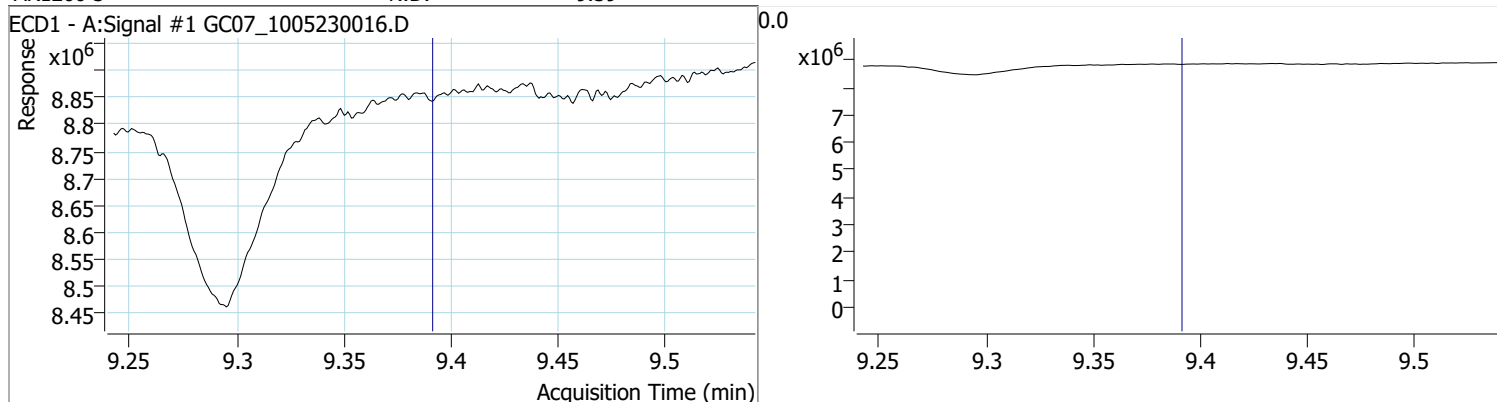
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	18.1081	8.51	0.14	679467				



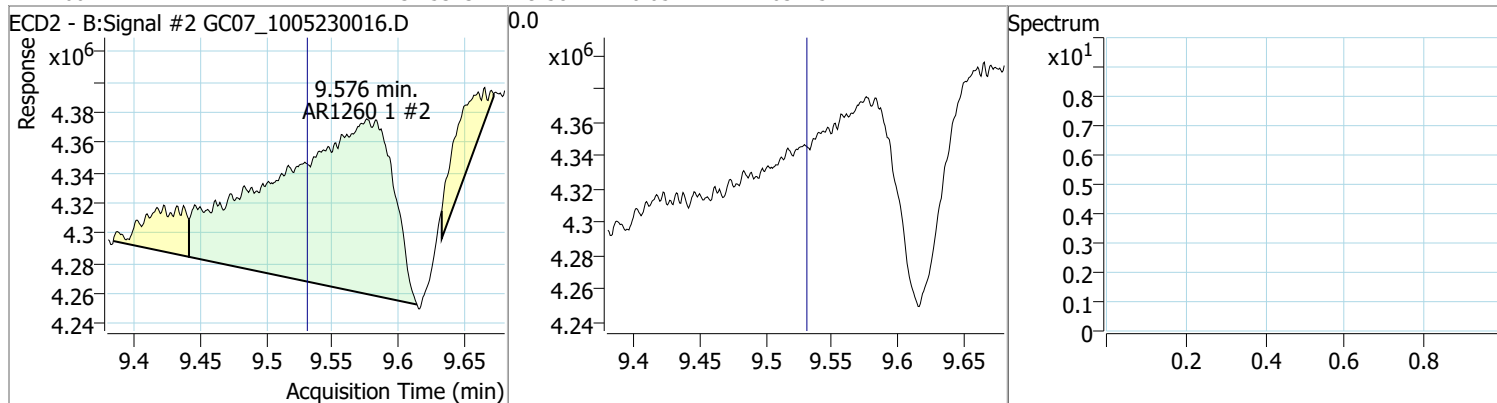
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1.4684	8.92	0.00	83219				



Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.39		

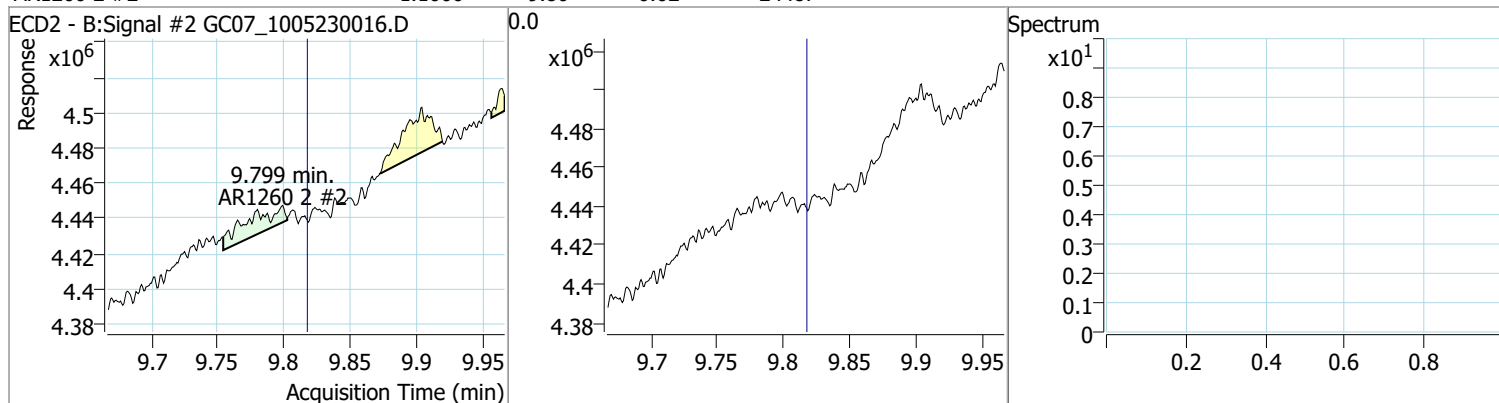


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	32.5313	9.58	0.05	703275				

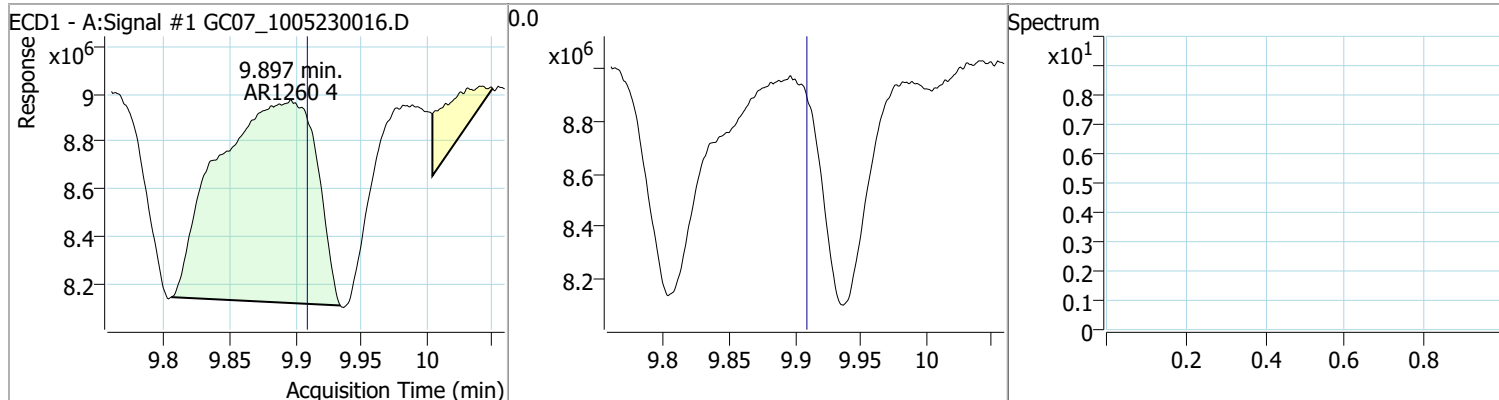


Quantitation Results Report (Not Reviewed)

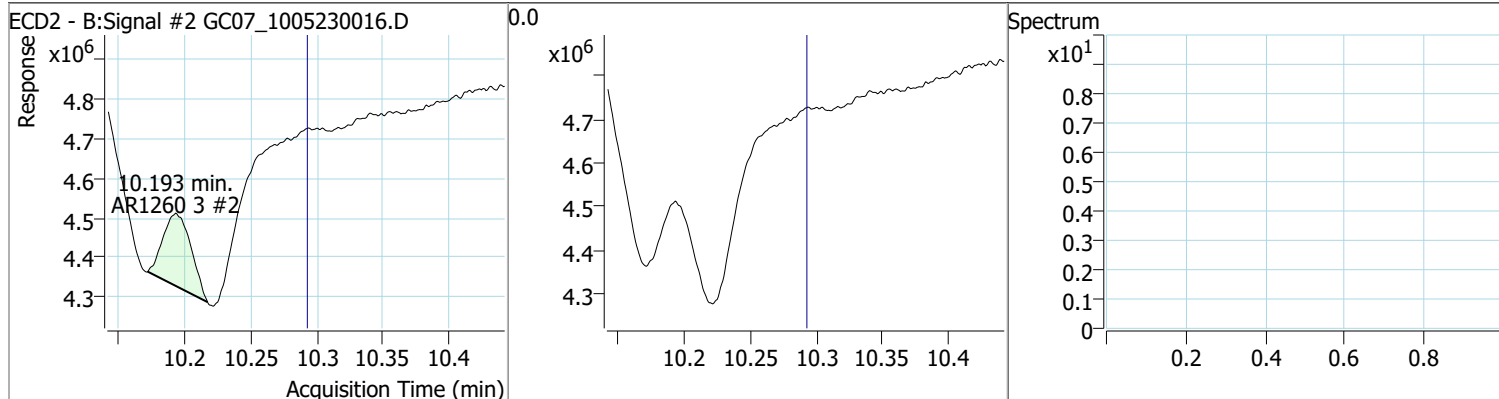
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1.1006	9.80	-0.02	24487				



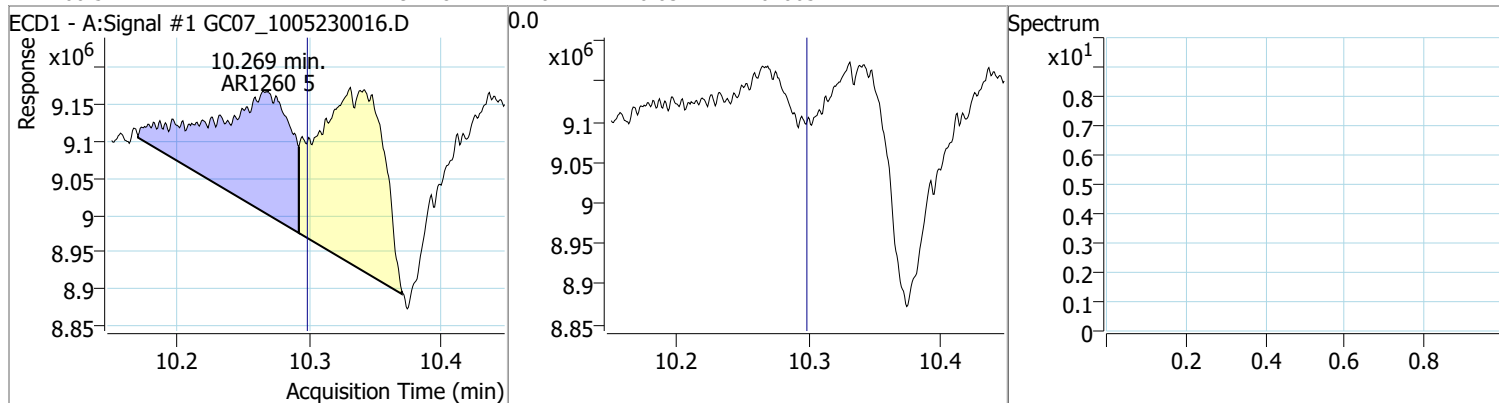
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	117.9546	9.90	-0.01	4423425				



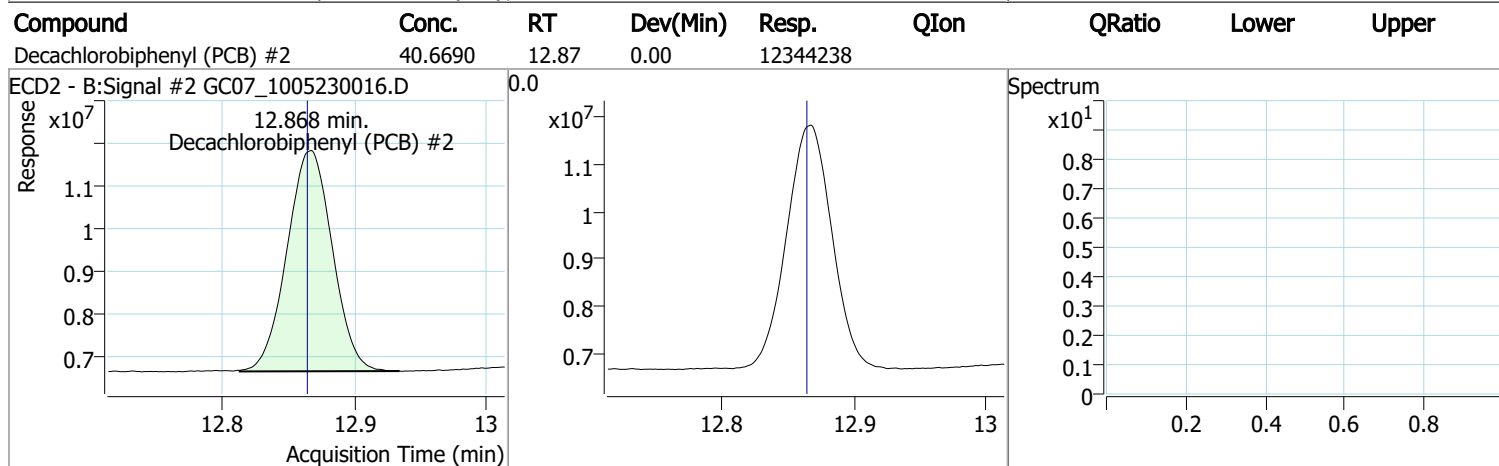
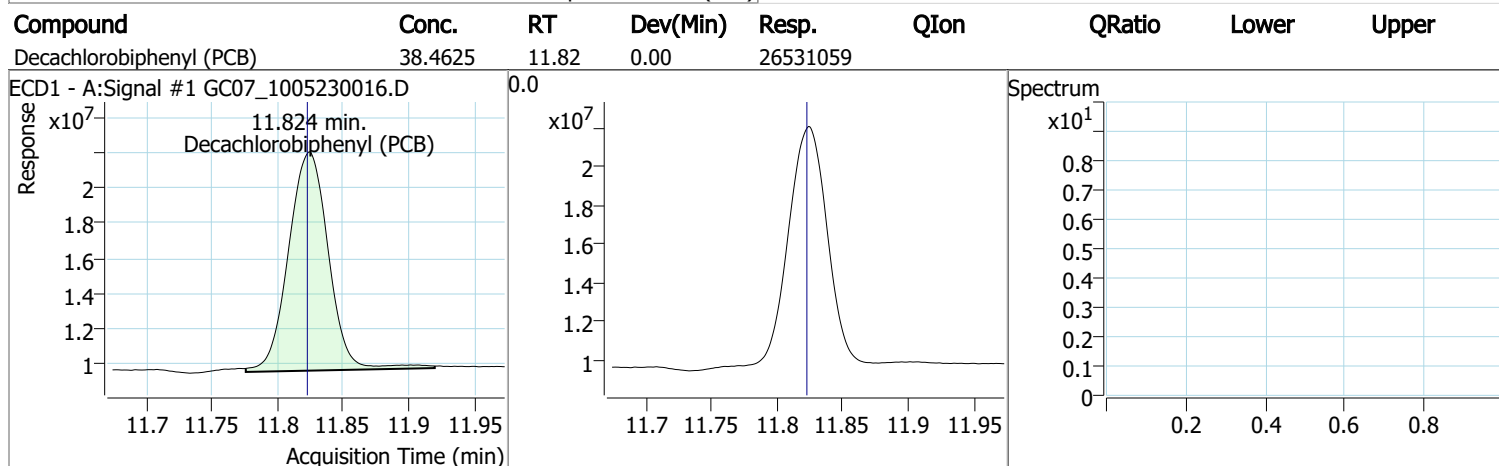
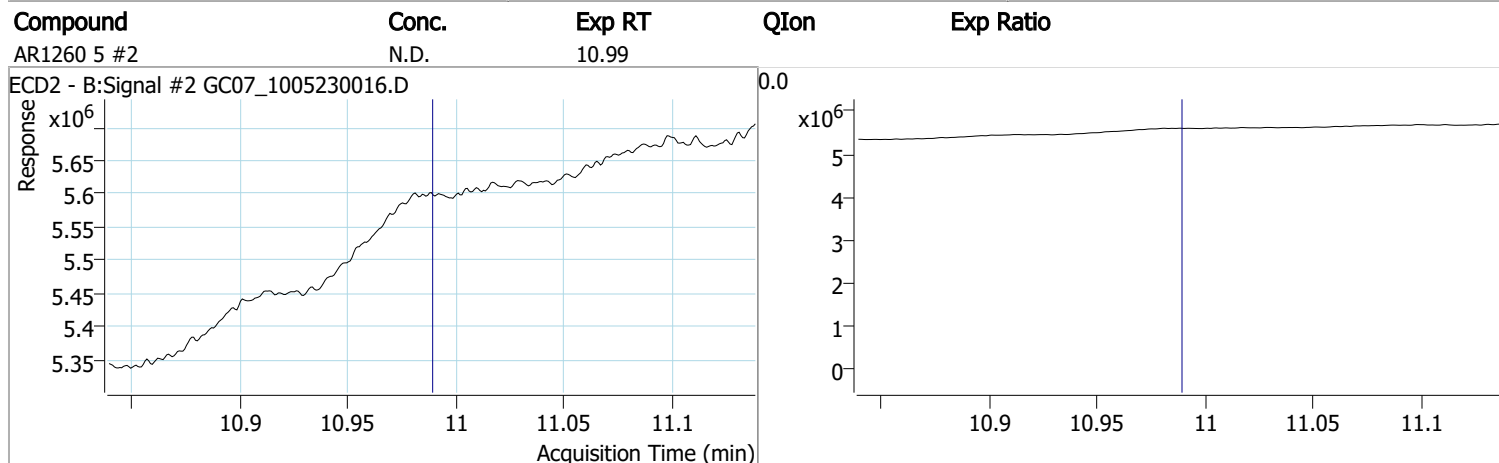
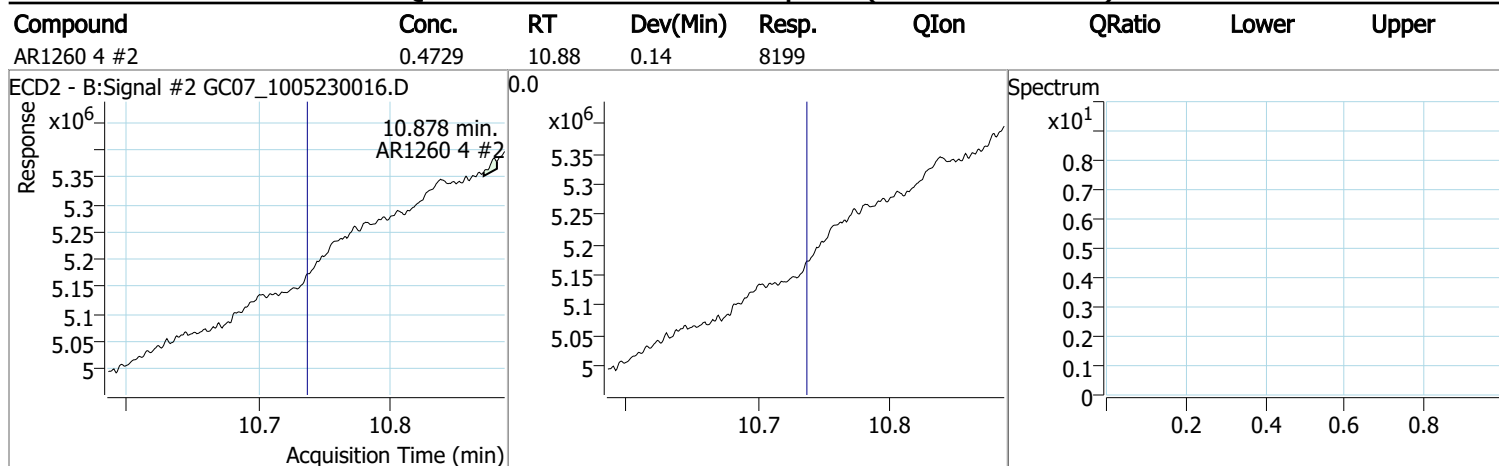
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	10.1102	10.19	-0.10	271111				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	9.2781	10.27	-0.03	670657				



Quantitation Results Report (Not Reviewed)



ENTHALPY SPIKE USER REPORT FOR 493300 PCBs Wipe
EPA 8082

Type: LCS
Inst: SVOA-GC06
Seqnum: 453400820040.1
File: gc06_100523040
IDF: 1.0
Lab ID: QC1098653
Matrix: Wipe
Batch: 323800
Time: 05-OCT-2023 19:45
Cal: 453400820002
Units: ug/dm2

- LCS: 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Spiked	Raw	LCS	Ch	%Rec	Limits	Flags
Aroclor-1016	0.5000	47.41	0.4741	B	95	60-140	u
Aroclor-1016 Peak # 1		49.75	0.4975	B			
Aroclor-1016 Peak # 2		45.86	0.4586	B			
Aroclor-1016 Peak # 3		47.39	0.4739	B			
Aroclor-1016 Peak # 4		46.57	0.4657	B			
Aroclor-1016 Peak # 5		47.47	0.4747	B			
Aroclor-1260	0.5000	49.44	0.4944	B	99	60-140	u
Aroclor-1260 Peak # 1		49.29	0.4929	B			
Aroclor-1260 Peak # 2		50.73	0.5073	B			
Aroclor-1260 Peak # 3		48.58	0.4858	B			
Aroclor-1260 Peak # 4		50.95	0.5095	B			
Aroclor-1260 Peak # 5		47.68	0.4768	B			
Surrogates							
TCMX (PCB)	0.5000	37.64	0.3764	B	75	19-121	c+ u
Decachlorobiphenyl (PCB)	0.5000	32.54	0.3254	B	65	19-121	c+ u

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV Abund	LCS Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12870863	12642655	-1.77
1-bromo-2-nitrobenzene (PCB)	A	5358611	5249387	-2.04

ISTD (ICV/CCV gc06_100523030)	Ch	ICV/CCV RT	LCS RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.34	4.34	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.14	4.14	0.00

TRN 10/06/23 : manually integrated for coeluting peak, negative/tailing peak for one/both columns [general version]

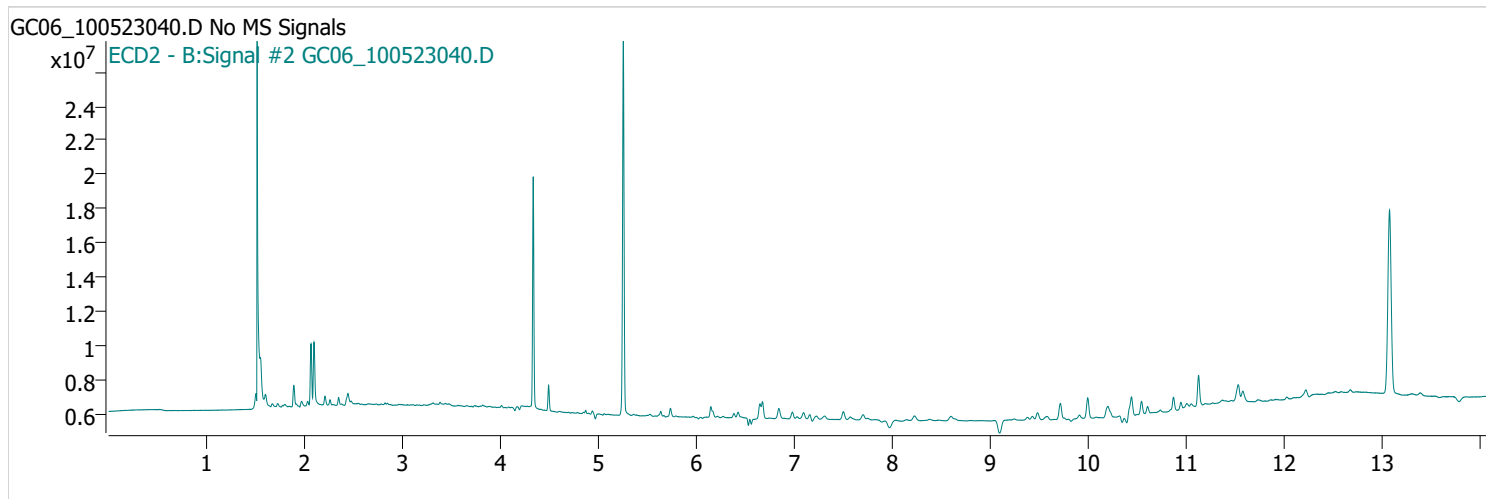
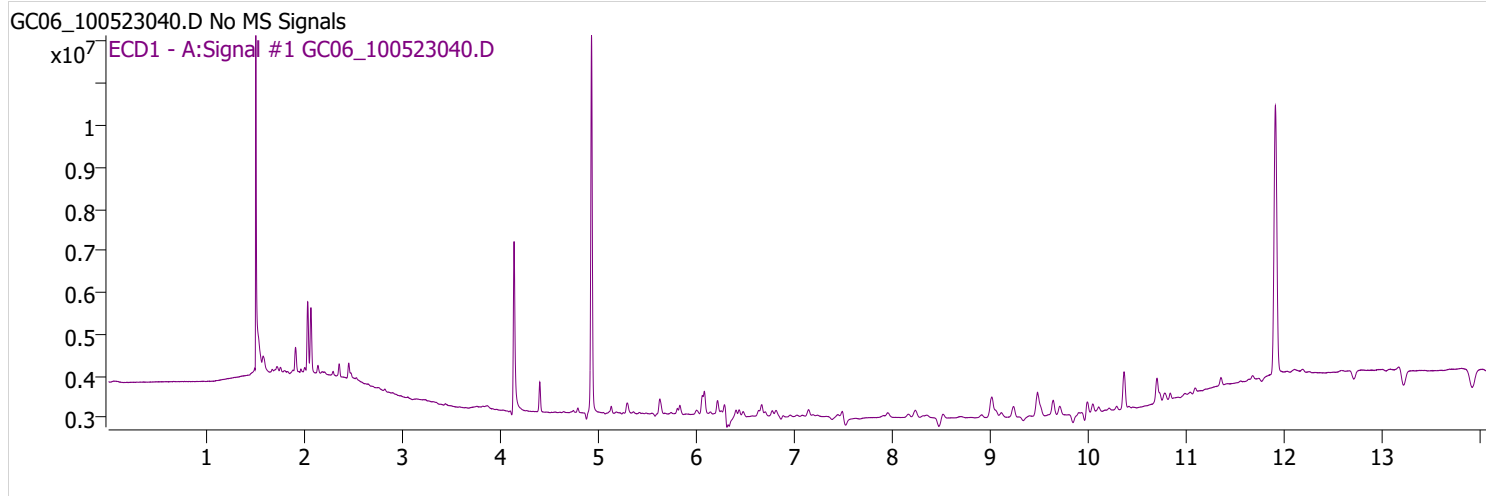
+ = high bias c = CCV u = use

Analyst: TRN 10/06/23

Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523040.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 7:45:04 PM
Sample Name	10/16 MDL, 323800, 1	Instrument	SVOA-GC06
Vial	1	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	WIPE MDL DAY1
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.140	0.0	5249386.97 5	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.336	0.0	12642655.2 49	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.931	0.0	10595882.6 03	37.4041	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 187.02%	*	
S TCMX (PCB) #2	5.255	0.0	23573877.8 74	37.6377	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 188.19%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	13474664.9 39	37.1439	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 185.72%	*	
S Decachlorobiphenyl (PCB) #2	13.079	0.0	25932358.6 34	32.5449	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 162.72%	*	

Target Compounds

QValue

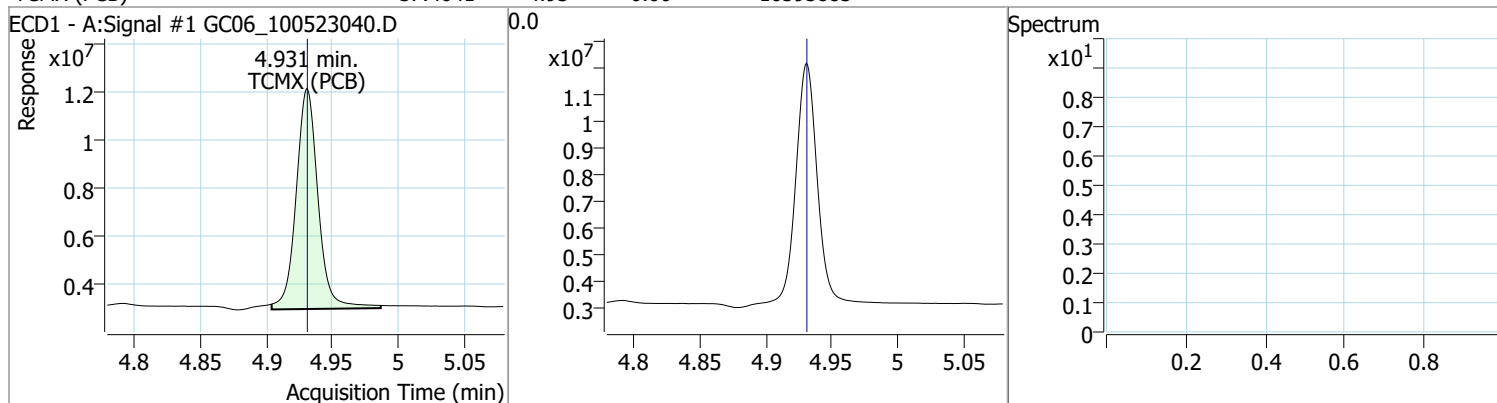
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.297	0.0	359392.800	60.6506	ng/ml m	100
T AR1016 2	5.628	0.0	586077.750	47.4375	ng/ml m	100
T AR1016 1 #2	5.736	0.0	596158.750	49.7505	ng/ml m	100
T AR1016 3	6.083	0.0	729372.110	45.9971	ng/ml m	100
T AR1016 2 #2	6.150	0.0	1195338.154	45.8616	ng/ml m	100
T AR1016 4	6.218	0.0	495540.772	51.6409	ng/ml m	100
T AR1016 5	6.669	0.0	492571.748	50.3586	ng/ml m	100
T AR1016 3 #2	6.677	0.0	1631047.698	47.3864	ng/ml m	100
T AR1016 4 #2	6.844	0.0	1122252.338	46.5733	ng/ml m	100
T AR1016 5 #2	7.503	0.0	934048.559	47.4708	ng/ml m	100
T AR1260 1	8.522	0.0	905207.170	50.1138	ng/ml m	100
T AR1260 2	9.018	0.0	1538804.416	48.9727	ng/ml	100
T AR1260 3	9.484	0.0	1638313.929	51.1513	ng/ml m	100
T AR1260 1 #2	9.718	0.0	1760401.962	49.2859	ng/ml m	100
T AR1260 4	9.993	0.0	809200.199	50.5814	ng/ml m	100
T AR1260 2 #2	9.997	0.0	2179826.736	50.7266	ng/ml	100
T AR1260 3 #2	10.444	0.0	2627977.600	48.5808	ng/ml m	100
T AR1260 5	10.705	0.0	1352965.766	52.2680	ng/ml m	100
T AR1260 4 #2	10.873	0.0	1601447.578	50.9483	ng/ml m	100
T AR1260 5 #2	11.534	0.0	2227855.715	47.6855	ng/ml	100

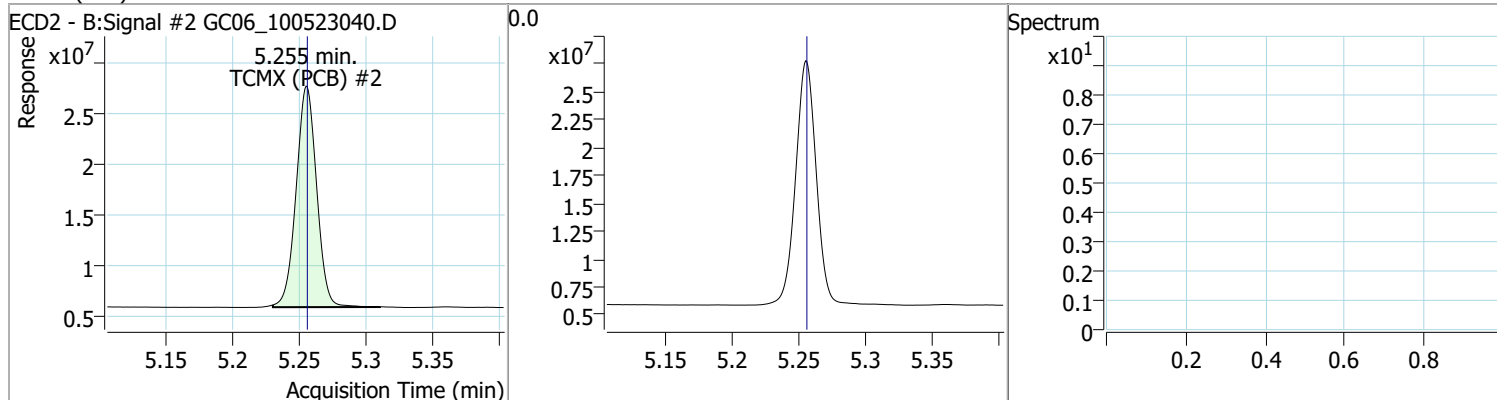
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

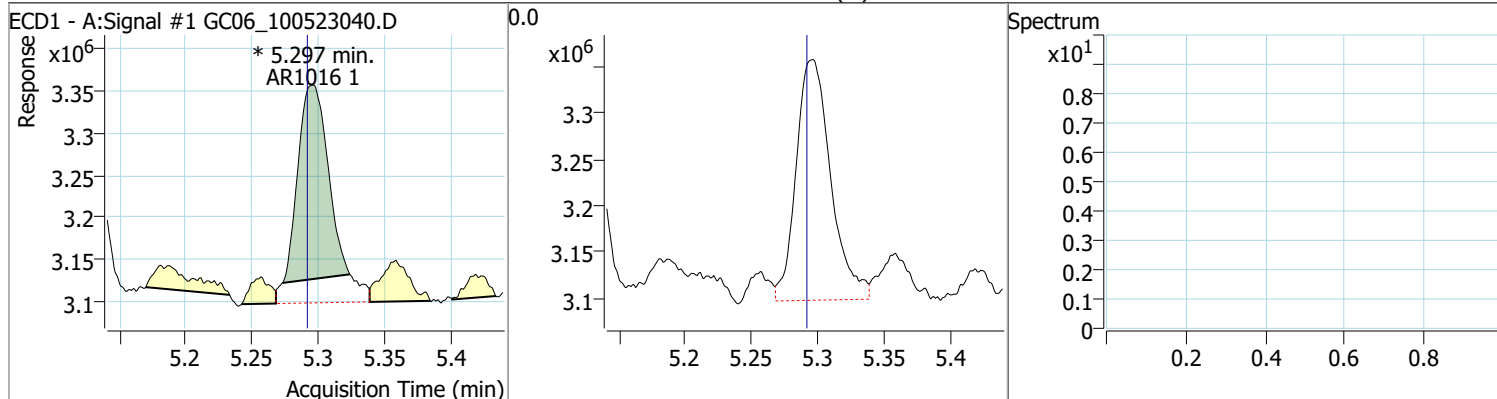
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	37.4041	4.93	0.00	10595883				



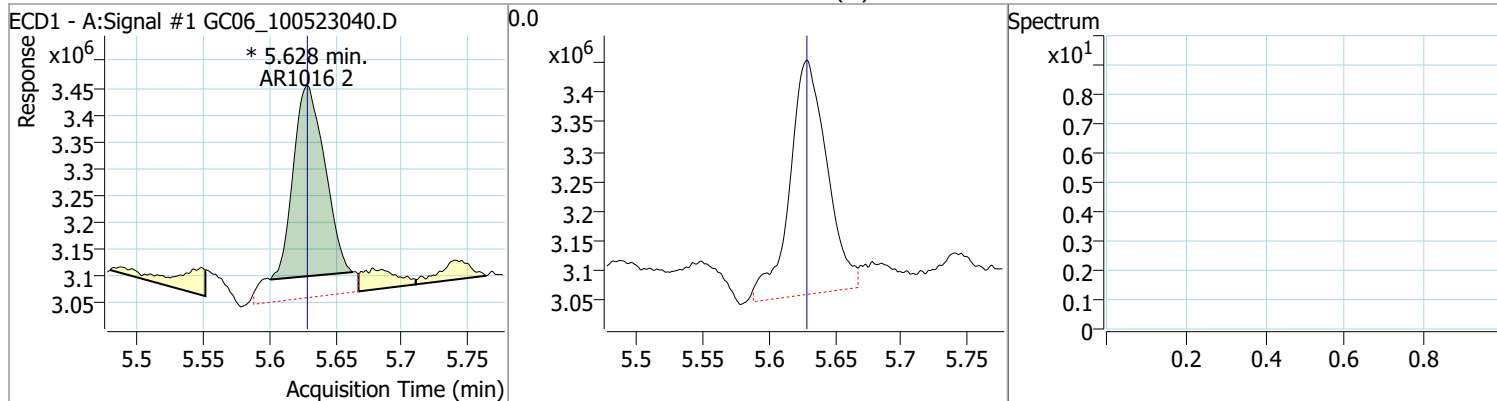
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	37.6377	5.26	0.00	23573878				



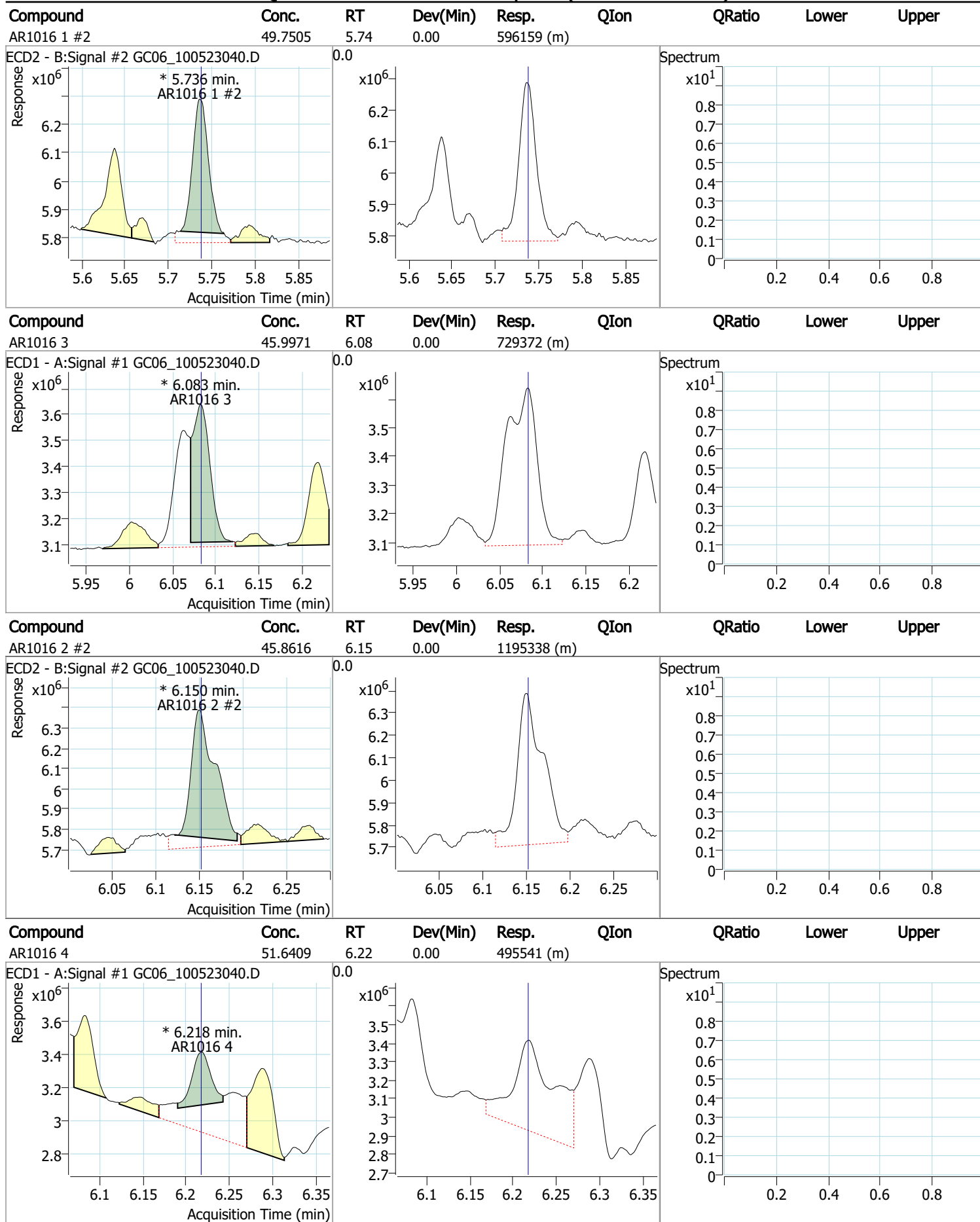
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	60.6506	5.30	0.01	359393 (m)				



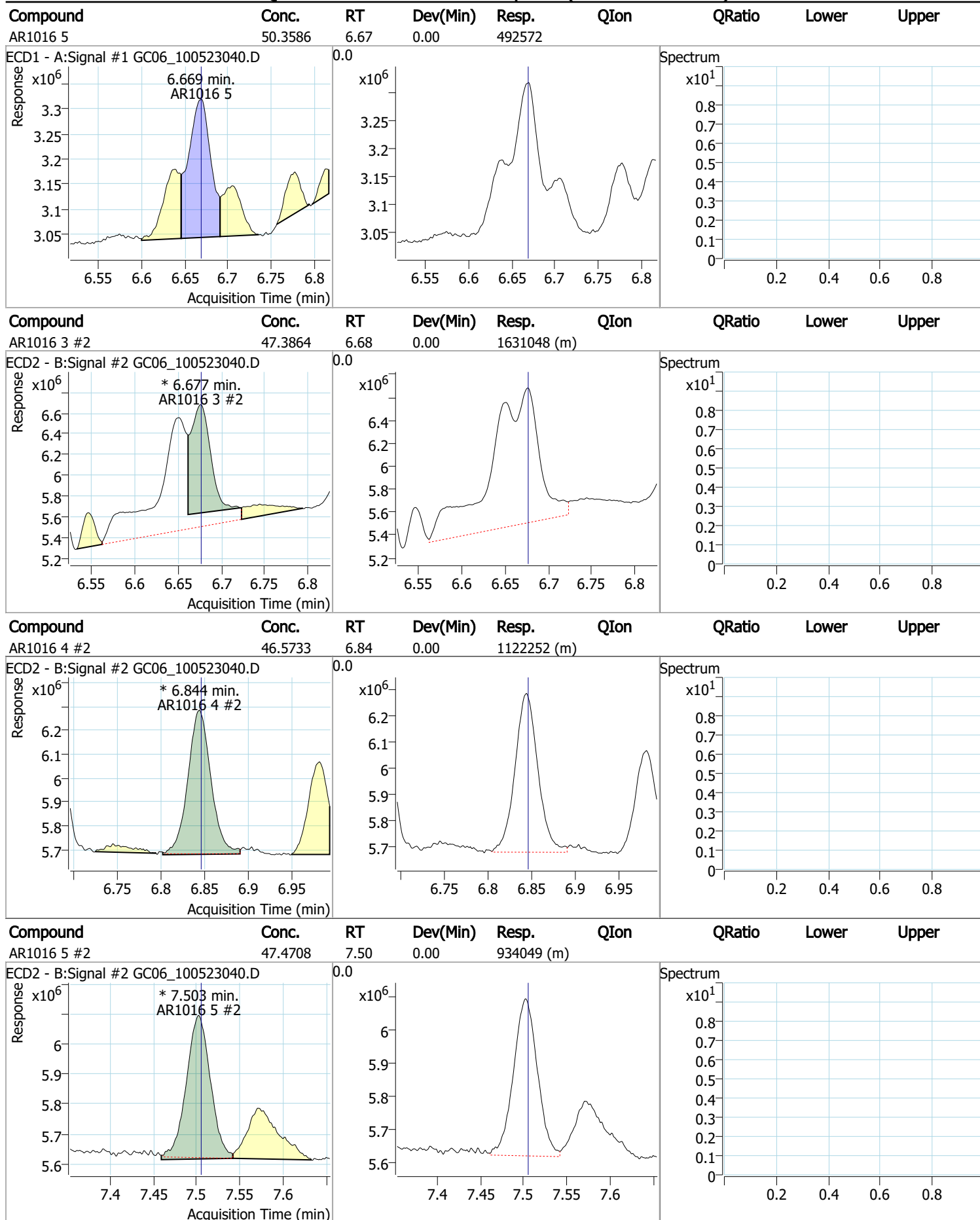
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	47.4375	5.63	0.00	586078 (m)				



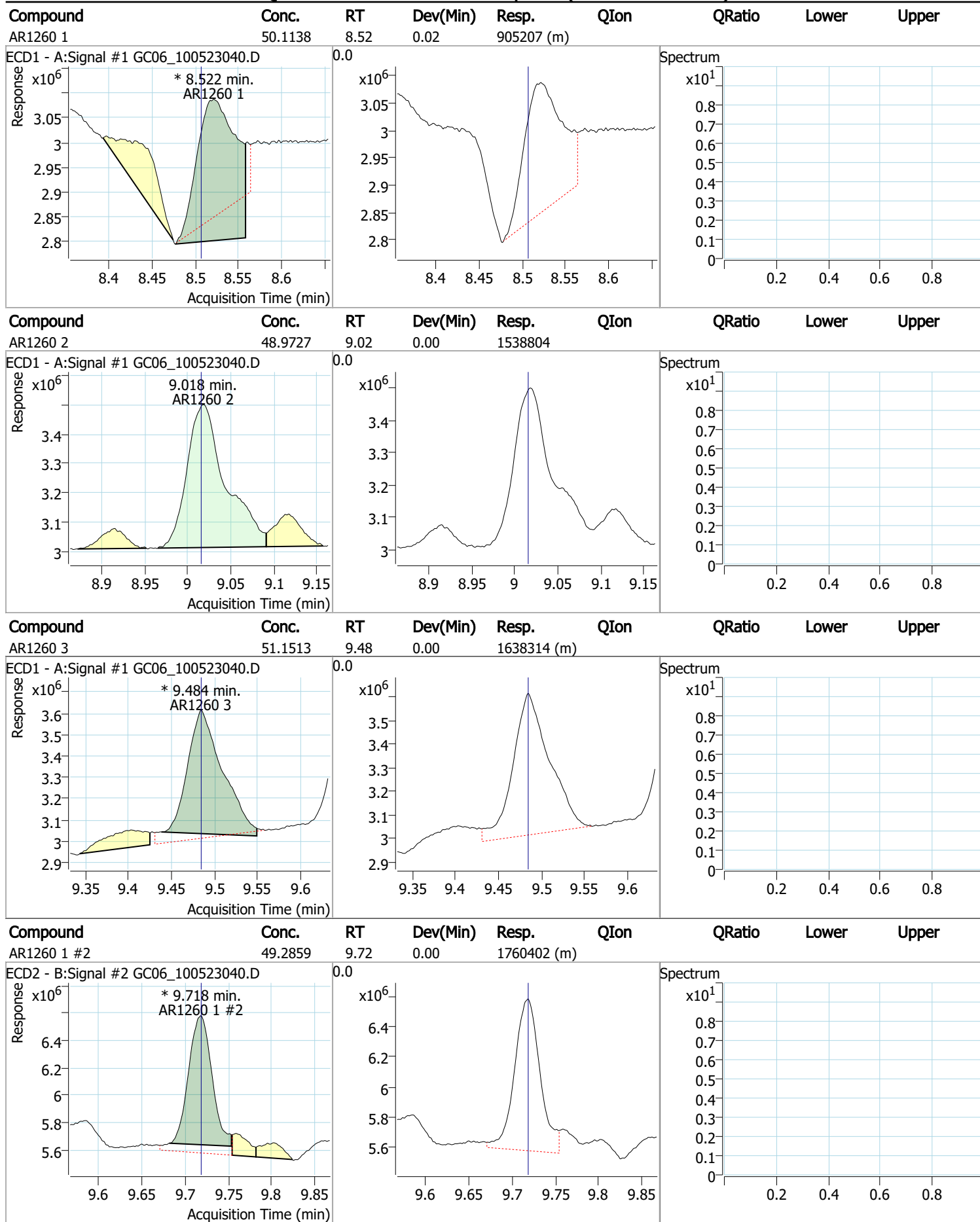
Quantitation Results Report (Not Reviewed)



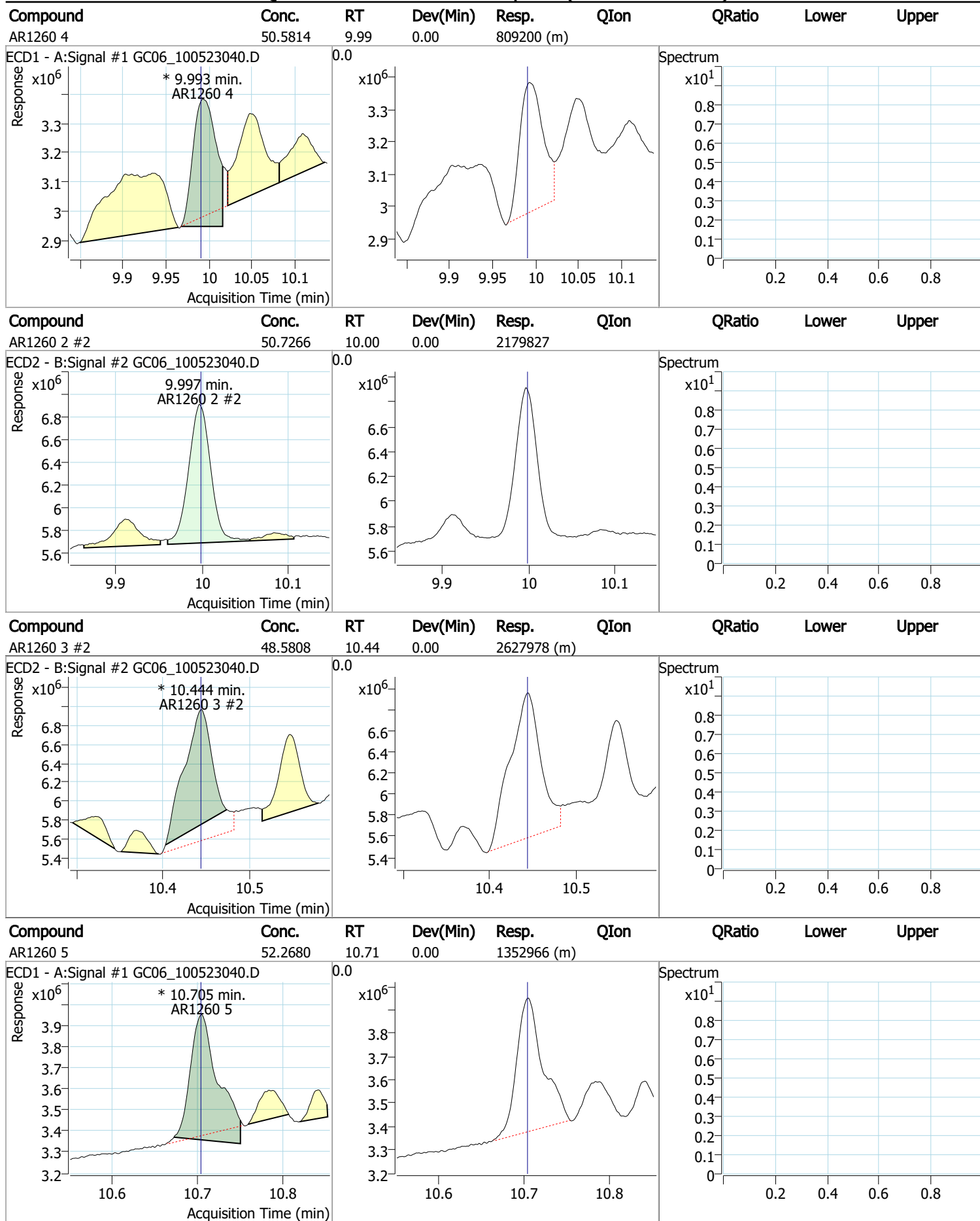
Quantitation Results Report (Not Reviewed)



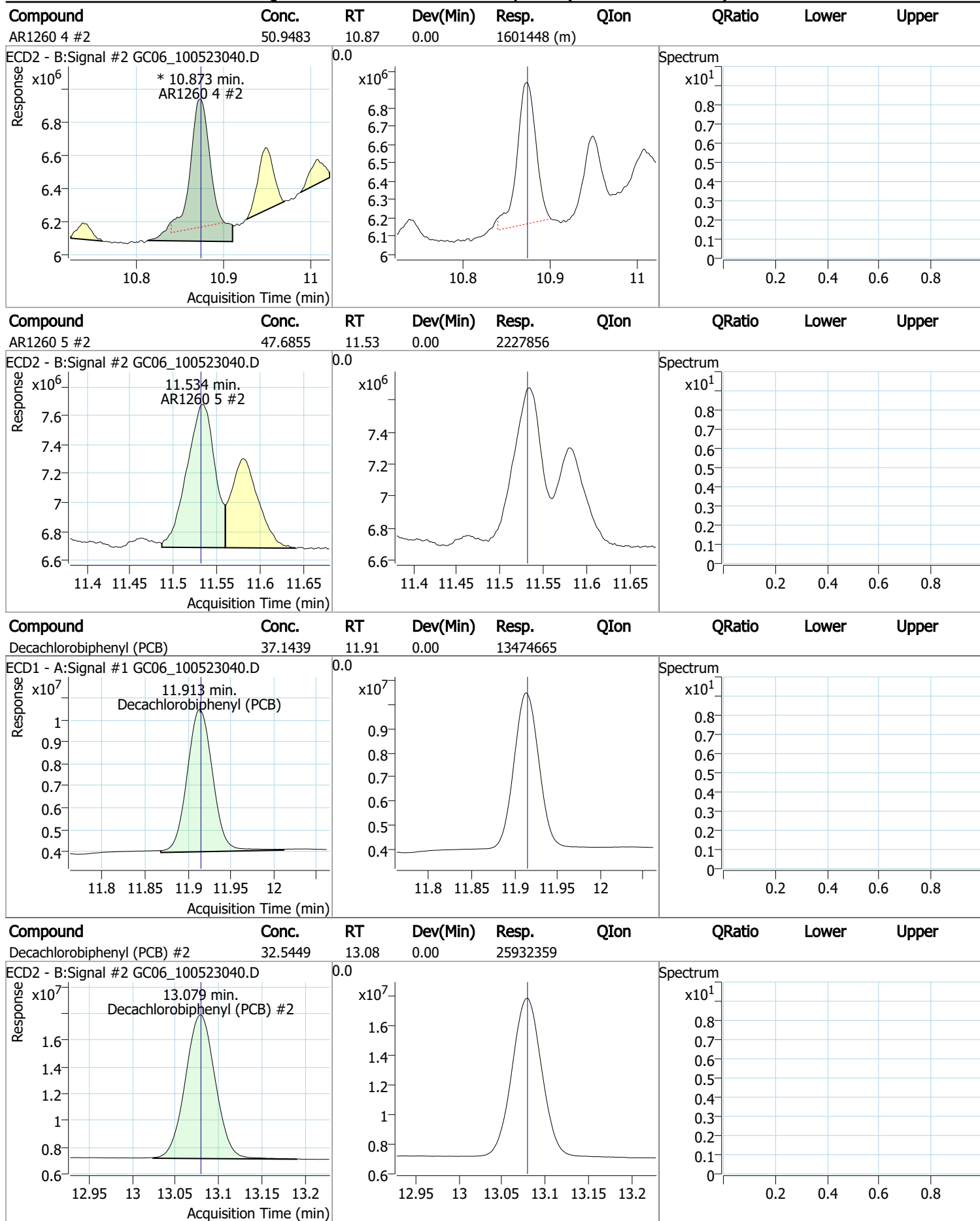
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Initial Calibration Raw Data

Instrument: SVOA-GC06
Calibration #: 453400820002
Units: ug/L

Name: PCB_100523_1
Date: 05-OCT-2023 13:25
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_100523020	453400820020		05-OCT-2023 13:43	S18455
L2	gc06_100523021	453400820021		05-OCT-2023 14:01	S18456
L3	gc06_100523022	453400820022		05-OCT-2023 14:19	S18457
L4	gc06_100523023	453400820023		05-OCT-2023 14:38	S18458
L5	gc06_100523024	453400820024		05-OCT-2023 14:56	S18459
L6	gc06_100523025	453400820025		05-OCT-2023 15:14	S18460
L7	gc06_100523026	453400820026		05-OCT-2023 15:32	S18461
L8	gc06_100523027	453400820027		05-OCT-2023 15:51	S18462
L9	gc06_100523028	453400820028		05-OCT-2023 16:09	S18463

Instrument: SVOA-GC06
 Calibration #: 453400820002
 Units: ug/L

Name: PCB_100523_1
 Date: 05-OCT-2023 13:25
 X Axis: R

Analyte	Ch	Type	a0	a1	a2	Avg RF	%RSD	n	Min r ²	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG		44.2934		0.0226	16	9	.99	20	
Aroclor-1016 Peak # 2	A	AVRG		21.2441		0.0471	19	8	.99	20	
Aroclor-1016 Peak # 3	A	AVRG		16.5522		0.0604	18	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG		27.3519		0.0366	20	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG		26.8334		0.0373	19	7	.99	20	
Aroclor-1260 Peak # 1	A	AVRG		14.5305		0.0688	19	7	.99	20	
Aroclor-1260 Peak # 2	A	AVRG		8.35299		0.1197	19	6	.99	20	
Aroclor-1260 Peak # 3	A	AVRG		8.19466		0.1220	19	6	.99	20	
Aroclor-1260 Peak # 4	A	AVRG		16.4062		0.0610	17	8	.99	20	
Aroclor-1260 Peak # 5	A	AVRG		10.1396		0.0986	11	8	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG		0.72350		1.3822	17	8	.99	20	
TCMX (PCB)	A	AVRG		0.92652		1.0793	17	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG		52.7519		0.0190	13	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG		24.2527		0.0412	16	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG		18.3650		0.0545	15	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG		26.2331		0.0381	16	9	.99	20	
Aroclor-1016 Peak # 5	B	AVRG		32.1263		0.0311	17	9	.99	20	
Aroclor-1260 Peak # 1	B	AVRG		17.6976		0.0565	17	9	.99	20	
Aroclor-1260 Peak # 2	B	AVRG		14.7101		0.0680	17	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG		11.6855		0.0856	15	9	.99	20	
Aroclor-1260 Peak # 4	B	AVRG		20.1104		0.0497	10	9	.99	20	
Aroclor-1260 Peak # 5	B	AVRG		13.5301		0.0739	17	8	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG		0.79331		1.2605	20	7	.99	20	
TCMX (PCB)	B	AVRG		1.00924		0.9908	12	9	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)

AVRG: Average response factor

Instrument: SVOA-GC06
 Calibration #: 453400820002
 Units: ug/L

Name: PCB_100523_1
 Date: 05-OCT-2023 13:25
 X Axis: R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF
Aroclor-1016 Peak # 1	A	0.0282	0.0267	0.0248	0.0240	0.0224	0.0202	0.0203	0.0182	0.0184
Aroclor-1016 Peak # 2	A	0.0620	0.0562	0.0516	0.0473	0.0441	0.0402	0.0394	0.0357	
Aroclor-1016 Peak # 3	A	0.0808	0.0736	0.0662	0.0609	0.0572	0.0539	0.0534	0.0477	0.0501
Aroclor-1016 Peak # 4	A	0.0505	0.0433	0.0406	0.0376	0.0351	0.0321	0.0317	0.0288	0.0294
Aroclor-1016 Peak # 5	A	0.0496	0.0432	0.0384	0.0360	0.0332	0.0305	0.0300		
Aroclor-1260 Peak # 1	A		0.0890	0.0811	0.0735	0.0662	0.0606	0.0586	0.0527	
Aroclor-1260 Peak # 2	A	0.1571	0.1340	0.1202	0.1119	0.1015	0.0936			
Aroclor-1260 Peak # 3	A	0.1611	0.1349	0.1222	0.1130	0.1041	0.0969			
Aroclor-1260 Peak # 4	A		0.0795	0.0703	0.0658	0.0606	0.0565	0.0544	0.0499	0.0507
Aroclor-1260 Peak # 5	A		0.1181	0.1058	0.1057	0.1015	0.0941	0.0914	0.0845	0.0878
Decachlorobiphenyl (PCB)	A		1.7556	1.3896	1.5824	1.5667	1.3560	1.2014	1.0818	1.1239
TCMX (PCB)	A	1.4163	1.1929	1.0813	1.2776	0.9883	0.9936	0.9579	0.8836	0.9223
Aroclor-1016 Peak # 1	B	0.0243	0.0207	0.0197	0.0196	0.0189	0.0176	0.0176	0.0158	0.0166
Aroclor-1016 Peak # 2	B	0.0544	0.0477	0.0435	0.0422	0.0404	0.0372	0.0372	0.0336	0.0349
Aroclor-1016 Peak # 3	B	0.0720	0.0618	0.0571	0.0551	0.0525	0.0489	0.0496	0.0450	0.0482
Aroclor-1016 Peak # 4	B	0.0516	0.0429	0.0395	0.0388	0.0372	0.0345	0.0345	0.0312	0.0328
Aroclor-1016 Peak # 5	B	0.0426	0.0350	0.0325	0.0313	0.0303	0.0281	0.0282	0.0255	0.0267
Aroclor-1260 Peak # 1	B	0.0763	0.0649	0.0598	0.0574	0.0546	0.0512	0.0502	0.0459	0.0482
Aroclor-1260 Peak # 2	B	0.0906	0.0808	0.0709	0.0686	0.0659	0.0615	0.0604	0.0550	0.0581
Aroclor-1260 Peak # 3	B	0.1138	0.0953	0.0878	0.0860	0.0824	0.0784	0.0777	0.0719	0.0769
Aroclor-1260 Peak # 4	B	0.0589	0.0541	0.0515	0.0517	0.0483	0.0470	0.0466	0.0432	0.0462
Aroclor-1260 Peak # 5	B		0.0993	0.0815	0.0767	0.0733	0.0686	0.0650	0.0608	0.0661
Decachlorobiphenyl (PCB)	B	1.7553	1.3419	1.0983	1.2462	1.2792	1.1170	0.9859		
TCMX (PCB)	B	1.1829	1.0335	0.9460	1.1776	0.9297	0.9558	0.9304	0.8491	0.9126

Instrument: SVOA-GC06
 Calibration #: 453400820002
 Units: ug/L

Name: PCB_100523_1
 Date: 05-OCT-2023 13:25
 X Axis: R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A	20.000	25	50.000	18	100.00	10	250.00	6	500.00	-1	749.91	-10	1000.0	-10	1500.0	-19
Aroclor-1016 Peak # 2	A	20.000	32	50.000	19	100.00	10	250.00	0	500.00	-6	749.91	-15	1000.0	-16	1500.0	-24
Aroclor-1016 Peak # 3	A	20.000	34	50.000	22	100.00	10	250.00	1	500.00	-5	749.91	-11	1000.0	-12	1500.0	-21
Aroclor-1016 Peak # 4	A	20.000	38	50.000	18	100.00	11	250.00	3	500.00	-4	749.91	-12	1000.0	-13	1500.0	-21
Aroclor-1016 Peak # 5	A	20.000	33	50.000	16	100.00	3	250.00	-3	500.00	-11	749.91	-18	1000.0	-20		
Aroclor-1260 Peak # 1	A			50.000	29	100.00	18	250.00	7	500.00	-4	749.91	-12	1000.0	-15	1500.0	-23
Aroclor-1260 Peak # 2	A	20.000	31	50.000	12	100.00	0	250.00	-7	500.00	-15	749.91	-22				
Aroclor-1260 Peak # 3	A	20.000	32	50.000	11	100.00	0	250.00	-7	500.00	-15	749.91	-21				
Aroclor-1260 Peak # 4	A			50.000	30	100.00	15	250.00	8	500.00	-1	749.91	-7	1000.0	-11	1500.0	-18
Aroclor-1260 Peak # 5	A			50.000	20	100.00	7	250.00	7	500.00	3	749.91	-5	1000.0	-7	1500.0	-14
Decachlorobiphenyl (PCB)	A			4.0000	27	8.0000	1	20.000	14	40.000	13	59.993	-2	80.000	-13	120.00	-22
TCMX (PCB)	A	1.6000	31	4.0000	11	8.0000	0	20.000	18	40.000	-8	59.993	-8	80.000	-11	120.00	-18
Aroclor-1016 Peak # 1	B	20.000	28	50.000	9	100.00	4	250.00	3	500.00	0	749.91	-7	1000.0	-7	1500.0	-17
Aroclor-1016 Peak # 2	B	20.000	32	50.000	16	100.00	5	250.00	2	500.00	-2	749.91	-10	1000.0	-10	1500.0	-19
Aroclor-1016 Peak # 3	B	20.000	32	50.000	13	100.00	5	250.00	1	500.00	-4	749.91	-10	1000.0	-9	1500.0	-17
Aroclor-1016 Peak # 4	B	20.000	35	50.000	13	100.00	4	250.00	2	500.00	-2	749.91	-9	1000.0	-9	1500.0	-18
Aroclor-1016 Peak # 5	B	20.000	37	50.000	12	100.00	4	250.00	1	500.00	-3	749.91	-10	1000.0	-9	1500.0	-18
Aroclor-1260 Peak # 1	B	20.000	35	50.000	15	100.00	6	250.00	2	500.00	-3	749.91	-9	1000.0	-11	1500.0	-19
Aroclor-1260 Peak # 2	B	20.000	33	50.000	19	100.00	4	250.00	1	500.00	-3	749.91	-10	1000.0	-11	1500.0	-19
Aroclor-1260 Peak # 3	B	20.000	33	50.000	11	100.00	3	250.00	0	500.00	-4	749.91	-8	1000.0	-9	1500.0	-16
Aroclor-1260 Peak # 4	B	20.000	18	50.000	9	100.00	4	250.00	4	500.00	-3	749.91	-6	1000.0	-6	1500.0	-13
Aroclor-1260 Peak # 5	B			50.000	34	100.00	10	250.00	4	500.00	-1	749.91	-7	1000.0	-12	1500.0	-18
Decachlorobiphenyl (PCB)	B	1.6000	39	4.0000	6	8.0000	-13	20.000	-1	40.000	1	59.993	-11	80.000	-22		
TCMX (PCB)	B	1.6000	19	4.0000	4	8.0000	-5	20.000	19	40.000	-6	59.993	-4	80.000	-6	120.00	-14

Instrument: SVOA-GC06
 Calibration #: 453400820002
 Units: ug/L

Name: PCB_100523_1
 Date: 05-OCT-2023 13:25
 X Axis: R

Spiked Amounts / Drifts	Ch	L9	%D
Aroclor-1016 Peak # 1	A	2000.0	-19
Aroclor-1016 Peak # 2	A		
Aroclor-1016 Peak # 3	A	2000.0	-17
Aroclor-1016 Peak # 4	A	2000.0	-20
Aroclor-1016 Peak # 5	A		
Aroclor-1260 Peak # 1	A		
Aroclor-1260 Peak # 2	A		
Aroclor-1260 Peak # 3	A		
Aroclor-1260 Peak # 4	A	2000.0	-17
Aroclor-1260 Peak # 5	A	2000.0	-11
Decachlorobiphenyl (PCB)	A	160.00	-19
TCMX (PCB)	A	160.00	-15
Aroclor-1016 Peak # 1	B	2000.0	-13
Aroclor-1016 Peak # 2	B	2000.0	-15
Aroclor-1016 Peak # 3	B	2000.0	-11
Aroclor-1016 Peak # 4	B	2000.0	-14
Aroclor-1016 Peak # 5	B	2000.0	-14
Aroclor-1260 Peak # 1	B	2000.0	-15
Aroclor-1260 Peak # 2	B	2000.0	-15
Aroclor-1260 Peak # 3	B	2000.0	-10
Aroclor-1260 Peak # 4	B	2000.0	-7
Aroclor-1260 Peak # 5	B	2000.0	-11
Decachlorobiphenyl (PCB)	B		
TCMX (PCB)	B	160.00	-8

TRN 10/05/23 : Manually integrated for coeluting peak, negative/tailing peak, and automatic draw baseline for one/both column on multiple levels

Instrument: SVOA-GC06
Calibration #: 453400820002
Units: ug/L

Name: PCB_100523_1
Date: 05-OCT-2023 13:25
X Axis: R

Analyst: TRN 10/05/23 *

Reviewer: LW 10/06/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 493300 PCBS Wipe
EPA 8082

Inst: SVOA-GC06
Calnum: 453400820002

Name: PCB_100523_1
Cal Date: 05-OCT-2023

- ICV 453400820030 (gc06_100523030 05-OCT-2023) stds: S18851

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	505.7	ug/L	1	15	
Aroclor-1260	A	500.0	505.0	ug/L	1	15	
Aroclor-1016	B	500.0	533.2	ug/L	7	15	
Aroclor-1260	B	500.0	536.1	ug/L	7	15	

•

Analyst: TRN 10/05/23 *

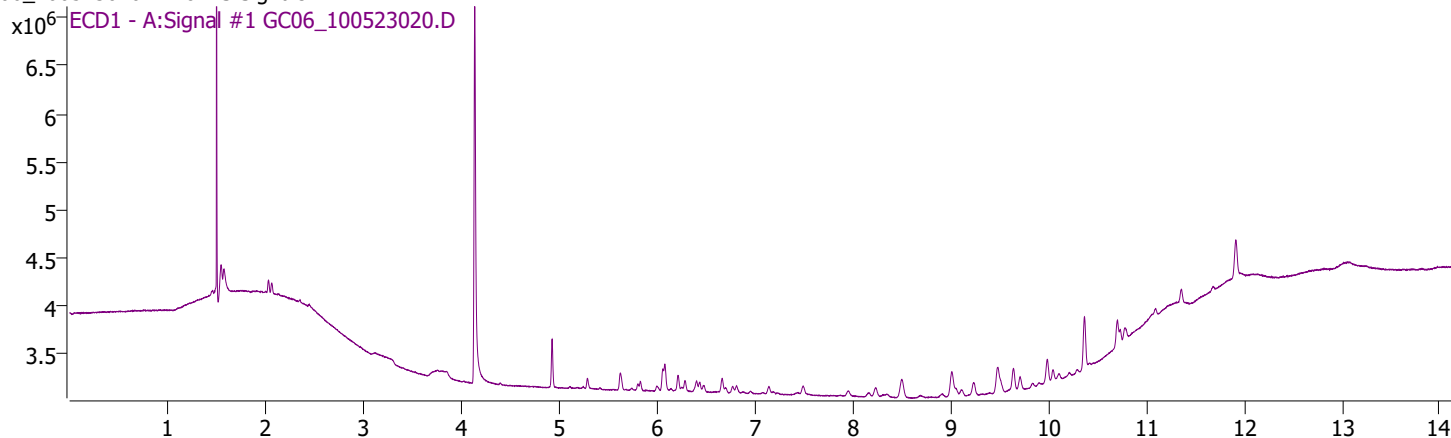
Reviewer: LW 10/06/23

Quantitation Results Report (Not Reviewed)

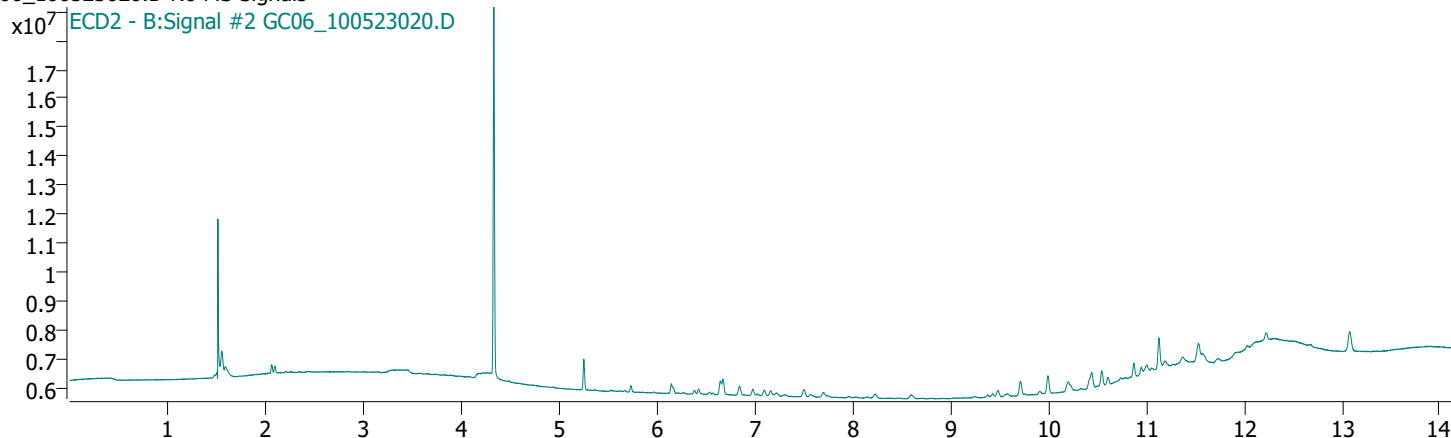
Data File GC06_100523020.D
 Acq. Method Acq_Pesticide_122221_2
 Sample Name ICAL, S18455
 Vial 11
 DA Method File PCB_608_100523_GC06_1.m
 Tune File ATUNE.U
 Batch Name 100523PCBICAL.batch.bin
 Ref Library

Operator
 Acq. Date-Time 10/5/2023 1:43:25 PM
 Instrument SVOA-GC06
 Multiplier 1.00
 Comment 20 PPB PCB ICAL
 Tune Date
 Last Calib Update 10/5/2023 6:25:48 PM

GC06_100523020.D No MS Signals



GC06_100523020.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.140	0.0	4926712.011	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.336	0.0	11739911.053	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.931	0.0	558214.840	2.0996	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 10.50%		*
S TCMX (PCB) #2	5.255	0.0	1110949.319	1.8463	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 9.23%		*
S Decachlorobiphenyl (PCB)	11.917	0.0	930462.481	2.7329	ng/ml	0.005
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 13.66%		*
S Decachlorobiphenyl (PCB) #2	13.080	0.0	1648553.422	2.2280	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 11.14%		*
Target Compounds						QValue
T AR1016 1	5.292	0.0	139156.323	25.0219	ng/ml	100

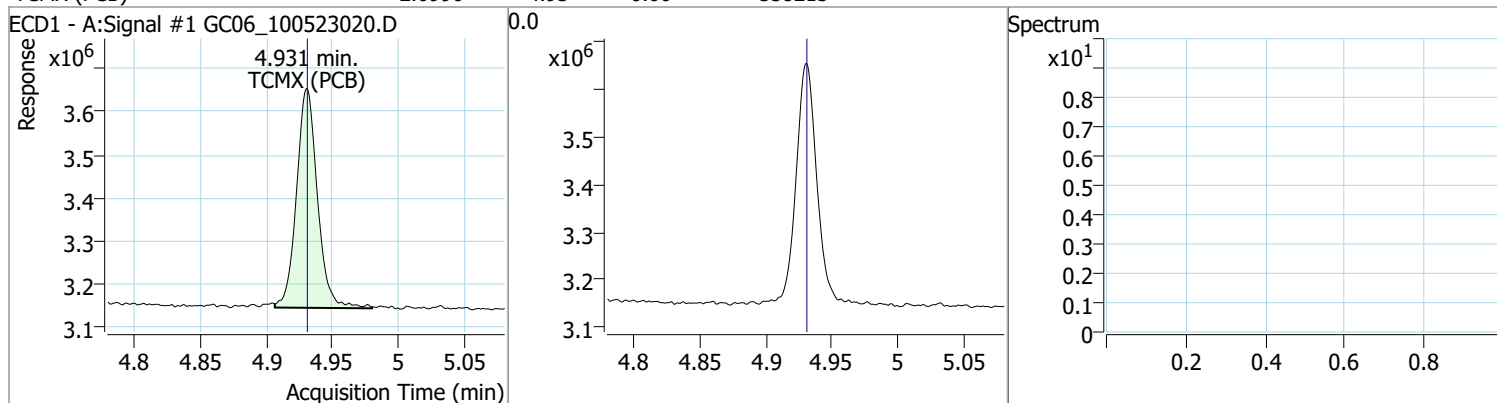
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 2	5.628	0.0	305663.587	26.3610	ng/ml	100
T AR1016 1 #2	5.737	0.0	284695.005	24.3322	ng/ml	100
T AR1016 3	6.083	0.0	398112.682	26.7509	ng/ml m	100
T AR1016 2 #2	6.150	0.0	638770.460	23.9383	ng/ml	100
T AR1016 4	6.216	0.0	248579.072	27.6014	ng/ml	100
T AR1016 5	6.668	0.0	244380.889	26.6209	ng/ml m	100
T AR1016 3 #2	6.677	0.0	844966.983	26.4363	ng/ml	100
T AR1016 4 #2	6.845	0.0	606341.771	27.0980	ng/ml	100
T AR1016 5 #2	7.505	0.0	500278.432	27.3045	ng/ml	100
T AR1260 1	8.504	0.0	512776.517	30.2474	ng/ml	100
T AR1260 2	9.015	0.0	774113.106	26.2498	ng/ml	100
T AR1260 3	9.486	0.0	793814.350	26.4077	ng/ml	100
T AR1260 1 #2	9.716	0.0	895655.945	27.0038	ng/ml	100
T AR1260 4	9.990	0.0	481695.107	32.0818	ng/ml m	100
T AR1260 2 #2	9.997	0.0	1063398.637	26.6491	ng/ml	100
T AR1260 3 #2	10.443	0.0	1335614.371	25.8274	ng/ml m	100
T AR1260 5	10.708	0.0	794805.696	32.7161	ng/ml m	100
T AR1260 4 #2	10.876	0.0	691701.729	22.9448	ng/ml	100
T AR1260 5 #2	11.536	0.0	1561772.619	35.9990	ng/ml m	100

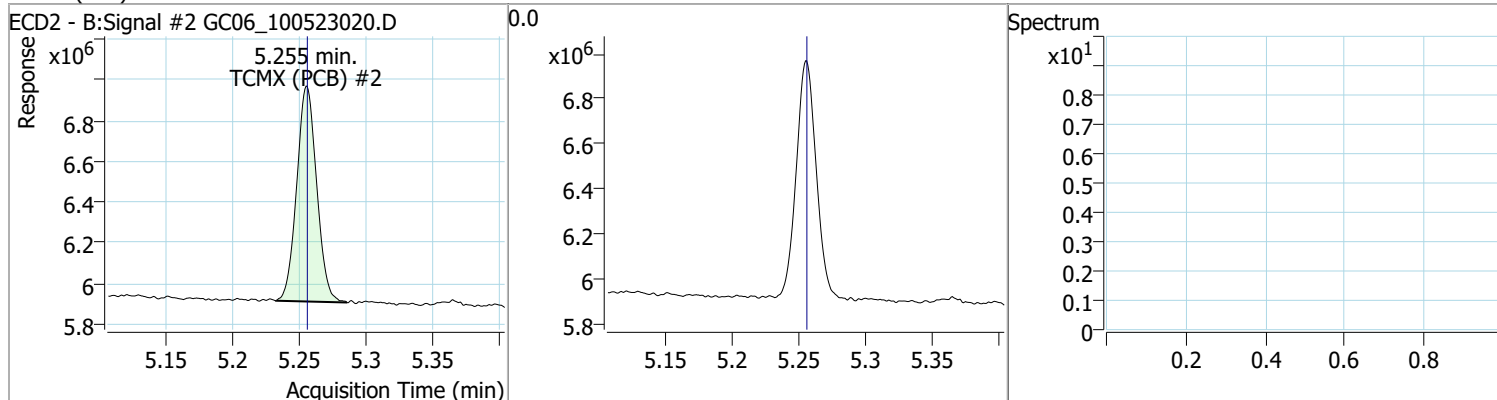
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

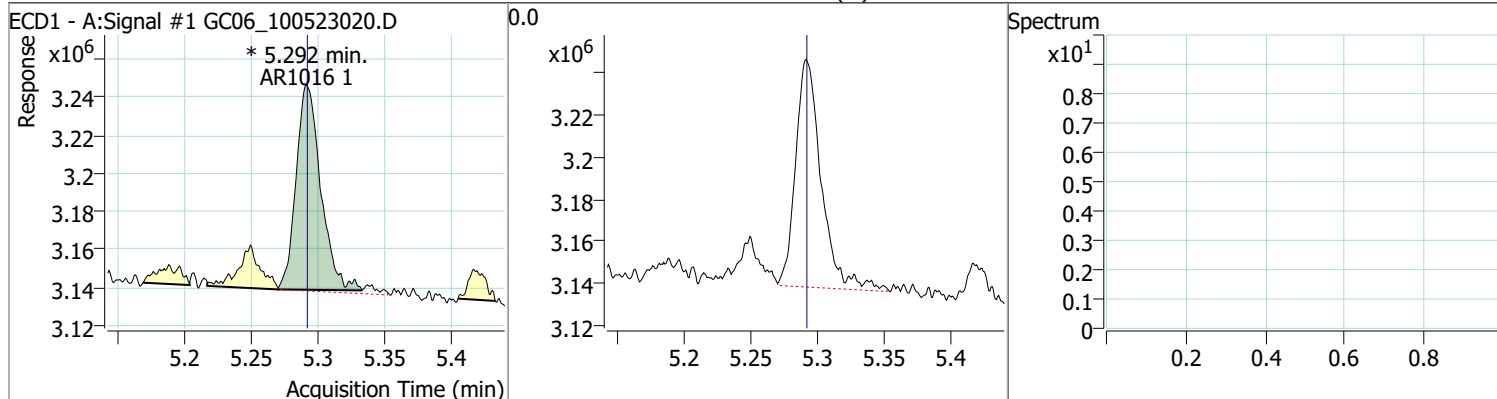
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	2.0996	4.93	0.00	558215				



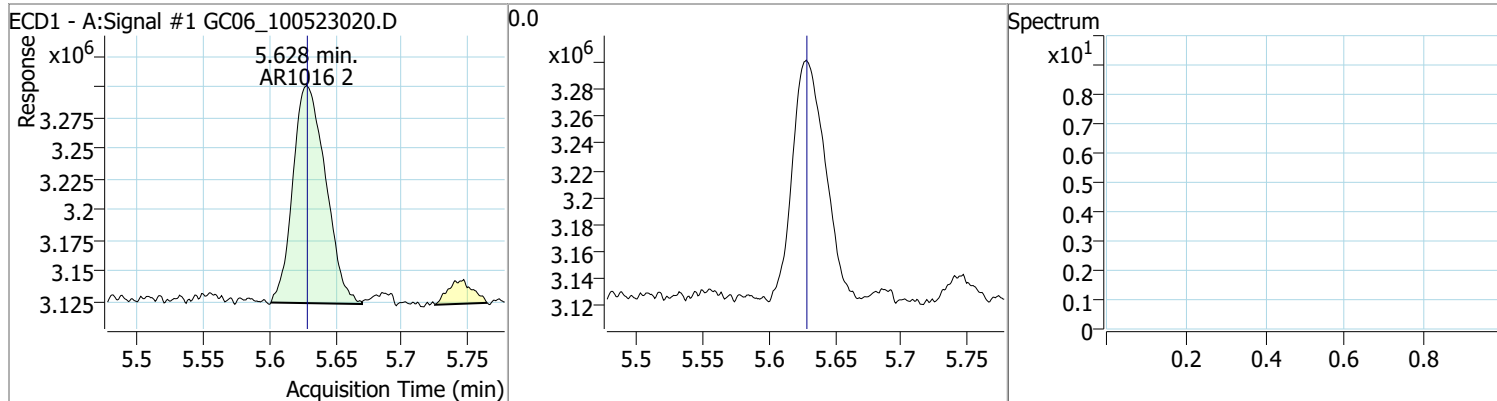
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	1.8463	5.26	0.00	1110949				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	25.0219	5.29	0.00	139156 (m)				

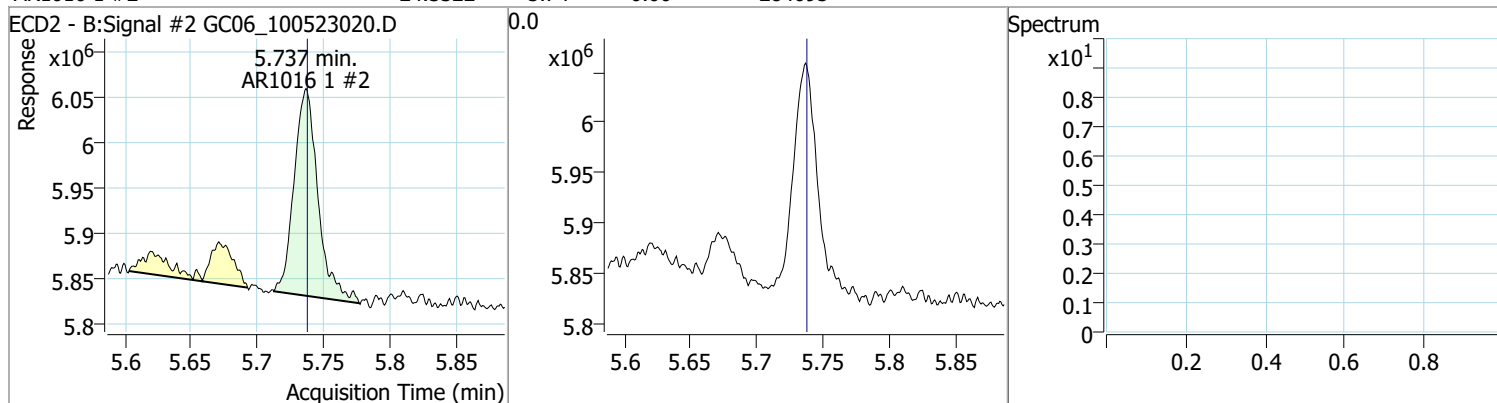


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	26.3610	5.63	0.00	305664				

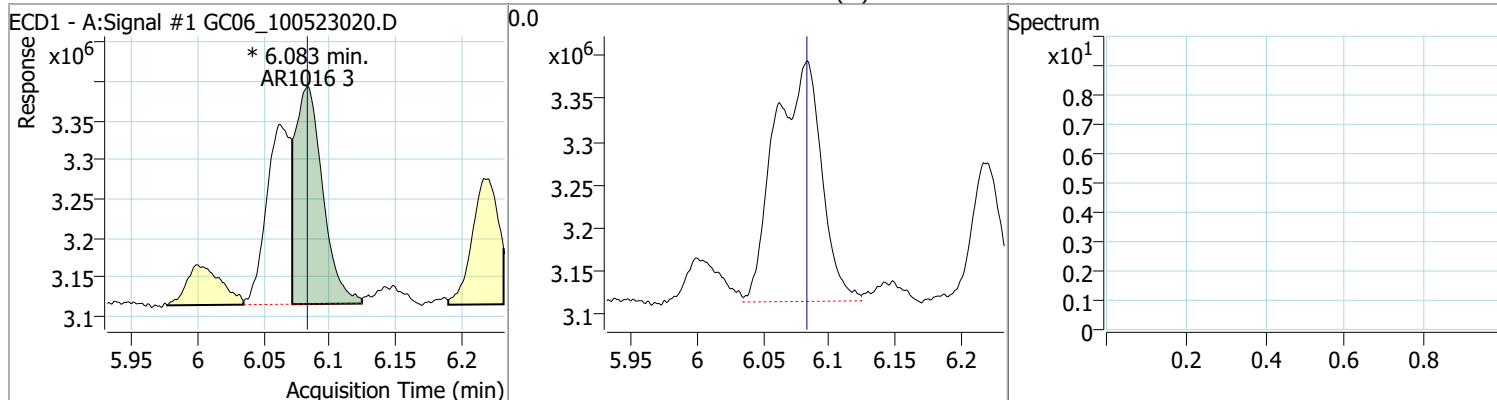


Quantitation Results Report (Not Reviewed)

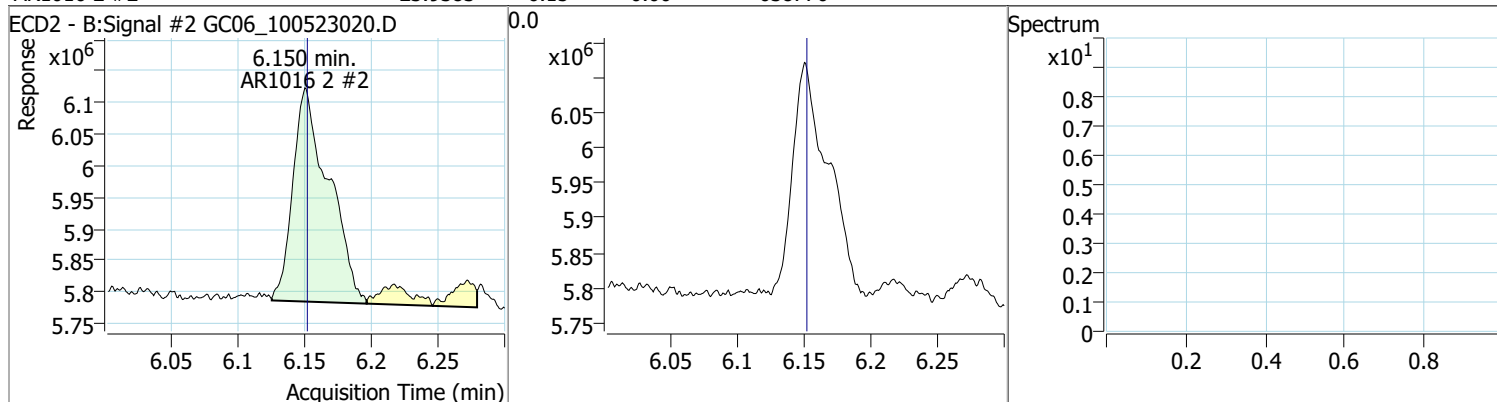
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	24.3322	5.74	0.00	284695				



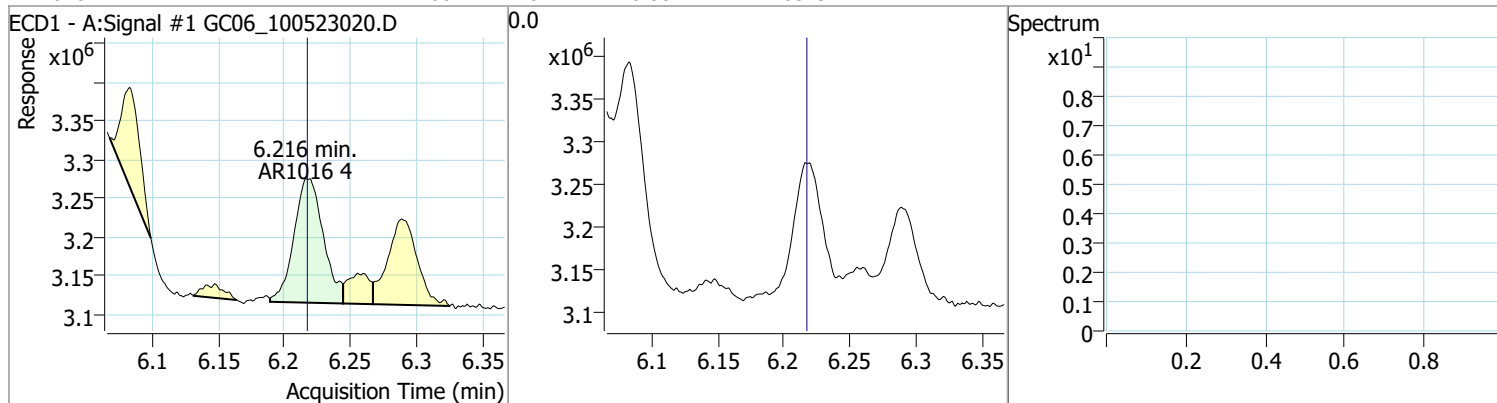
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	26.7509	6.08	0.00	398113 (m)				



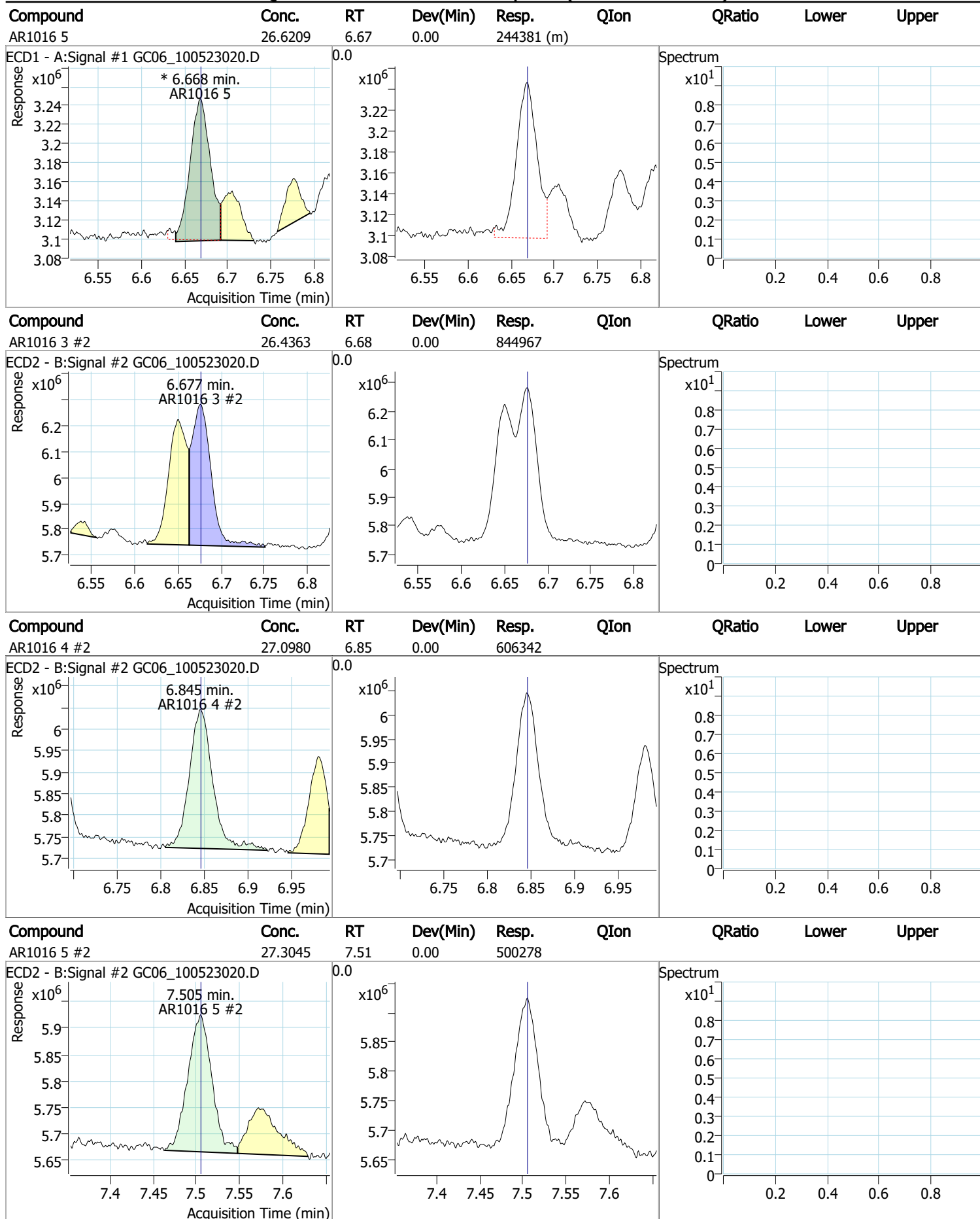
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	23.9383	6.15	0.00	638770				



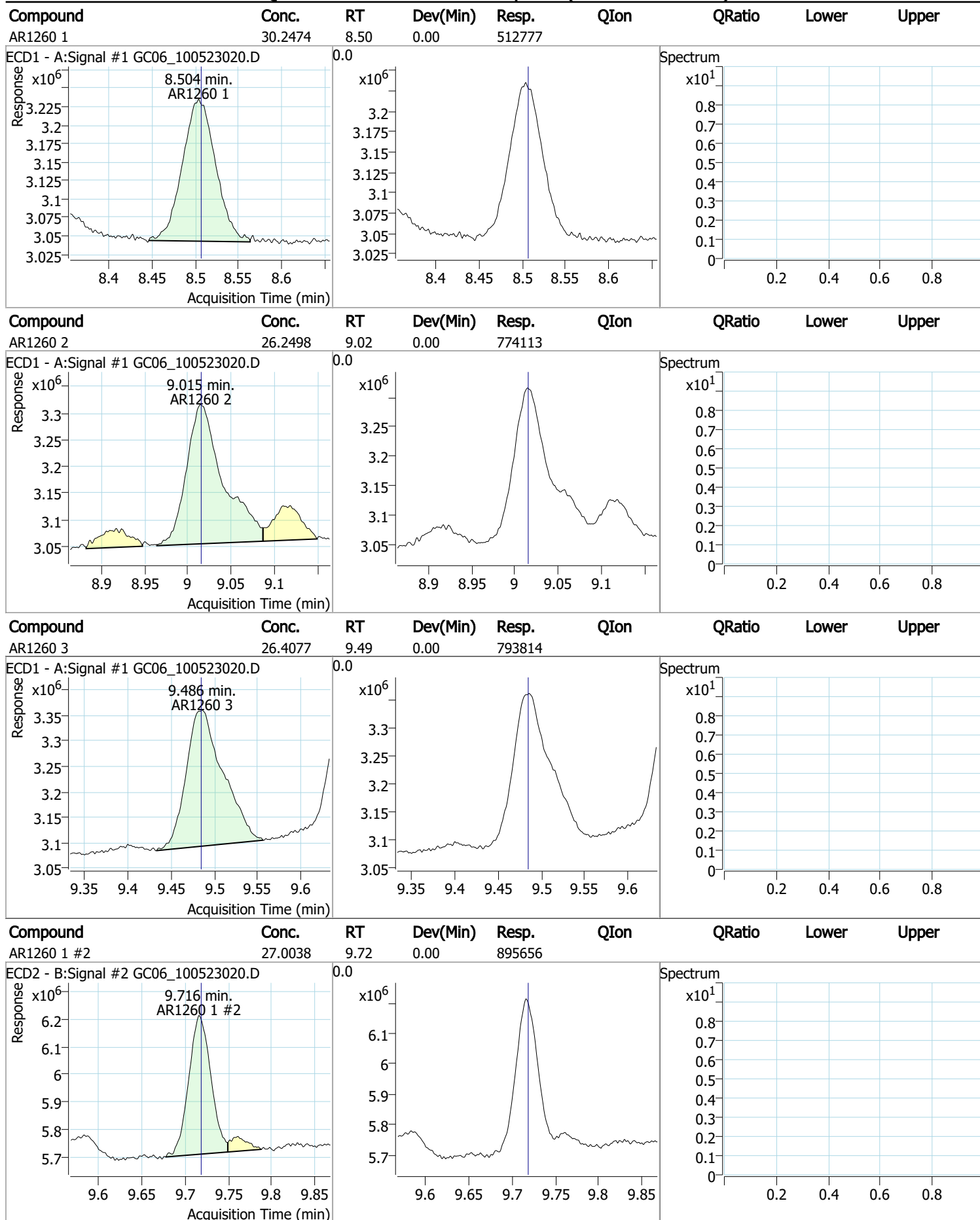
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	27.6014	6.22	0.00	248579				



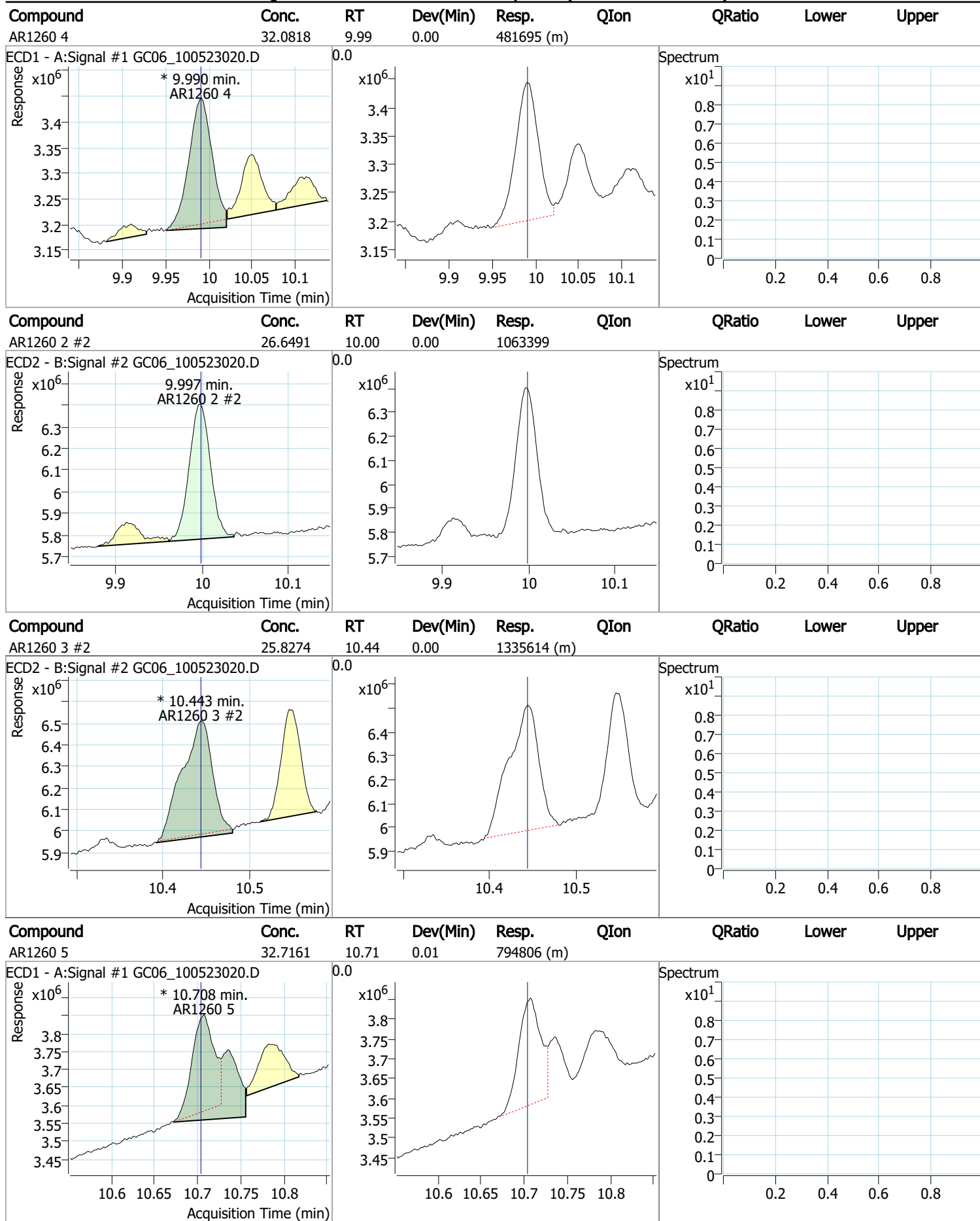
Quantitation Results Report (Not Reviewed)



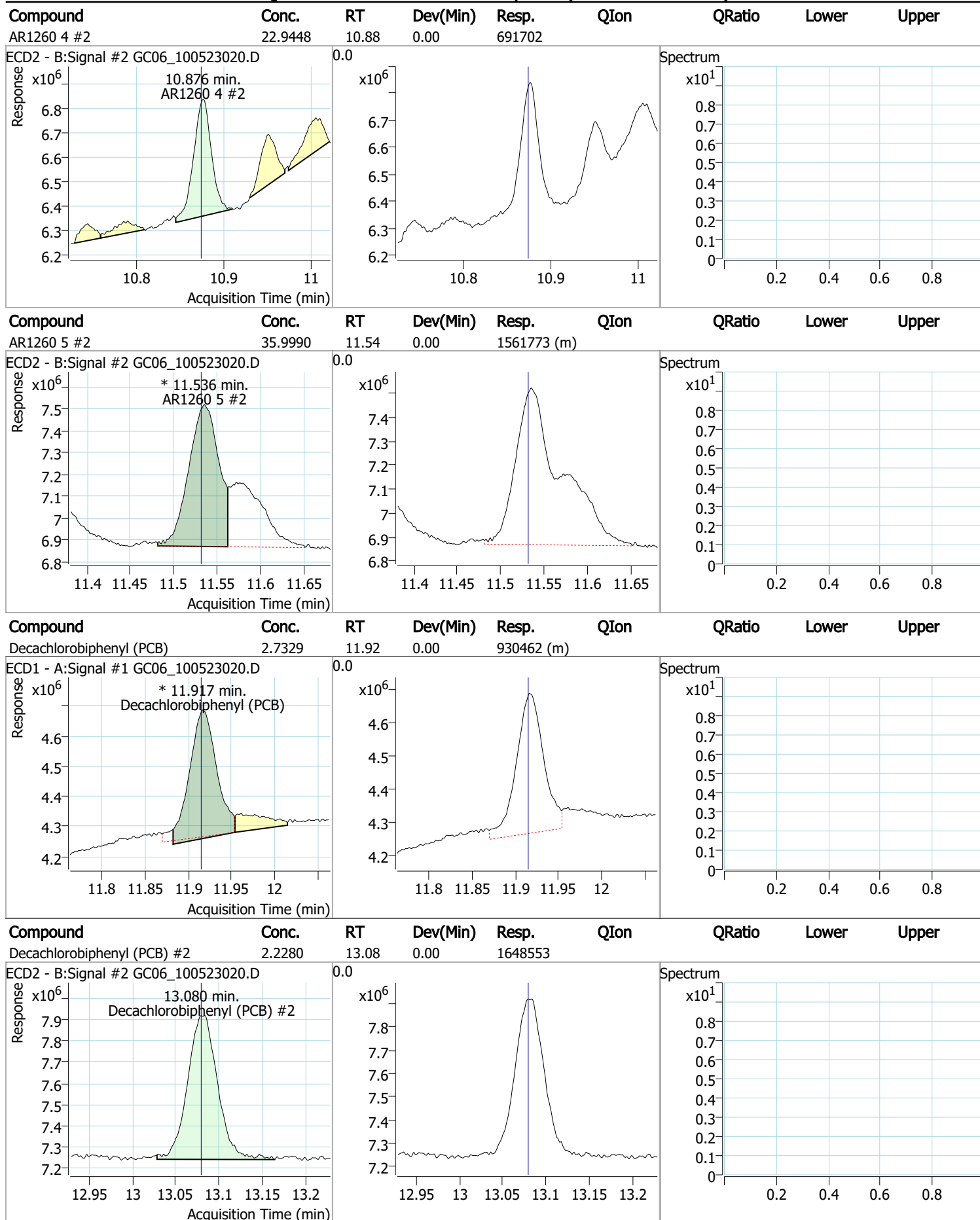
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

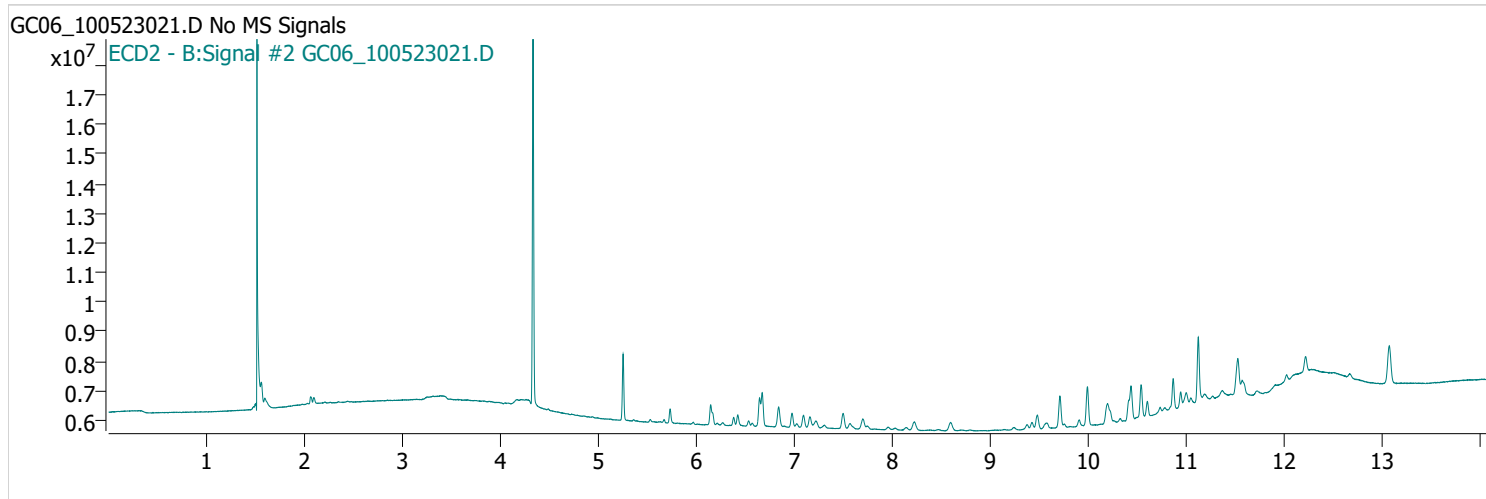
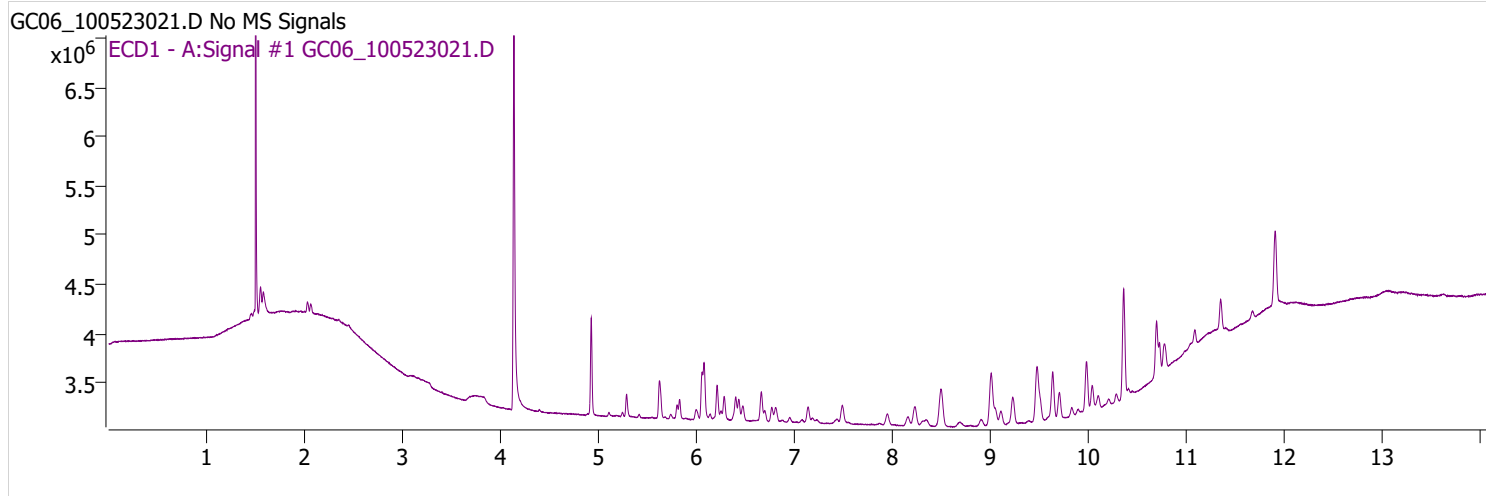


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_100523021.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 2:01:44 PM
Sample Name	ICAL, S18456	Instrument	SVOA-GC06
Vial	12	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	50 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:25:48 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.141	0.0	4709006.89 6	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.336	0.0	11400490.6 46	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.931	0.0	1123511.05 7	4.4212	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 22.11%	*	
S TCMX (PCB) #2	5.256	0.0	2356514.97 6	4.0330	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.16%	*	
S Decachlorobiphenyl (PCB)	11.916	0.0	1653444.58 5	5.0809	ng/ml	m 0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 25.40%	*	
S Decachlorobiphenyl (PCB) #2	13.082	0.0	3059760.55 5	4.2584	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 21.29%	*	

Target Compounds

QValue

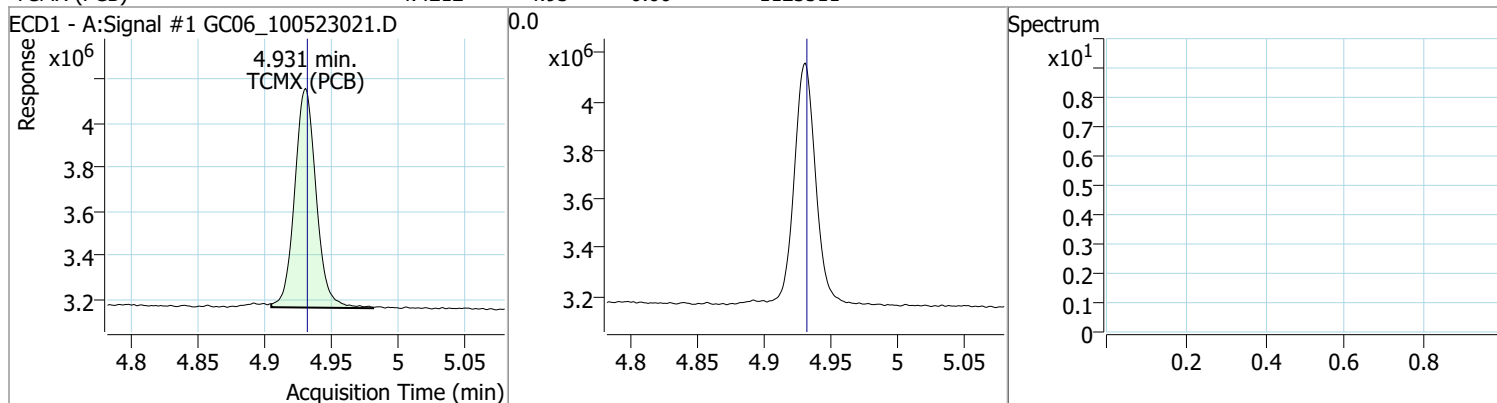
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.293	0.0	314244.013	59.1169	ng/ml	m 100
T AR1016 2	5.627	0.0	662052.393	59.7362	ng/ml	100
T AR1016 1 #2	5.736	0.0	589107.017	51.8486	ng/ml	100
T AR1016 3	6.083	0.0	865952.756	60.8772	ng/ml	m 100
T AR1016 2 #2	6.151	0.0	1359614.79 2	52.4693	ng/ml	100
T AR1016 4	6.216	0.0	509653.653	59.2065	ng/ml	100
T AR1016 5	6.668	0.0	508589.823	57.9630	ng/ml	100
T AR1016 3 #2	6.677	0.0	1761344.60 3	56.7474	ng/ml	100
T AR1016 4 #2	6.845	0.0	1224093.75 6	56.3346	ng/ml	100
T AR1016 5 #2	7.504	0.0	997580.288	56.0676	ng/ml	100
T AR1260 1	8.501	0.0	1048230.85 6	64.6912	ng/ml	100
T AR1260 2	9.016	0.0	1577300.20 6	55.9583	ng/ml	100
T AR1260 3	9.484	0.0	1588050.05 9	55.2717	ng/ml	100
T AR1260 1 #2	9.718	0.0	1850518.87 2	57.4538	ng/ml	100
T AR1260 4	9.988	0.0	935834.689	65.2099	ng/ml	100
T AR1260 2 #2	9.998	0.0	2301725.74 7	59.3994	ng/ml	100
T AR1260 3 #2	10.443	0.0	2715607.80 5	54.0763	ng/ml	100
T AR1260 5	10.705	0.0	1390856.58 1	59.8978	ng/ml	m 100
T AR1260 4 #2	10.874	0.0	1543292.80 0	52.7174	ng/ml	m 100
T AR1260 5 #2	11.534	0.0	2828980.18 9	67.1497	ng/ml	100

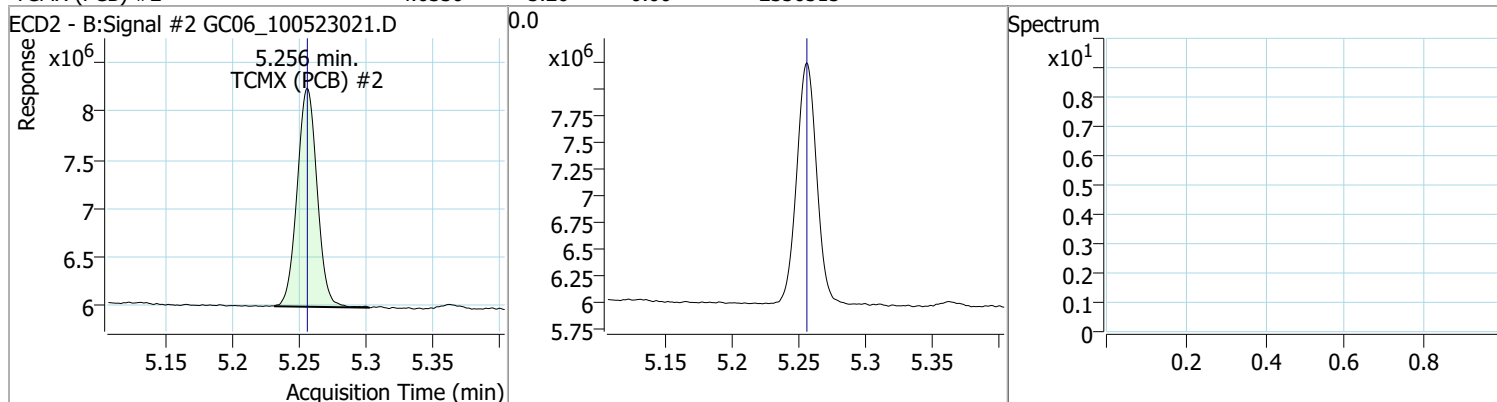
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

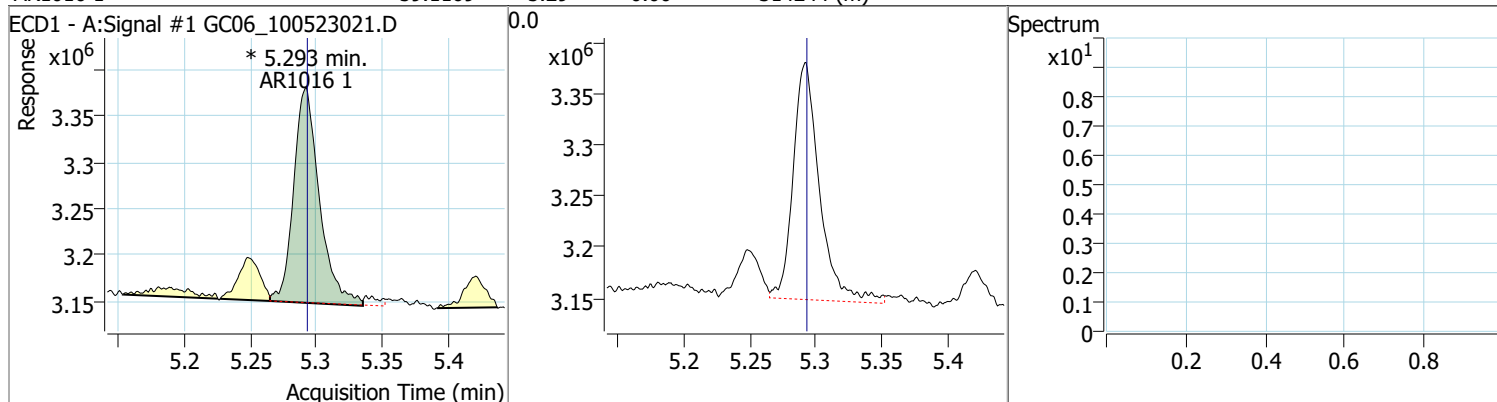
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	4.4212	4.93	0.00	1123511				



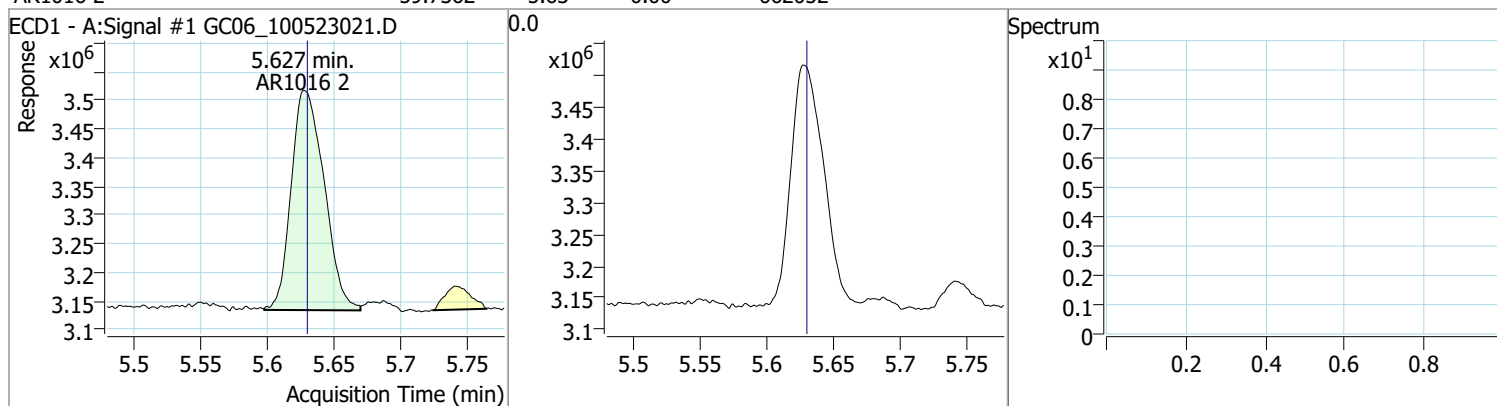
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	4.0330	5.26	0.00	2356515				



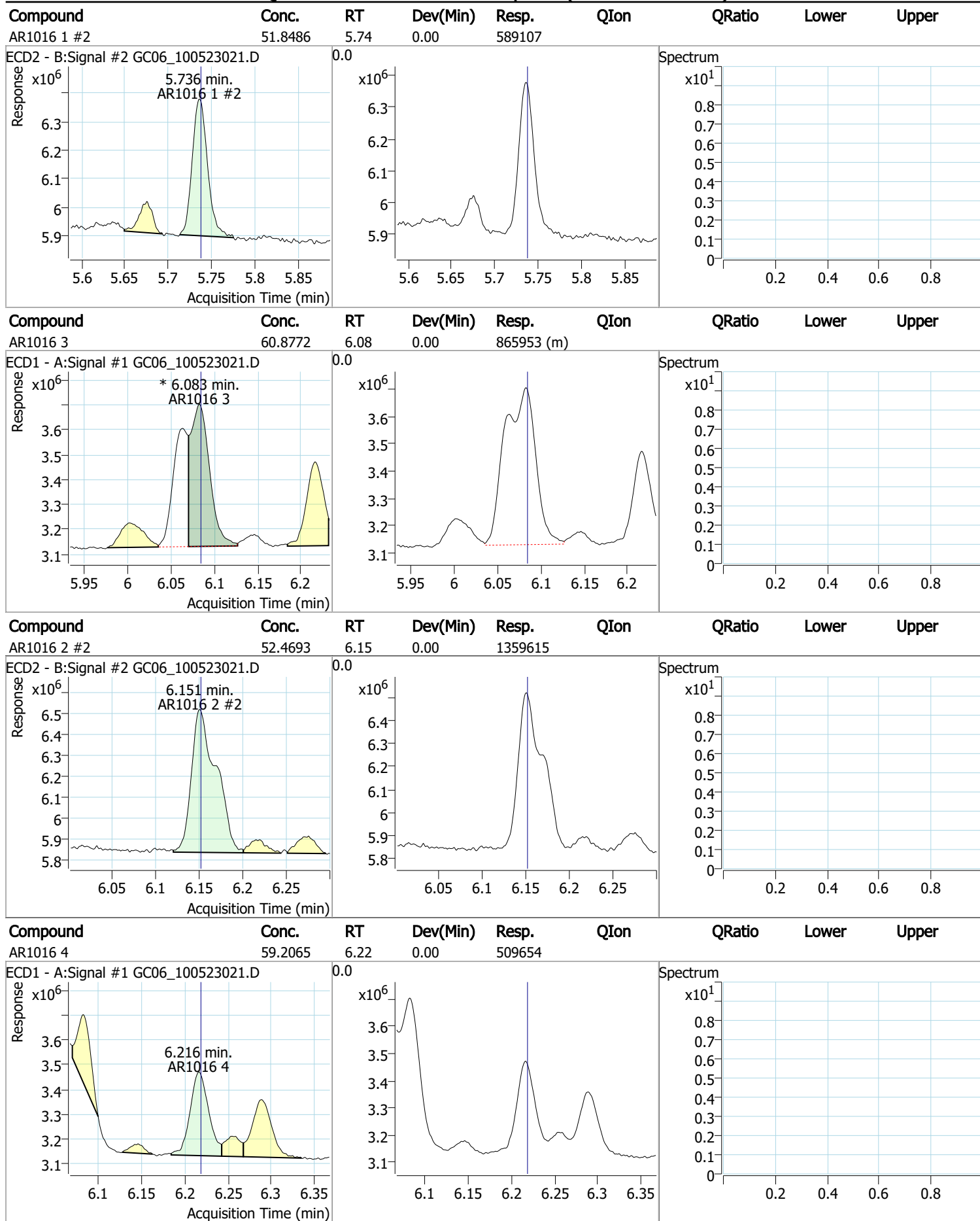
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	59.1169	5.29	0.00	314244 (m)				



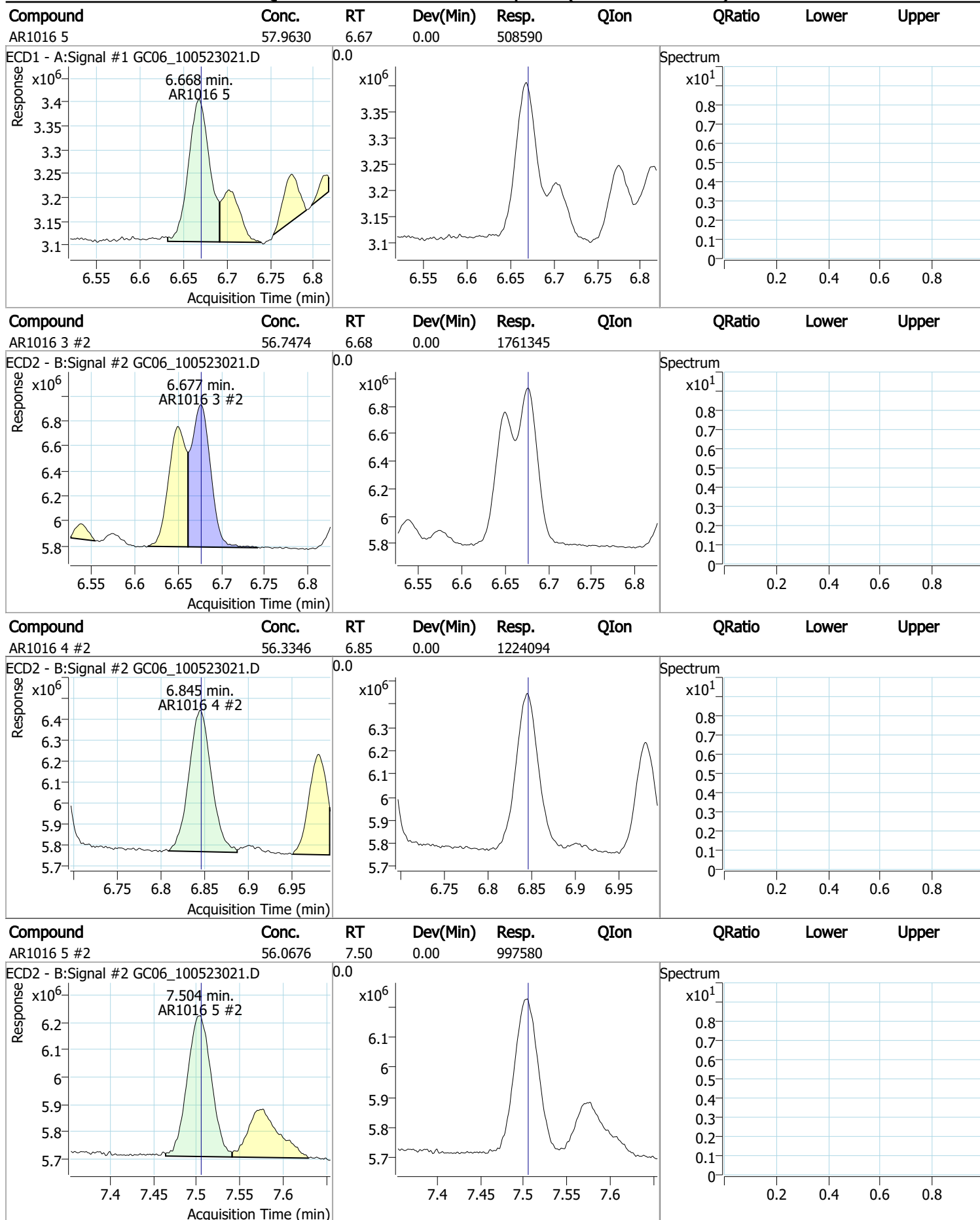
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	59.7362	5.63	0.00	662052				



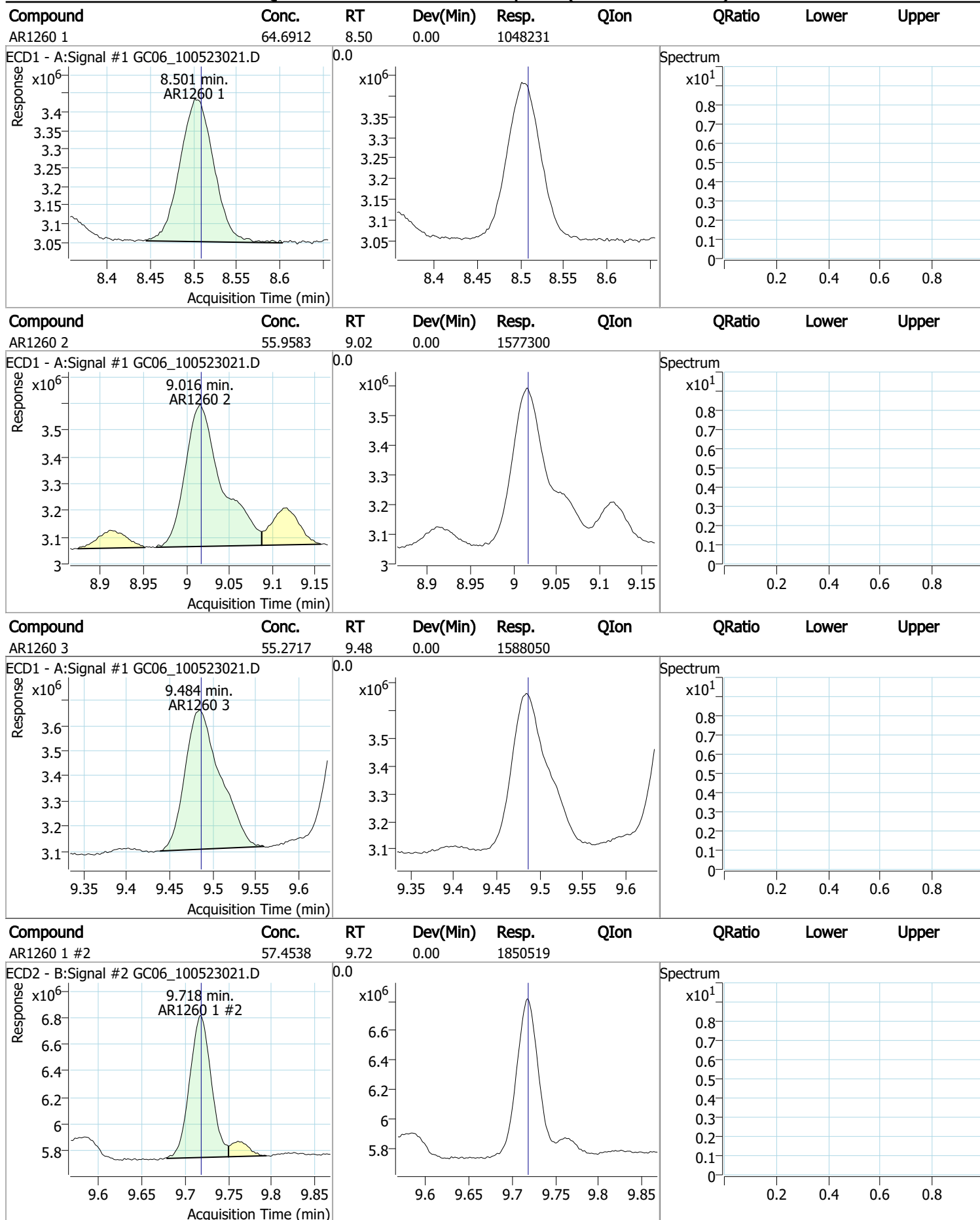
Quantitation Results Report (Not Reviewed)



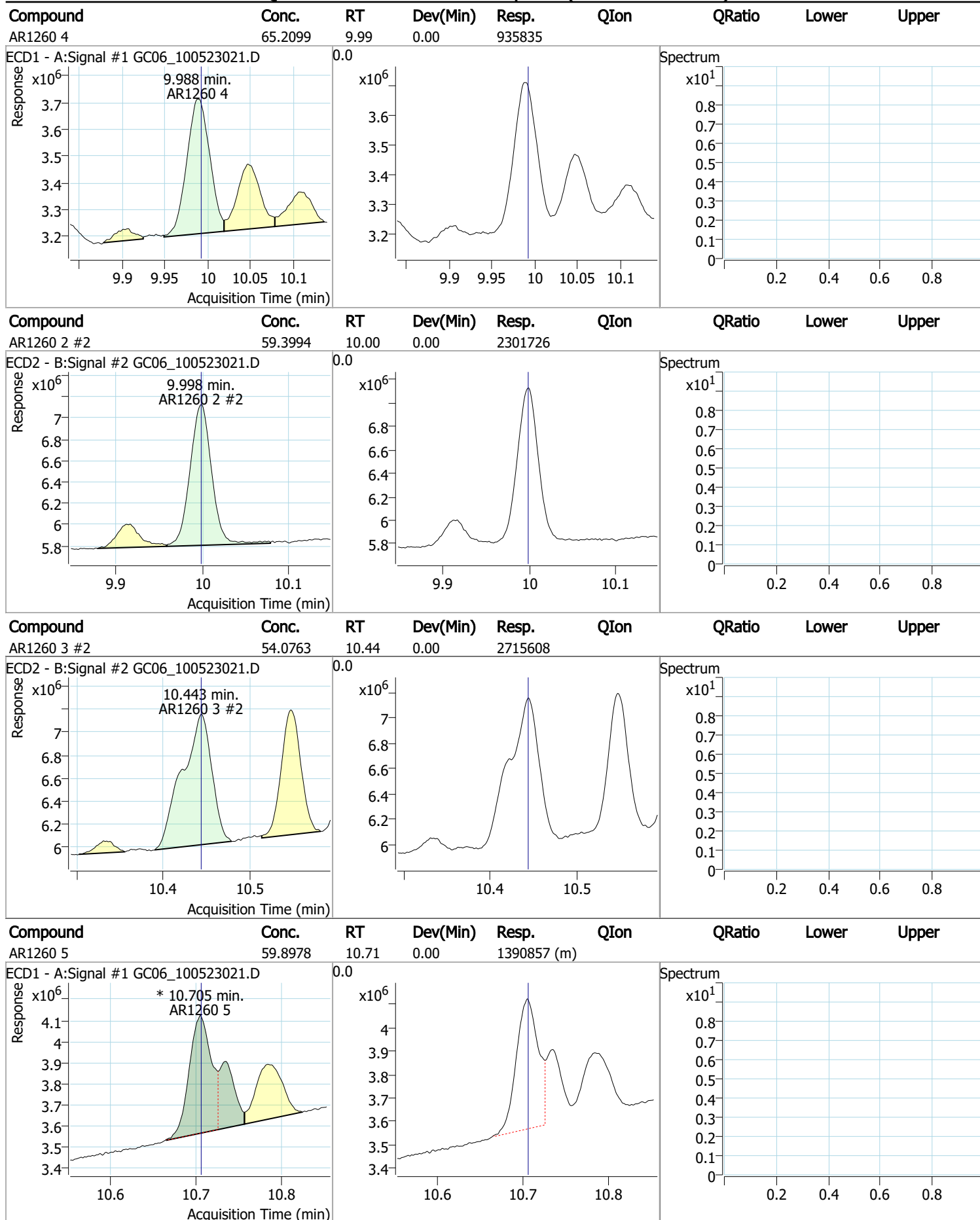
Quantitation Results Report (Not Reviewed)



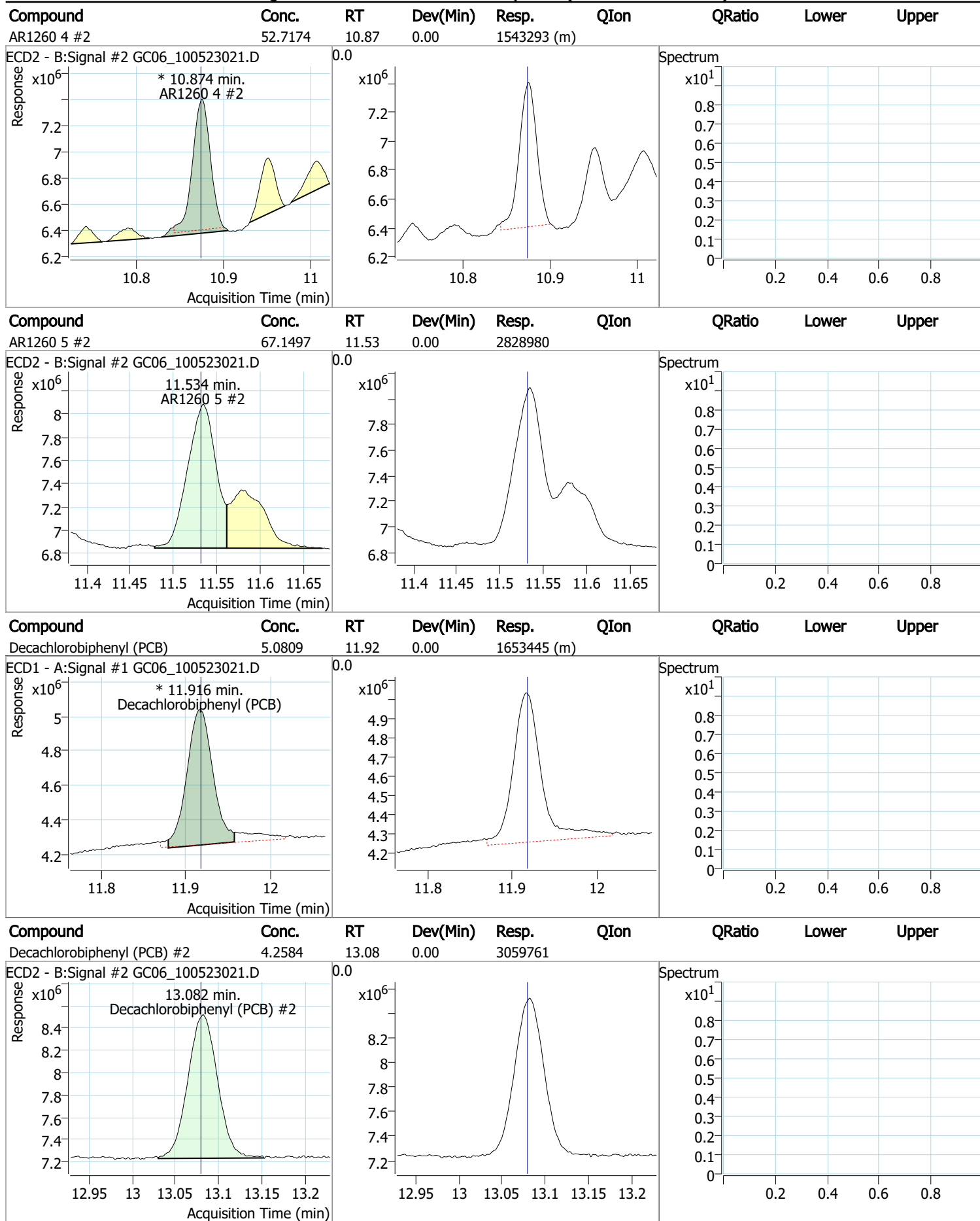
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

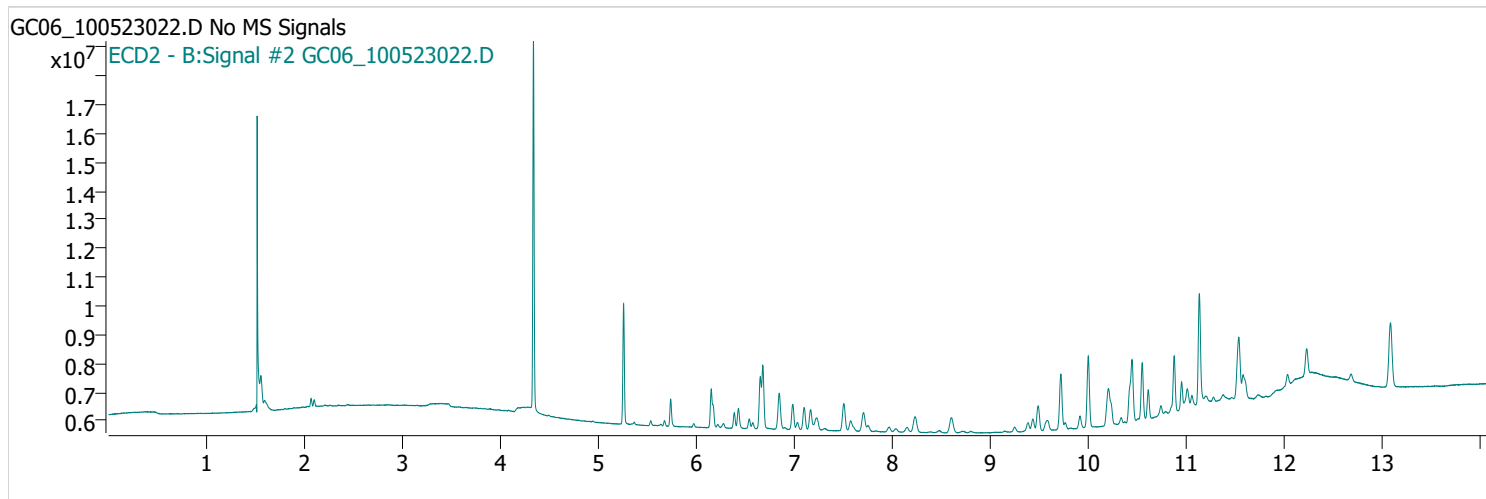
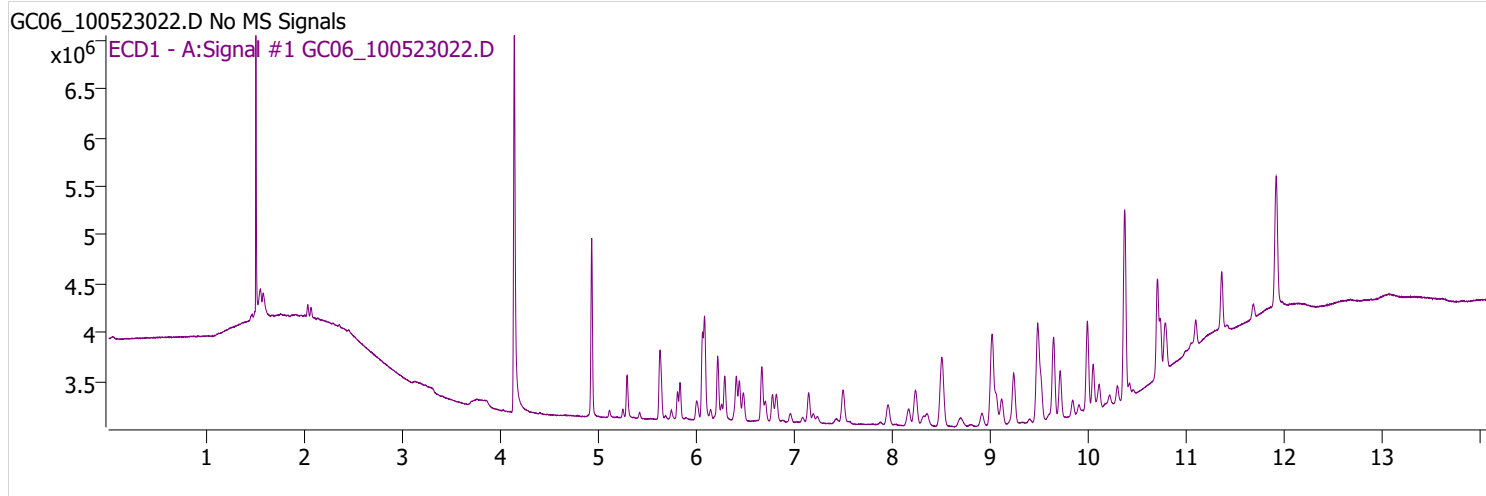


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_100523022.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 2:19:56 PM
Sample Name	ICAL, S18457	Instrument	SVOA-GC06
Vial	13	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	100 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:25:48 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.140	0.0	4814959.18 2	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.336	0.0	11790740.2 67	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.930	0.0	2082653.18 4	8.0152	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.08%	*	
S TCMX (PCB) #2	5.256	0.0	4461486.46 8	7.3827	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 36.91%	*	
S Decachlorobiphenyl (PCB)	11.915	0.0	2676264.10 7	8.0429	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.21%	*	
S Decachlorobiphenyl (PCB) #2	13.082	0.0	5179748.50 2	6.9702	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 34.85%	*	

Target Compounds

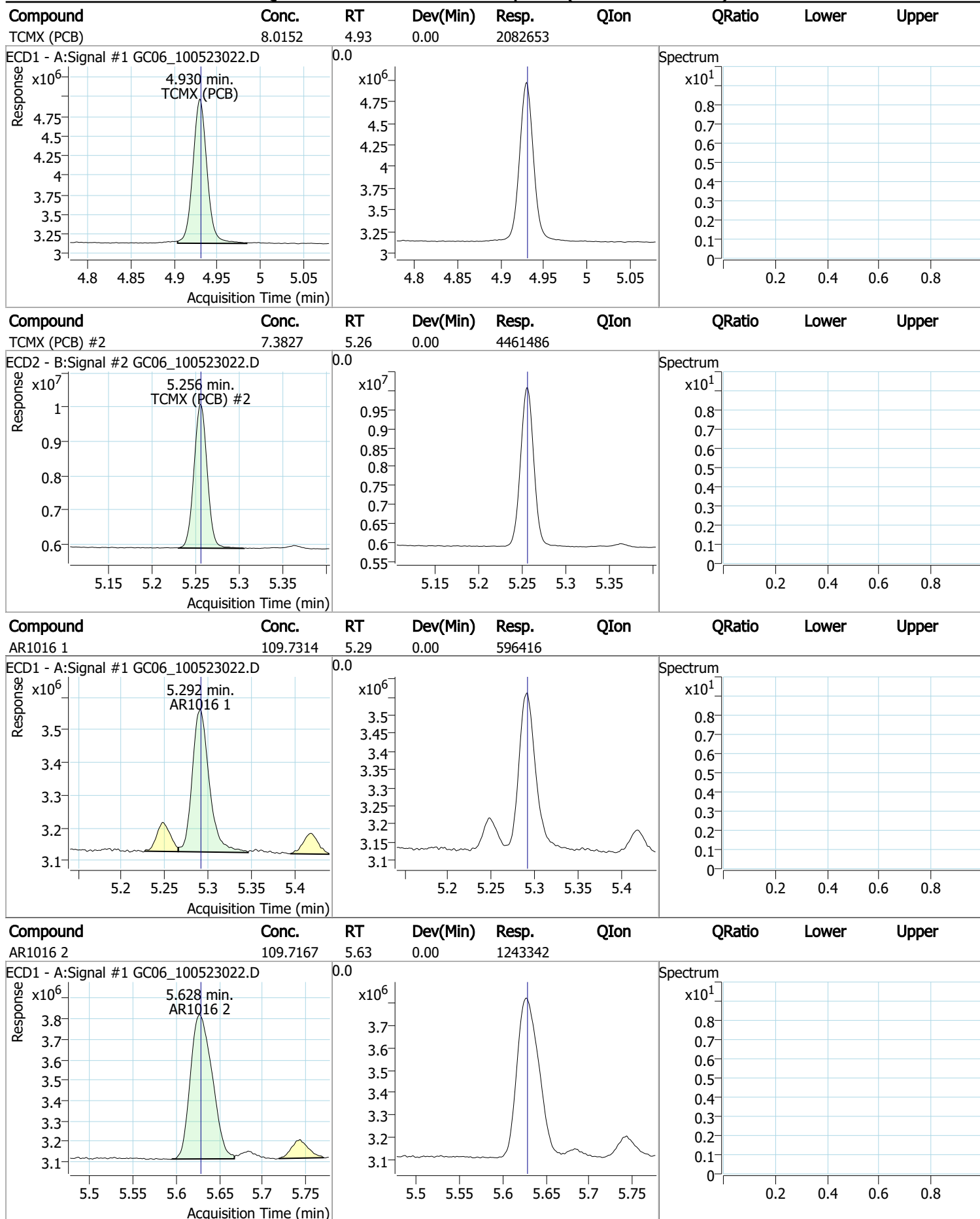
GC06_100523022.D

Quantitation Results Report (Not Reviewed)

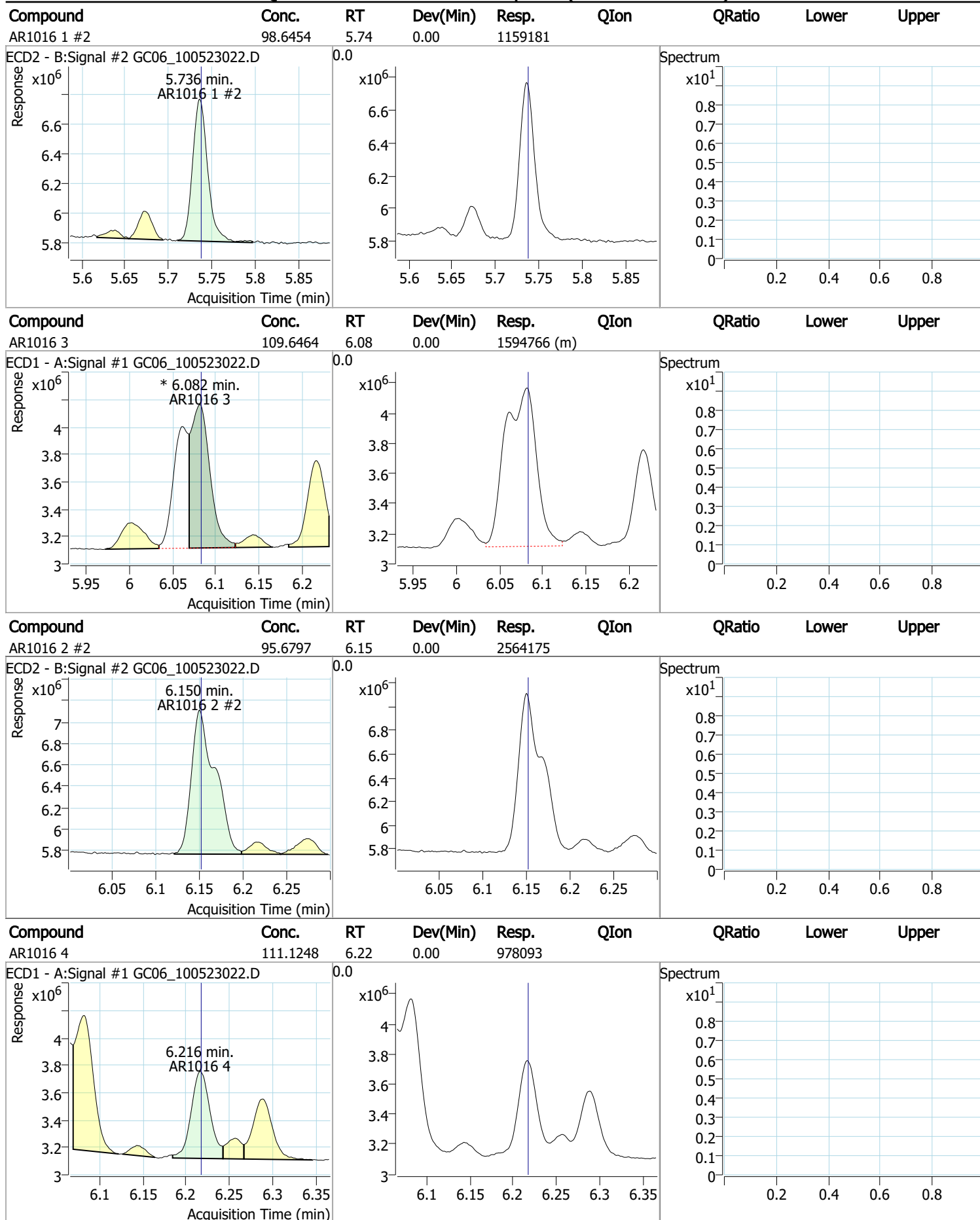
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.292	0.0	596416.165	109.7314	ng/ml	100
T AR1016 2	5.628	0.0	1243341.689	109.7167	ng/ml	100
T AR1016 1 #2	5.736	0.0	1159181.306	98.6454	ng/ml	100
T AR1016 3	6.082	0.0	1594765.970	109.6464	ng/ml m	100
T AR1016 2 #2	6.150	0.0	2564175.053	95.6797	ng/ml	100
T AR1016 4	6.216	0.0	978092.675	111.1248	ng/ml	100
T AR1016 5	6.666	0.0	924297.146	103.0224	ng/ml	100
T AR1016 3 #2	6.676	0.0	3365044.397	104.8274	ng/ml	100
T AR1016 4 #2	6.843	0.0	2328021.952	103.5930	ng/ml	100
T AR1016 5 #2	7.503	0.0	1914524.271	104.0417	ng/ml	100
T AR1260 1	8.503	0.0	1952033.049	117.8181	ng/ml	100
T AR1260 2	9.016	0.0	2894377.061	100.4250	ng/ml	100
T AR1260 3	9.482	0.0	2943100.429	100.1799	ng/ml	100
T AR1260 1 #2	9.718	0.0	3528116.103	105.9133	ng/ml	100
T AR1260 4	9.988	0.0	1692988.035	115.3732	ng/ml	100
T AR1260 2 #2	9.998	0.0	4182604.981	104.3656	ng/ml	100
T AR1260 3 #2	10.443	0.0	5175350.858	99.6466	ng/ml	100
T AR1260 5	10.703	0.0	2546813.449	107.2660	ng/ml m	100
T AR1260 4 #2	10.874	0.0	3038300.400	100.3504	ng/ml m	100
T AR1260 5 #2	11.533	0.0	4803246.562	110.2380	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

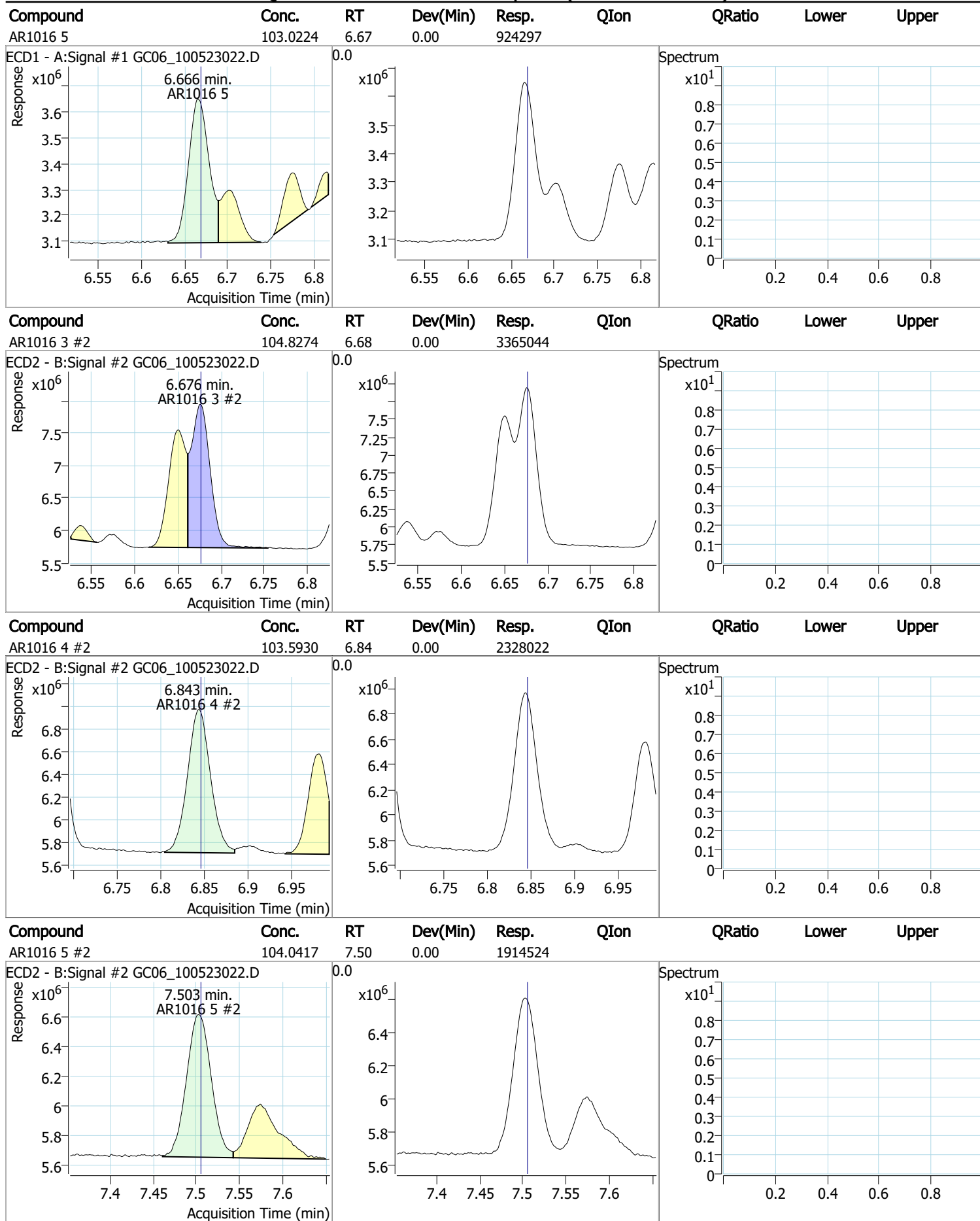
Quantitation Results Report (Not Reviewed)



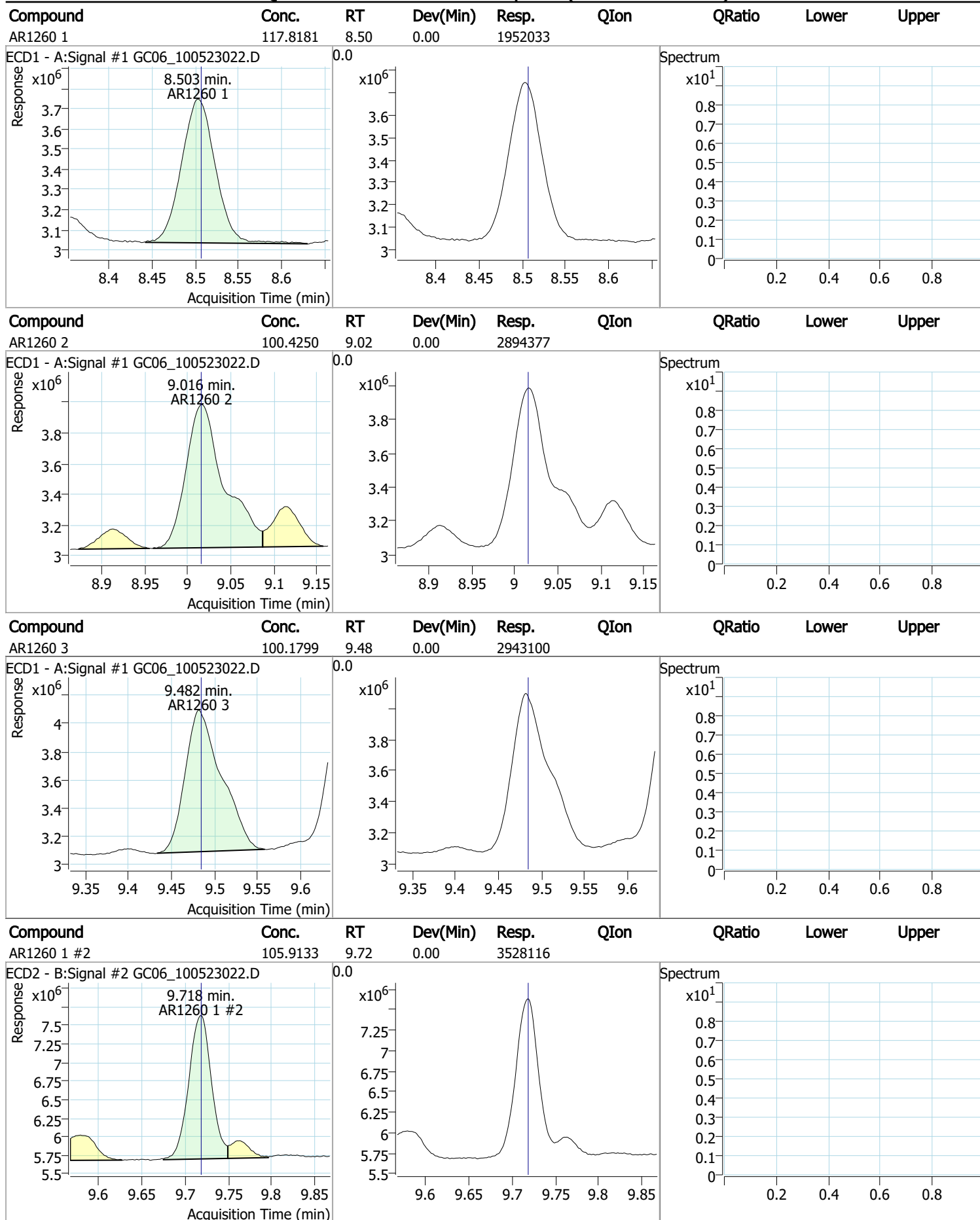
Quantitation Results Report (Not Reviewed)



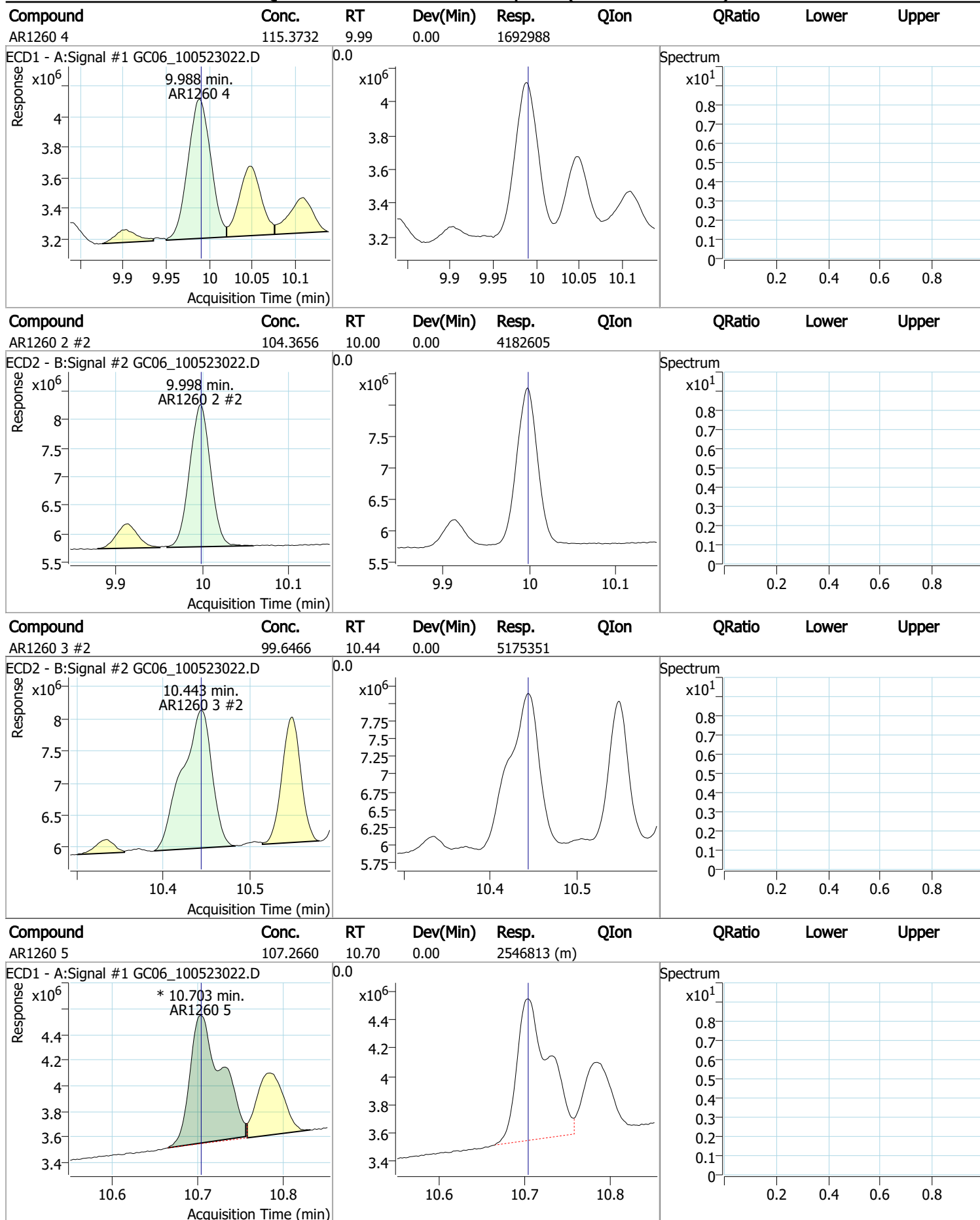
Quantitation Results Report (Not Reviewed)



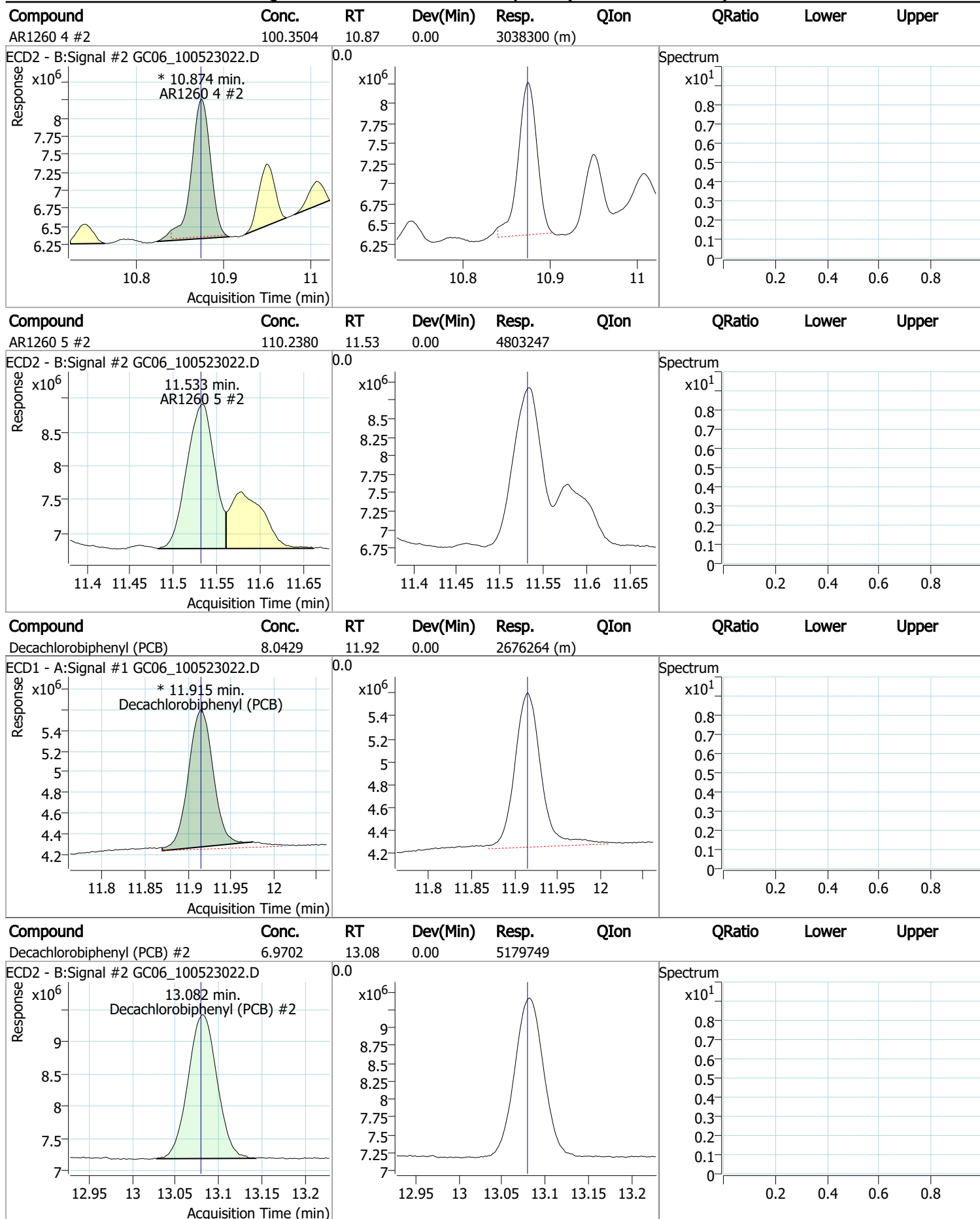
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

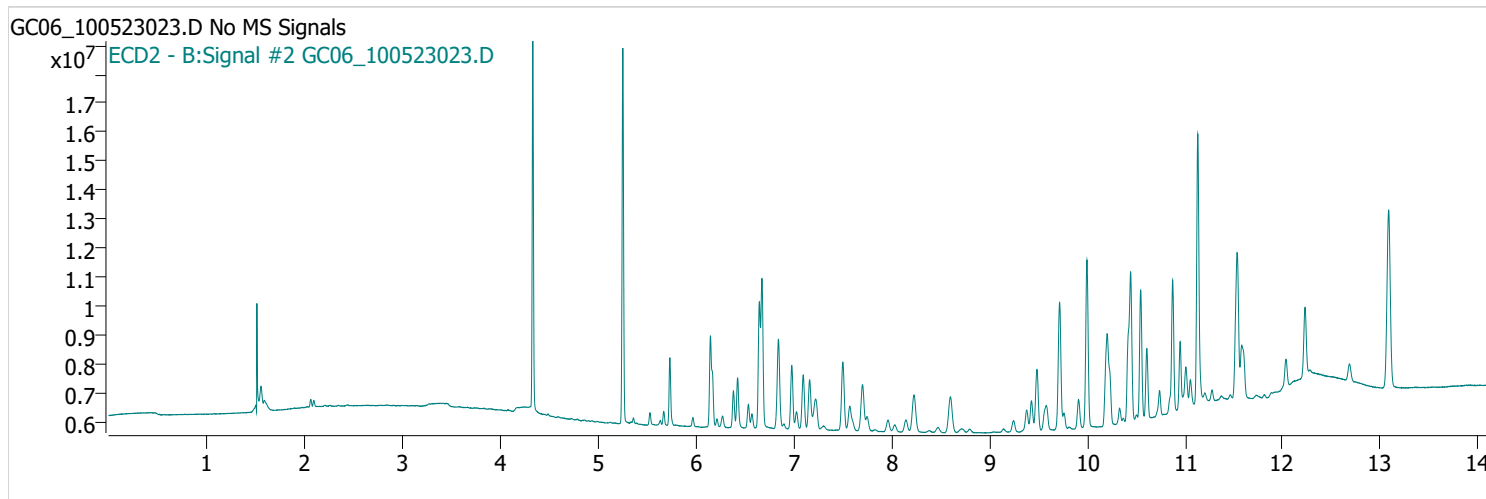
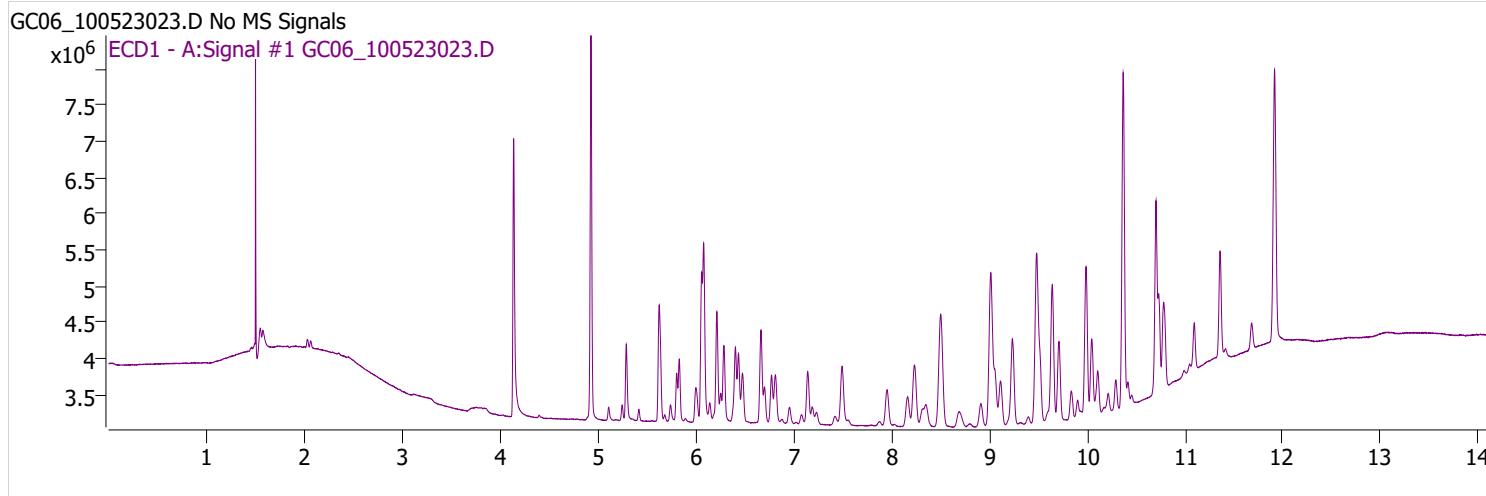


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_100523023.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 2:38:05 PM
Sample Name	ICAL, S18458	Instrument	SVOA-GC06
Vial	14	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	250 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:25:48 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.140	0.0	4803224.64 3	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.336	0.0	11691961.7 17	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.930	0.0	6136569.76 8	23.6746	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 118.37%		
S TCMX (PCB) #2	5.256	0.0	13767944.6 49	22.9753	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 114.88%		
S Decachlorobiphenyl (PCB)	11.916	0.0	7600608.18 2	22.8978	ng/ml	0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 114.49%		
S Decachlorobiphenyl (PCB) #2	13.082	0.0	14571072.0 21	19.7735	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 98.87%		

Target Compounds

QValue

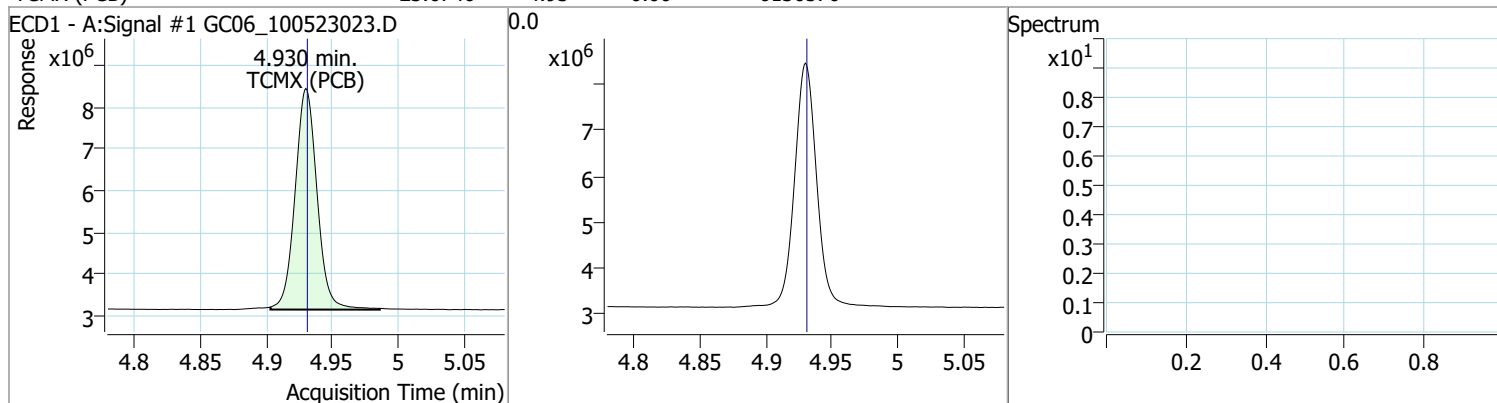
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.291	0.0	1438047.96 2	265.2250	ng/ml	100
T AR1016 2	5.628	0.0	2838064.85 2	251.0524	ng/ml	100
T AR1016 1 #2	5.736	0.0	2858703.63 3	245.3287	ng/ml	100
T AR1016 3	6.082	0.0	3658255.99 6	252.1338	ng/ml m	100
T AR1016 2 #2	6.151	0.0	6173573.02 1	232.3071	ng/ml	100
T AR1016 4	6.217	0.0	2257402.93 0	257.0985	ng/ml	100
T AR1016 5	6.668	0.0	2163598.94 2	241.7444	ng/ml	100
T AR1016 3 #2	6.678	0.0	8051412.02 3	252.9356	ng/ml	100
T AR1016 4 #2	6.845	0.0	5666015.80 1	254.2581	ng/ml	100
T AR1016 5 #2	7.504	0.0	4572869.91 4	250.6045	ng/ml	100
T AR1260 1	8.504	0.0	4415922.32 8	267.1813	ng/ml	100
T AR1260 2	9.016	0.0	6719378.40 1	233.7090	ng/ml	100
T AR1260 3	9.484	0.0	6781626.18 0	231.4030	ng/ml	100
T AR1260 1 #2	9.719	0.0	8390285.91 6	254.0026	ng/ml	100
T AR1260 4	9.989	0.0	3947902.72 1	269.6977	ng/ml	100
T AR1260 2 #2	9.998	0.0	10029273.7 31	252.3677	ng/ml	100
T AR1260 3 #2	10.445	0.0	12562575.4 88	243.9242	ng/ml	100
T AR1260 5	10.704	0.0	6348267.11 6	268.0278	ng/ml m	100
T AR1260 4 #2	10.874	0.0	7551025.35 0	251.5058	ng/ml m	100
T AR1260 5 #2	11.533	0.0	11213994.3 75	259.5437	ng/ml	100

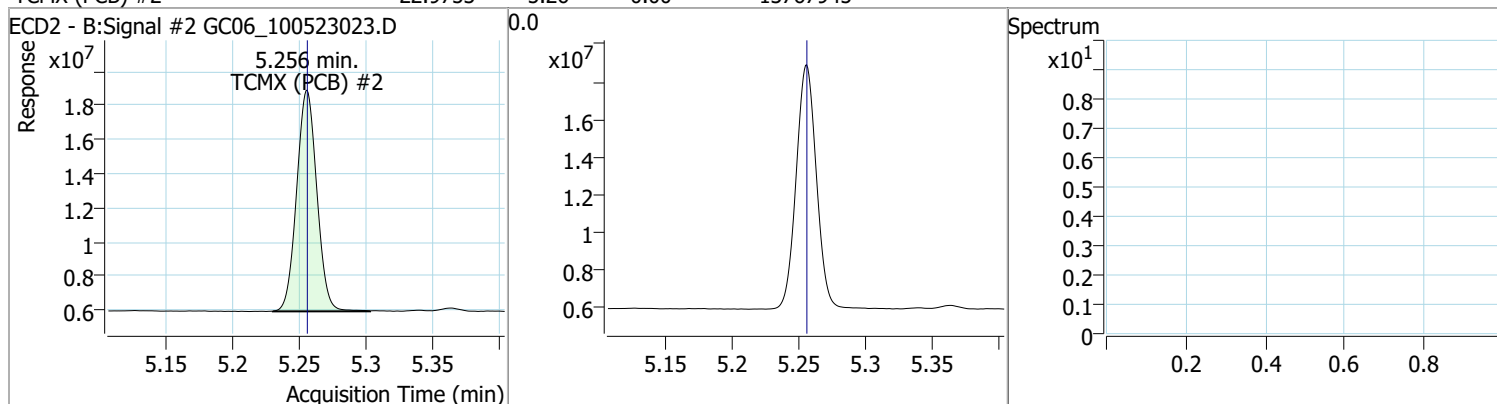
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

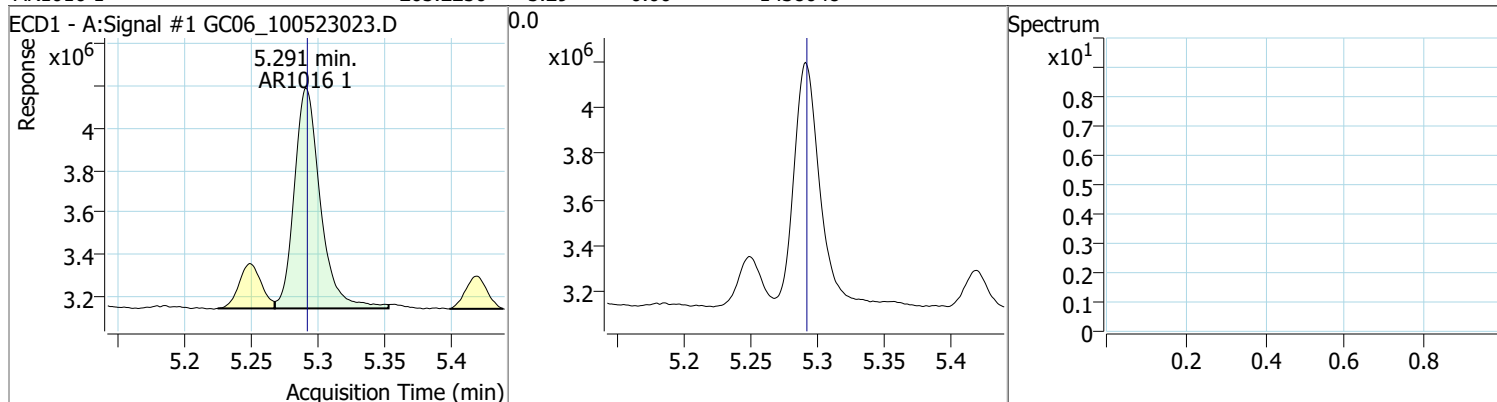
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	23.6746	4.93	0.00	6136570				



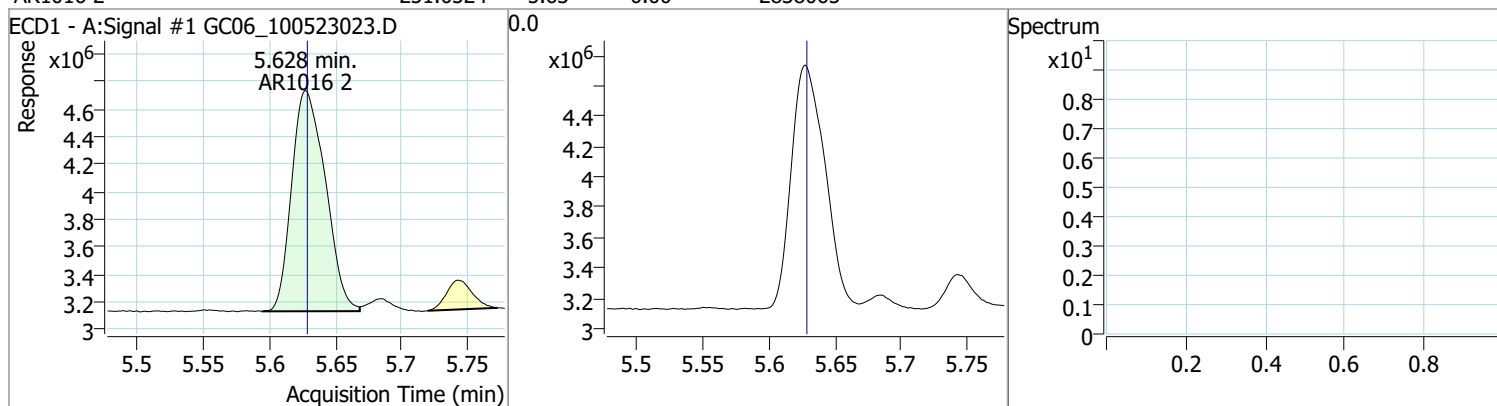
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	22.9753	5.26	0.00	13767945				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	265.2250	5.29	0.00	1438048				

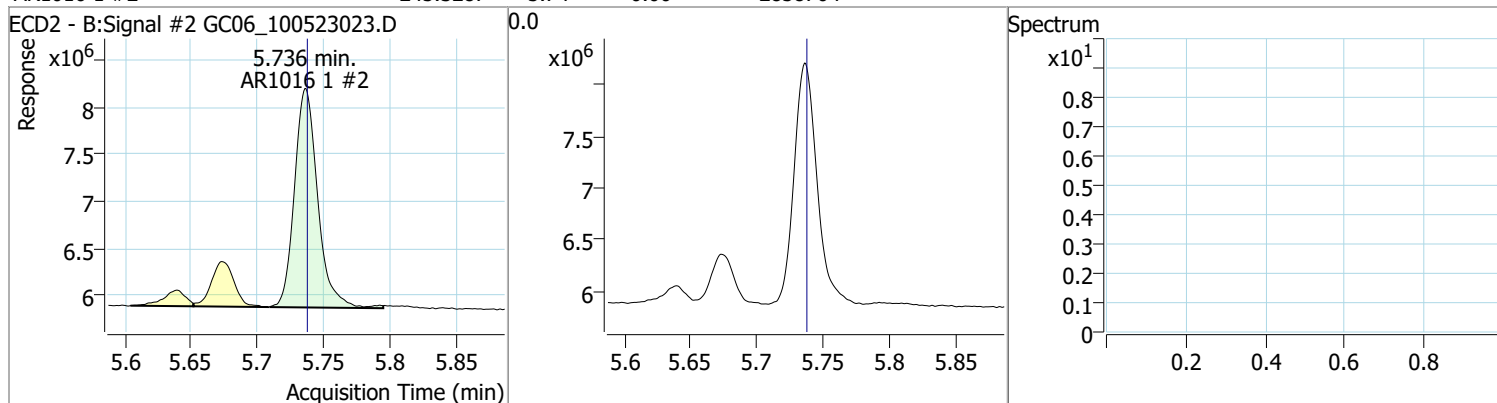


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	251.0524	5.63	0.00	2838065				

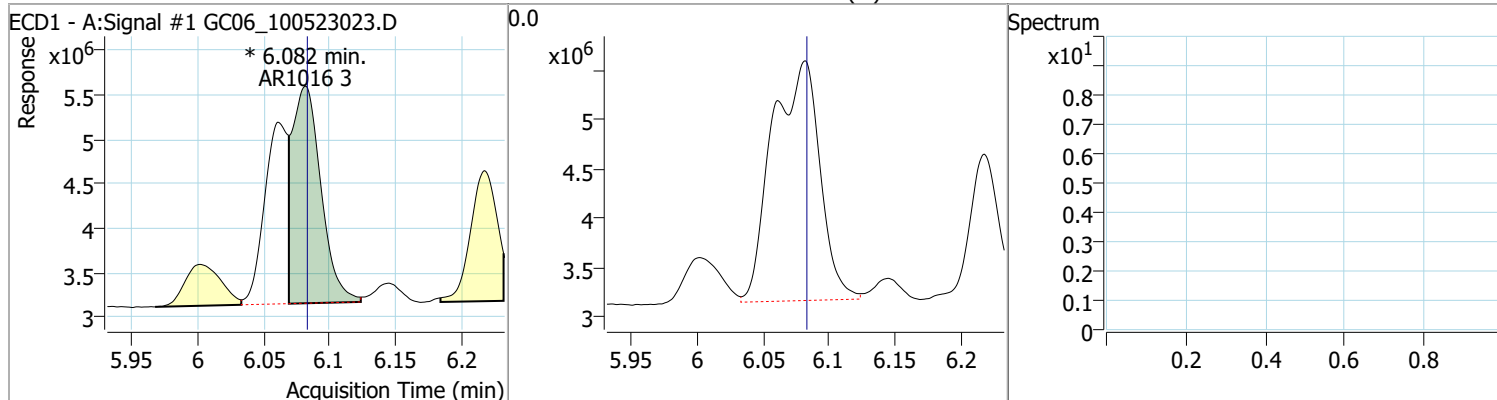


Quantitation Results Report (Not Reviewed)

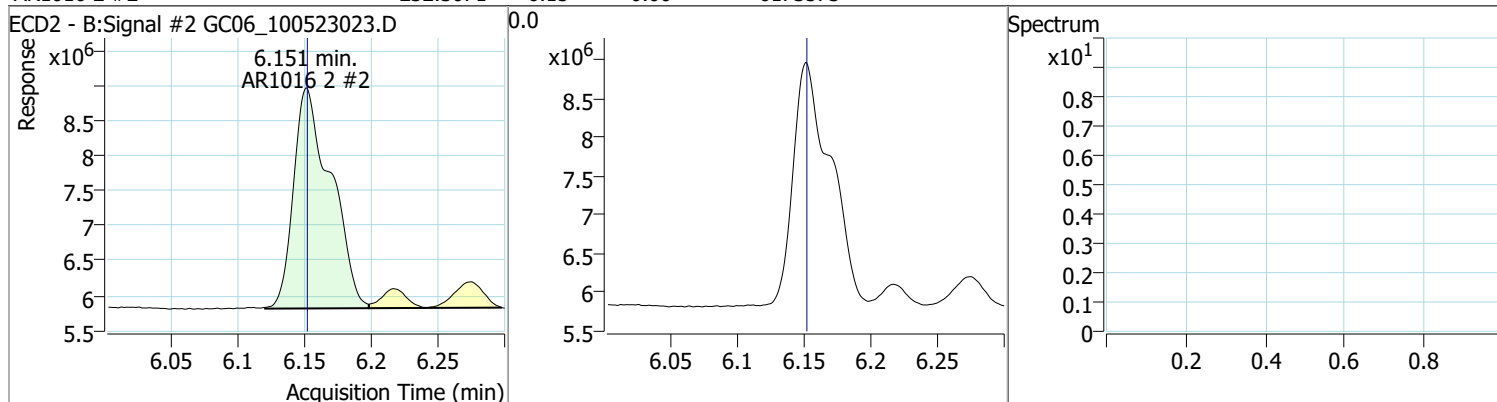
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	245.3287	5.74	0.00	2858704				



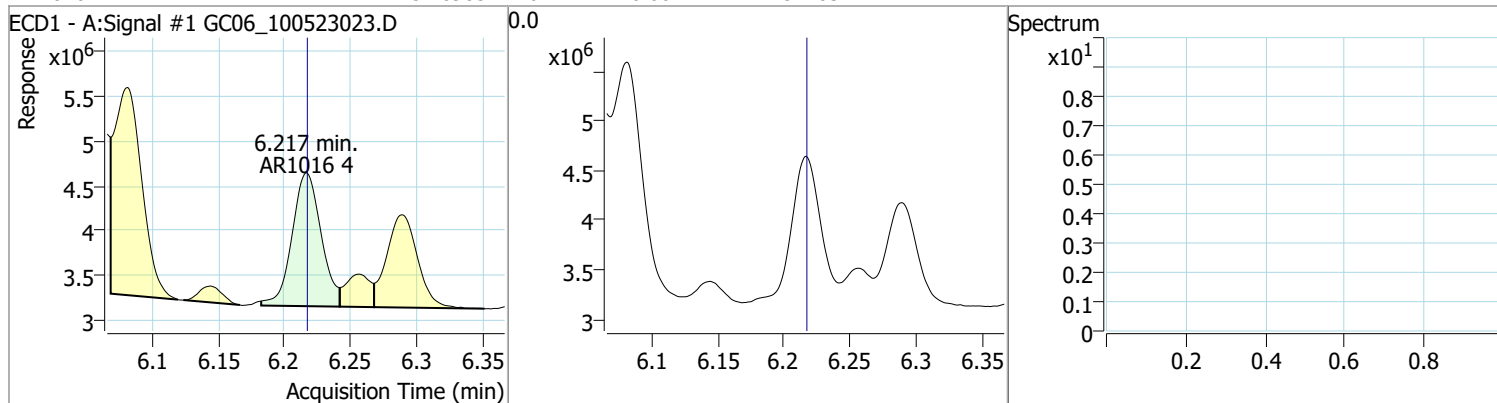
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	252.1338	6.08	0.00	3658256 (m)				



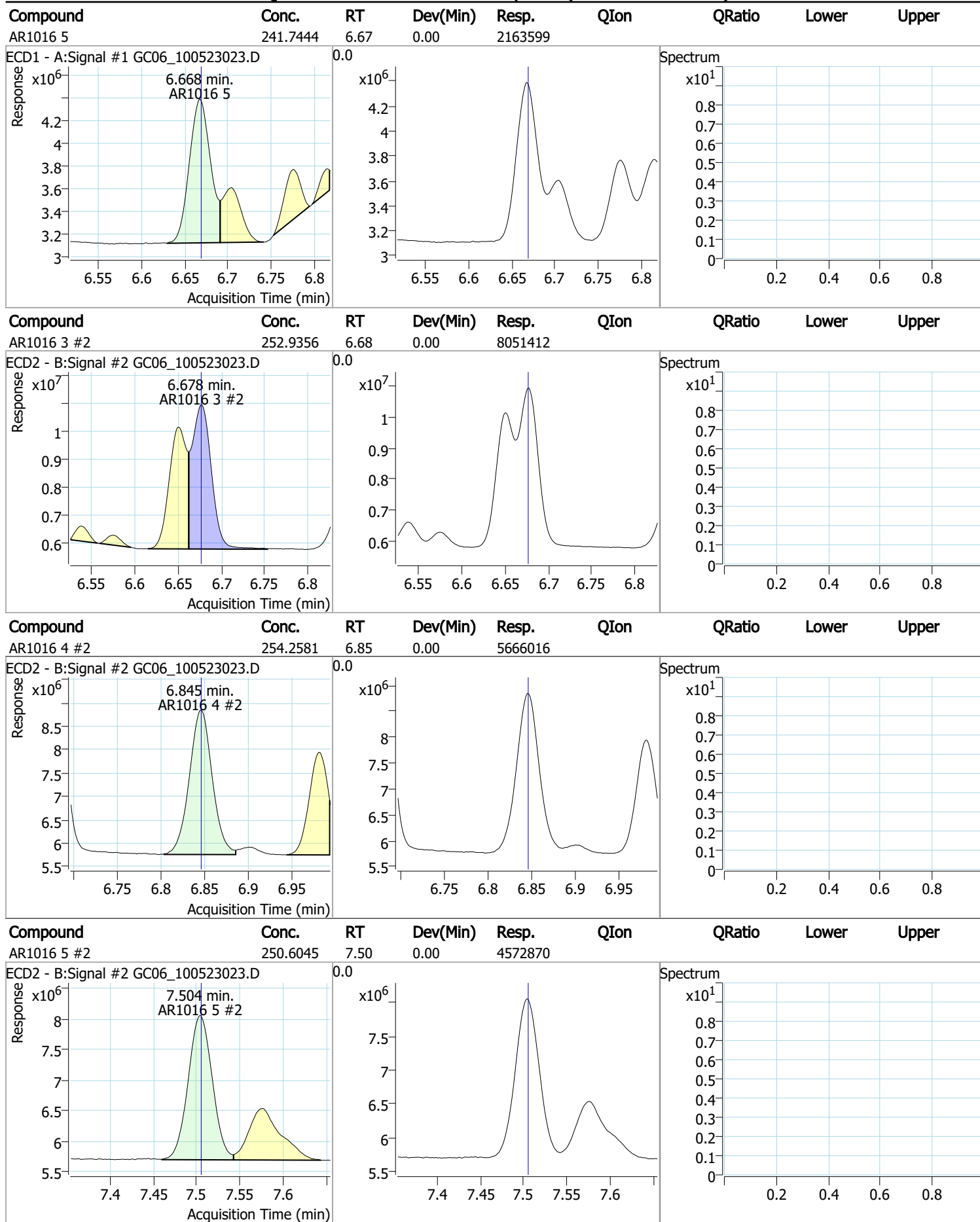
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	232.3071	6.15	0.00	6173573				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	257.0985	6.22	0.00	2257403				

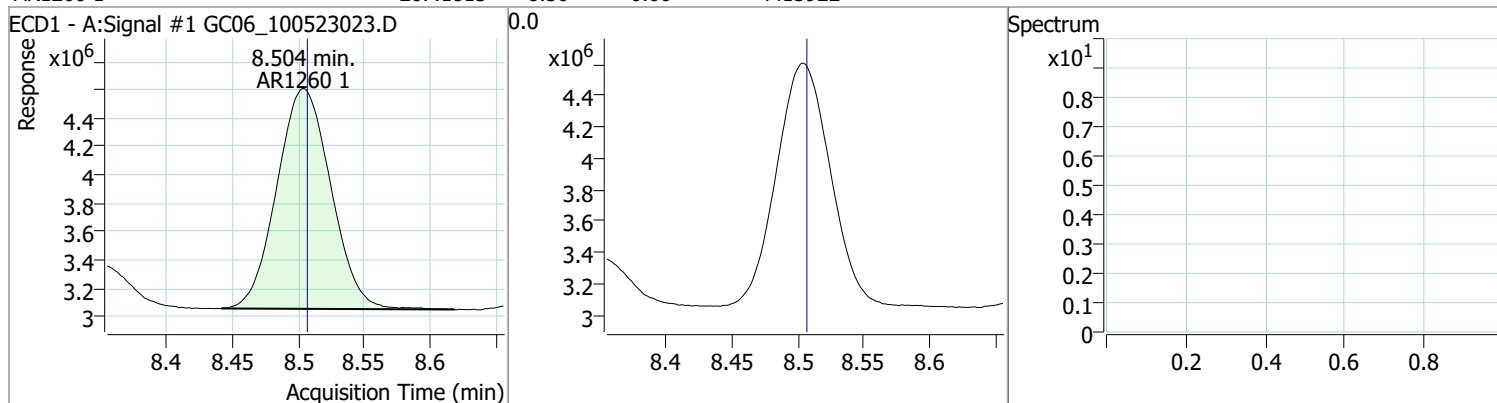


Quantitation Results Report (Not Reviewed)

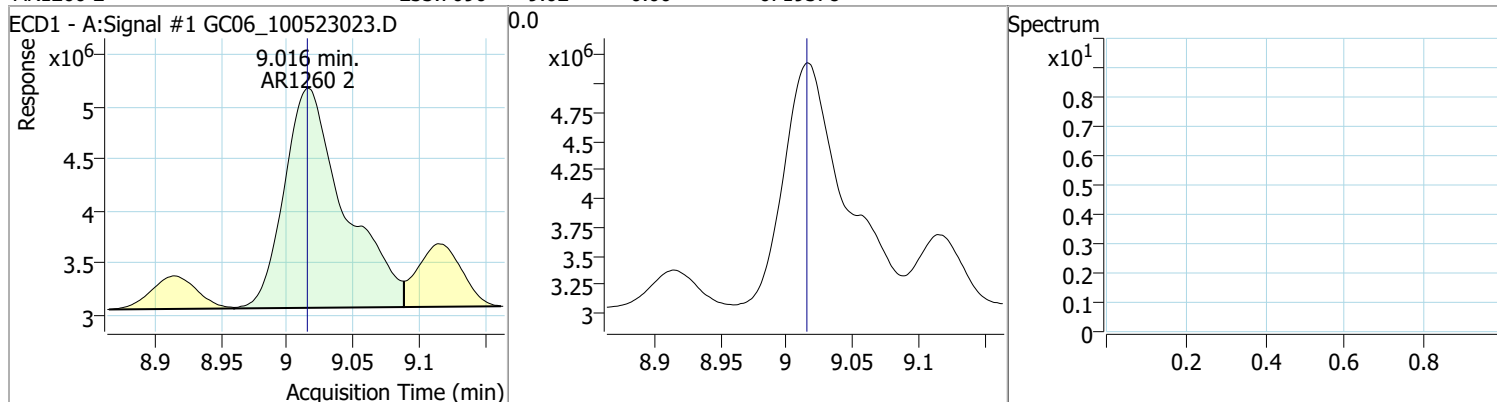


Quantitation Results Report (Not Reviewed)

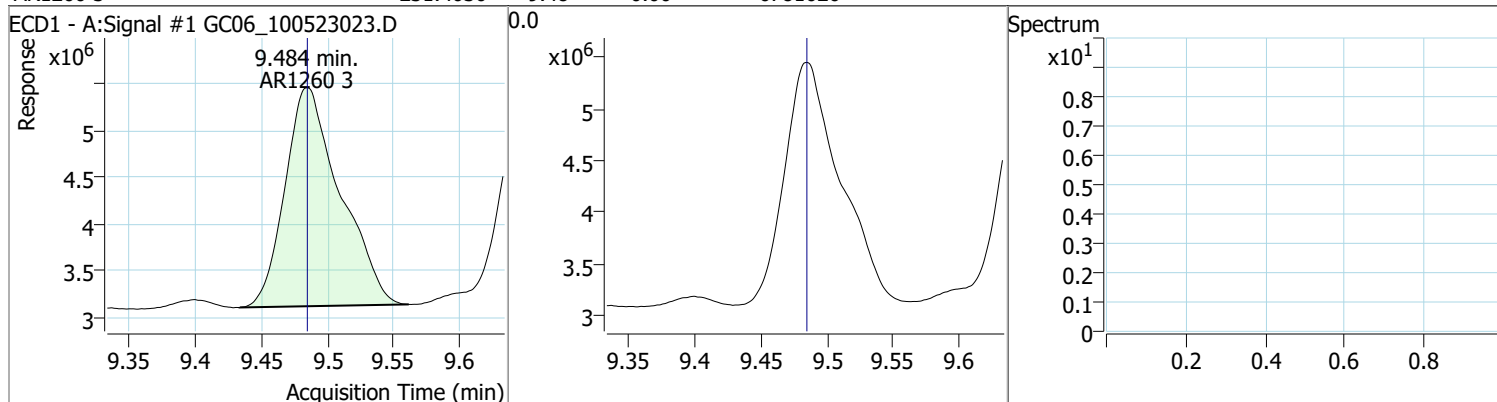
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	267.1813	8.50	0.00	4415922				



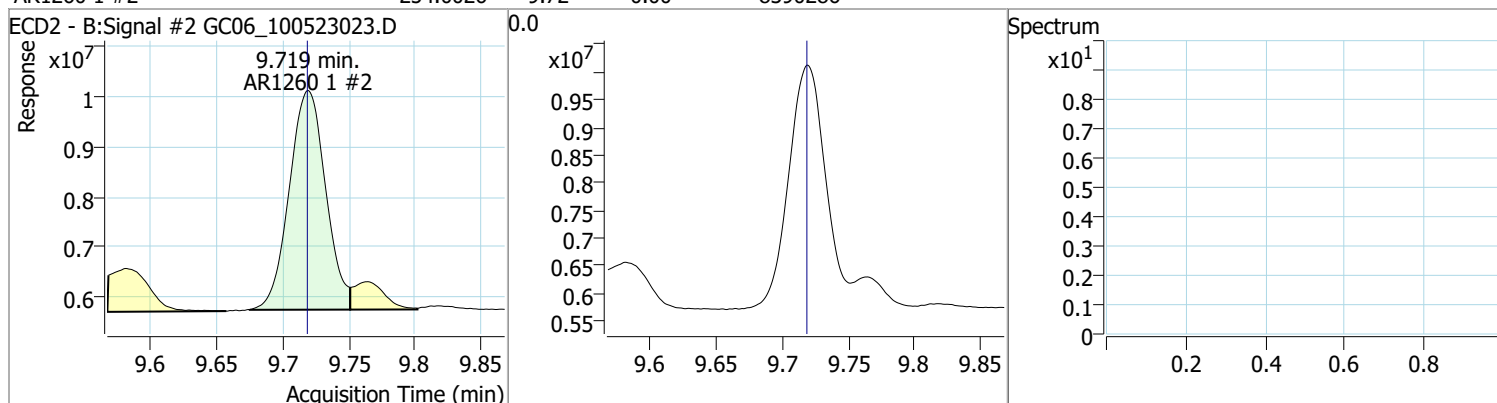
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	233.7090	9.02	0.00	6719378				



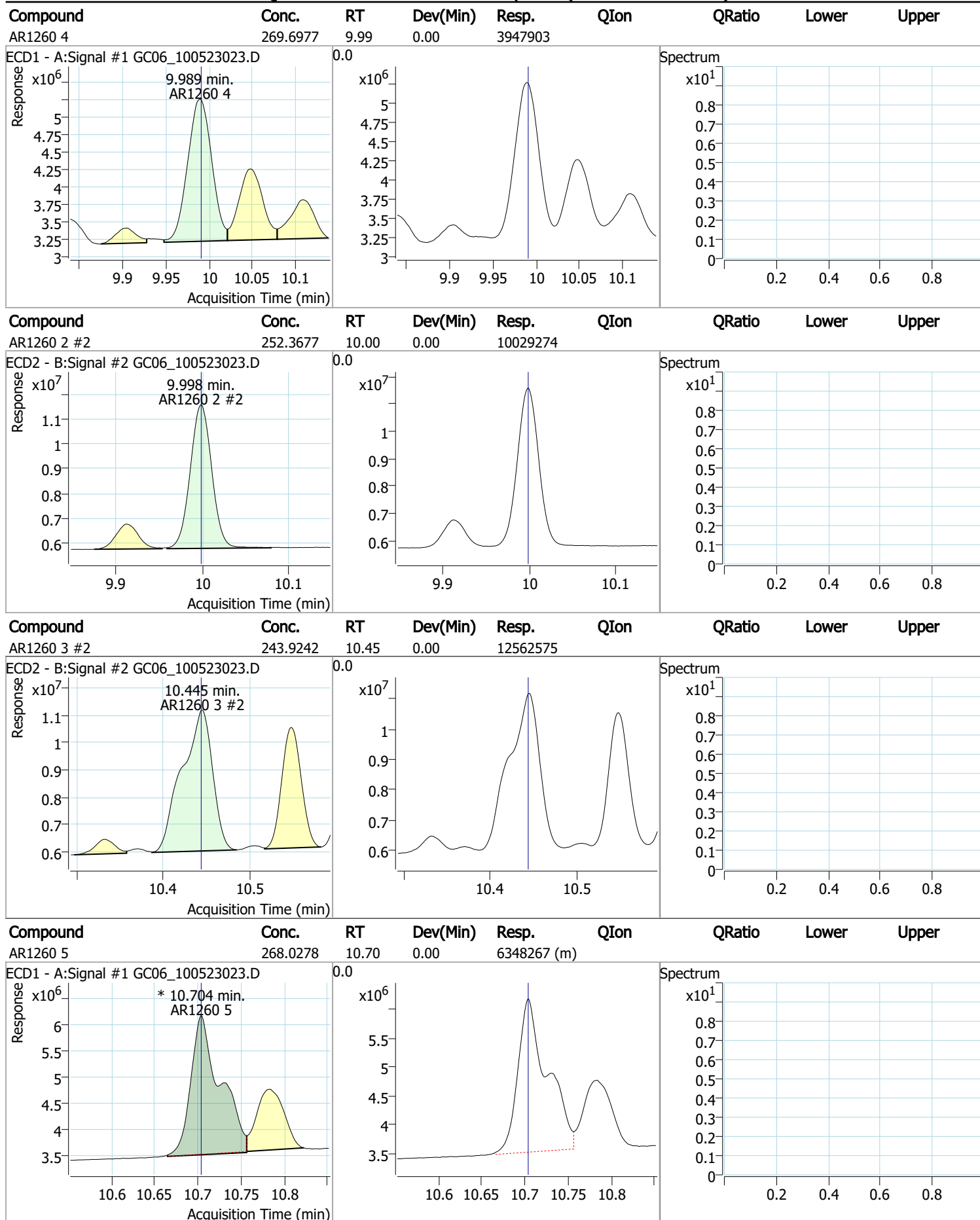
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	231.4030	9.48	0.00	6781626				



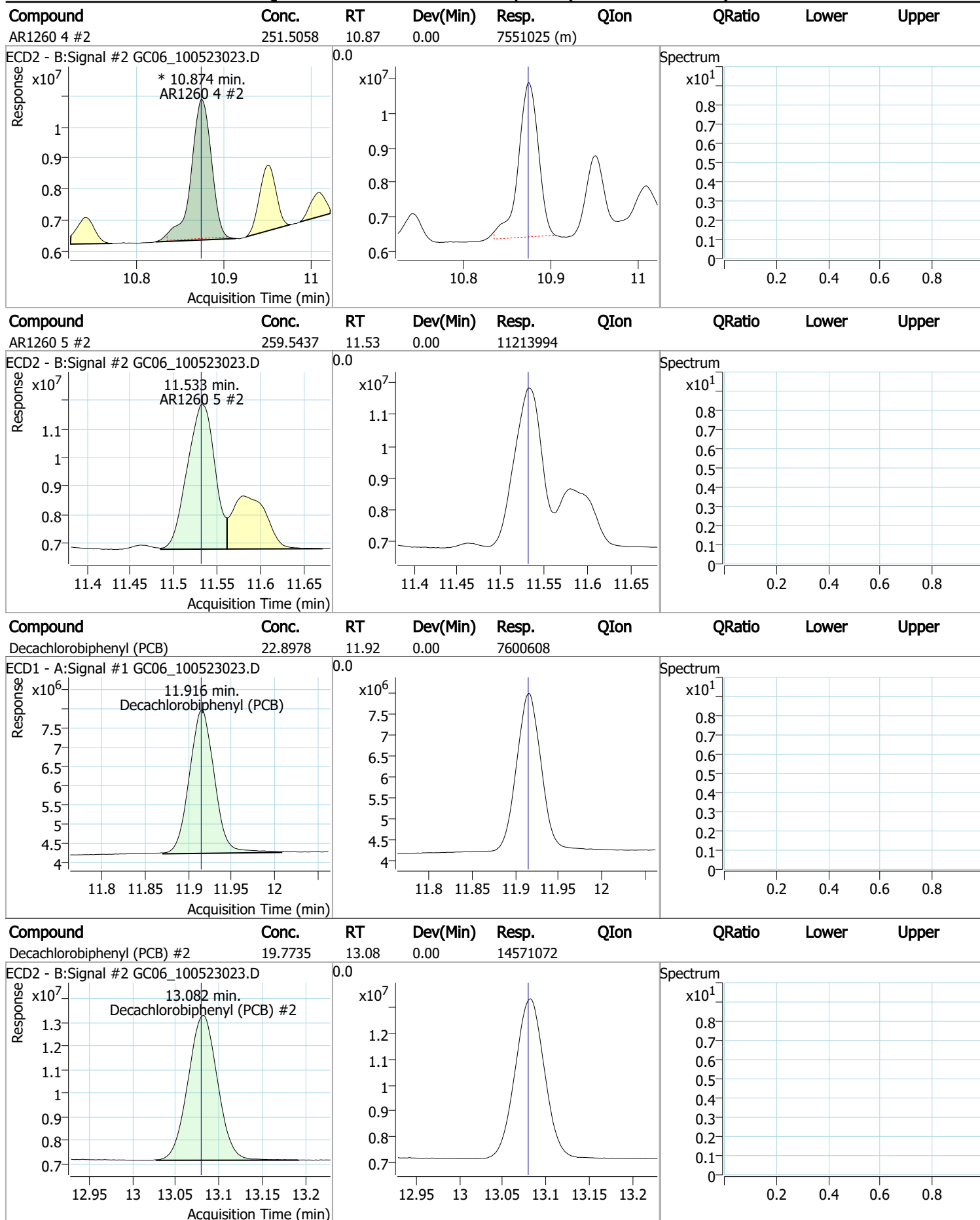
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	254.0026	9.72	0.00	8390286				



Quantitation Results Report (Not Reviewed)



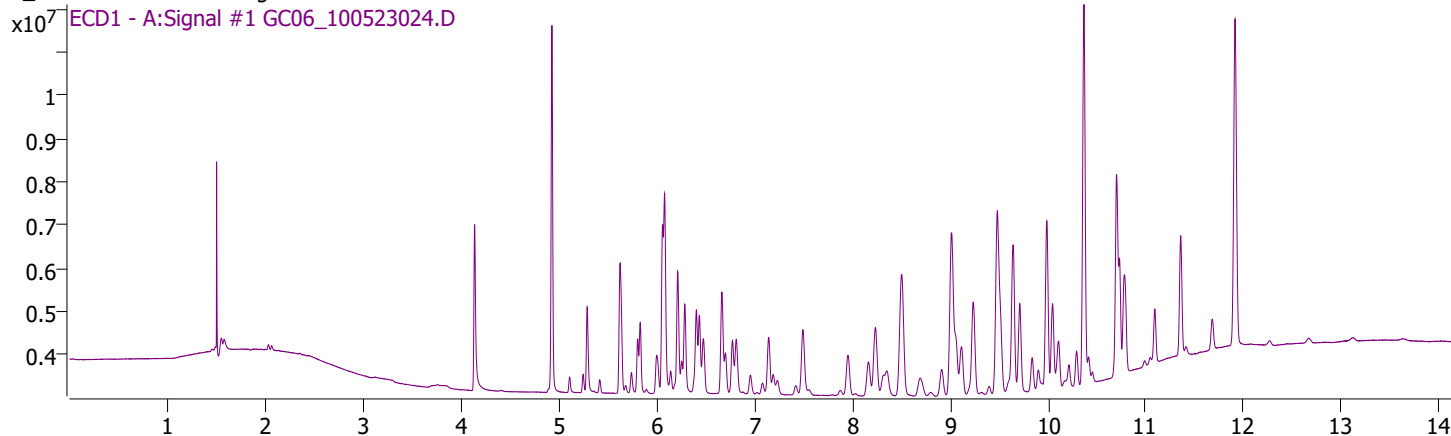
Quantitation Results Report (Not Reviewed)



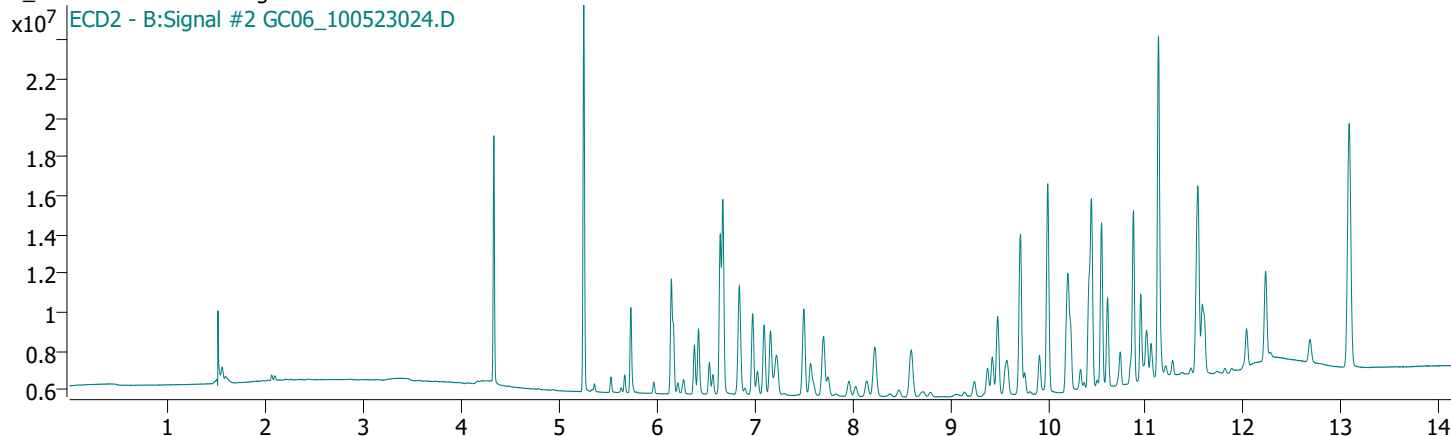
Quantitation Results Report (Not Reviewed)

Data File	GC06_100523024.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 2:56:16 PM
Sample Name	ICAL, S18459	Instrument	SVOA-GC06
Vial	15	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	500 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:25:48 PM
Ref Library			

GC06_100523024.D No MS Signals



GC06_100523024.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.139	0.0	4823717.57 7	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.336	0.0	11622426.6 27	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	9534096.69 1	36.6259	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 183.13%	*	
S TCMX (PCB) #2	5.255	0.0	21610304.1 96	36.2780	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 181.39%	*	
S Decachlorobiphenyl (PCB)	11.912	0.0	15114434.8 58	45.3406	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 226.70%	*	
S Decachlorobiphenyl (PCB) #2	13.078	0.0	29734291.6 45	40.5920	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 202.96%	*	

Target Compounds

QValue

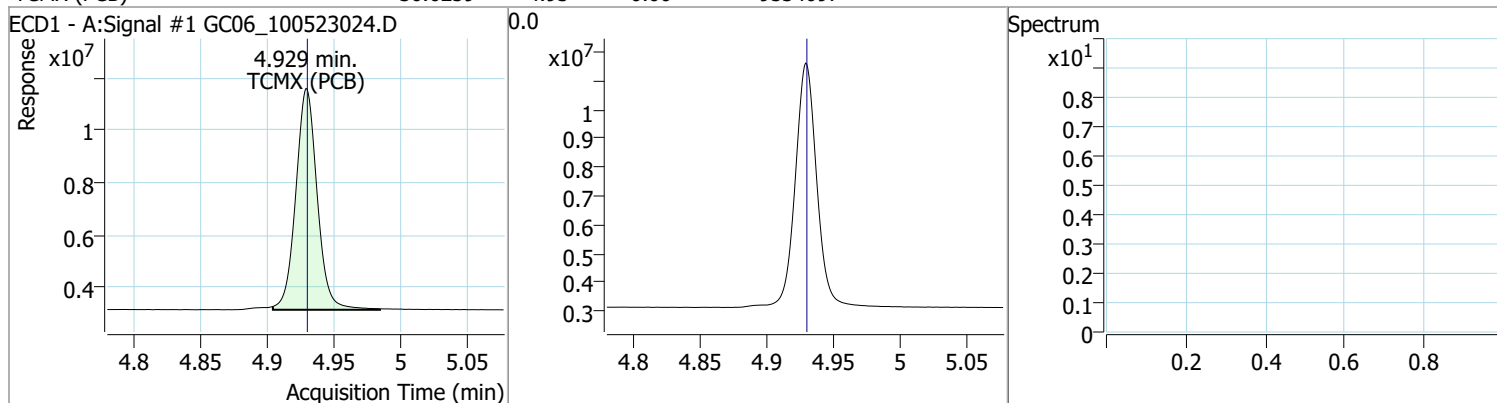
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.290	0.0	2696062.50 9	495.1333	ng/ml	100
T AR1016 2	5.627	0.0	5319648.20 8	468.5716	ng/ml	100
T AR1016 1 #2	5.737	0.0	5499168.63 4	474.7521	ng/ml	100
T AR1016 3	6.081	0.0	6896696.80 6	473.3138	ng/ml m	100
T AR1016 2 #2	6.151	0.0	11735990.4 54	444.2590	ng/ml	100
T AR1016 4	6.215	0.0	4232590.78 0	480.0073	ng/ml	100
T AR1016 5	6.667	0.0	4002732.31 6	445.3354	ng/ml	100
T AR1016 3 #2	6.676	0.0	15242470.8 51	481.7079	ng/ml	100
T AR1016 4 #2	6.845	0.0	10805216.2 50	487.7767	ng/ml	100
T AR1016 5 #2	7.504	0.0	8792037.08 0	484.7079	ng/ml	100
T AR1260 1	8.504	0.0	7983353.57 8	480.9734	ng/ml	100
T AR1260 2	9.013	0.0	12239105.5 18	423.8840	ng/ml	100
T AR1260 3	9.482	0.0	12548530.9 35	426.3626	ng/ml	100
T AR1260 1 #2	9.718	0.0	15874993.1 12	483.4655	ng/ml	100
T AR1260 4	9.988	0.0	7307905.42 6	497.1125	ng/ml	100
T AR1260 2 #2	9.998	0.0	19159138.4 07	484.9878	ng/ml	100
T AR1260 3 #2	10.443	0.0	23947175.1 78	467.7579	ng/ml	100
T AR1260 5	10.701	0.0	12239520.4 57	514.5648	ng/ml m	100
T AR1260 4 #2	10.873	0.0	14029973.6 50	470.0992	ng/ml m	100
T AR1260 5 #2	11.531	0.0	21311970.3 96	496.2086	ng/ml	100

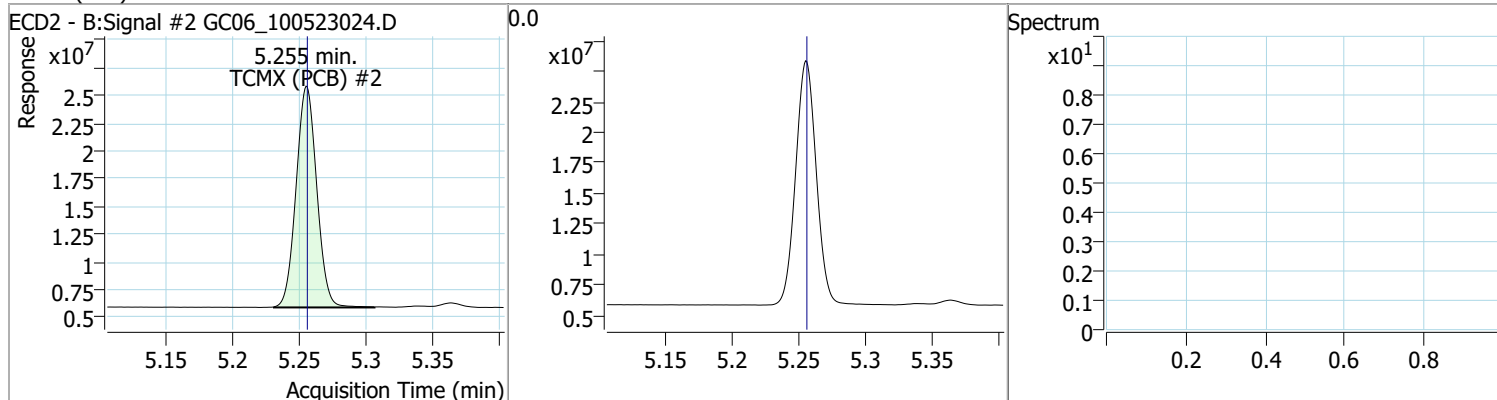
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

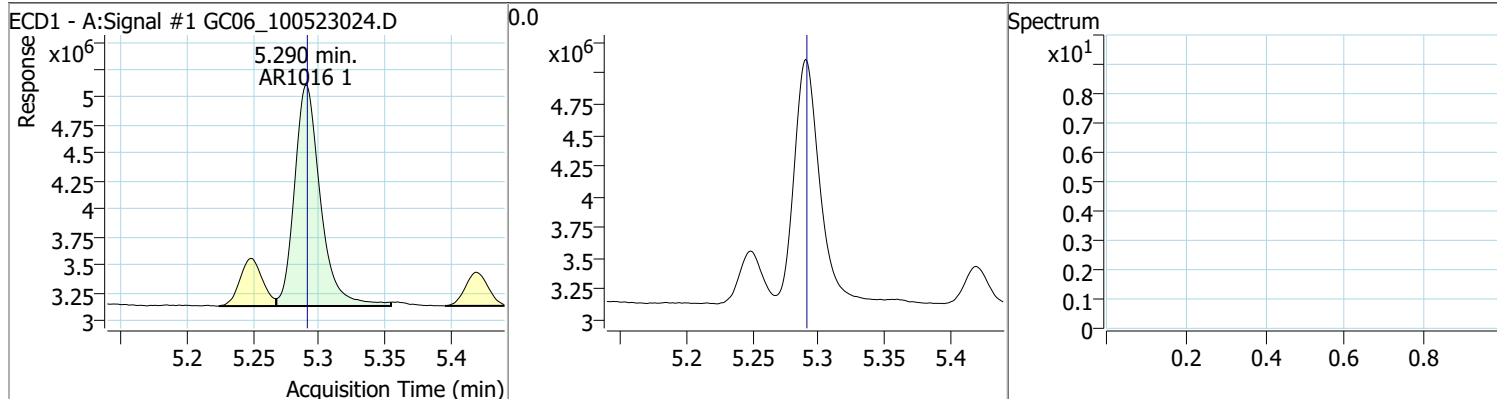
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	36.6259	4.93	0.00	9534097				



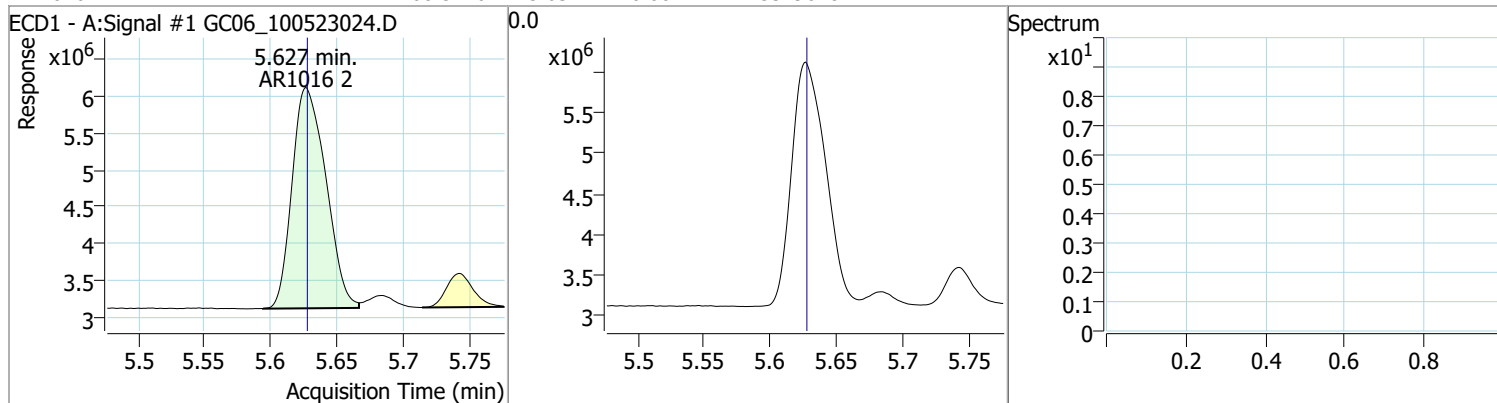
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	36.2780	5.26	0.00	21610304				



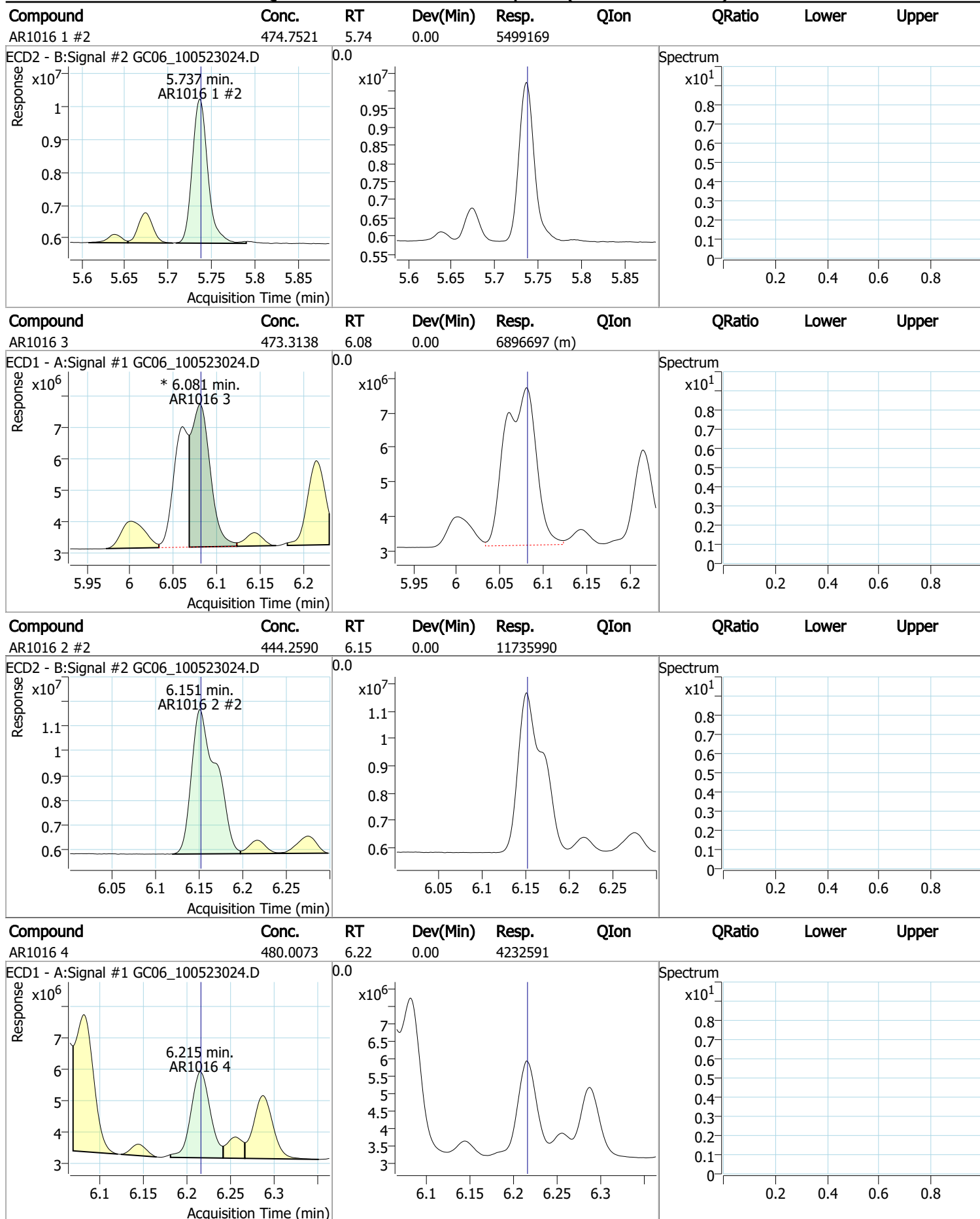
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	495.1333	5.29	0.00	2696063				



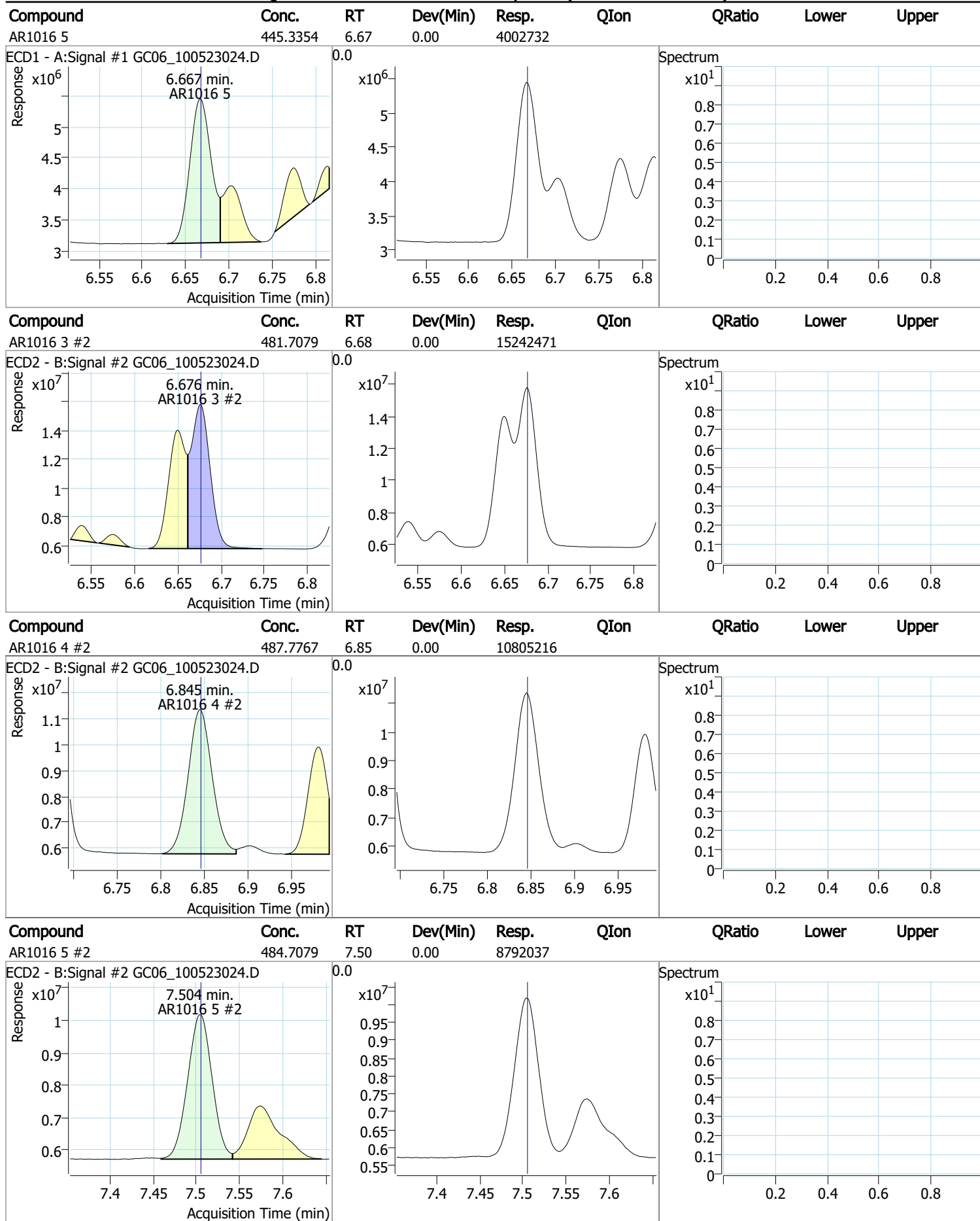
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	468.5716	5.63	0.00	5319648				



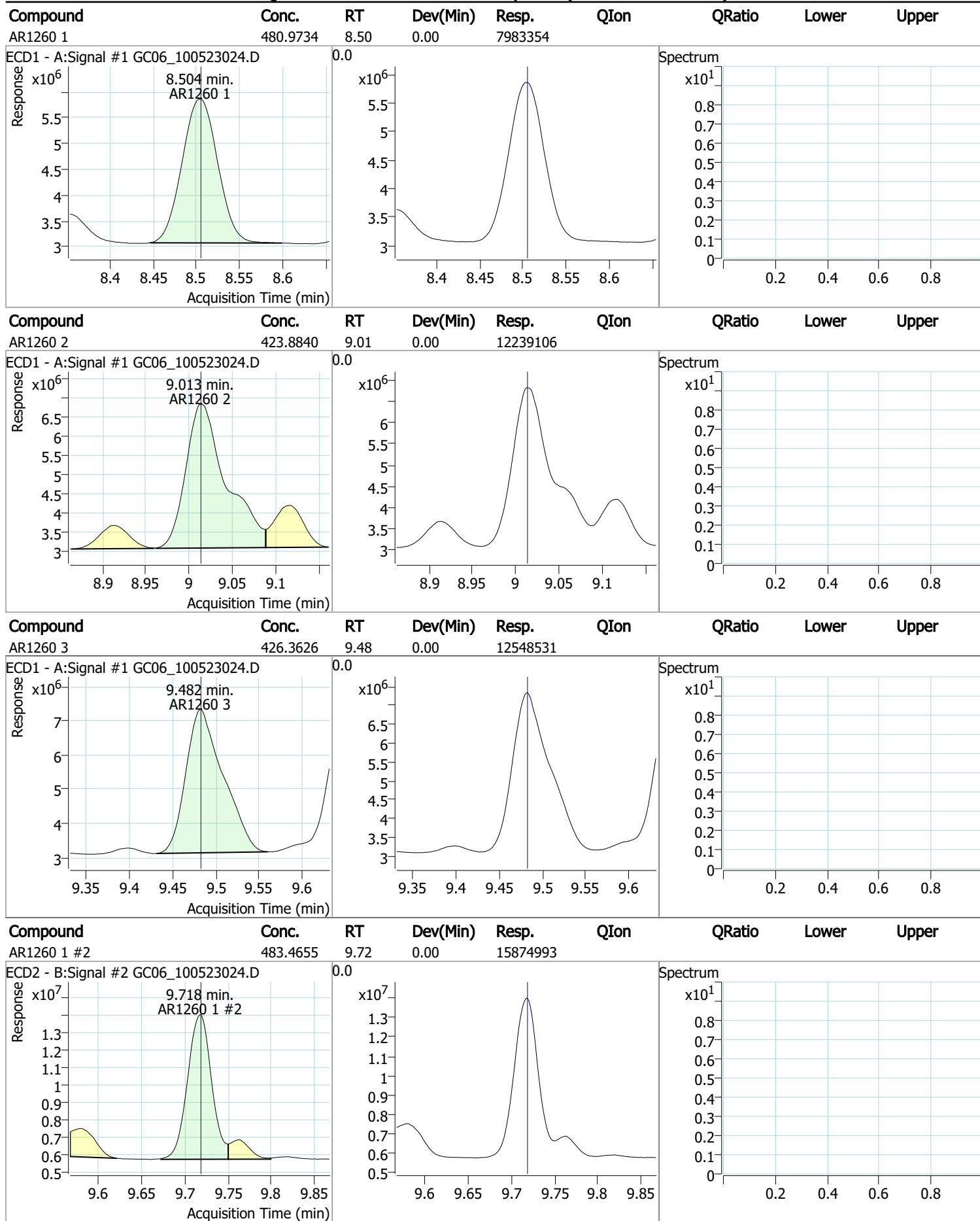
Quantitation Results Report (Not Reviewed)



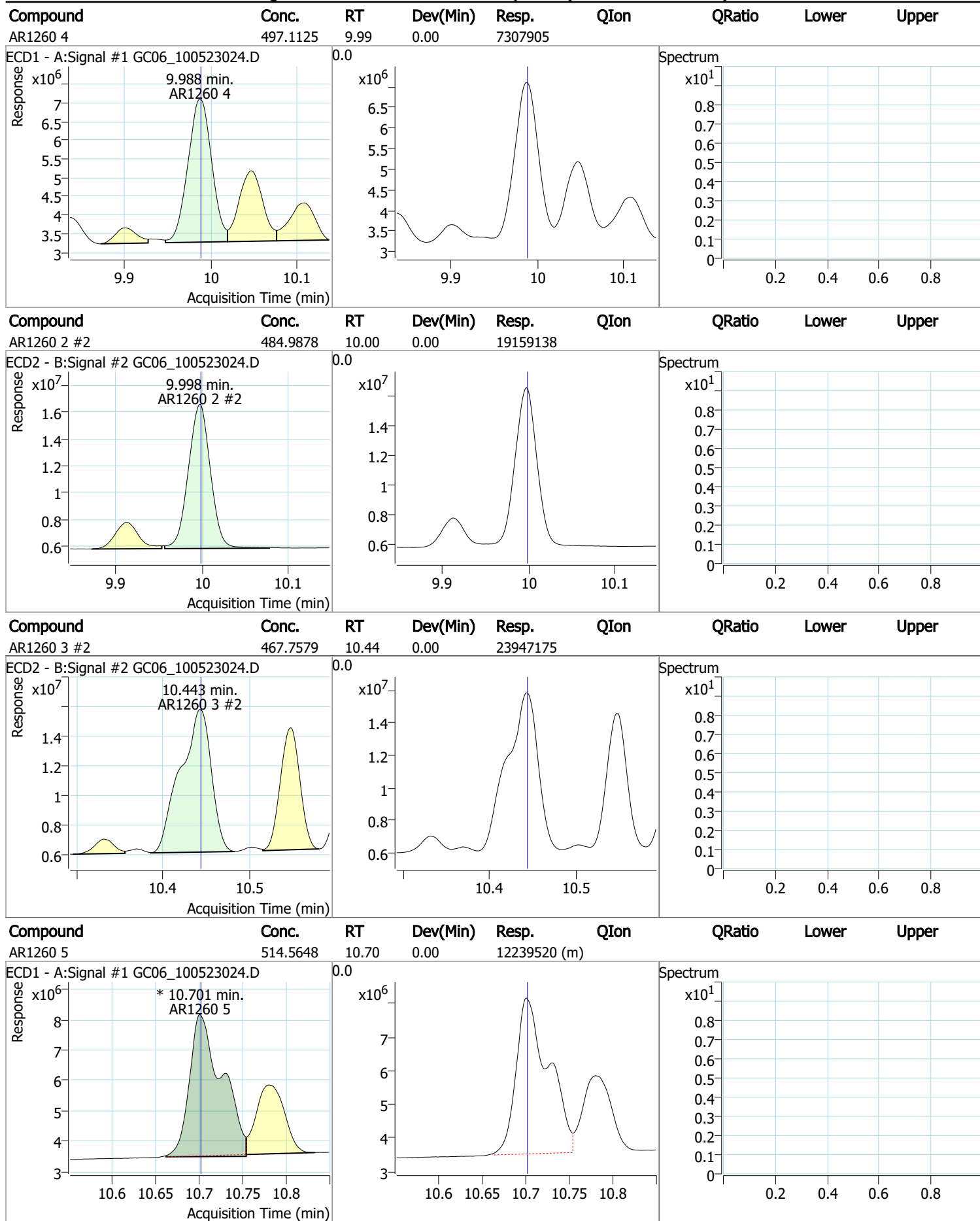
Quantitation Results Report (Not Reviewed)



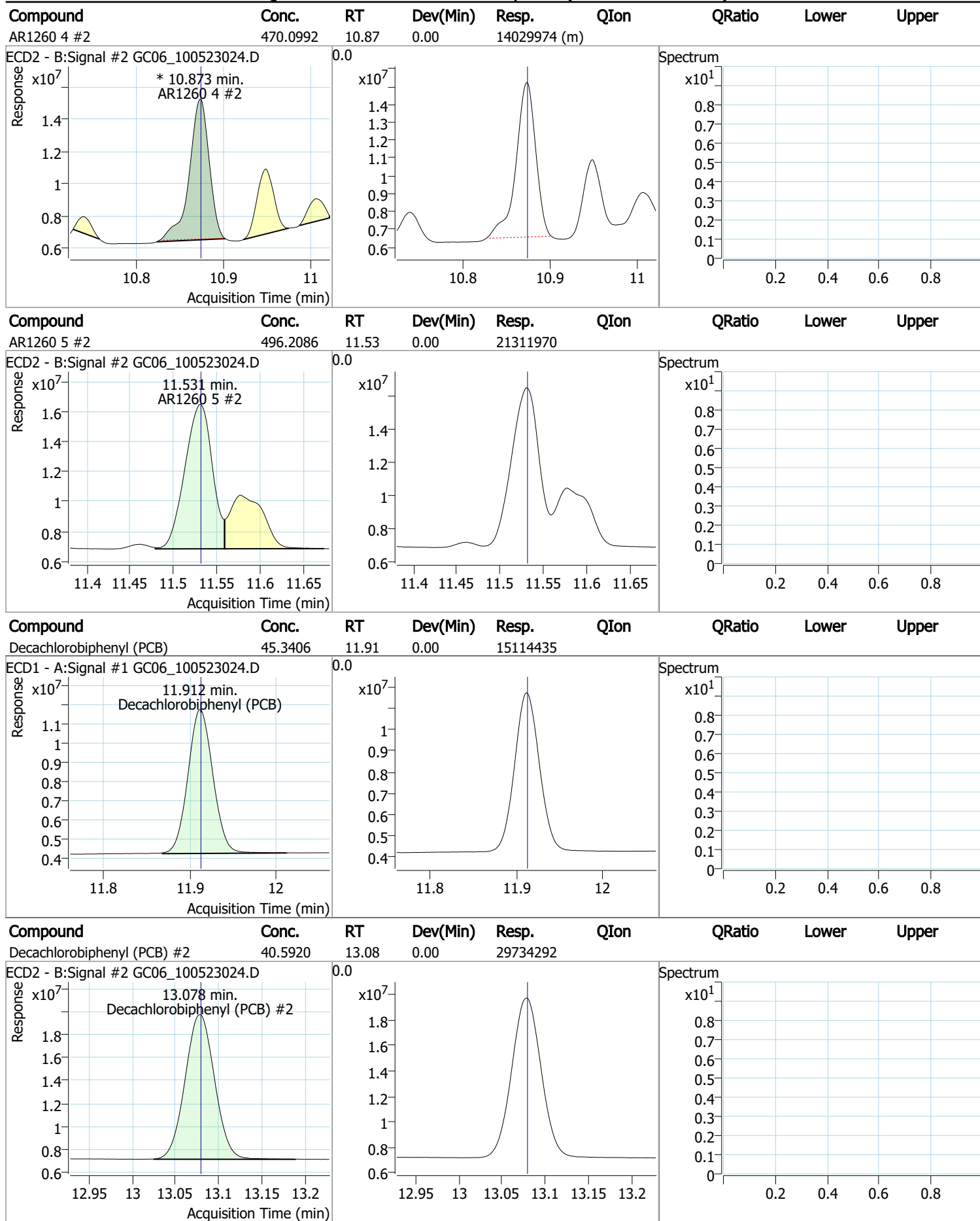
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



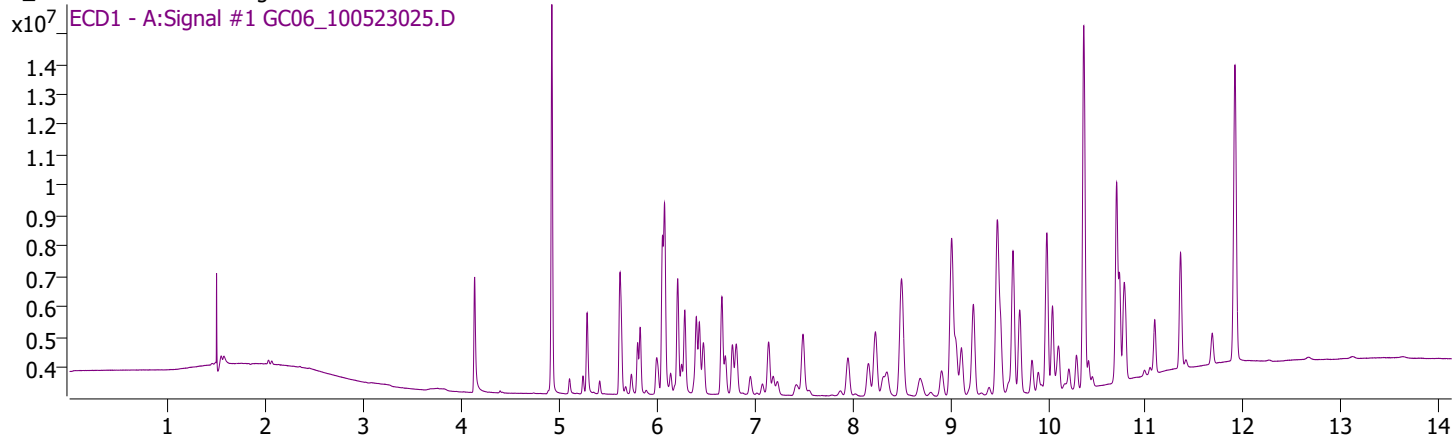
Quantitation Results Report (Not Reviewed)



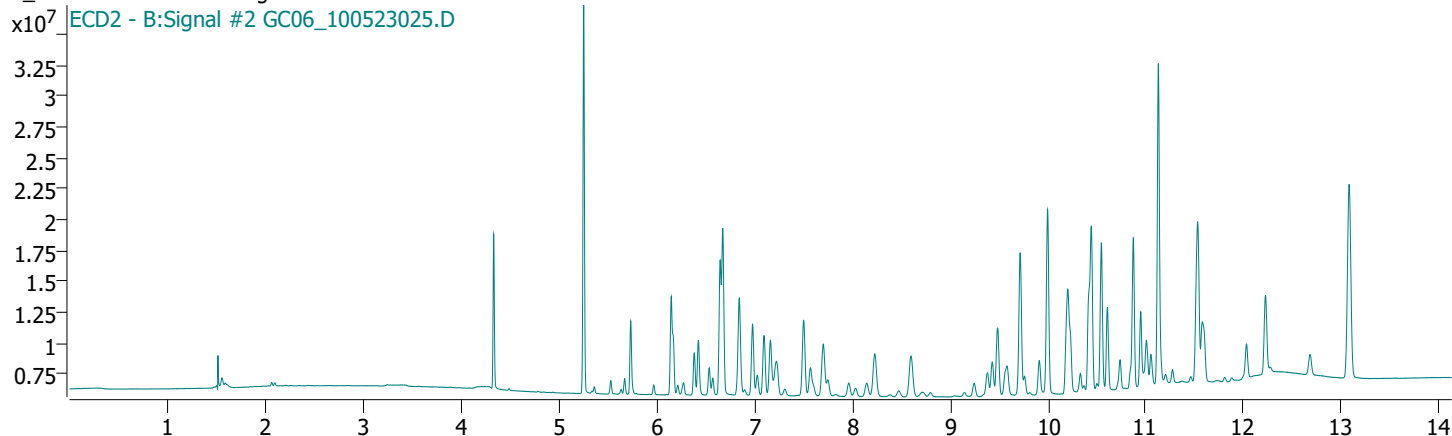
Quantitation Results Report (Not Reviewed)

Data File	GC06_100523025.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 3:14:35 PM
Sample Name	ICAL, S18460	Instrument	SVOA-GC06
Vial	16	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	750 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:25:48 PM
Ref Library			

GC06_100523025.D No MS Signals



GC06_100523025.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.140	0.0	4729063.820	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.335	0.0	11315281.634	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	14094984.932	55.2306	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 276.15%	*	
S TCMX (PCB) #2	5.255	0.0	32440758.815	55.9377	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 279.69%	*	
S Decachlorobiphenyl (PCB)	11.911	0.0	19235020.899	58.8566	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 294.28%	*	
S Decachlorobiphenyl (PCB) #2	13.078	0.0	37913687.442	53.1631	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 265.82%	*	

Target Compounds

QValue

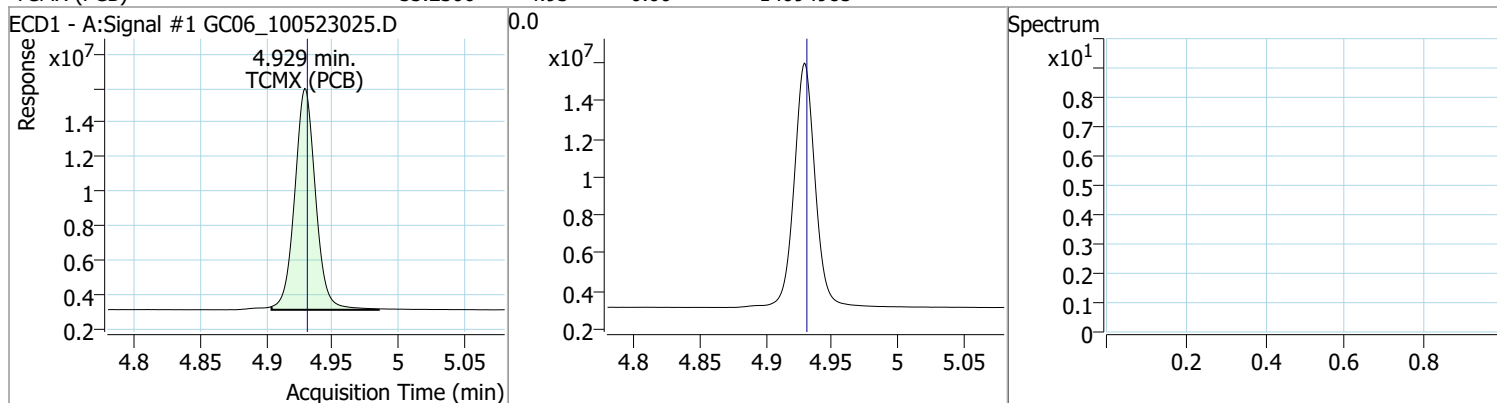
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.290	0.0	3587369.50 9	672.0088	ng/ml m	100
T AR1016 2	5.627	0.0	7123936.02 1	640.0586	ng/ml	100
T AR1016 1 #2	5.736	0.0	7457180.47 8	661.2656	ng/ml	100
T AR1016 3	6.081	0.0	9555980.47 6	668.9443	ng/ml m	100
T AR1016 2 #2	6.150	0.0	15782594.0 19	613.6579	ng/ml	100
T AR1016 4	6.215	0.0	5689814.57 8	658.1825	ng/ml	100
T AR1016 5	6.668	0.0	5405334.55 0	613.4229	ng/ml	100
T AR1016 3 #2	6.676	0.0	20756374.6 82	673.7695	ng/ml	100
T AR1016 4 #2	6.845	0.0	14655562.6 85	679.5502	ng/ml	100
T AR1016 5 #2	7.503	0.0	11935146.3 77	675.8492	ng/ml	100
T AR1260 1	8.503	0.0	10738440.8 72	659.9083	ng/ml	100
T AR1260 2	9.016	0.0	16591288.4 82	586.1168	ng/ml m	100
T AR1260 3	9.482	0.0	17183621.4 74	595.5354	ng/ml	100
T AR1260 1 #2	9.716	0.0	21709327.1 06	679.0937	ng/ml	100
T AR1260 4	9.988	0.0	10012442.9 01	694.7180	ng/ml	100
T AR1260 2 #2	9.997	0.0	26097700.4 98	678.5605	ng/ml	100
T AR1260 3 #2	10.443	0.0	33268549.7 77	667.4706	ng/ml	100
T AR1260 5	10.702	0.0	16683901.1 96	715.4511	ng/ml m	100
T AR1260 4 #2	10.873	0.0	19920383.1 50	685.5858	ng/ml m	100
T AR1260 5 #2	11.530	0.0	29111437.9 80	696.2029	ng/ml	100

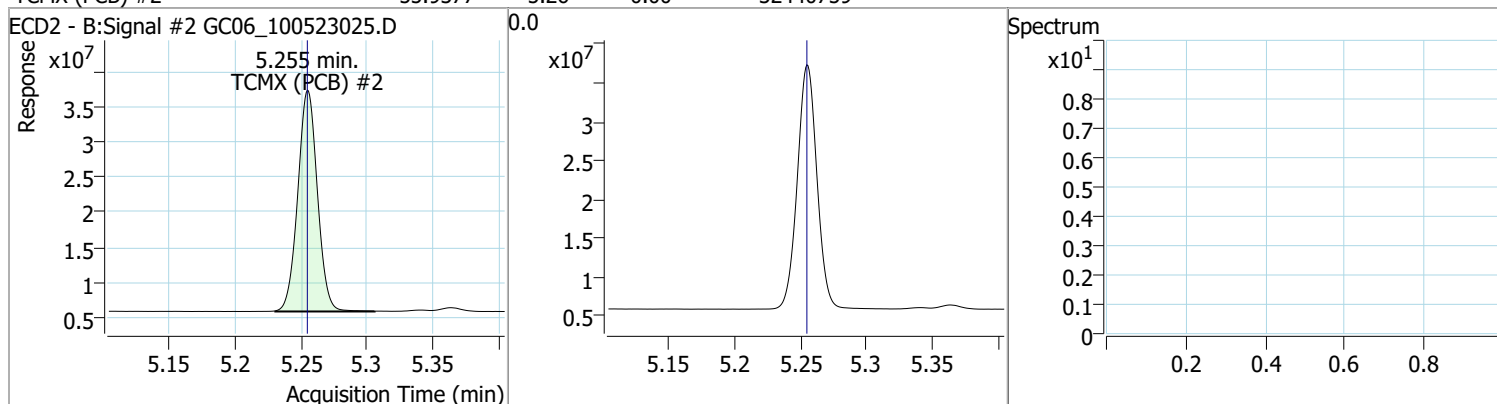
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

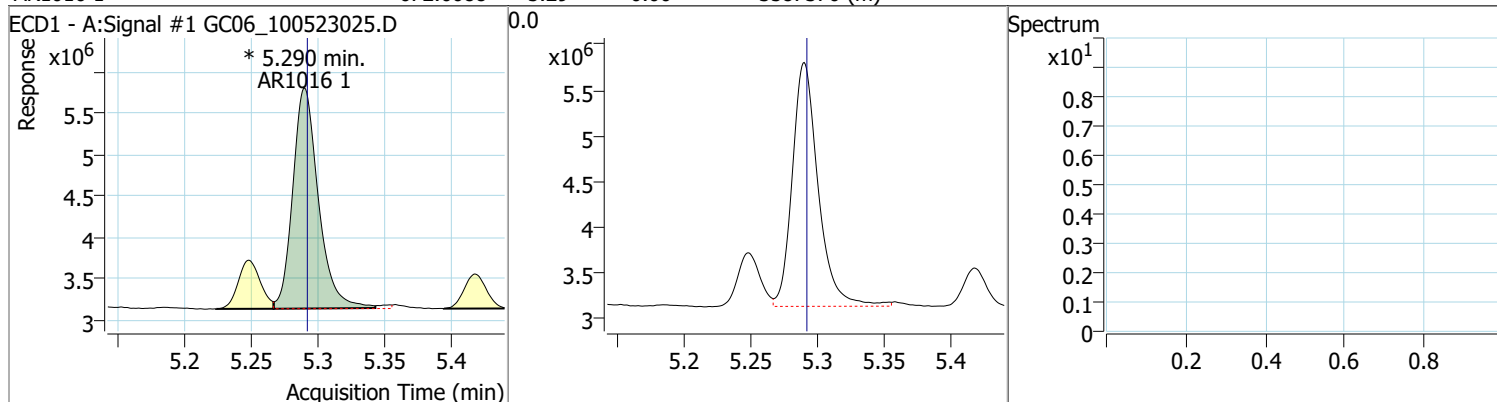
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	55.2306	4.93	0.00	14094985				



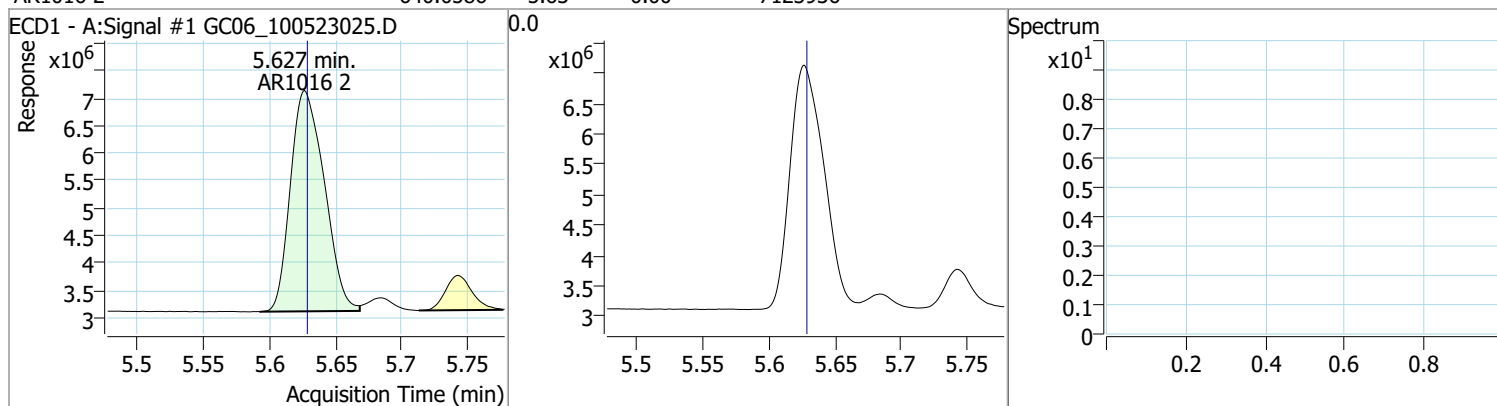
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	55.9377	5.26	0.00	32440759				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	672.0088	5.29	0.00	3587370 (m)				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	640.0586	5.63	0.00	7123936				

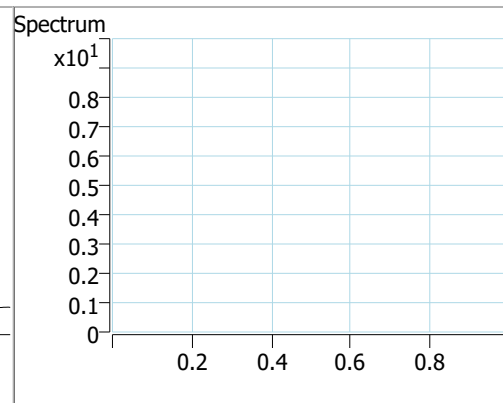
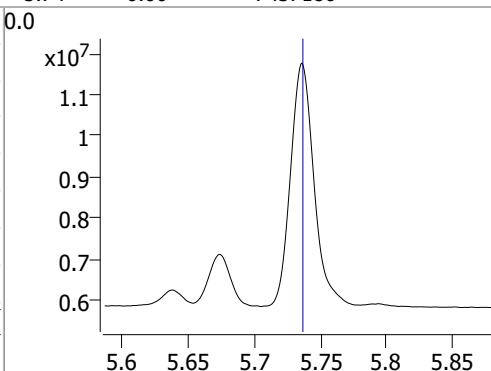
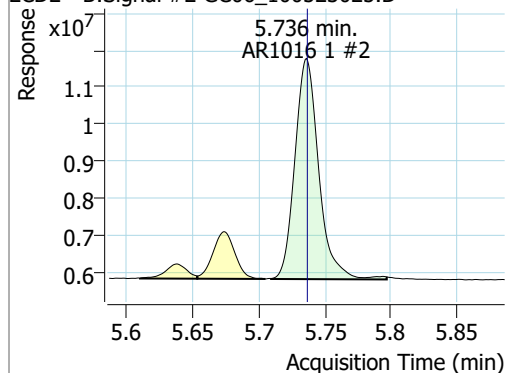


Quantitation Results Report (Not Reviewed)

Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 1 #2 661.2656 5.74 0.00 7457180

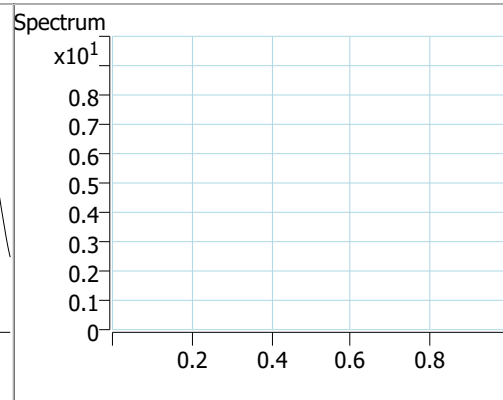
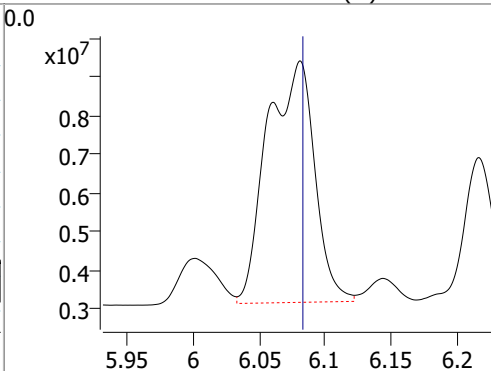
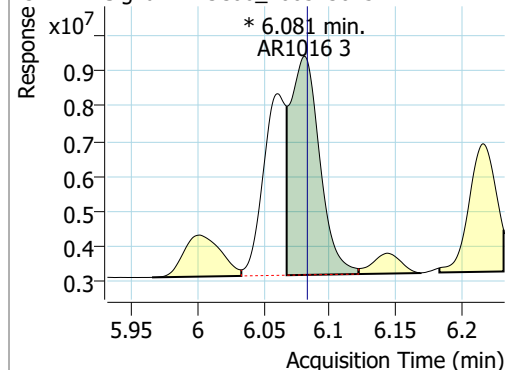
ECD2 - B:Signal #2 GC06_100523025.D



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 3 668.9443 6.08 0.00 9555980 (m)

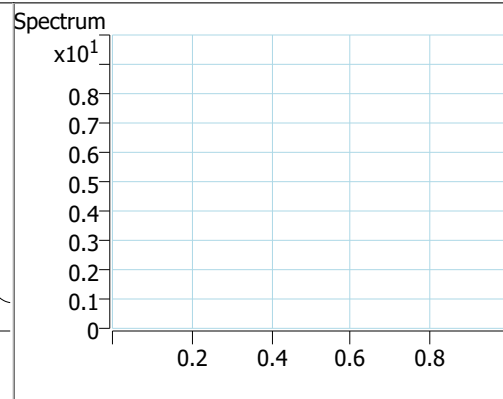
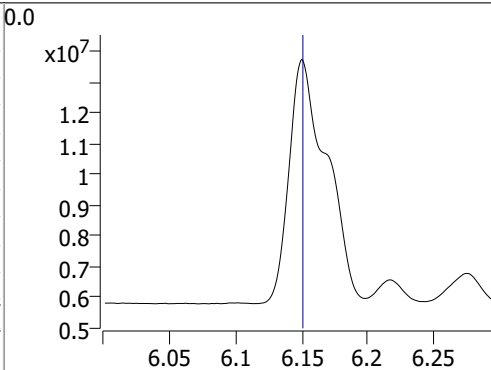
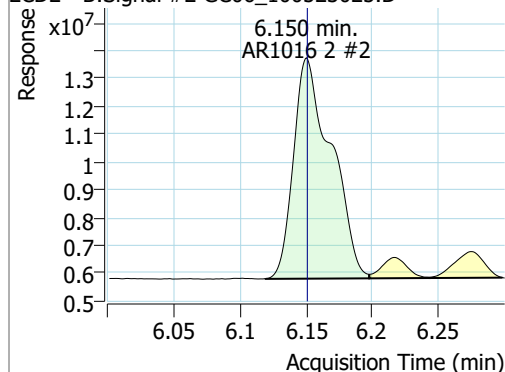
ECD1 - A:Signal #1 GC06_100523025.D



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 2 #2 613.6579 6.15 0.00 15782594

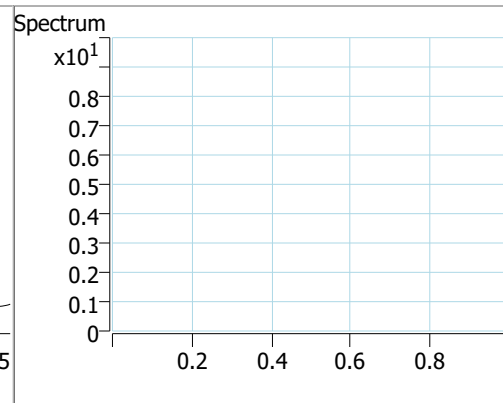
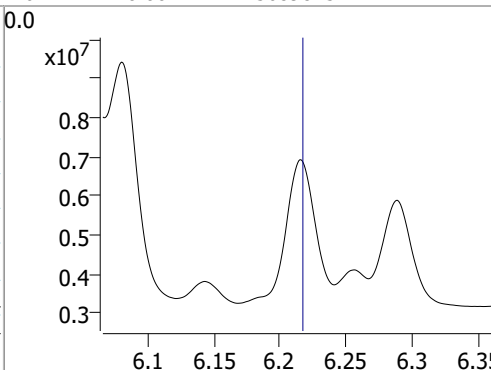
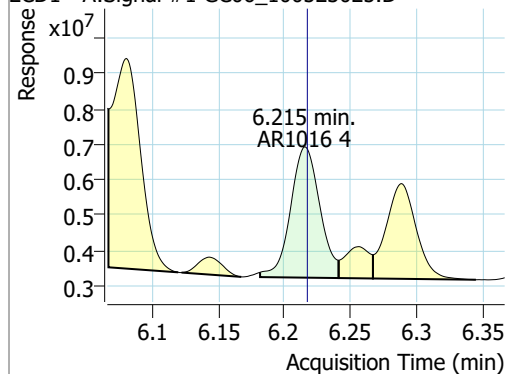
ECD2 - B:Signal #2 GC06_100523025.D



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

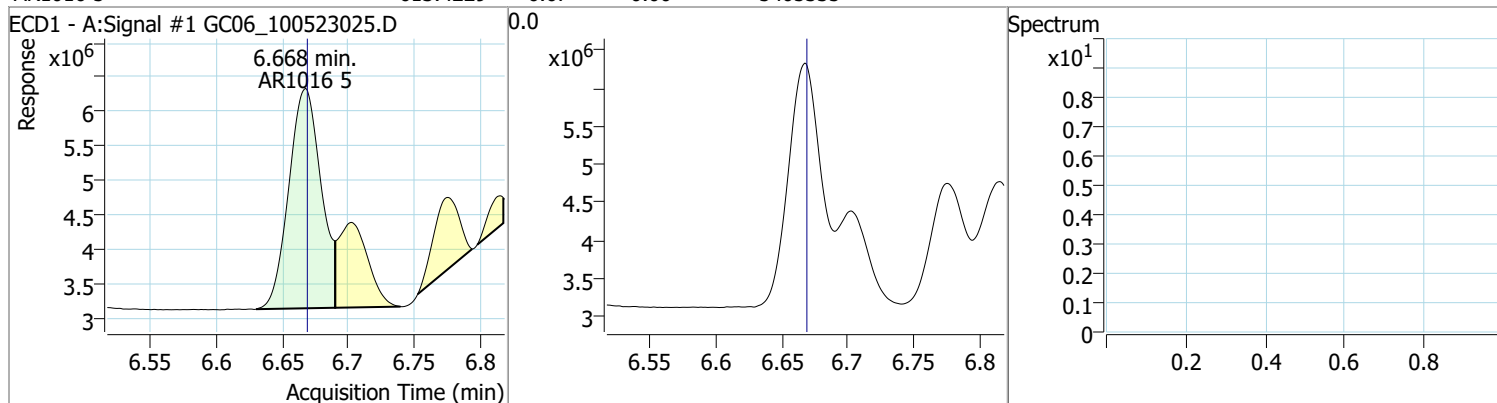
AR1016 4 658.1825 6.22 0.00 5689815

ECD1 - A:Signal #1 GC06_100523025.D

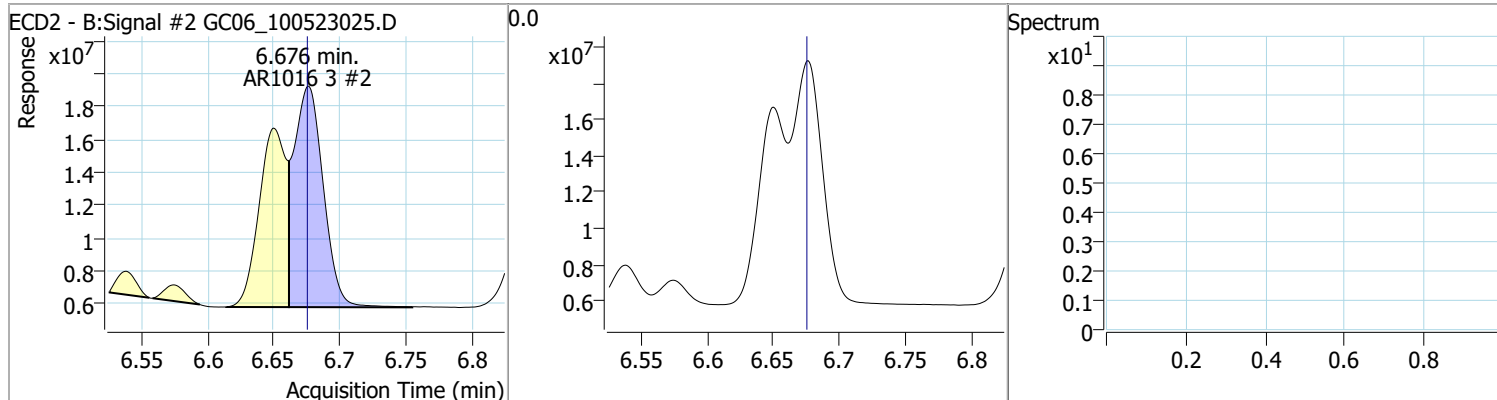


Quantitation Results Report (Not Reviewed)

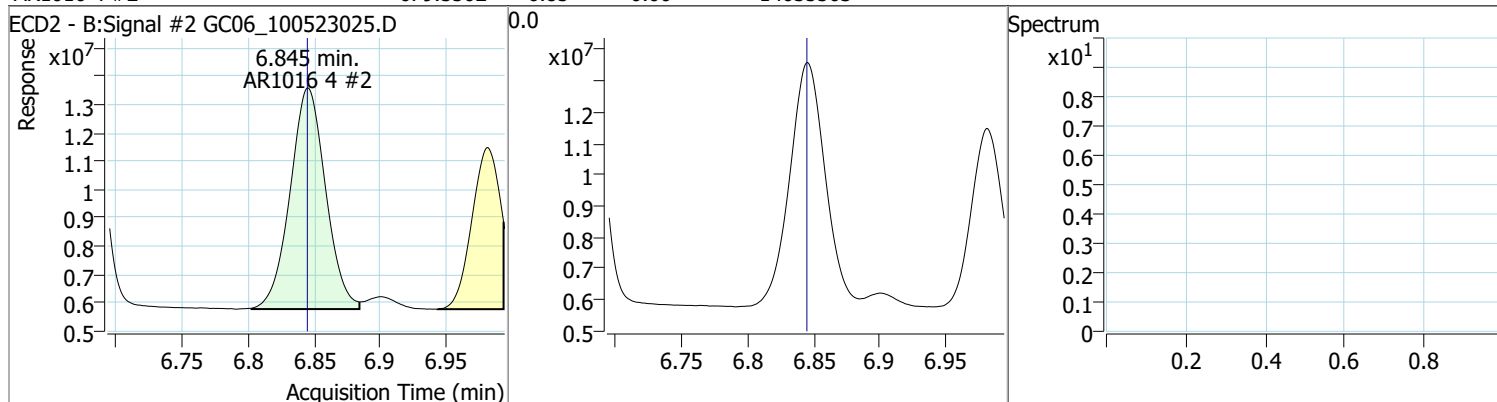
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	613.4229	6.67	0.00	5405335				



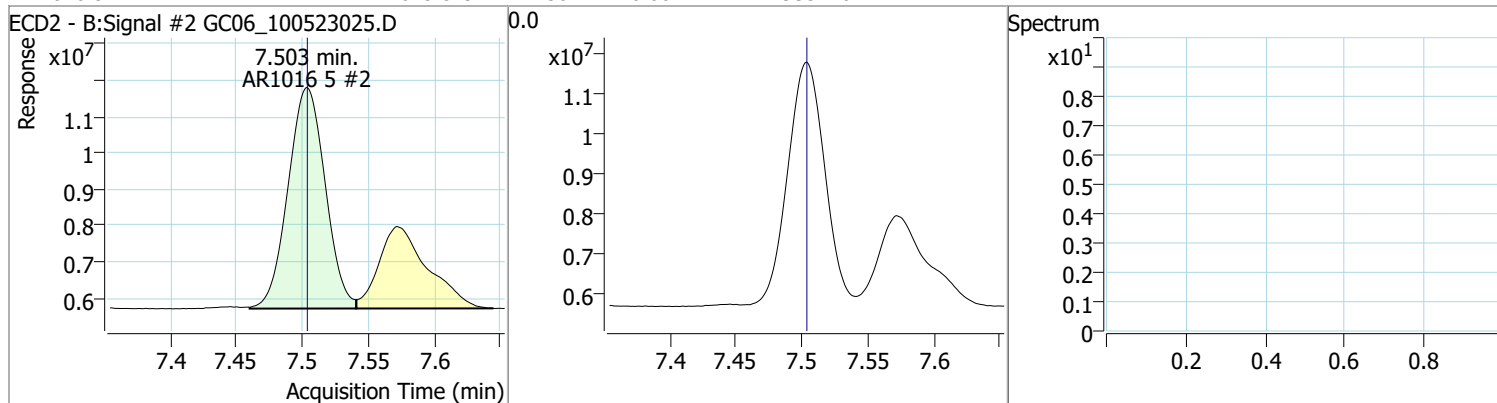
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	673.7695	6.68	0.00	20756375				



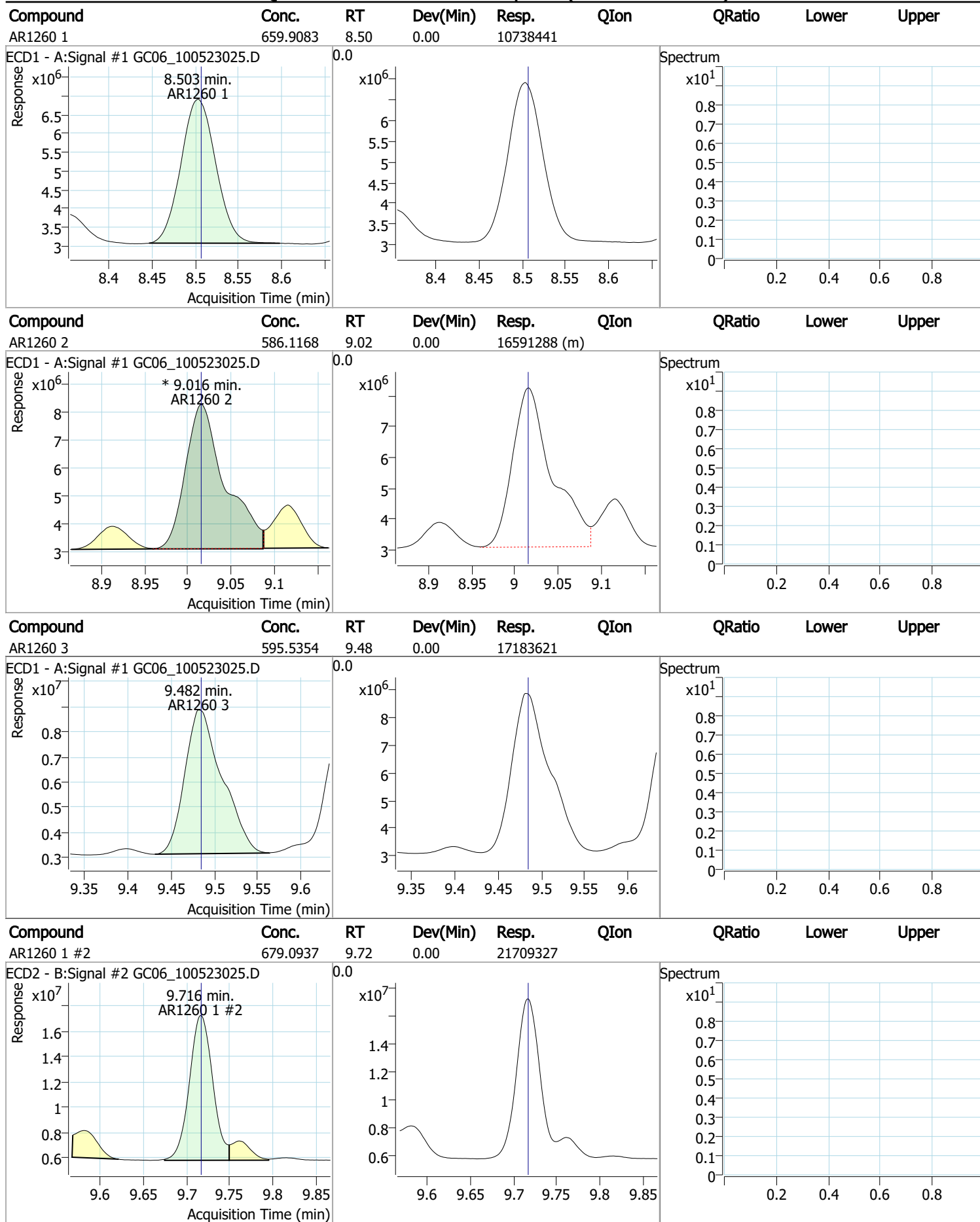
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	679.5502	6.85	0.00	14655563				



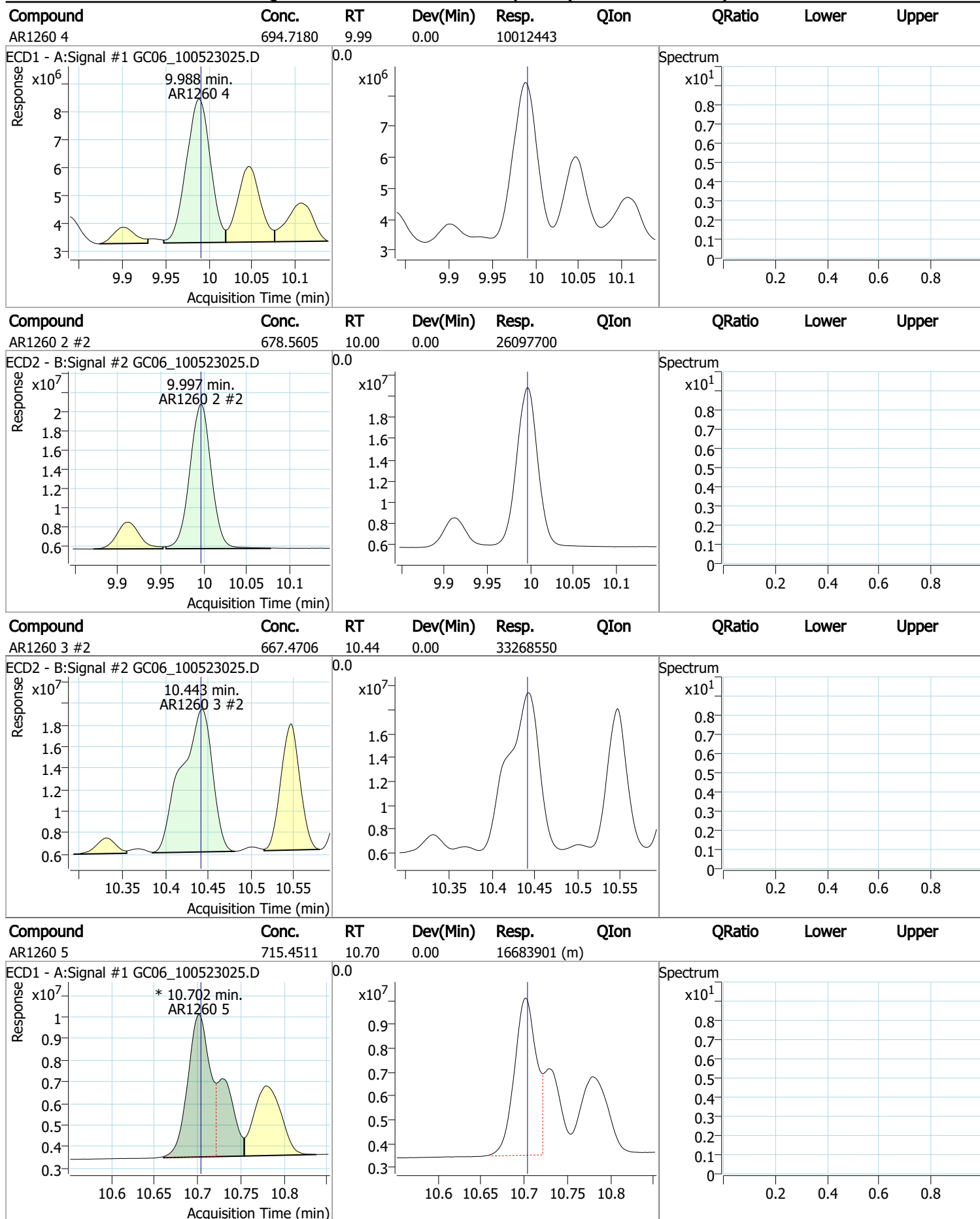
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	675.8492	7.50	0.00	11935146				



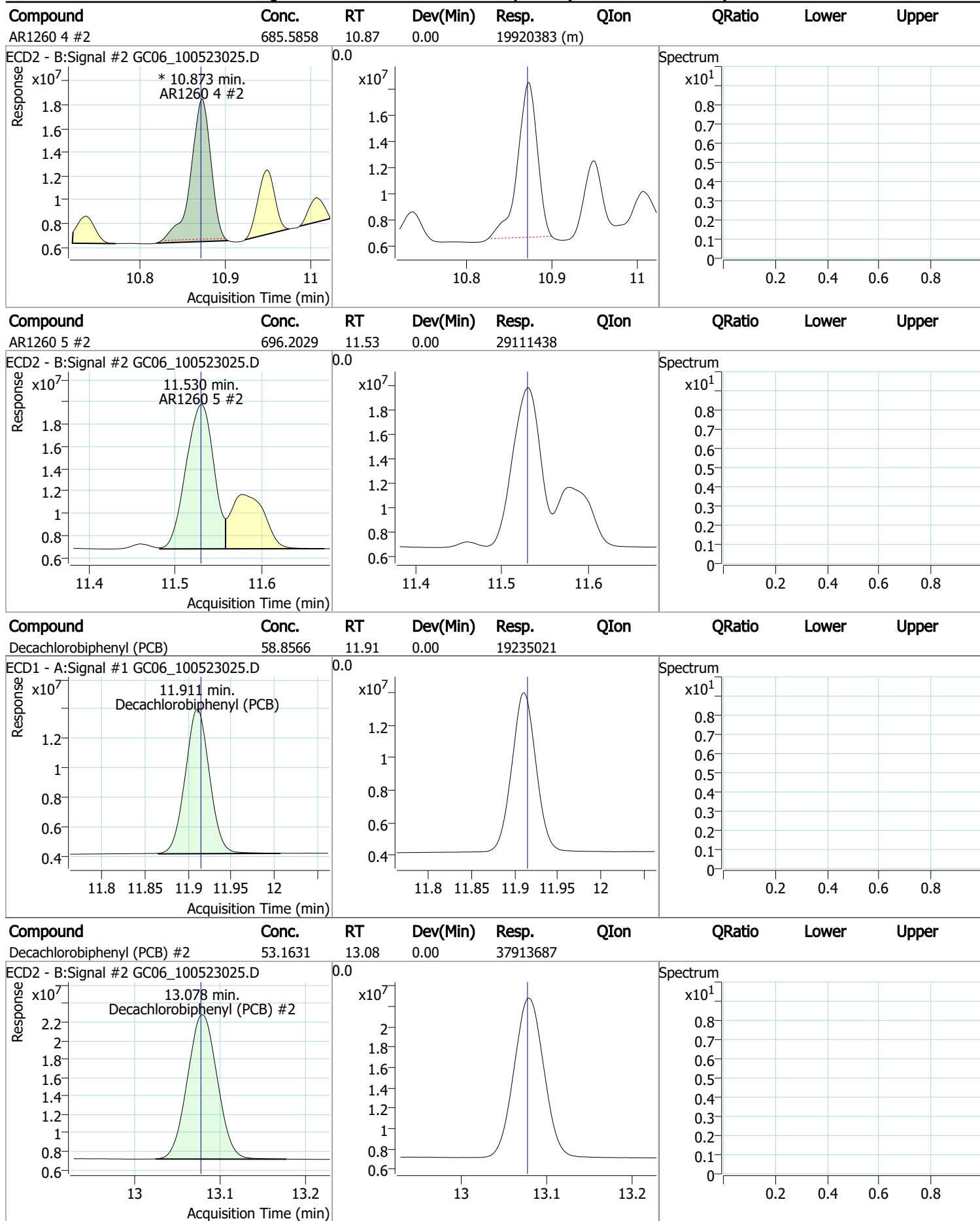
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

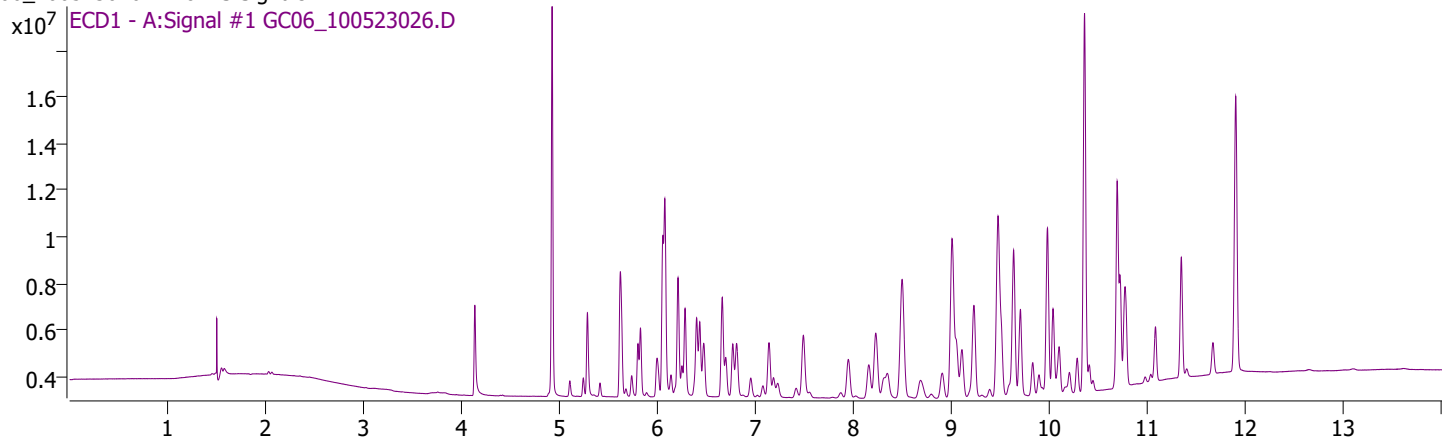


Quantitation Results Report (Not Reviewed)

Data File	GC06_100523026.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 3:32:49 PM
Sample Name	ICAL, S18461	Instrument	SVOA-GC06
Vial	17	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	1000 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:25:48 PM
Ref Library			

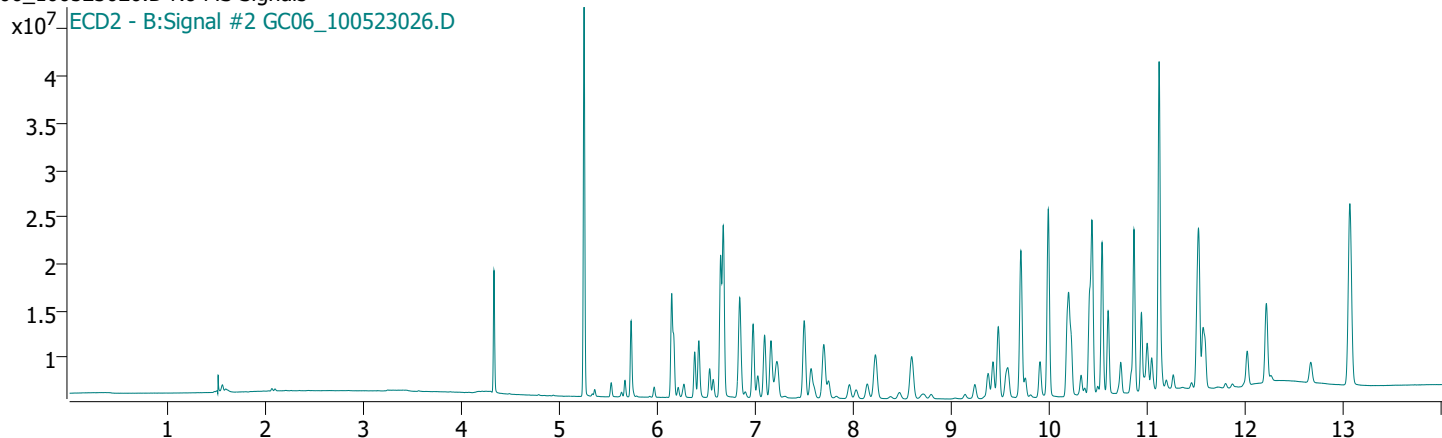
GC06_100523026.D No MS Signals

x10⁷ ECD1 - A:Signal #1 GC06_100523026.D



GC06_100523026.D No MS Signals

x10⁷ ECD2 - B:Signal #2 GC06_100523026.D



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.139	0.0	4848446.436	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.335	0.0	11647227.336	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	18577491.685	71.0027	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 355.01%	*	
S TCMX (PCB) #2	5.255	0.0	43348370.700	72.6155	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 363.08%	*	
S Decachlorobiphenyl (PCB)	11.911	0.0	23299439.055	69.5377	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 347.69%	*	
S Decachlorobiphenyl (PCB) #2	13.077	0.0	45929800.023	62.5679	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 312.84%	*	

Target Compounds

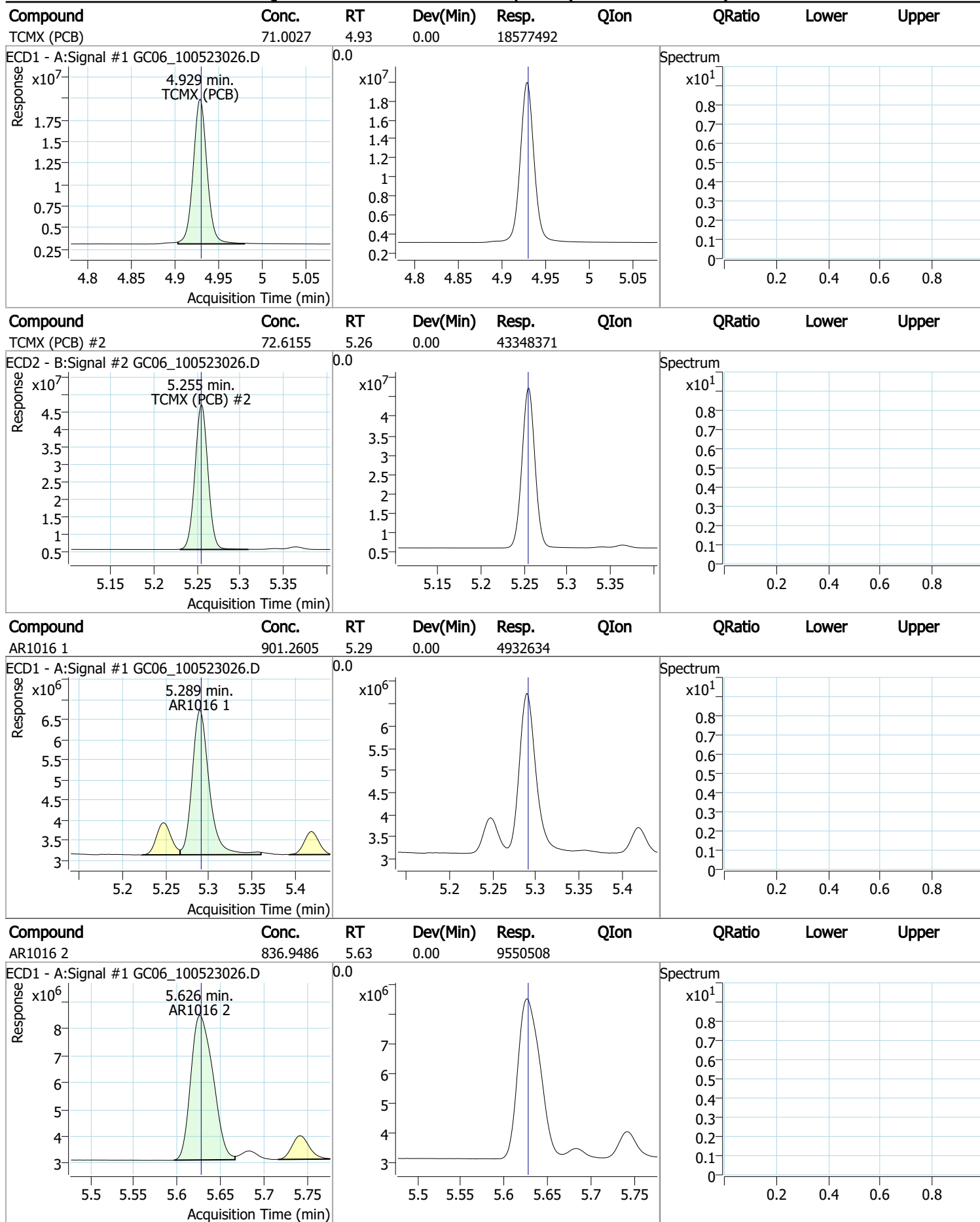
QValue

Quantitation Results Report (Not Reviewed)

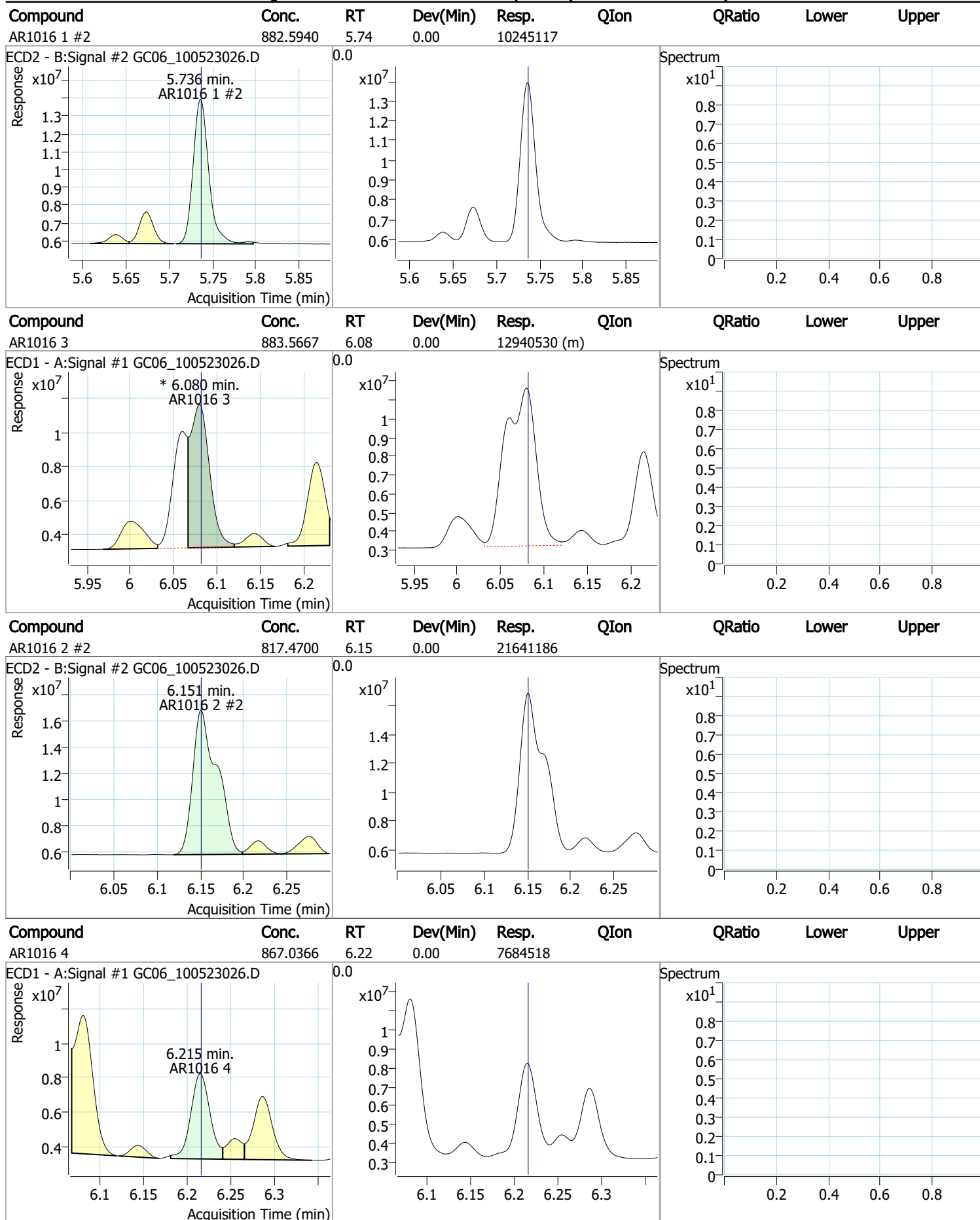
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.289	0.0	4932634.24 7	901.2605	ng/ml	100
T AR1016 2	5.626	0.0	9550507.99 2	836.9486	ng/ml	100
T AR1016 1 #2	5.736	0.0	10245116.5 05	882.5940	ng/ml	100
T AR1016 3	6.080	0.0	12940530.1 72	883.5667	ng/ml m	100
T AR1016 2 #2	6.151	0.0	21641186.3 30	817.4700	ng/ml	100
T AR1016 4	6.215	0.0	7684518.27 1	867.0366	ng/ml	100
T AR1016 5	6.667	0.0	7262832.12 6	803.9258	ng/ml	100
T AR1016 3 #2	6.677	0.0	28876716.9 76	910.6479	ng/ml	100
T AR1016 4 #2	6.845	0.0	20100913.5 33	905.4775	ng/ml	100
T AR1016 5 #2	7.503	0.0	16406703.9 70	902.5811	ng/ml	100
T AR1260 1	8.503	0.0	14199067.0 37	851.0885	ng/ml	100
T AR1260 2	9.013	0.0	21895917.8 55	754.4662	ng/ml	100
T AR1260 3	9.483	0.0	22841414.8 36	772.1265	ng/ml	100
T AR1260 1 #2	9.717	0.0	29250866.1 27	888.9246	ng/ml	100
T AR1260 4	9.988	0.0	13191269.2 40	892.7454	ng/ml	100
T AR1260 2 #2	9.997	0.0	35179216.5 30	888.6184	ng/ml	100
T AR1260 3 #2	10.442	0.0	45262491.8 60	882.2253	ng/ml	100
T AR1260 5	10.700	0.0	22150787.2 47	926.4972	ng/ml m	100
T AR1260 4 #2	10.872	0.0	27149401.1 50	907.7519	ng/ml m	100
T AR1260 5 #2	11.530	0.0	37826518.9 49	878.8431	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

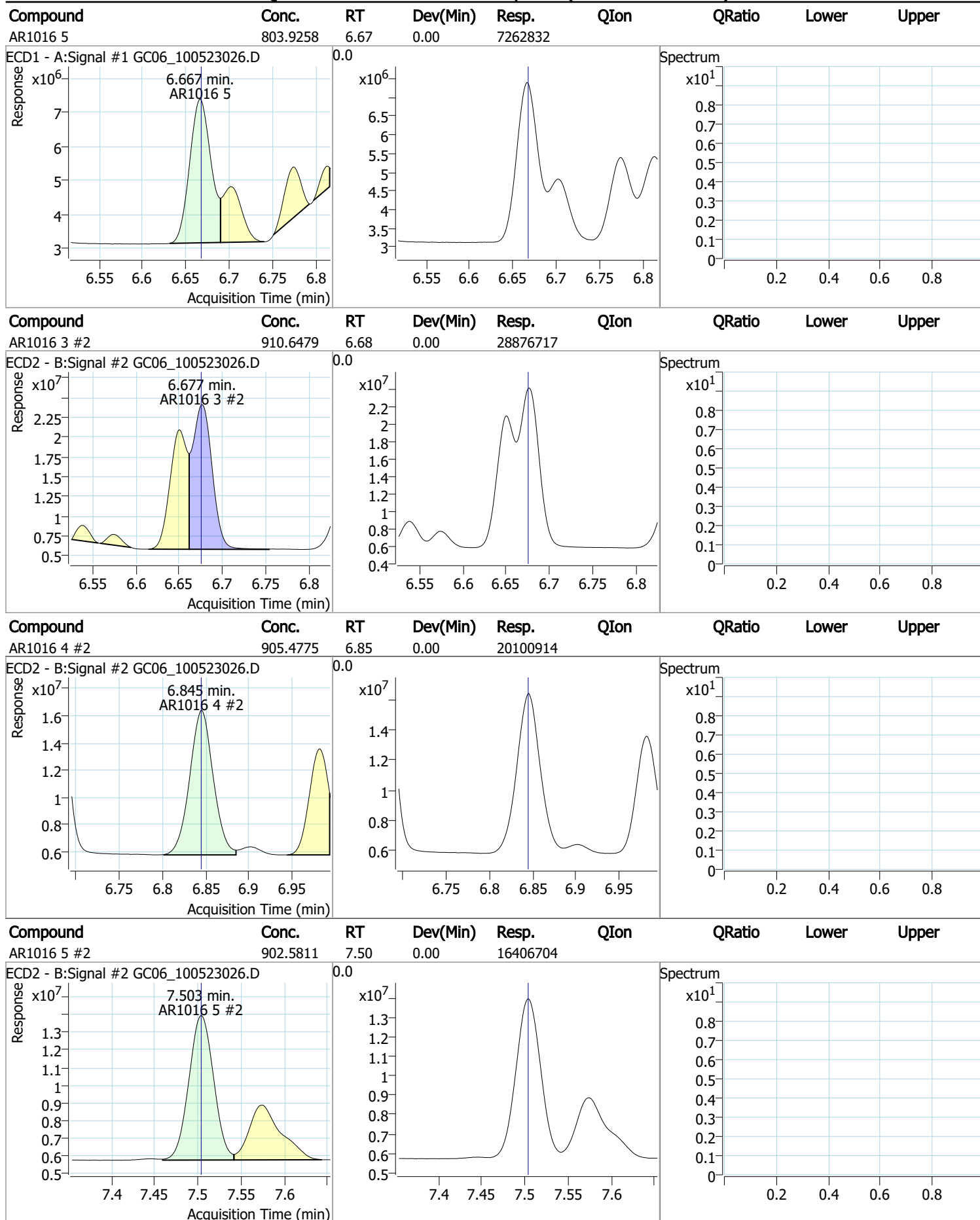
Quantitation Results Report (Not Reviewed)



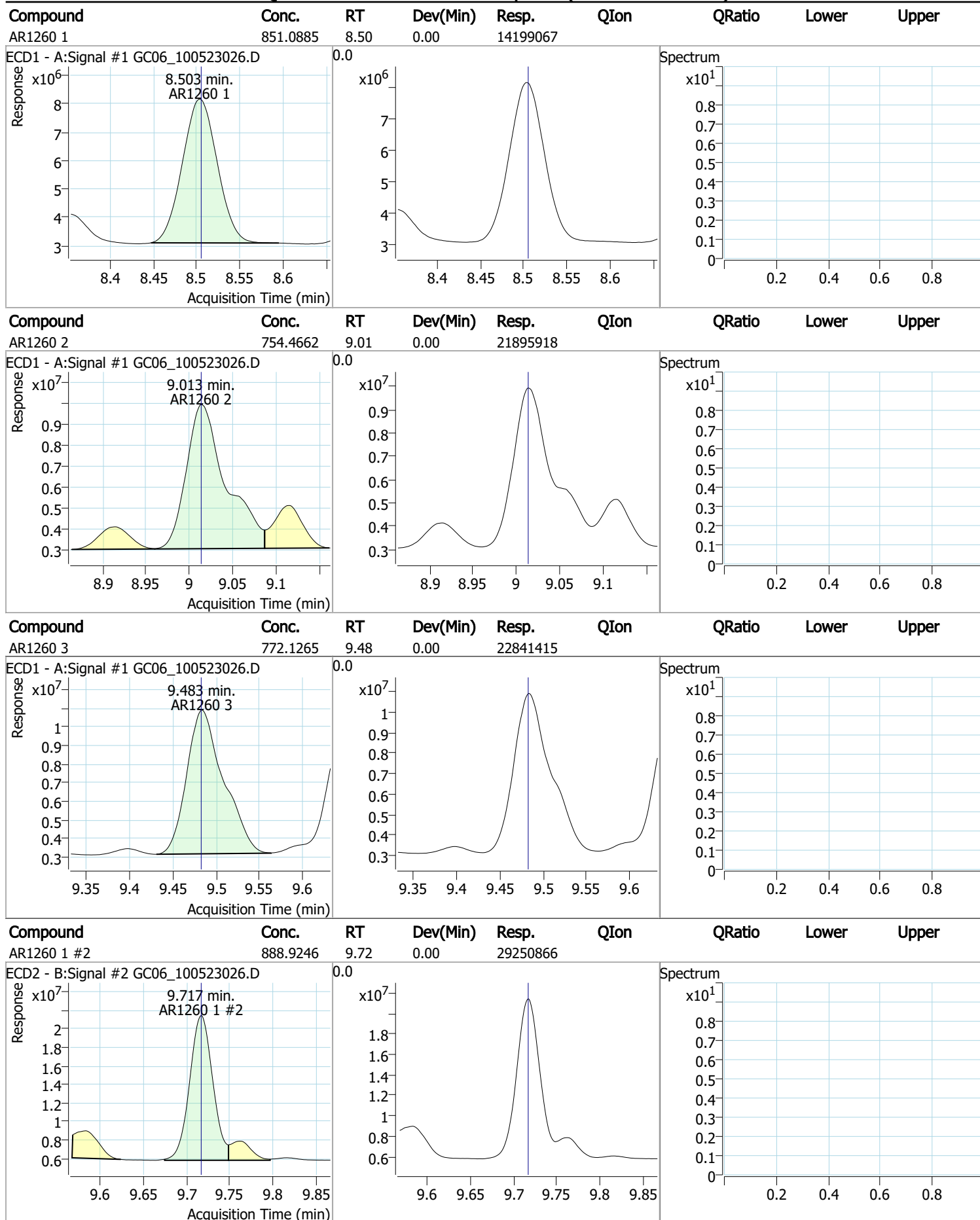
Quantitation Results Report (Not Reviewed)



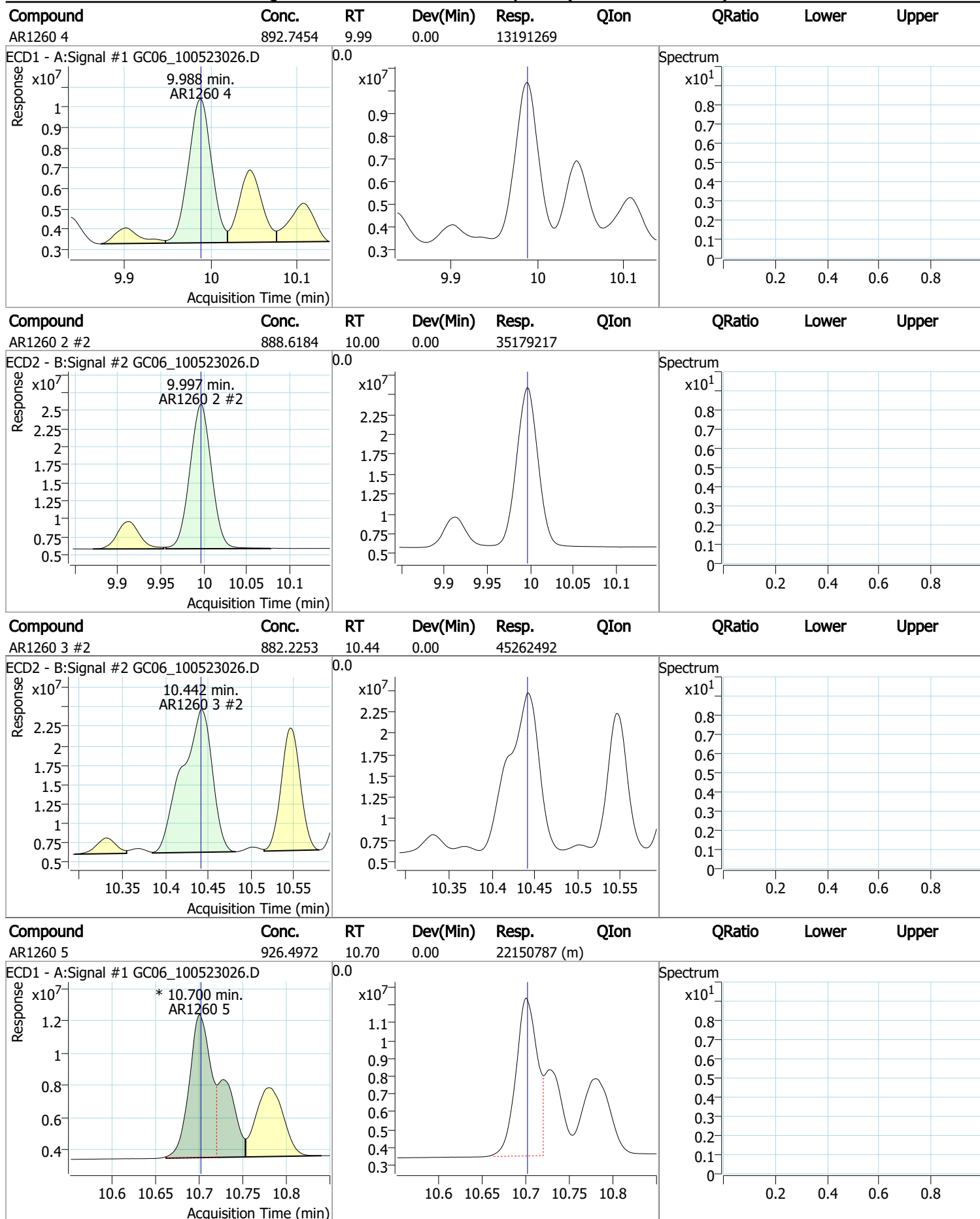
Quantitation Results Report (Not Reviewed)



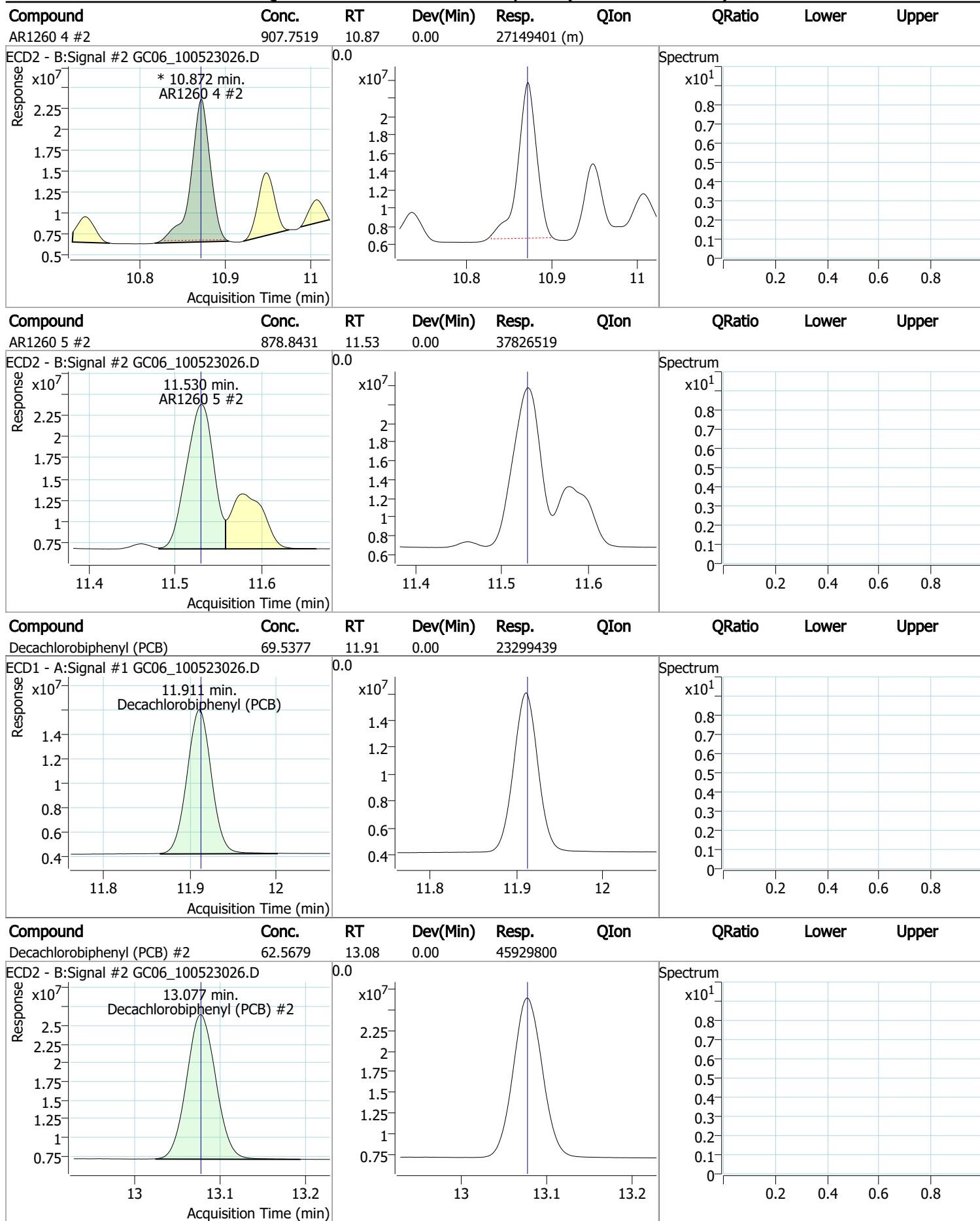
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



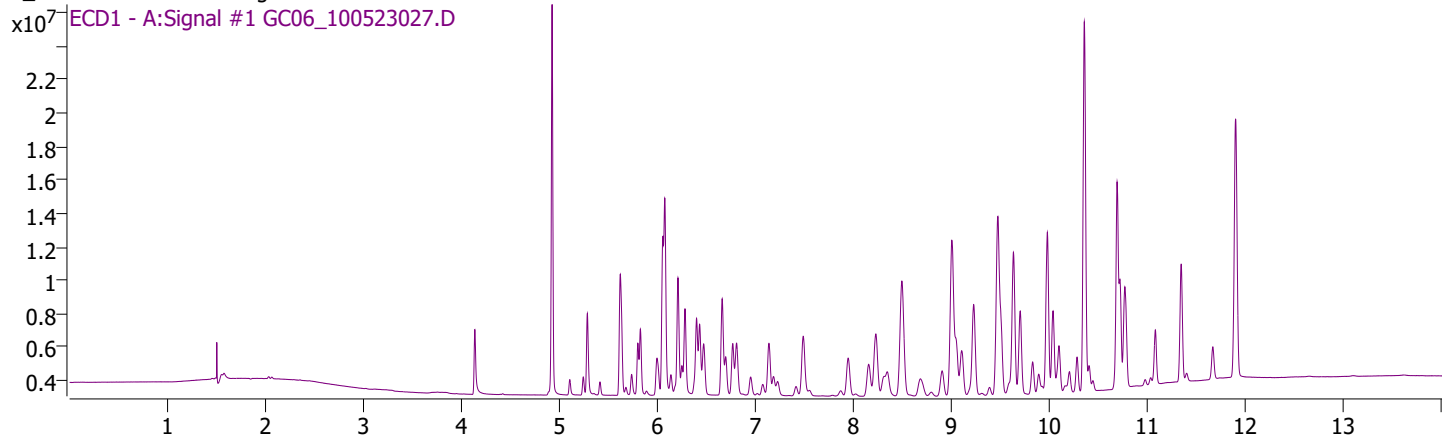
Quantitation Results Report (Not Reviewed)



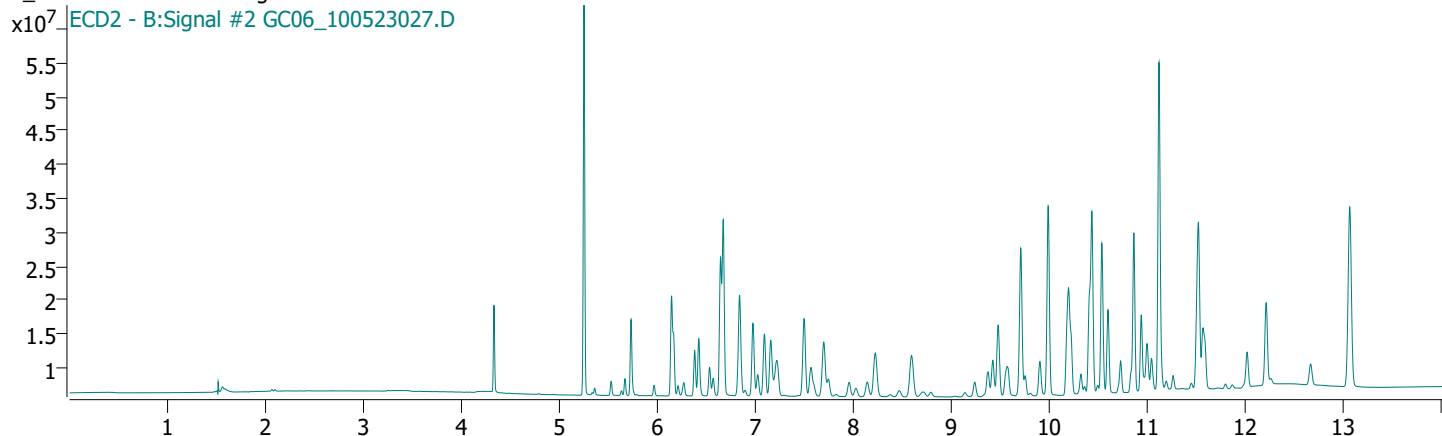
Quantitation Results Report (Not Reviewed)

Data File	GC06_100523027.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 3:51:03 PM
Sample Name	ICAL, S18462	Instrument	SVOA-GC06
Vial	18	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	1500 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:25:48 PM
Ref Library			

GC06_100523027.D No MS Signals



GC06_100523027.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.140	0.0	4815017.15 2	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.336	0.0	11774012.9 07	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	25525908.0 15	98.2366	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 491.18%	*	
S TCMX (PCB) #2	5.255	0.0	59986732.5 73	99.4054	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 497.03%	*	
S Decachlorobiphenyl (PCB)	11.912	0.0	31253747.8 71	93.9251	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 469.63%	*	
S Decachlorobiphenyl (PCB) #2	13.078	0.0	62517263.5 50	84.2470	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 421.24%	*	

Target Compounds

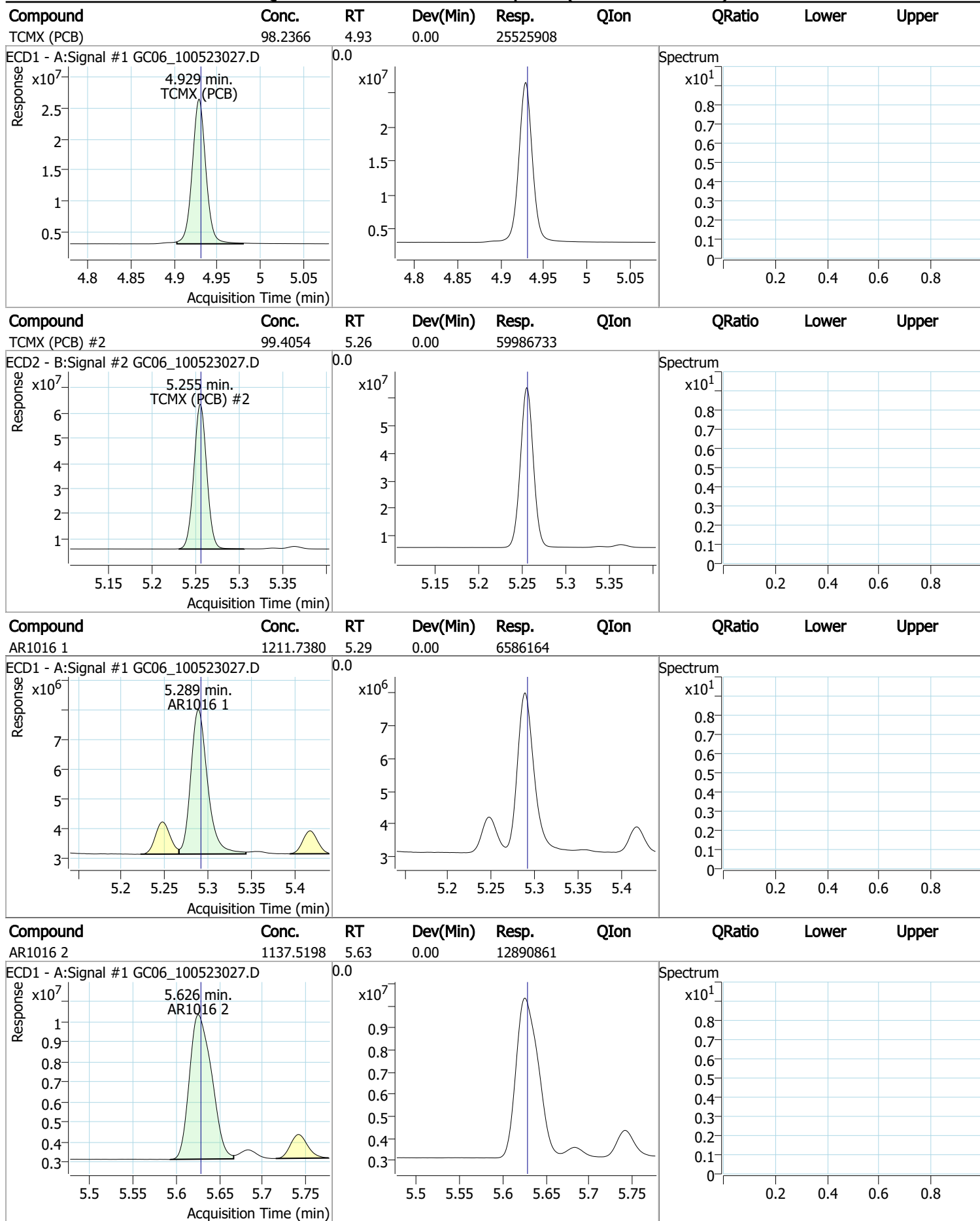
QValue

Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.289	0.0	6586163.75 6	1211.7380	ng/ml	100
T AR1016 2	5.626	0.0	12890860.6 30	1137.5198	ng/ml	100
T AR1016 1 #2	5.736	0.0	13954296.6 17	1189.1868	ng/ml	100
T AR1016 3	6.080	0.0	17221052.4 60	1184.0001	ng/ml m	100
T AR1016 2 #2	6.149	0.0	29648640.8 20	1107.8822	ng/ml	100
T AR1016 4	6.215	0.0	10384967.3 57	1179.8606	ng/ml	100
T AR1016 5	6.667	0.0	9799525.75 2	1092.2443	ng/ml	100
T AR1016 3 #2	6.678	0.0	39696962.5 77	1238.3916	ng/ml	100
T AR1016 4 #2	6.844	0.0	27572829.1 85	1228.6869	ng/ml	100
T AR1016 5 #2	7.503	0.0	22497136.5 13	1224.3066	ng/ml	100
T AR1260 1	8.503	0.0	19045946.5 33	1149.5352	ng/ml	100
T AR1260 2	9.013	0.0	29515062.0 41	1024.0593	ng/ml	100
T AR1260 3	9.483	0.0	31094718.3 21	1058.4171	ng/ml	100
T AR1260 1 #2	9.717	0.0	40496488.9 41	1217.4233	ng/ml	100
T AR1260 4	9.988	0.0	18008082.3 00	1227.1942	ng/ml	100
T AR1260 2 #2	9.997	0.0	48545407.9 71	1213.0406	ng/ml	100
T AR1260 3 #2	10.443	0.0	63512651.6 63	1224.6144	ng/ml	100
T AR1260 5	10.701	0.0	30530416.1 77	1285.8563	ng/ml	100
T AR1260 4 #2	10.873	0.0	38158381.3 00	1262.1034	ng/ml m	100
T AR1260 5 #2	11.531	0.0	53650716.2 80	1233.0723	ng/ml	100

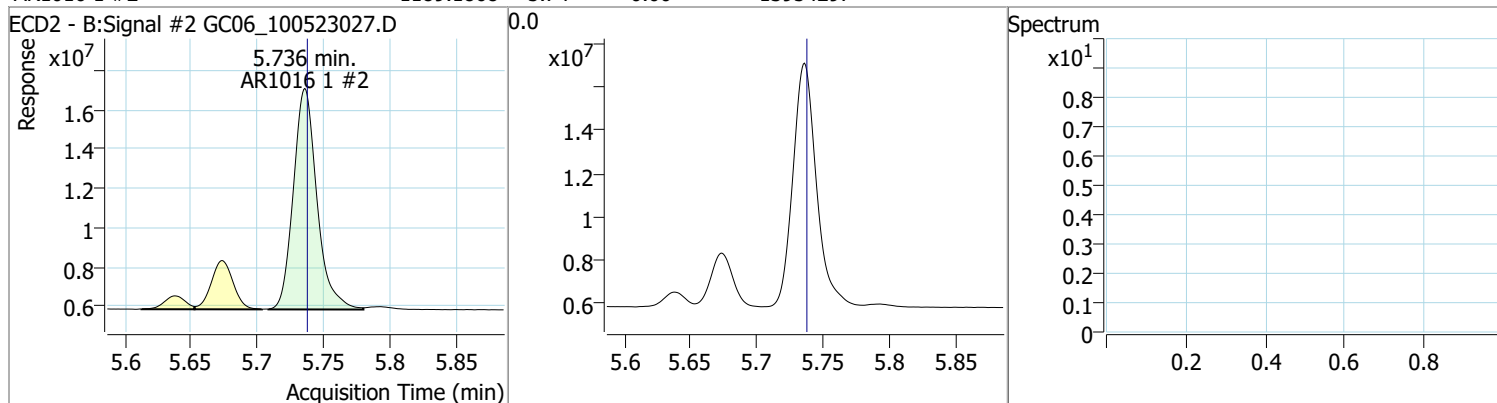
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

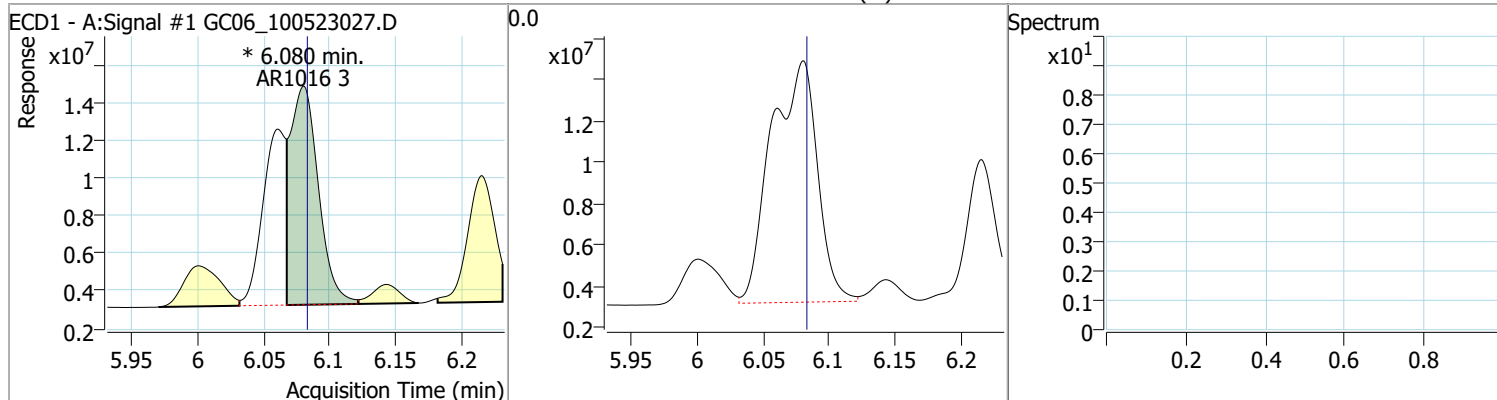


Quantitation Results Report (Not Reviewed)

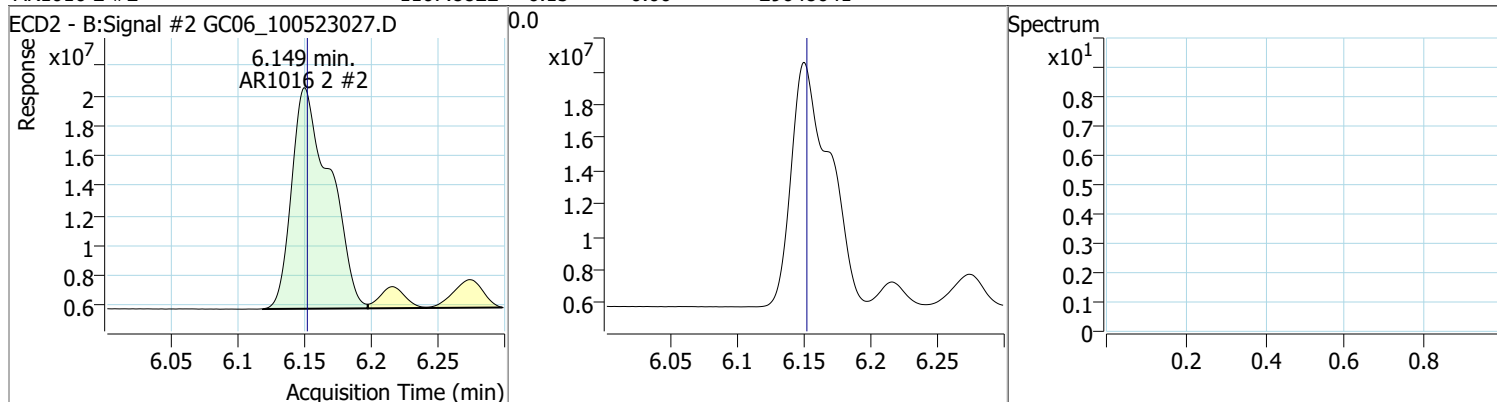
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1189.1868	5.74	0.00	13954297				



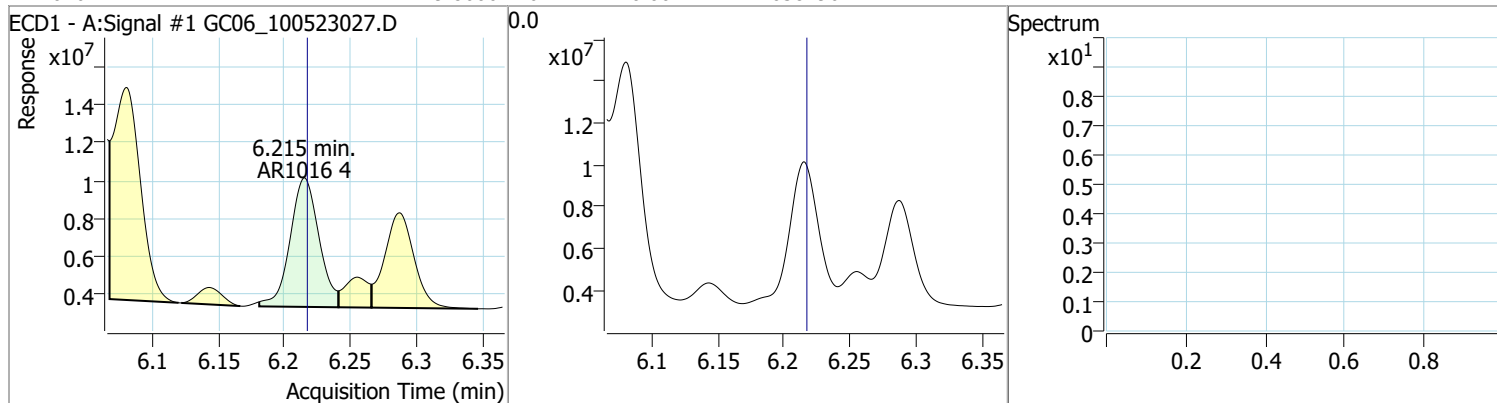
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1184.0001	6.08	0.00	17221052 (m)				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	1107.8822	6.15	0.00	29648641				



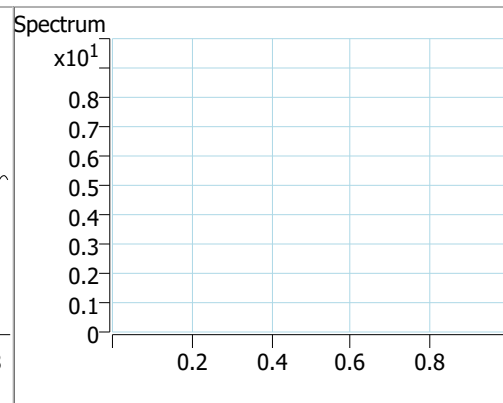
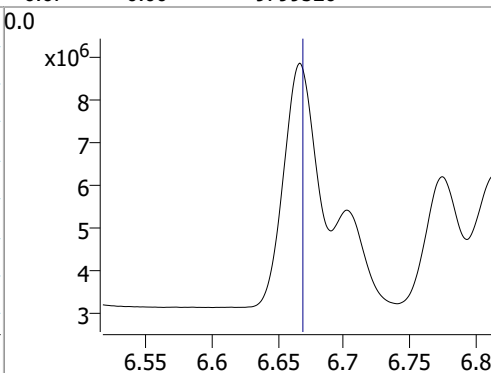
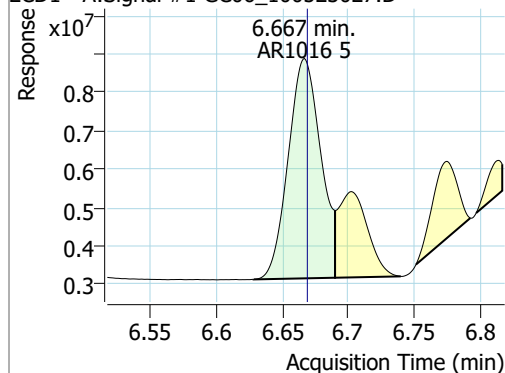
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1179.8606	6.22	0.00	10384967				



Quantitation Results Report (Not Reviewed)

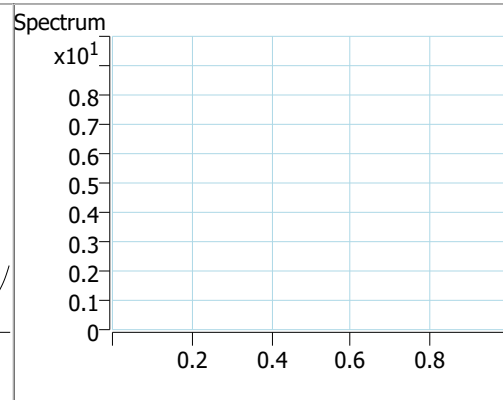
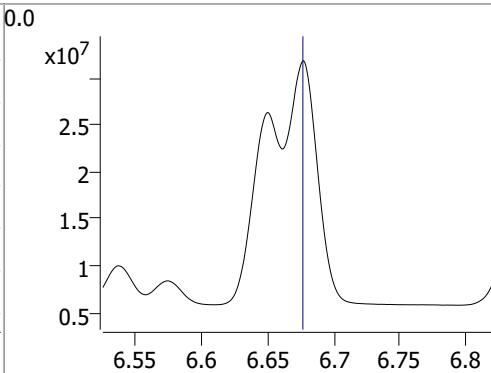
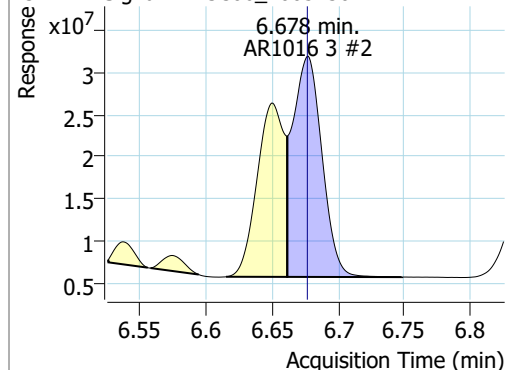
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	1092.2443	6.67	0.00	9799526				

ECD1 - A:Signal #1 GC06_100523027.D



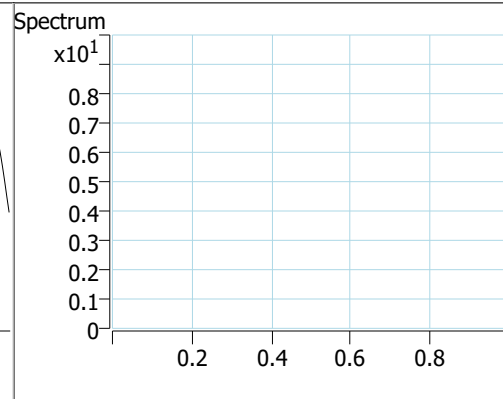
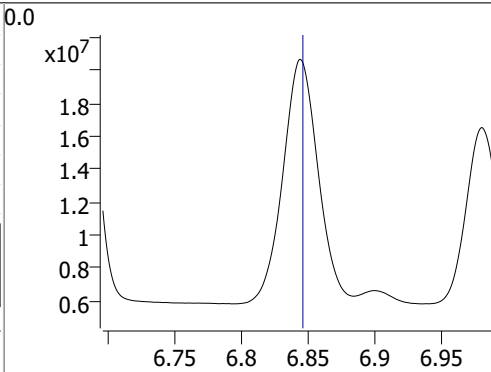
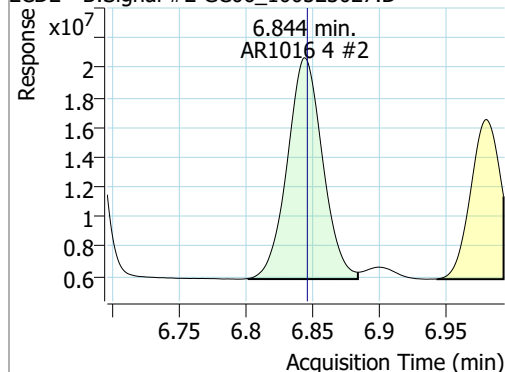
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	1238.3916	6.68	0.00	39696963				

ECD2 - B:Signal #2 GC06_100523027.D



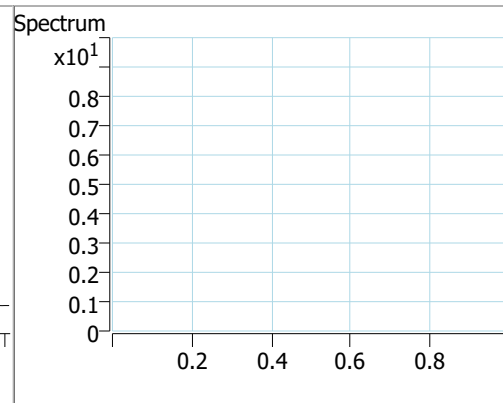
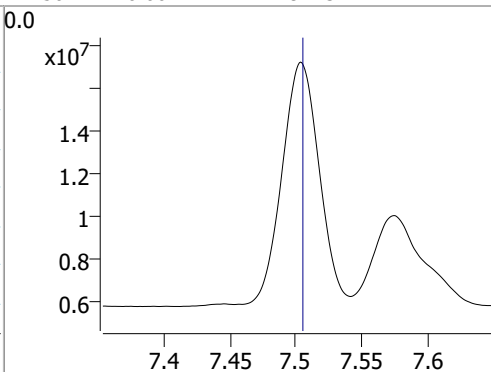
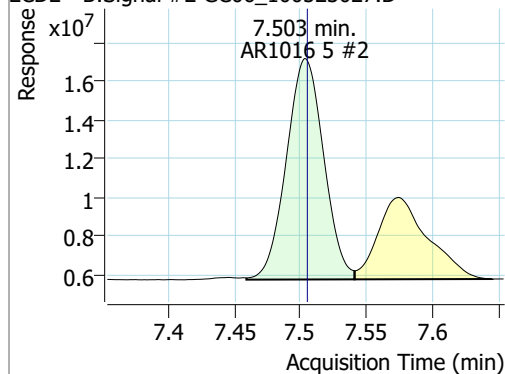
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	1228.6869	6.84	0.00	27572829				

ECD2 - B:Signal #2 GC06_100523027.D



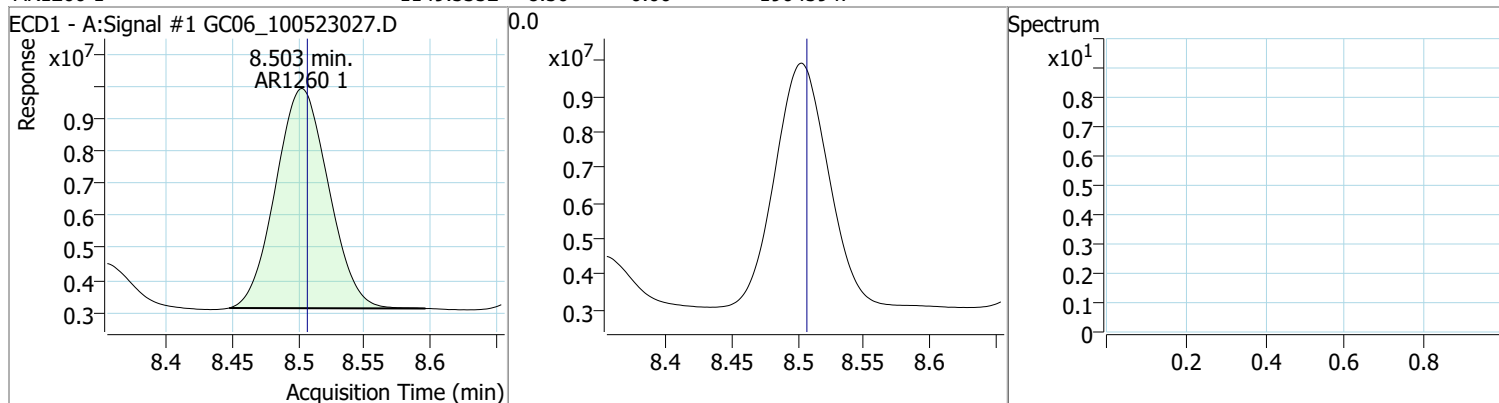
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	1224.3066	7.50	0.00	22497137				

ECD2 - B:Signal #2 GC06_100523027.D

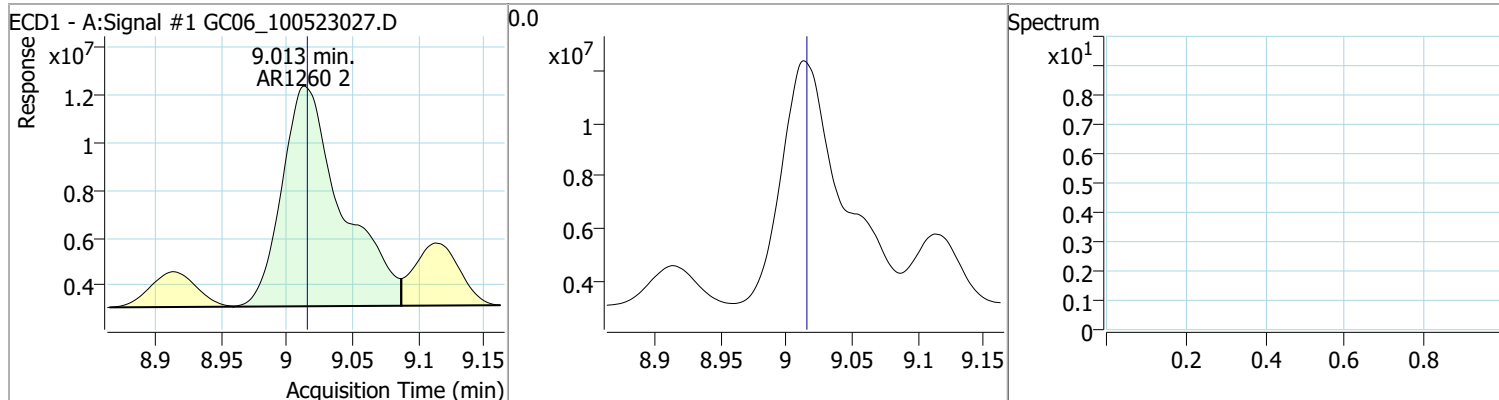


Quantitation Results Report (Not Reviewed)

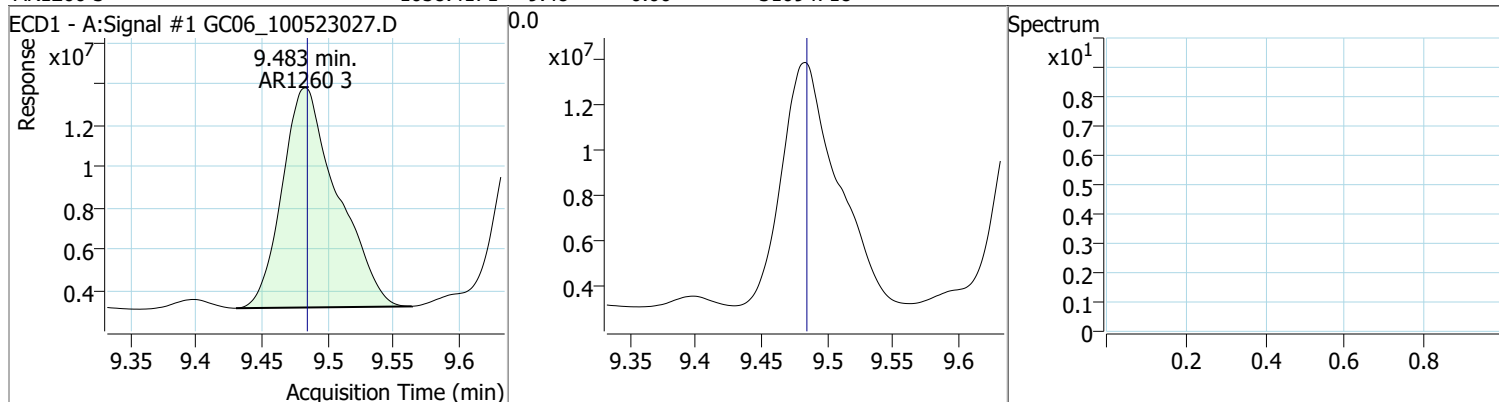
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1149.5352	8.50	0.00	19045947				



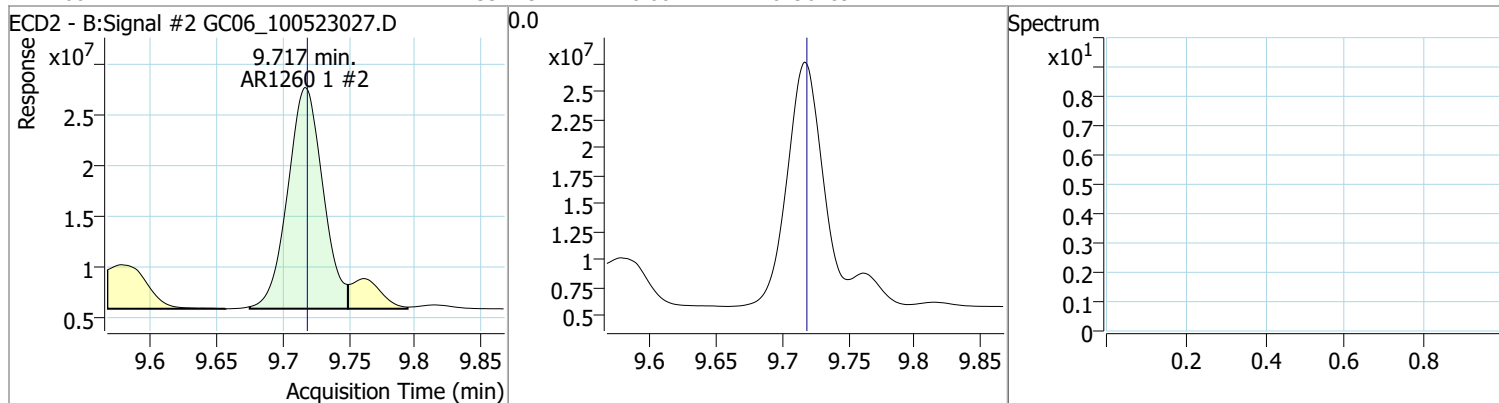
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1024.0593	9.01	0.00	29515062				



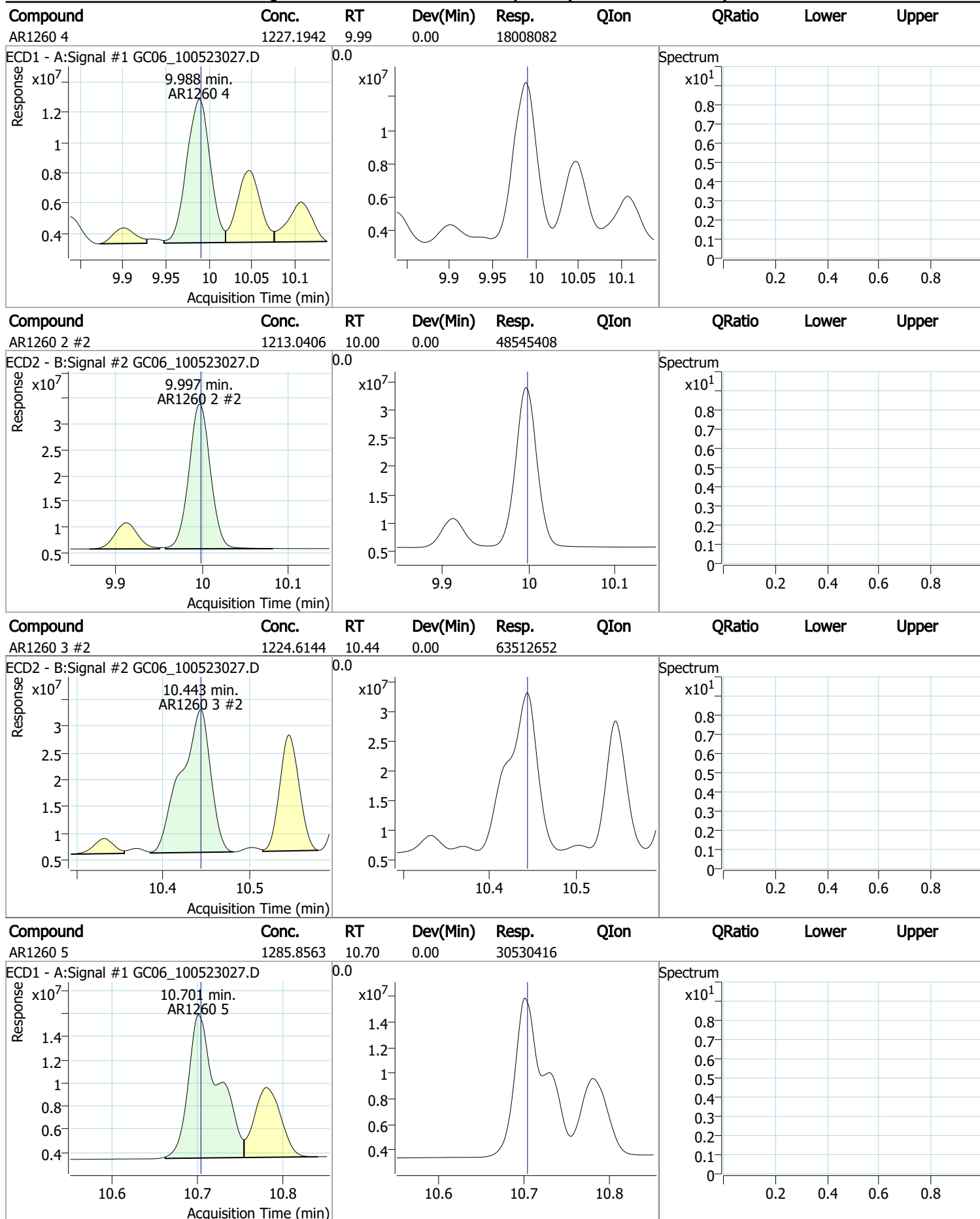
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1058.4171	9.48	0.00	31094718				



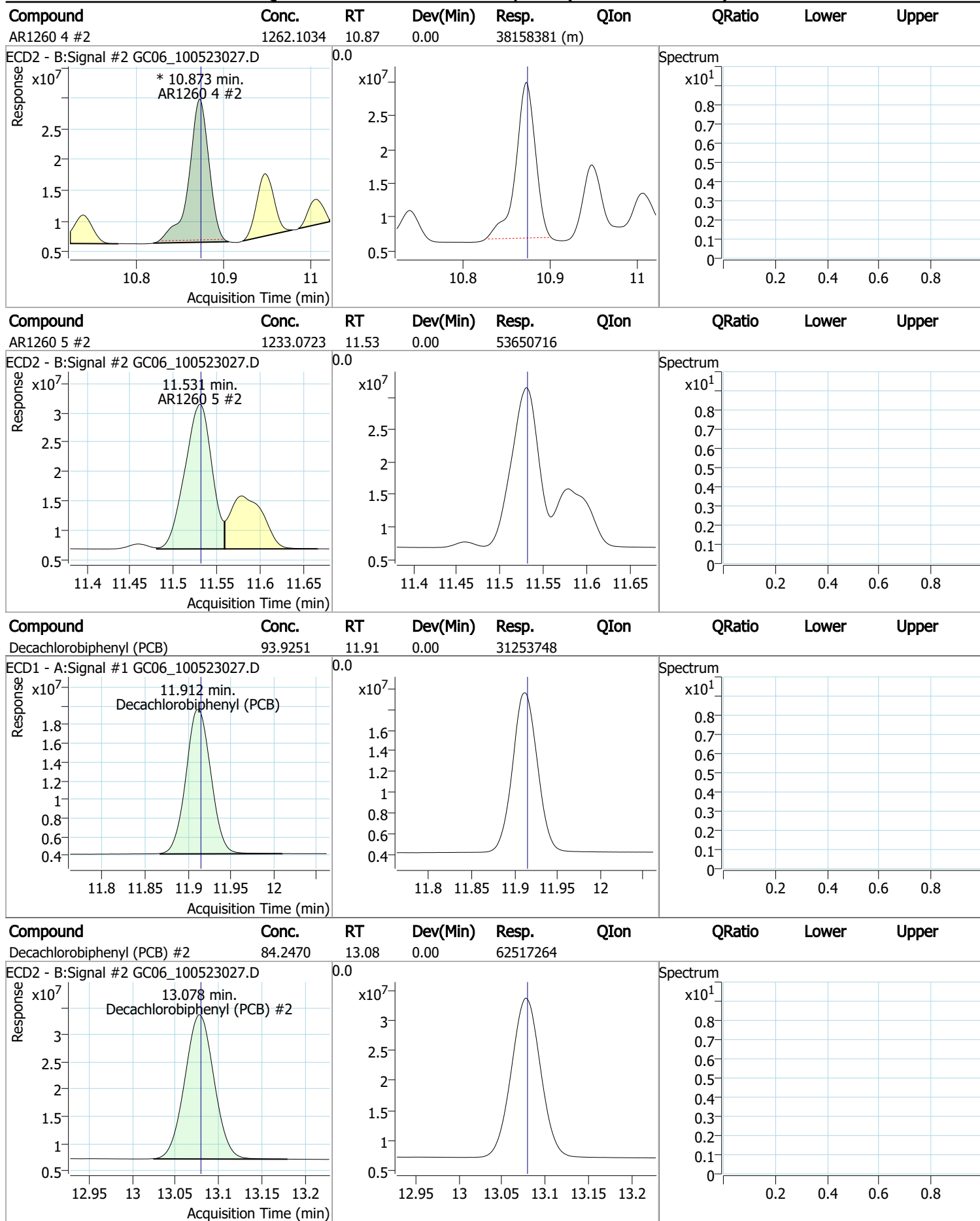
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1217.4233	9.72	0.00	40496489				



Quantitation Results Report (Not Reviewed)

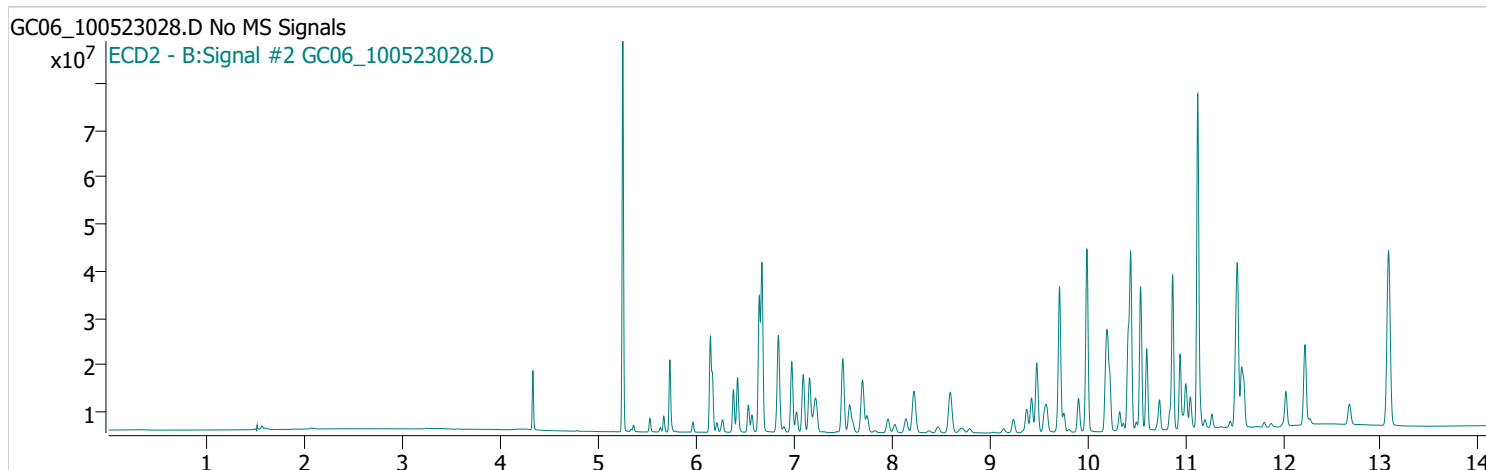
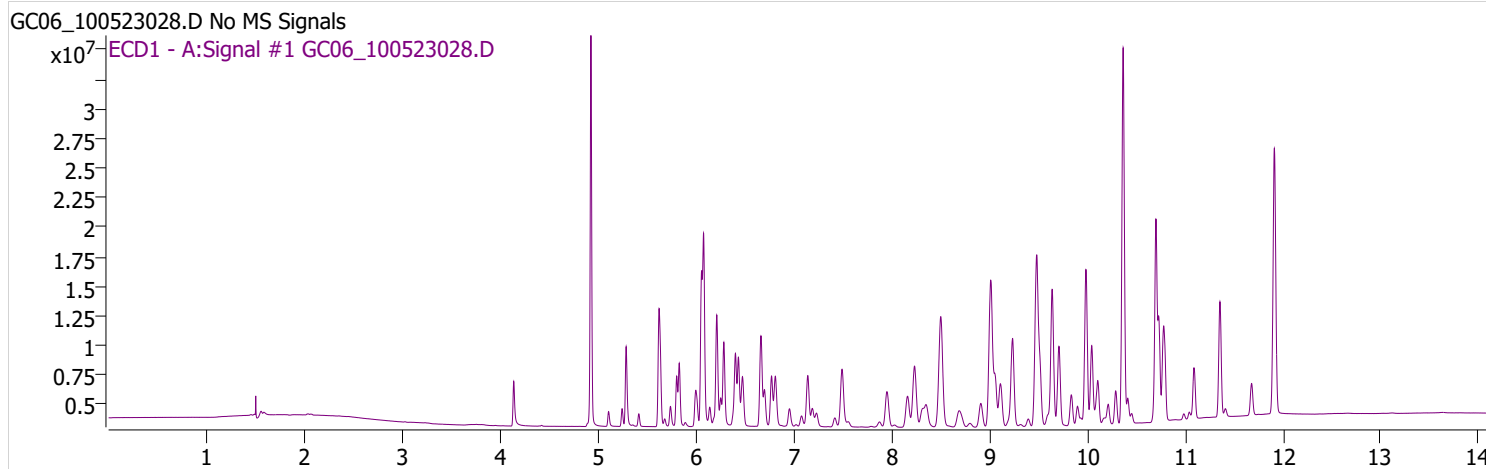


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_100523028.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 4:09:16 PM
Sample Name	ICAL, S18463	Instrument	SVOA-GC06
Vial	19	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	2000 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:25:48 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.141	0.0	4856662.210	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.337	0.0	11598832.634	20.0000	ng/ml	0.001
System Monitoring Compounds						
S TCMX (PCB)	4.929	0.0	35832803.605	136.7203	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 683.60%	*	
S TCMX (PCB) #2	5.255	0.0	84683525.491	142.4504	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 712.25%	*	
S Decachlorobiphenyl (PCB)	11.913	0.0	43666236.135	130.1024	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 650.51%	*	
S Decachlorobiphenyl (PCB) #2	13.080	0.0	88194217.648	120.6438	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 603.22%	*	

Target Compounds

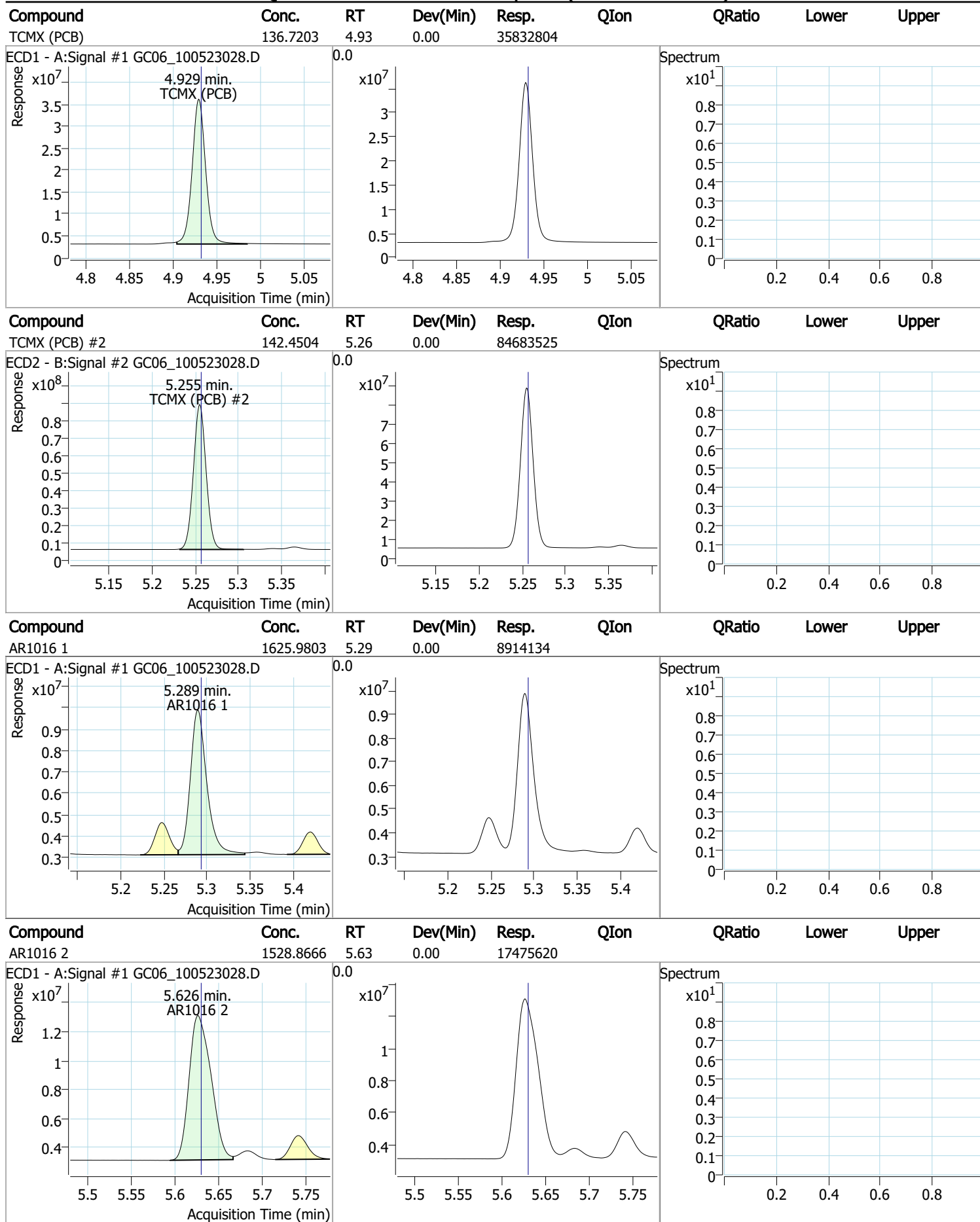
QValue

Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.289	0.0	8914133.72 8	1625.9803	ng/ml	100
T AR1016 2	5.626	0.0	17475619.6 22	1528.8666	ng/ml	100
T AR1016 1 #2	5.736	0.0	19219693.7 69	1662.6423	ng/ml	100
T AR1016 3	6.080	0.0	24307951.7 58	1656.9154	ng/ml m	100
T AR1016 2 #2	6.150	0.0	40497725.7 95	1536.1359	ng/ml	100
T AR1016 4	6.215	0.0	14292815.8 51	1609.9163	ng/ml	100
T AR1016 5	6.667	0.0	13327250.7 82	1472.7032	ng/ml	100
T AR1016 3 #2	6.677	0.0	55906551.4 12	1770.4091	ng/ml	100
T AR1016 4 #2	6.845	0.0	37989681.0 25	1718.4455	ng/ml	100
T AR1016 5 #2	7.503	0.0	30999832.3 46	1712.5076	ng/ml	100
T AR1260 1	8.504	0.0	25513902.9 74	1526.7099	ng/ml	100
T AR1260 2	9.014	0.0	39900589.3 34	1372.5263	ng/ml	100
T AR1260 3	9.484	0.0	42187335.2 44	1423.6795	ng/ml	100
T AR1260 1 #2	9.718	0.0	55881975.7 62	1705.3213	ng/ml	100
T AR1260 4	9.987	0.0	24625761.1 02	1663.7781	ng/ml	100
T AR1260 2 #2	9.998	0.0	67367604.2 92	1708.7892	ng/ml	100
T AR1260 3 #2	10.444	0.0	89217419.6 46	1746.2201	ng/ml	100
T AR1260 5	10.703	0.0	42651265.6 11	1780.9493	ng/ml	100
T AR1260 4 #2	10.873	0.0	53575507.2 25	1798.7943	ng/ml m	100
T AR1260 5 #2	11.533	0.0	76712823.9 06	1789.7453	ng/ml	100

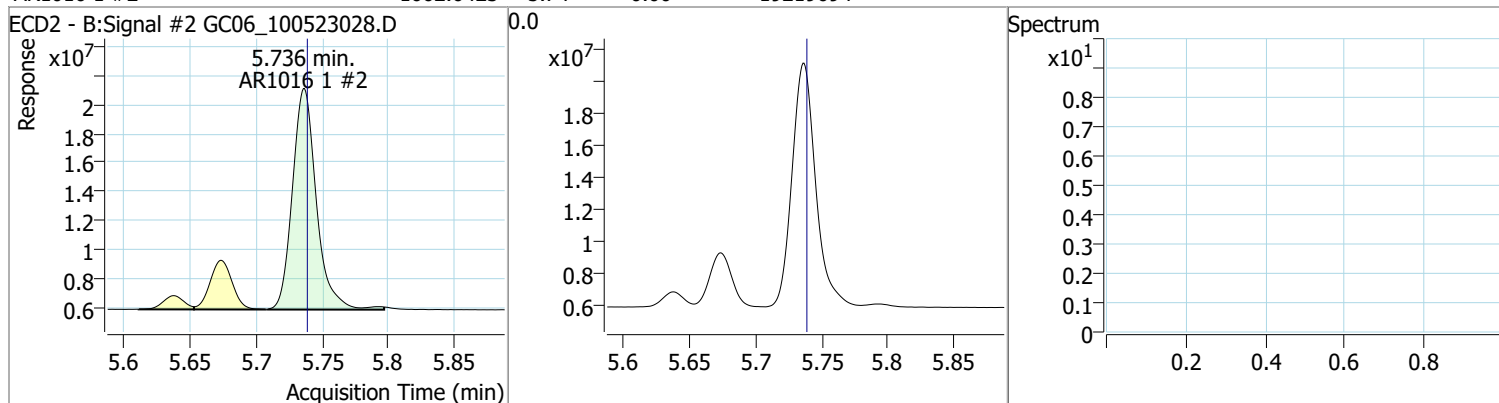
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

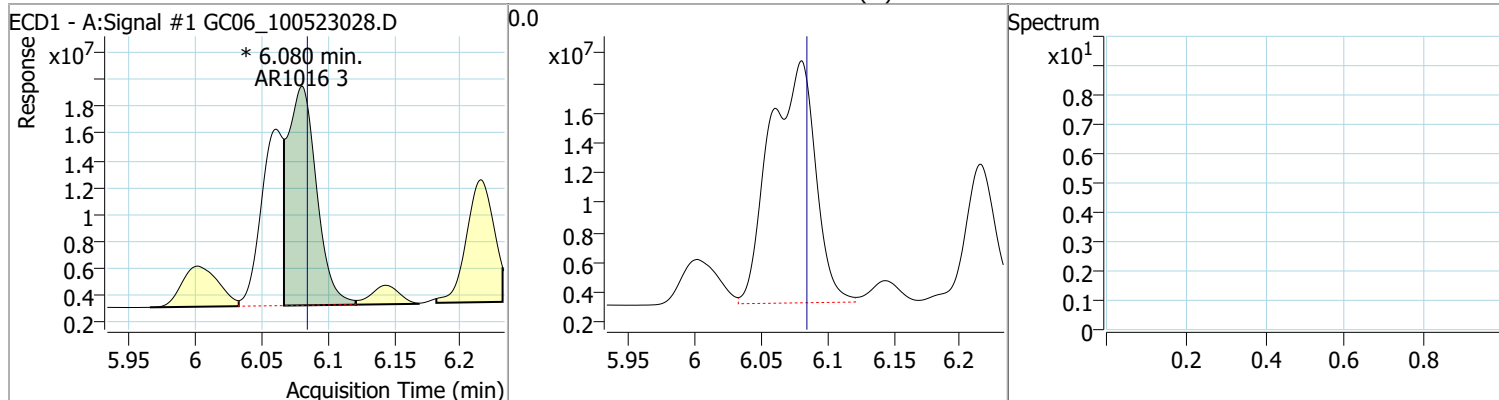


Quantitation Results Report (Not Reviewed)

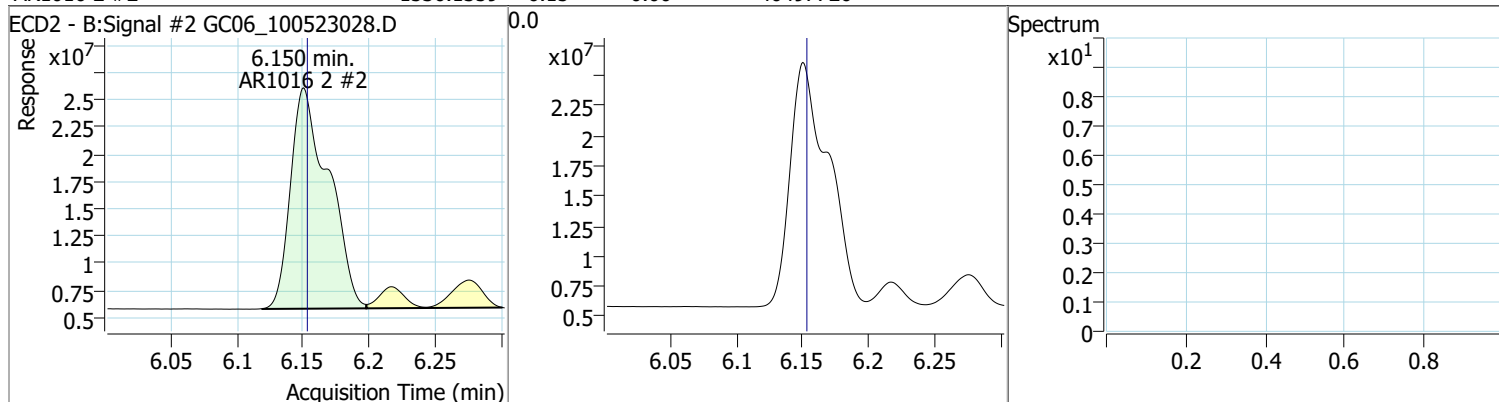
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1662.6423	5.74	0.00	19219694				



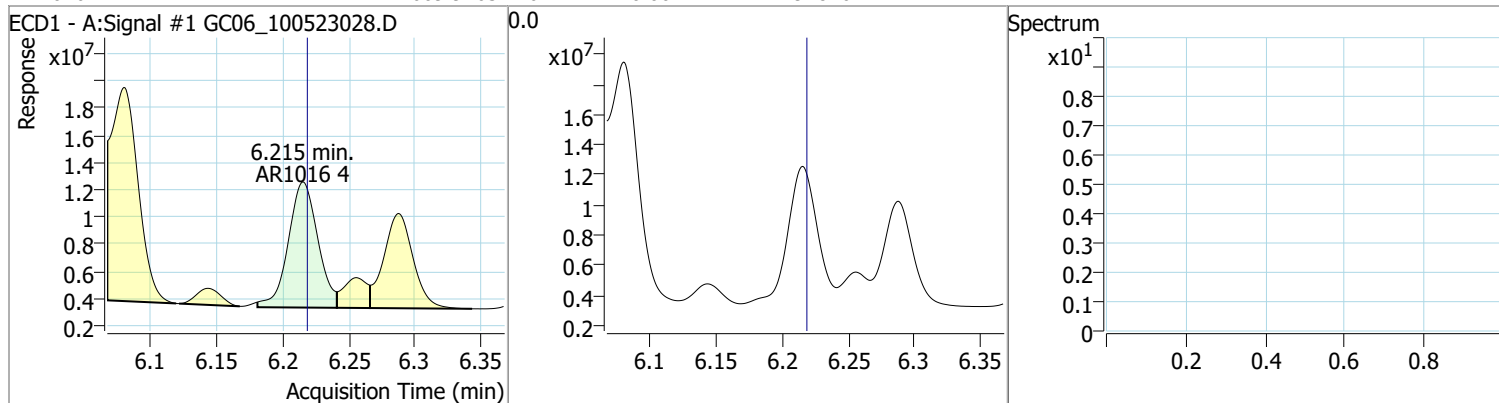
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1656.9154	6.08	0.00	24307952 (m)				



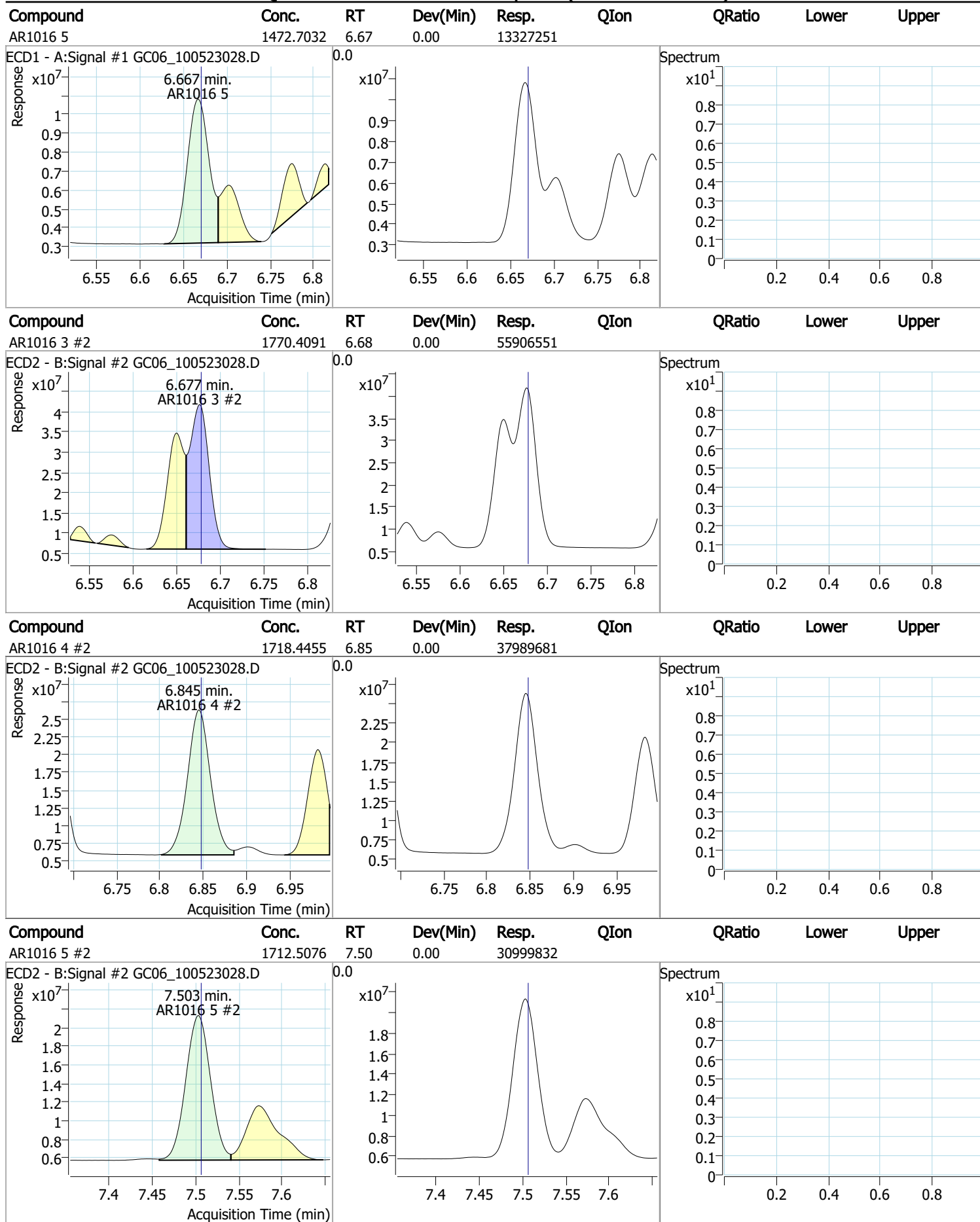
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	1536.1359	6.15	0.00	40497726				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1609.9163	6.22	0.00	14292816				

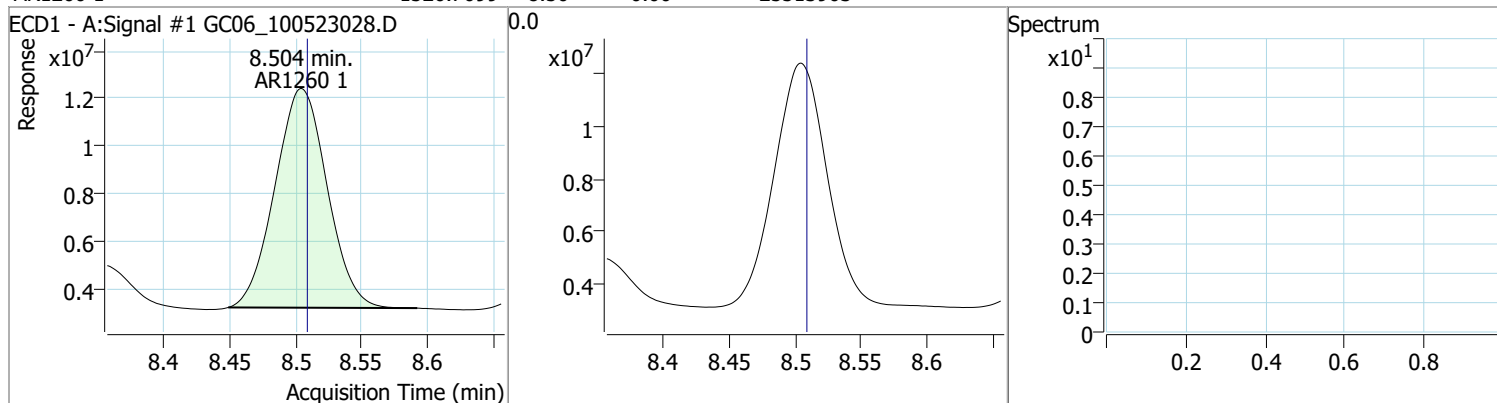


Quantitation Results Report (Not Reviewed)

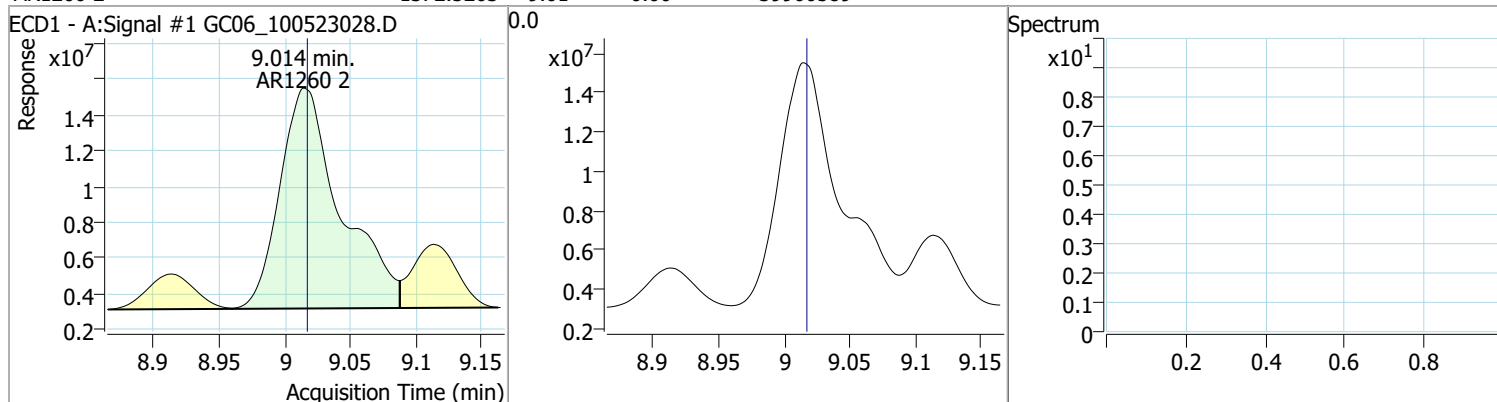


Quantitation Results Report (Not Reviewed)

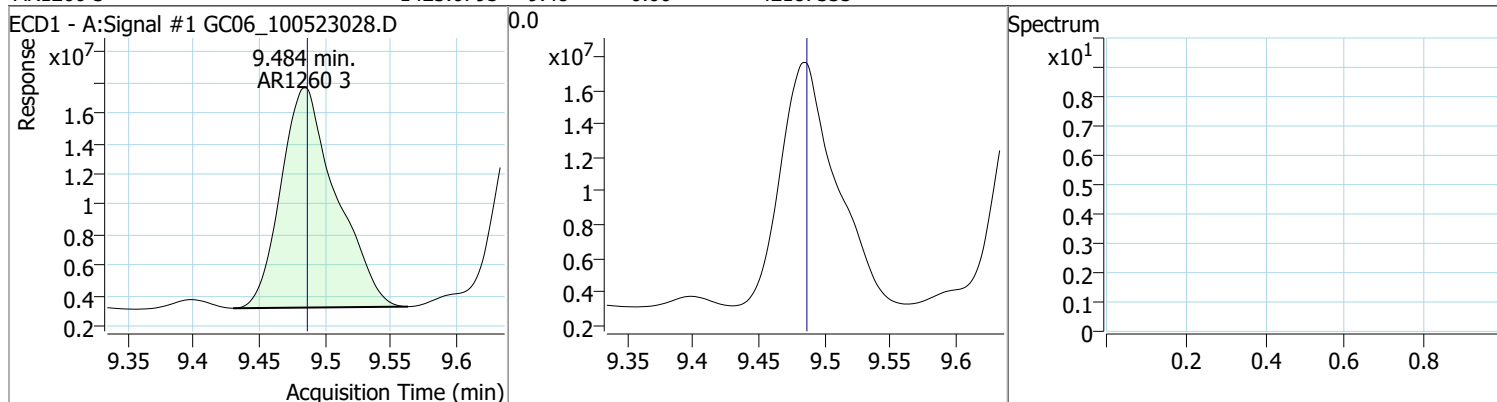
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1526.7099	8.50	0.00	25513903				



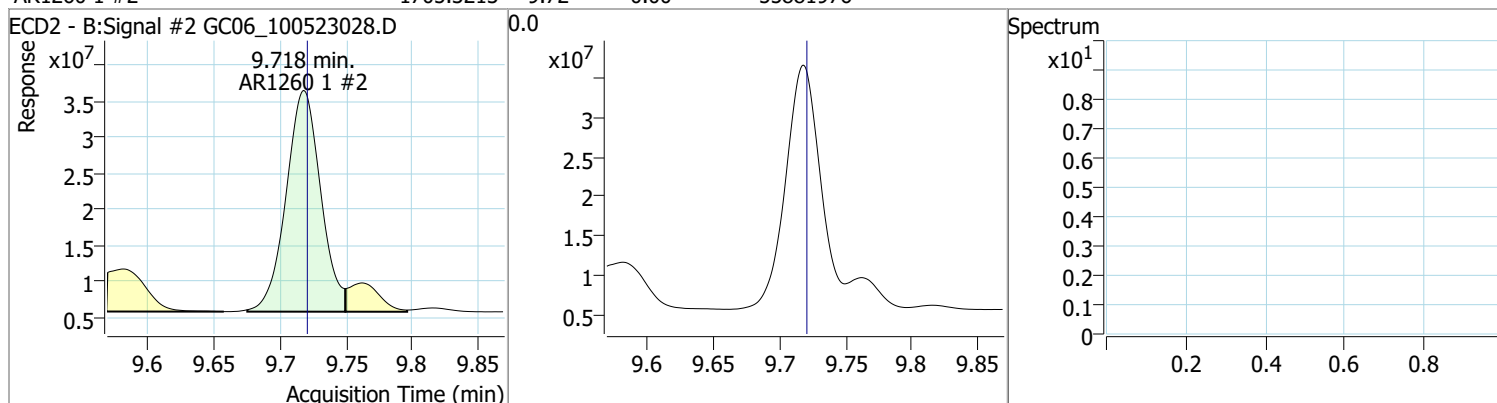
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1372.5263	9.01	0.00	39900589				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1423.6795	9.48	0.00	42187335				

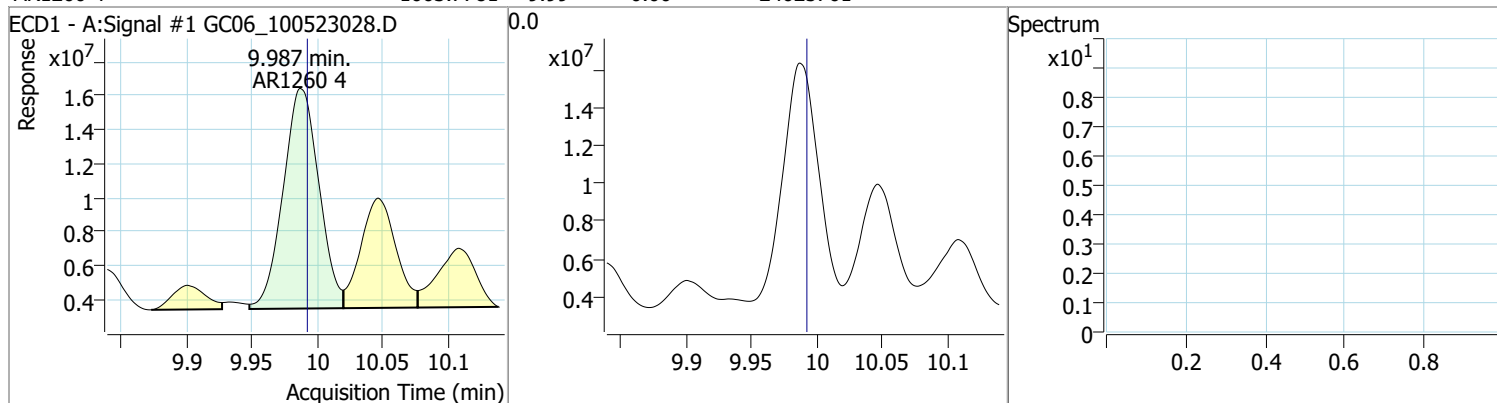


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1705.3213	9.72	0.00	55881976				

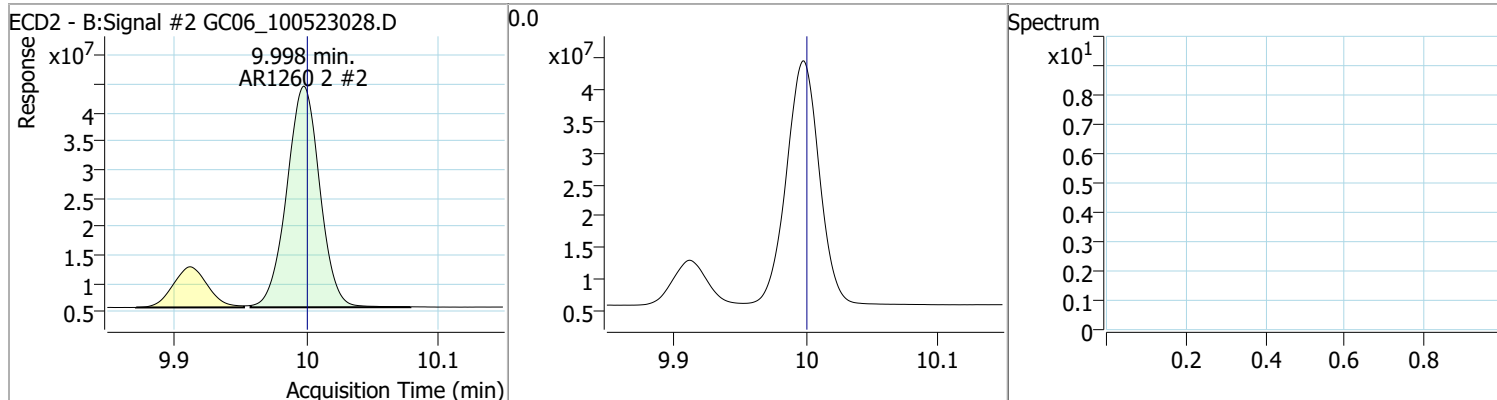


Quantitation Results Report (Not Reviewed)

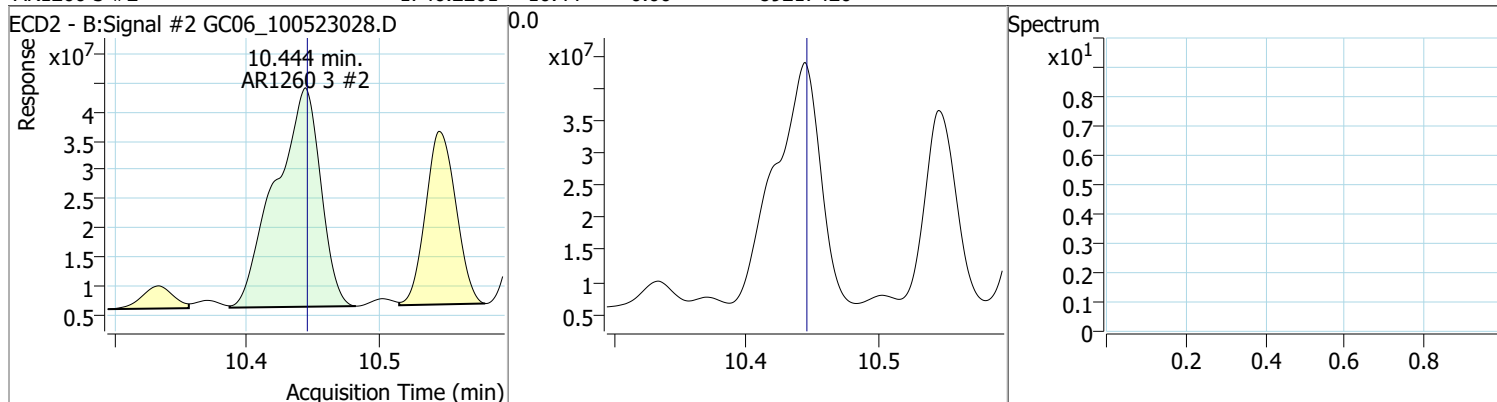
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	1663.7781	9.99	0.00	24625761				



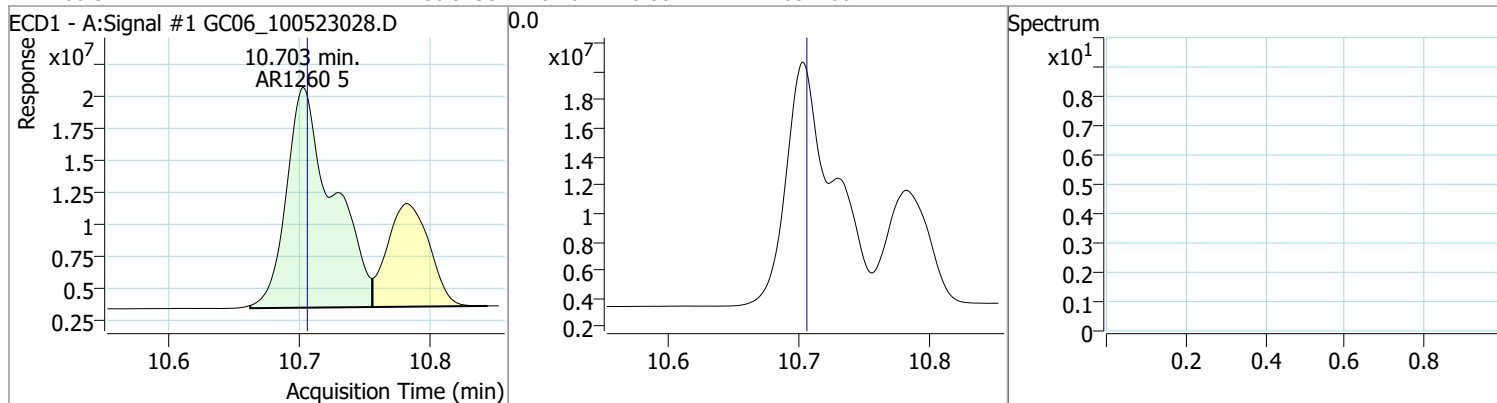
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1708.7892	10.00	0.00	67367604				



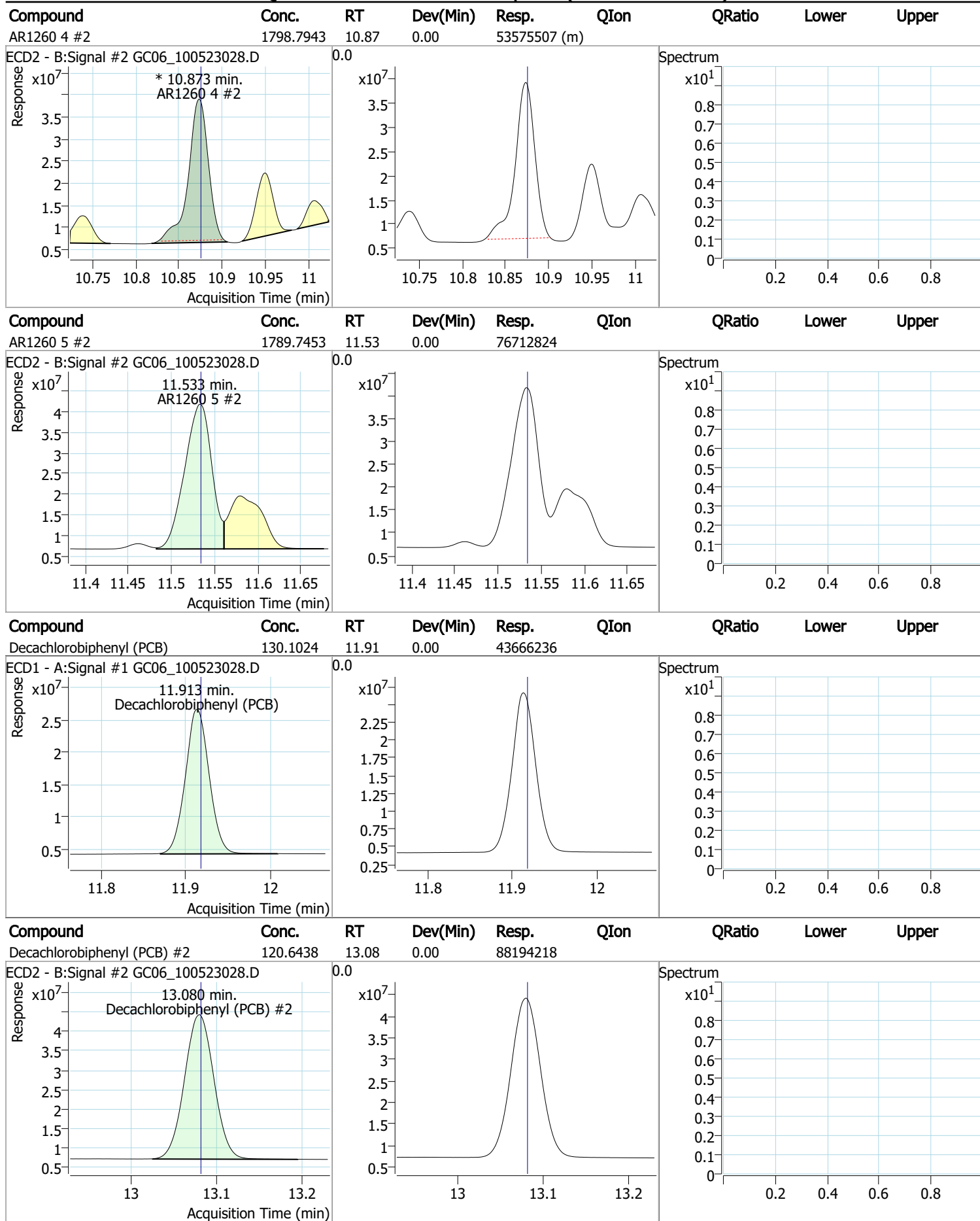
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1746.2201	10.44	0.00	89217420				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1780.9493	10.70	0.00	42651266				



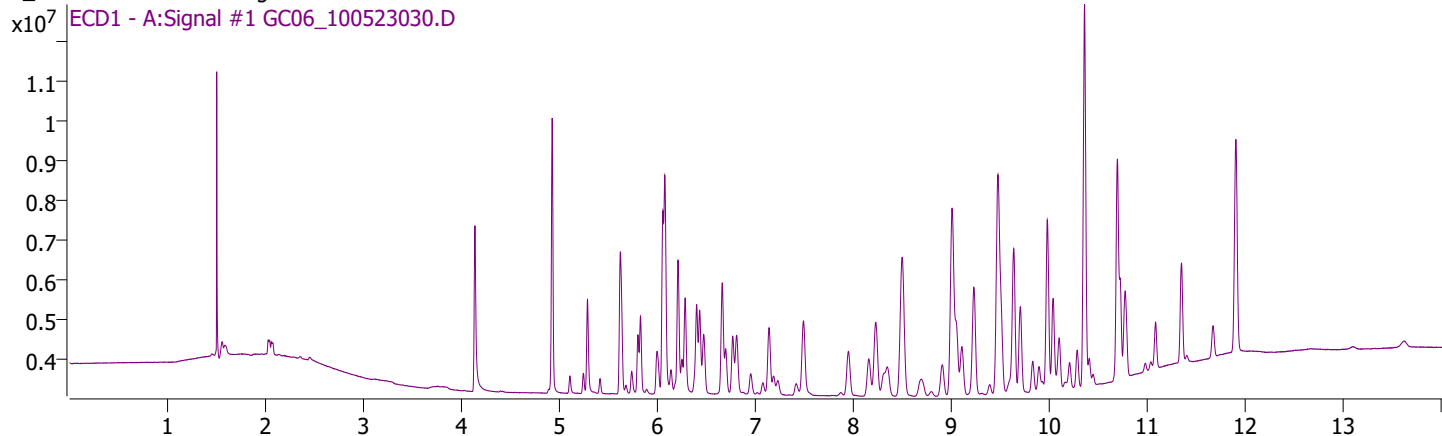
Quantitation Results Report (Not Reviewed)



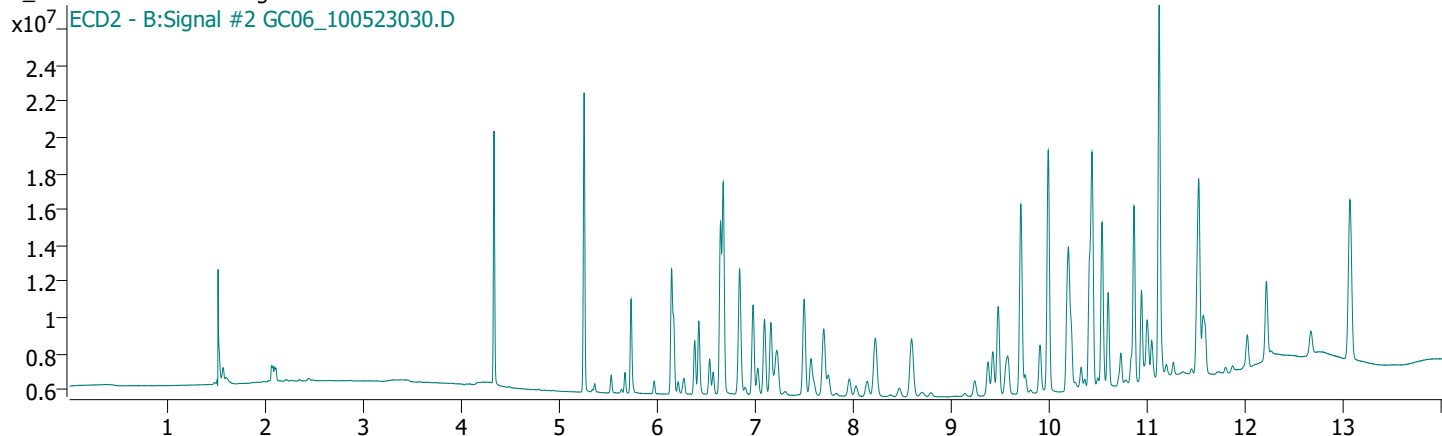
Quantitation Results Report (Not Reviewed)

Data File	GC06_100523030.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 4:45:47 PM
Sample Name	ICV, S18851	Instrument	SVOA-GC06
Vial	20	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	500 PPB PCB ICV
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			

GC06_100523030.D No MS Signals



GC06_100523030.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.141	0.0	5358610.859	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.336	0.0	12870863.008	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.930	0.0	7992450.148	27.6387	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 138.19%		
S TCMX (PCB) #2	5.256	0.0	17763846.894	27.8586	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 139.29%		
S Decachlorobiphenyl (PCB)	11.913	0.0	10806032.950	29.1804	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 145.90%		
S Decachlorobiphenyl (PCB) #2	13.078	0.0	20565704.536	25.3522	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 126.76%		

Target Compounds

QValue

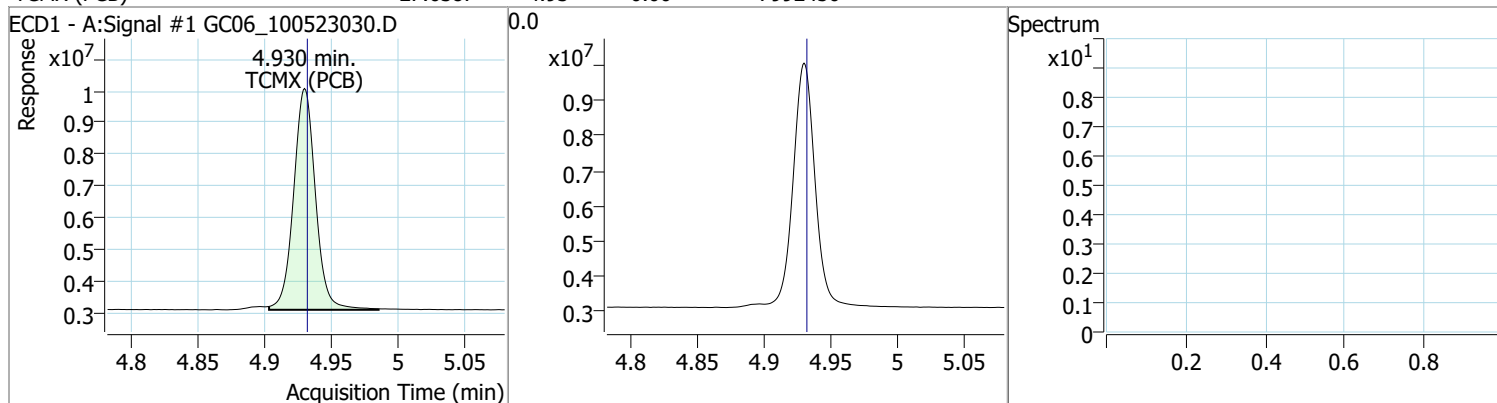
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.291	0.0	3163360.41 4	522.9624	ng/ml	100
T AR1016 2	5.626	0.0	6346931.76 3	503.2532	ng/ml	100
T AR1016 1 #2	5.736	0.0	6622461.40 4	542.8567	ng/ml	100
T AR1016 3	6.080	0.0	8246395.64 1	509.4503	ng/ml m	100
T AR1016 2 #2	6.150	0.0	14148265.2 62	533.2021	ng/ml	100
T AR1016 4	6.215	0.0	5033619.77 2	513.8680	ng/ml	100
T AR1016 5	6.667	0.0	4782344.99 7	478.9622	ng/ml	100
T AR1016 3 #2	6.677	0.0	18777318.5 91	535.8597	ng/ml	100
T AR1016 4 #2	6.844	0.0	12995899.6 28	529.7648	ng/ml	100
T AR1016 5 #2	7.503	0.0	10508280.2 96	524.5894	ng/ml	100
T AR1260 1	8.504	0.0	10130541.4 92	549.4118	ng/ml	100
T AR1260 2	9.014	0.0	15489717.7 19	482.9148	ng/ml	100
T AR1260 3	9.483	0.0	16325883.2 02	499.3356	ng/ml	100
T AR1260 1 #2	9.717	0.0	19869533.2 23	546.4227	ng/ml	100
T AR1260 4	9.987	0.0	7981426.47 8	488.7333	ng/ml	100
T AR1260 2 #2	9.997	0.0	23808926.7 91	544.2317	ng/ml	100
T AR1260 3 #2	10.443	0.0	31579562.9 56	573.4294	ng/ml	100
T AR1260 5	10.703	0.0	13332168.2 15	504.5522	ng/ml	100
T AR1260 4 #2	10.873	0.0	16541086.1 00	516.9064	ng/ml m	100
T AR1260 5 #2	11.533	0.0	23758014.1 55	499.5052	ng/ml	100

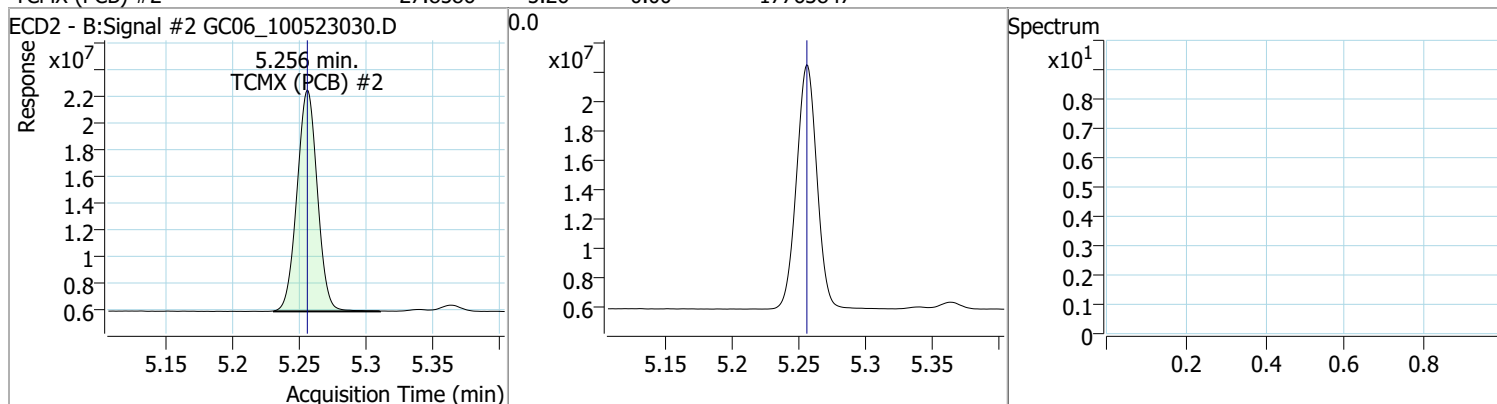
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

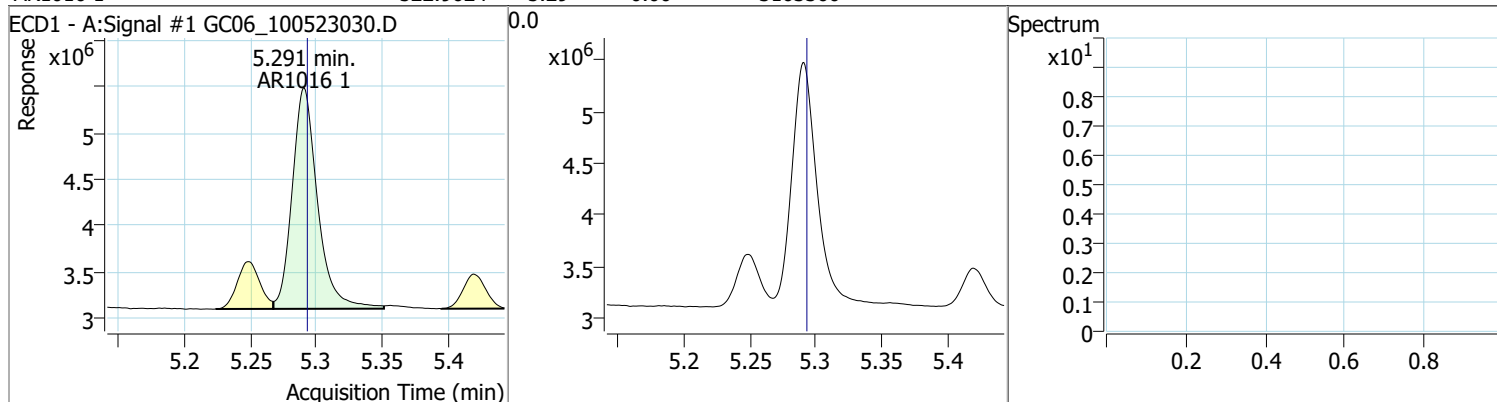
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	27.6387	4.93	0.00	7992450				



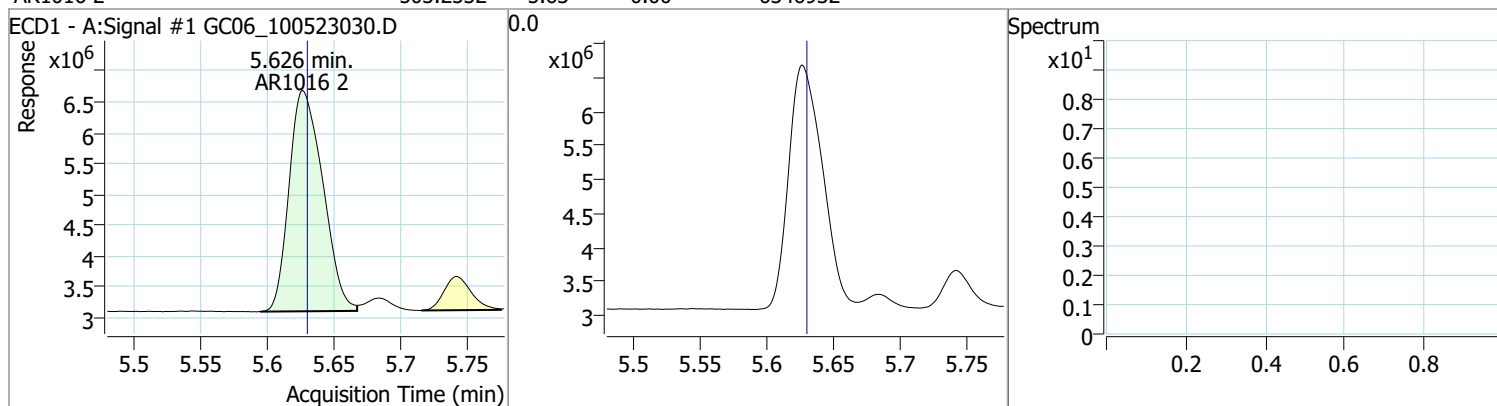
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	27.8586	5.26	0.00	17763847				



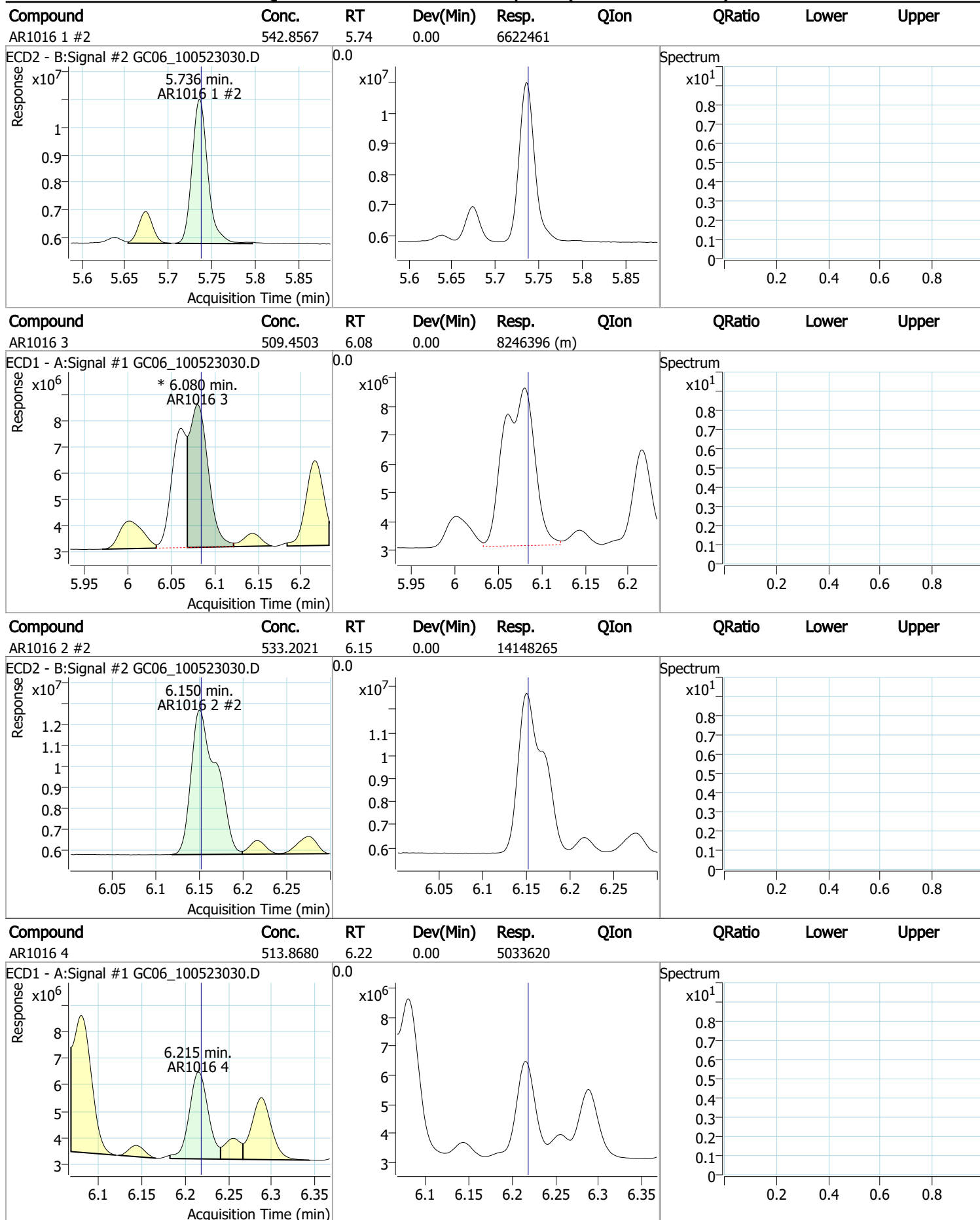
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	522.9624	5.29	0.00	3163360				



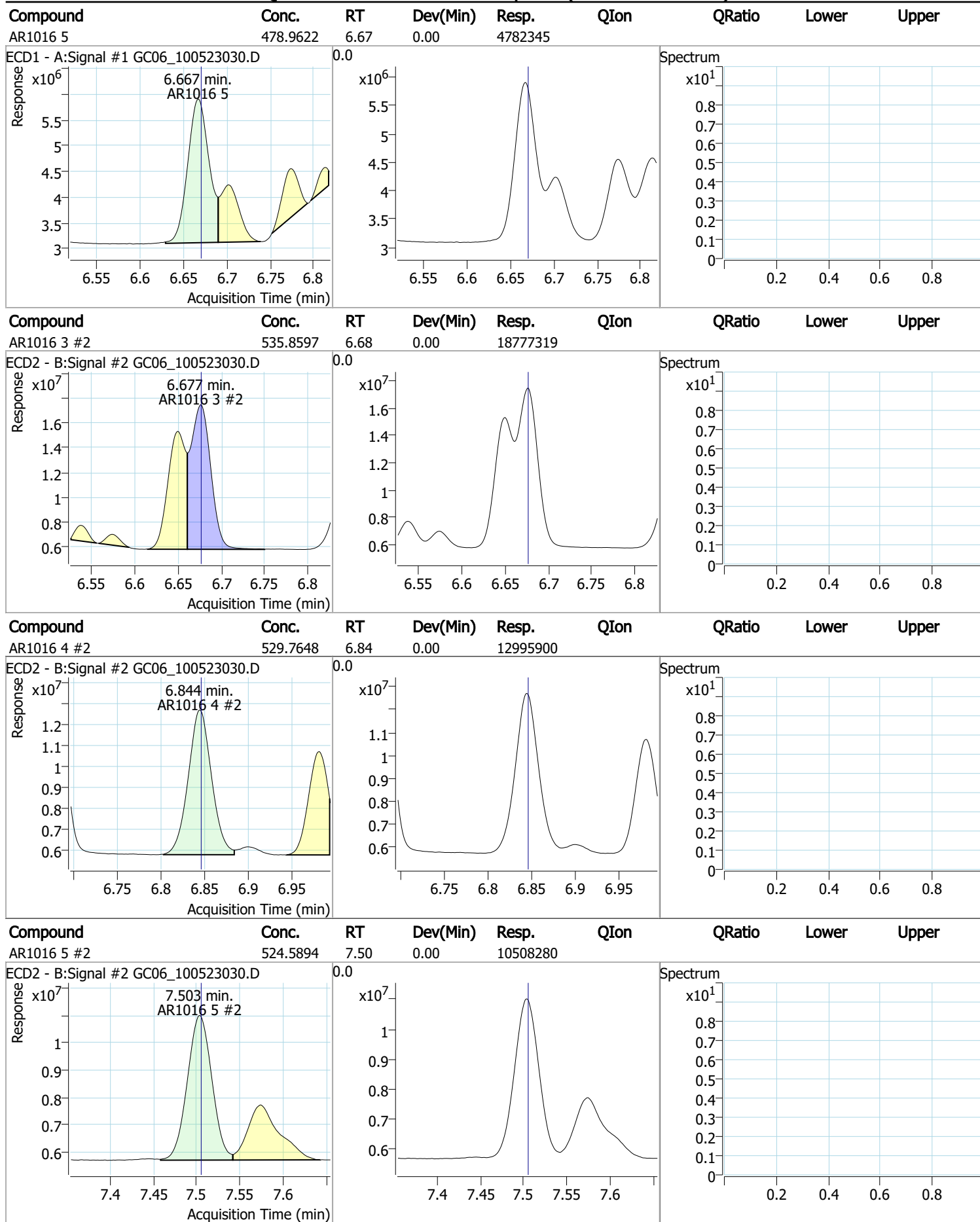
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	503.2532	5.63	0.00	6346932				



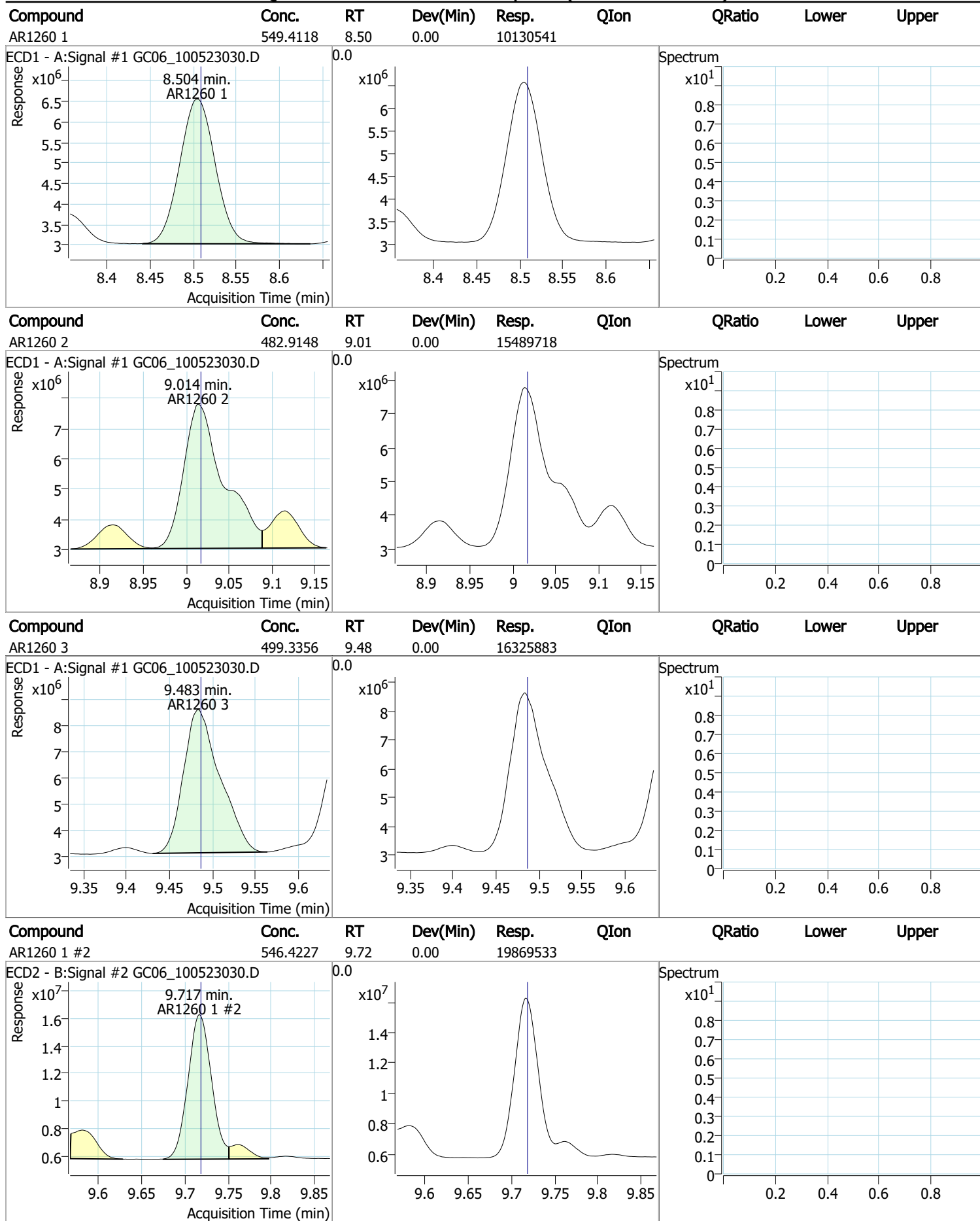
Quantitation Results Report (Not Reviewed)



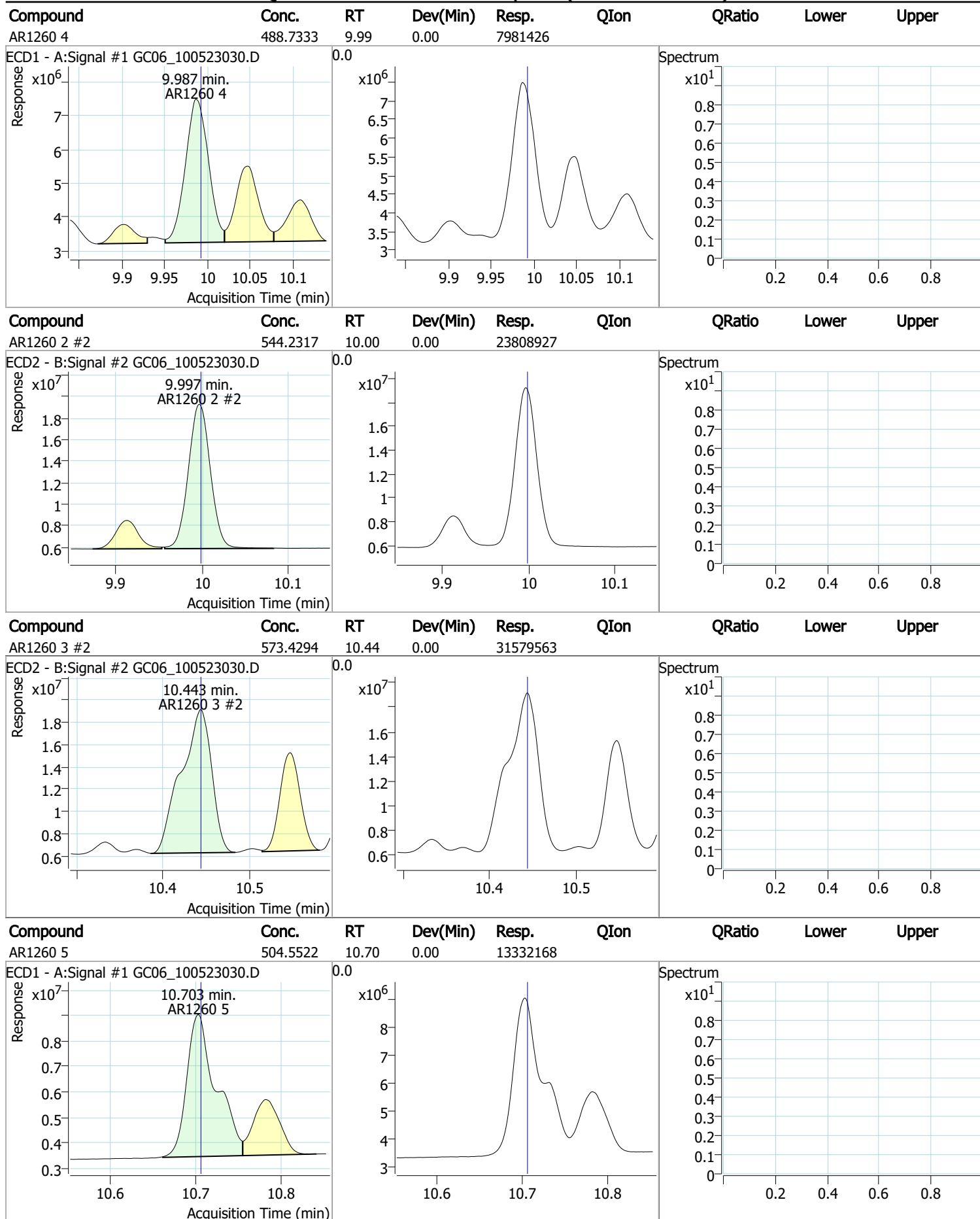
Quantitation Results Report (Not Reviewed)



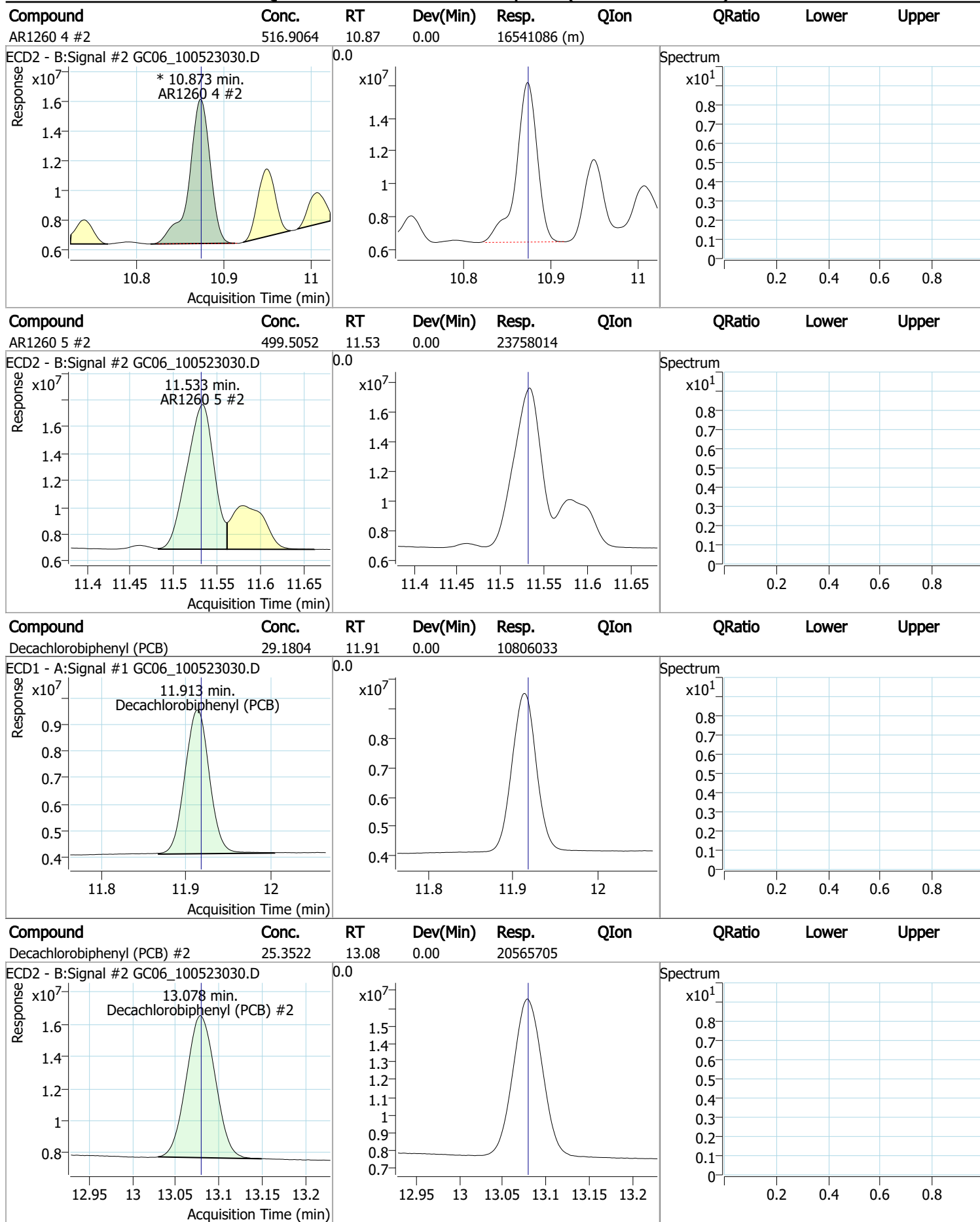
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc07_0908230033	463362148033		08-SEP-2023 20:35	S18454
L2	gc07_0908230034	463362148034		08-SEP-2023 20:53	S18455
L3	gc07_0908230035	463362148035		08-SEP-2023 21:10	S18456
L4	gc07_0908230036	463362148036		08-SEP-2023 21:28	S18457
L5	gc07_0908230037	463362148037		08-SEP-2023 21:45	S18458
L6	gc07_0908230038	463362148038		08-SEP-2023 22:03	S18459
L7	gc07_0908230039	463362148039		08-SEP-2023 22:20	S18460
L8	gc07_0908230040	463362148040		08-SEP-2023 22:37	S18461
L9	gc07_0908230041	463362148041		08-SEP-2023 22:55	S18462
L10	gc07_0908230042	463362148042		08-SEP-2023 23:12	S18463

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Analyte	Ch	Type	a0	a1	a2	Units	Avg RF	%RSD	n	Min r ²	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG	55.1684			ug/L	0.0181	20	9	.99	20	
Aroclor-1016 Peak # 2	A	AVRG	25.2919			ug/L	0.0395	17	7	.99	20	
Aroclor-1016 Peak # 3	A	AVRG	22.5191			ug/L	0.0444	16	8	.99	20	
Aroclor-1016 Peak # 4	A	AVRG	29.6700			ug/L	0.0337	14	8	.99	20	
Aroclor-1016 Peak # 5	A	AVRG	37.7469			ug/L	0.0265	15	8	.99	20	
Aroclor-1260 Peak # 1	A	AVRG	19.1710			ug/L	0.0522	16	7	.99	20	
Aroclor-1260 Peak # 2	A	AVRG	12.6932			ug/L	0.0788	17	7	.99	20	
Aroclor-1260 Peak # 3	A	AVRG	10.6275			ug/L	0.0941	20	7	.99	20	
Aroclor-1260 Peak # 4	A	AVRG	19.1822			ug/L	0.0521	20	8	.99	20	
Aroclor-1260 Peak # 5	A	AVRG	9.95175			ug/L	0.1005	17	8	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG	1.04286			pg/uL	0.9589	15	7	.99	20	
TCMX (PCB)	A	AVRG	1.09425			pg/uL	0.9139	19	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG	49.6626			ug/L	0.0201	19	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG	23.7679			ug/L	0.0421	17	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG	19.5462			ug/L	0.0512	16	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG	27.3089			ug/L	0.0366	17	9	.99	20	
Aroclor-1016 Peak # 5	B	AVRG	33.3585			ug/L	0.0300	16	9	.99	20	
Aroclor-1260 Peak # 1	B	AVRG	17.2765			ug/L	0.0579	18	9	.99	20	
Aroclor-1260 Peak # 2	B	AVRG	16.7863			ug/L	0.0596	16	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG	13.9282			ug/L	0.0718	15	9	.99	20	
Aroclor-1260 Peak # 4	B	AVRG	21.5402			ug/L	0.0464	20	9	.99	20	
Aroclor-1260 Peak # 5	B	AVRG	12.0297			ug/L	0.0831	12	8	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG	1.23049			pg/uL	0.8127	13	8	.99	20	
TCMX (PCB)	B	AVRG	0.95710			pg/uL	1.0448	19	10	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)

AVRG: Average response factor

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF	L10 RF
Aroclor-1016 Peak # 1	A		0.0253	0.0210	0.0201	0.0186	0.0178	0.0160	0.0159	0.0142	0.0143
Aroclor-1016 Peak # 2	A		0.0503	0.0441	0.0424	0.0387	0.0365	0.0325	0.0322		
Aroclor-1016 Peak # 3	A			0.0563	0.0518	0.0479	0.0449	0.0397	0.0406	0.0370	0.0371
Aroclor-1016 Peak # 4	A			0.0413	0.0386	0.0361	0.0347	0.0309	0.0314	0.0281	0.0285
Aroclor-1016 Peak # 5	A			0.0327	0.0309	0.0283	0.0271	0.0244	0.0247	0.0219	0.0220
Aroclor-1260 Peak # 1	A			0.0648	0.0604	0.0553	0.0521	0.0456	0.0463	0.0407	
Aroclor-1260 Peak # 2	A			0.0977	0.0925	0.0835	0.0784	0.0684	0.0697	0.0612	
Aroclor-1260 Peak # 3	A		0.1292	0.1044	0.0981	0.0893	0.0854	0.0751	0.0771		
Aroclor-1260 Peak # 4	A		0.0713	0.0597	0.0567	0.0517	0.0499	0.0435	0.0448	0.0394	
Aroclor-1260 Peak # 5	A			0.1287	0.1184	0.1067	0.1021	0.0892	0.0929	0.0817	0.0842
Decachlorobiphenyl (PCB)	A			1.0930	1.0035	1.0484	1.1071	0.8817	0.8590	0.7197	
TCMX (PCB)	A		1.2191	1.0210	0.9567	1.1035	0.8468	0.8233	0.7945	0.7206	0.7392
Aroclor-1016 Peak # 1	B		0.0284	0.0231	0.0215	0.0202	0.0196	0.0178	0.0180	0.0161	0.0164
Aroclor-1016 Peak # 2	B		0.0557	0.0485	0.0458	0.0430	0.0415	0.0375	0.0382	0.0340	0.0345
Aroclor-1016 Peak # 3	B		0.0683	0.0585	0.0545	0.0512	0.0498	0.0457	0.0466	0.0418	0.0441
Aroclor-1016 Peak # 4	B		0.0498	0.0411	0.0392	0.0366	0.0359	0.0327	0.0335	0.0301	0.0307
Aroclor-1016 Peak # 5	B		0.0400	0.0332	0.0318	0.0302	0.0297	0.0269	0.0278	0.0249	0.0253
Aroclor-1260 Peak # 1	B		0.0795	0.0637	0.0645	0.0584	0.0568	0.0502	0.0531	0.0469	0.0479
Aroclor-1260 Peak # 2	B		0.0790	0.0657	0.0663	0.0602	0.0589	0.0521	0.0552	0.0489	0.0499
Aroclor-1260 Peak # 3	B		0.0947	0.0768	0.0779	0.0719	0.0713	0.0632	0.0675	0.0604	0.0624
Aroclor-1260 Peak # 4	B		0.0683	0.0503	0.0491	0.0455	0.0453	0.0400	0.0426	0.0379	0.0389
Aroclor-1260 Peak # 5	B			0.1004	0.0944	0.0851	0.0838	0.0748	0.0805	0.0716	0.0744
Decachlorobiphenyl (PCB)	B			0.8918	0.8307	0.8802	0.9686	0.7878	0.7900	0.6698	0.6827
TCMX (PCB)	B	1.4607	1.2878	1.0524	0.9726	1.1742	0.9211	0.9353	0.9222	0.8391	0.8828

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A			20.000	39	50.000	16	100.00	11	250.00	3	500.00	-2	749.91	-12	1000.0	-12
Aroclor-1016 Peak # 2	A			20.000	27	50.000	11	100.00	7	250.00	-2	500.00	-8	749.91	-18	1000.0	-18
Aroclor-1016 Peak # 3	A					50.000	27	100.00	17	250.00	8	500.00	1	749.91	-11	1000.0	-9
Aroclor-1016 Peak # 4	A					50.000	23	100.00	15	250.00	7	500.00	3	749.91	-8	1000.0	-7
Aroclor-1016 Peak # 5	A					50.000	24	100.00	17	250.00	7	500.00	2	749.91	-8	1000.0	-7
Aroclor-1260 Peak # 1	A					50.000	24	100.00	16	250.00	6	500.00	0	749.91	-13	1000.0	-11
Aroclor-1260 Peak # 2	A					50.000	24	100.00	17	250.00	6	500.00	0	749.91	-13	1000.0	-11
Aroclor-1260 Peak # 3	A			20.000	37	50.000	11	100.00	4	250.00	-5	500.00	-9	749.91	-20	1000.0	-18
Aroclor-1260 Peak # 4	A			20.000	37	50.000	15	100.00	9	250.00	-1	500.00	-4	749.91	-17	1000.0	-14
Aroclor-1260 Peak # 5	A					50.000	28	100.00	18	250.00	6	500.00	2	749.91	-11	1000.0	-8
Decachlorobiphenyl (PCB)	A					4.0000	14	8.0000	5	20.000	9	40.000	15	59.993	-8	80.000	-10
TCMX (PCB)	A			1.6000	33	4.0000	12	8.0000	5	20.000	21	40.000	-7	59.993	-10	80.000	-13
Aroclor-1016 Peak # 1	B			20.000	41	50.000	15	100.00	7	250.00	0	500.00	-3	749.91	-12	1000.0	-10
Aroclor-1016 Peak # 2	B			20.000	32	50.000	15	100.00	9	250.00	2	500.00	-1	749.91	-11	1000.0	-9
Aroclor-1016 Peak # 3	B			20.000	33	50.000	14	100.00	6	250.00	0	500.00	-3	749.91	-11	1000.0	-9
Aroclor-1016 Peak # 4	B			20.000	36	50.000	12	100.00	7	250.00	0	500.00	-2	749.91	-11	1000.0	-8
Aroclor-1016 Peak # 5	B			20.000	34	50.000	11	100.00	6	250.00	1	500.00	-1	749.91	-10	1000.0	-7
Aroclor-1260 Peak # 1	B			20.000	37	50.000	10	100.00	11	250.00	1	500.00	-2	749.91	-13	1000.0	-8
Aroclor-1260 Peak # 2	B			20.000	33	50.000	10	100.00	11	250.00	1	500.00	-1	749.91	-12	1000.0	-7
Aroclor-1260 Peak # 3	B			20.000	32	50.000	7	100.00	8	250.00	0	500.00	-1	749.91	-12	1000.0	-6
Aroclor-1260 Peak # 4	B			20.000	47	50.000	8	100.00	6	250.00	-2	500.00	-3	749.91	-14	1000.0	-8
Aroclor-1260 Peak # 5	B					50.000	21	100.00	14	250.00	2	500.00	1	749.91	-10	1000.0	-3
Decachlorobiphenyl (PCB)	B					4.0000	10	8.0000	2	20.000	8	40.000	19	59.993	-3	80.000	-3
TCMX (PCB)	B	0.8000	40	1.6000	23	4.0000	1	8.0000	-7	20.000	12	40.000	-12	59.993	-10	80.000	-12

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Spiked Amounts / Drifts	Ch	L9	%D	L10	%D
Aroclor-1016 Peak # 1	A	1500.0	-22	2000.0	-21
Aroclor-1016 Peak # 2	A				
Aroclor-1016 Peak # 3	A	1500.0	-17	2000.0	-17
Aroclor-1016 Peak # 4	A	1500.0	-16	2000.0	-15
Aroclor-1016 Peak # 5	A	1500.0	-17	2000.0	-17
Aroclor-1260 Peak # 1	A	1500.0	-22		
Aroclor-1260 Peak # 2	A	1500.0	-22		
Aroclor-1260 Peak # 3	A				
Aroclor-1260 Peak # 4	A	1500.0	-24		
Aroclor-1260 Peak # 5	A	1500.0	-19	2000.0	-16
Decachlorobiphenyl (PCB)	A	120.00	-25		
TCMX (PCB)	A	120.00	-21	160.00	-19
Aroclor-1016 Peak # 1	B	1500.0	-20	2000.0	-18
Aroclor-1016 Peak # 2	B	1500.0	-19	2000.0	-18
Aroclor-1016 Peak # 3	B	1500.0	-18	2000.0	-14
Aroclor-1016 Peak # 4	B	1500.0	-18	2000.0	-16
Aroclor-1016 Peak # 5	B	1500.0	-17	2000.0	-16
Aroclor-1260 Peak # 1	B	1500.0	-19	2000.0	-17
Aroclor-1260 Peak # 2	B	1500.0	-18	2000.0	-16
Aroclor-1260 Peak # 3	B	1500.0	-16	2000.0	-13
Aroclor-1260 Peak # 4	B	1500.0	-18	2000.0	-16
Aroclor-1260 Peak # 5	B	1500.0	-14	2000.0	-10
Decachlorobiphenyl (PCB)	B	120.00	-18	160.00	-16
TCMX (PCB)	B	120.00	-20	160.00	-16

MES 09/11/23 : Corrected automatically drawn baseline for all channels in all levels.

Instrument: SVOA-GC07
Calibration #: 463362148002

Name: PCB_ICAL_090823
Date: 08-SEP-2023 20:35
X Axis: R

Reviewed By: MES 09/11/23, TRN 09/11/23, LW 09/13/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 493300 PCBS Wipe
EPA 8082

Inst: SVOA-GC07
Calnum: 463362148002

Name: PCB_ICAL_090823
Cal Date: 08-SEP-2023

- ICV 463362148044 (gc07_0908230044 08-SEP-2023) stds: S18851

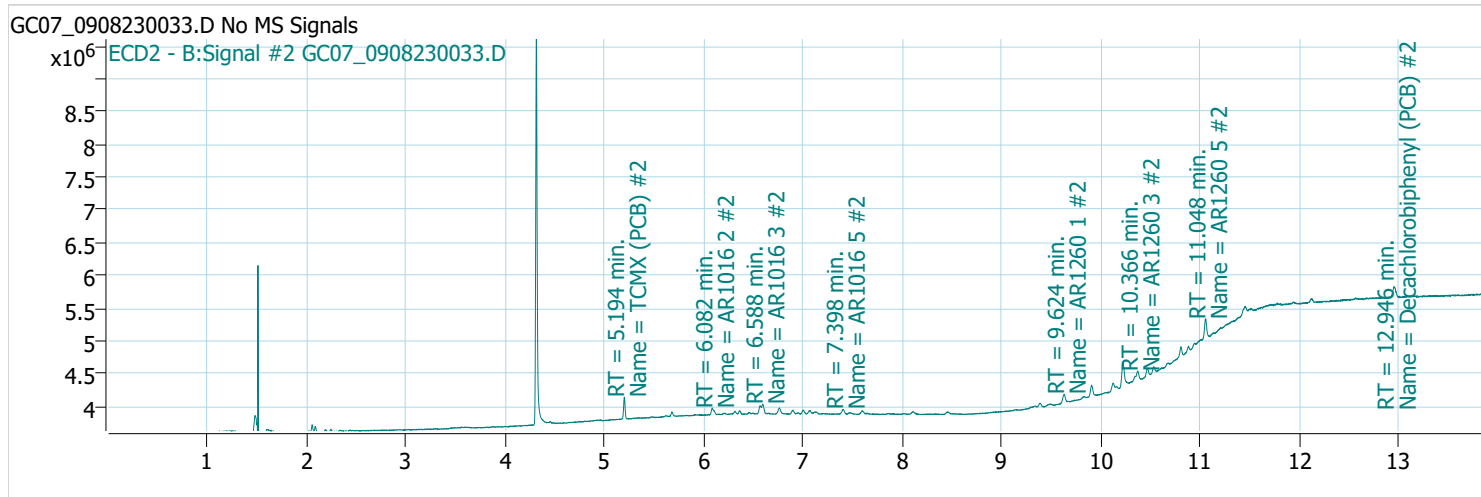
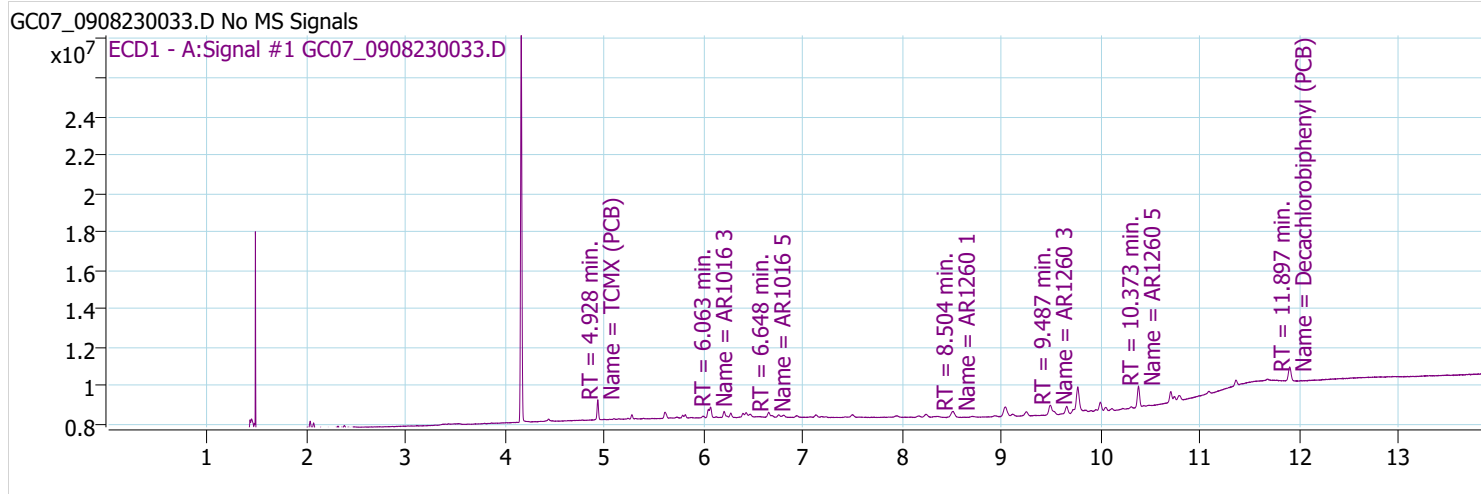
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	533.3	ug/L	7	15	
Aroclor-1260	A	500.0	525.7	ug/L	5	15	
Aroclor-1016	B	500.0	531.0	ug/L	6	15	
Aroclor-1260	B	500.0	539.4	ug/L	8	15	

•

Reviewed By: MES 09/11/23, TRN 09/11/23, LW 09/13/23

Quantitation Results Report (Not Reviewed)

Data File	GC07_0908230033.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	9/8/2023 8:35:51 PM
Sample Name	ICAL, S18454	Instrument	SVOA-GC07
Vial	11	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_1.m	Comment	10 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	090823PCB_ICAL.batch.bin	Last Calib Update	9/11/2023 11:12:29 AM
Ref Library			



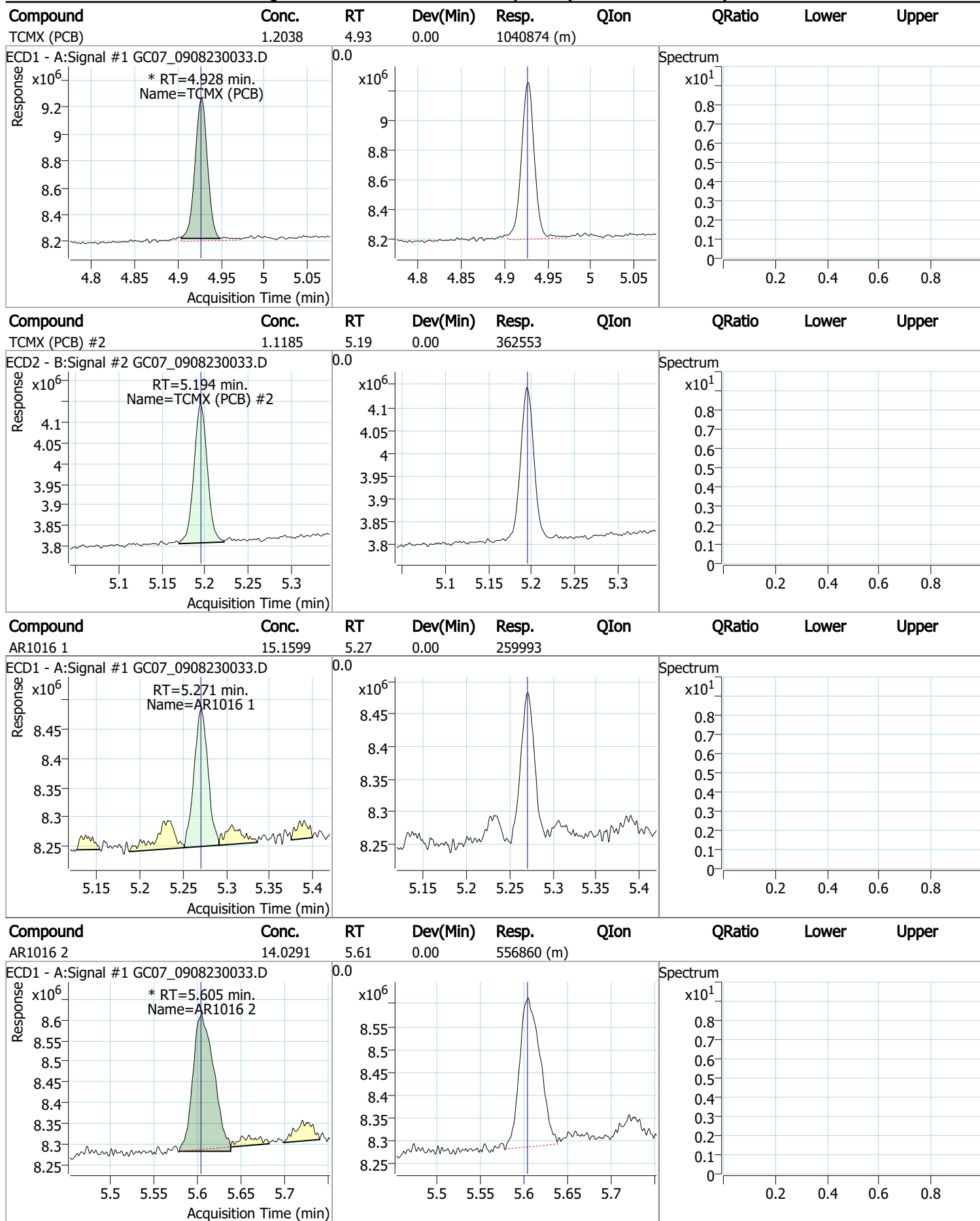
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.156	0.0	18922999.7 69	20.0000	ng/ml	-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.308	0.0	6205028.41 8	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.928	0.0	1040874.37 5	1.2038	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 6.02%	*	
S TCMX (PCB) #2	5.194	0.0	362553.174	1.1185	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 5.59%	*	
S Decachlorobiphenyl (PCB)	11.897	0.0	1372428.48 2	1.5127	ng/ml	-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 7.56%	*	
S Decachlorobiphenyl (PCB) #2	12.946	0.0	360429.051	1.4295	ng/ml	-0.005
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 7.15%	*	
Target Compounds						
T AR1016 1	5.271	0.0	259993.176	15.1599	ng/ml	QValue 100

Quantitation Results Report (Not Reviewed)

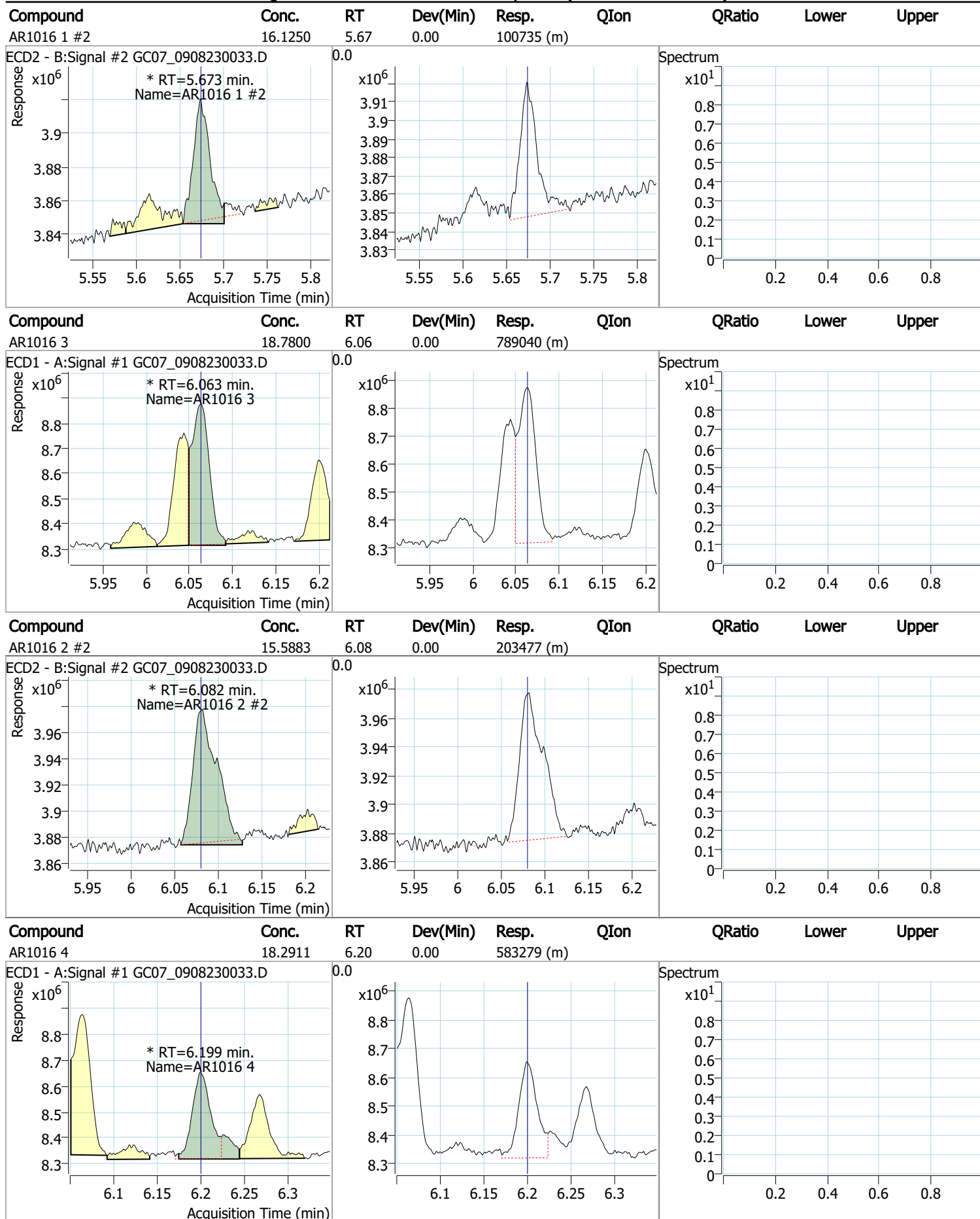
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 2	5.605	0.0	556860.208	14.0291	ng/ml	m 100
T AR1016 1 #2	5.673	0.0	100734.561	16.1250	ng/ml	m 100
T AR1016 3	6.063	0.0	789039.872	18.7800	ng/ml	m 100
T AR1016 2 #2	6.082	0.0	203477.259	15.5883	ng/ml	m 100
T AR1016 4	6.199	0.0	583279.195	18.2911	ng/ml	m 100
T AR1016 3 #2	6.588	0.0	219367.754	13.8206	ng/ml	m 100
T AR1016 5	6.648	0.0	426787.273	17.0270	ng/ml	m 100
T AR1016 4 #2	6.758	0.0	180992.222	15.9314	ng/ml	m 100
T AR1016 5 #2	7.398	0.0	143509.830	15.4305	ng/ml	100
T AR1260 1	8.504	0.0	871192.251	17.6525	ng/ml	100
T AR1260 2	9.032	0.0	1301859.149	17.4656	ng/ml	100
T AR1260 3	9.487	0.0	1421171.425	15.9634	ng/ml	100
T AR1260 1 #2	9.624	0.0	279825.787	15.5825	ng/ml	100
T AR1260 2 #2	9.902	0.0	295233.666	15.9739	ng/ml	m 100
T AR1260 4	9.988	0.0	809467.408	16.4114	ng/ml	m 100
T AR1260 3 #2	10.366	0.0	314010.750	14.0972	ng/ml	m 100
T AR1260 5	10.373	0.0	1793017.080	0.0000	ng/ml	100
T AR1260 4 #2	10.800	0.0	207488.482	14.4057	ng/ml	m 100
T AR1260 5 #2	11.048	0.0	458808.900	0.0000	ng/ml	m 100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

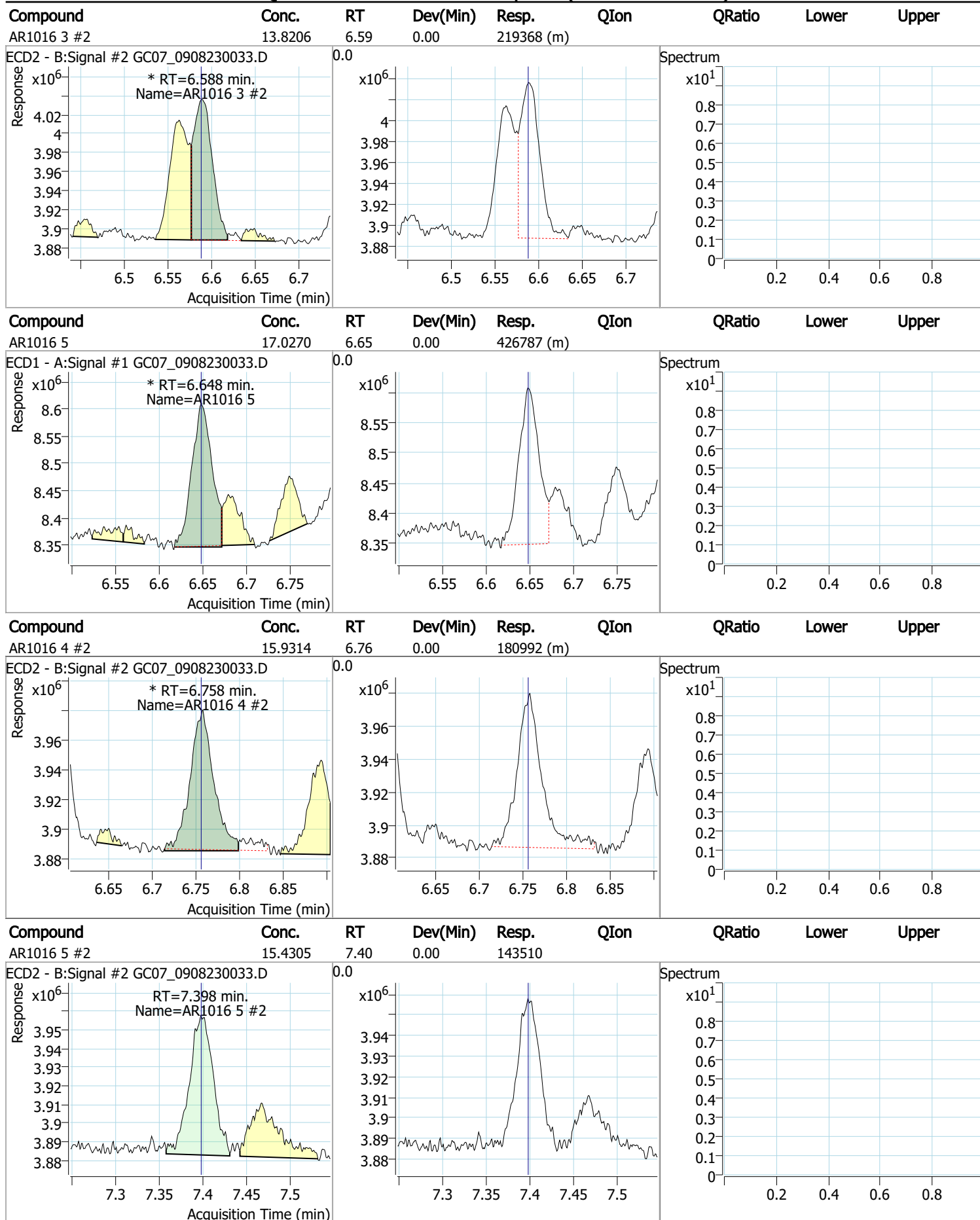
Quantitation Results Report (Not Reviewed)



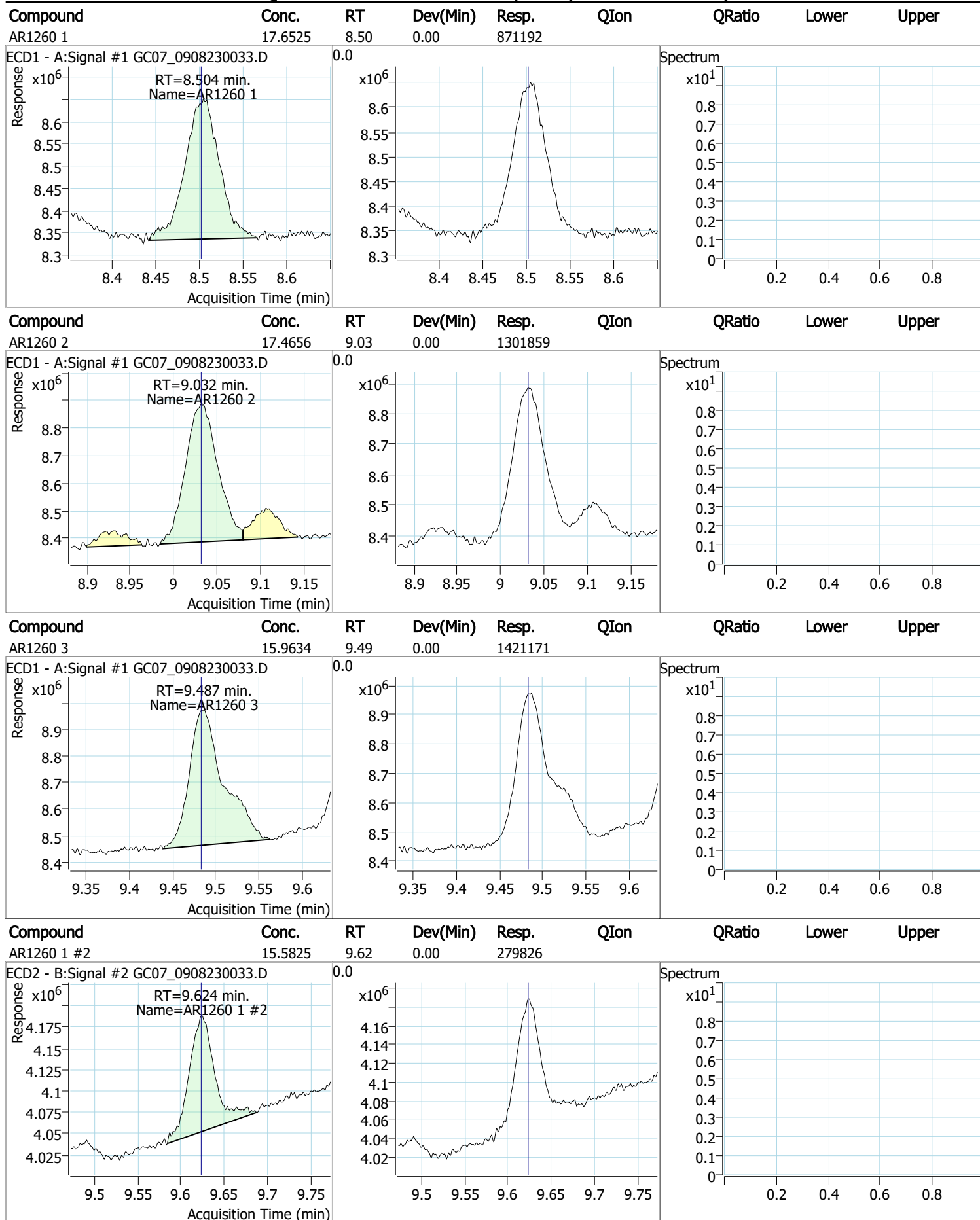
Quantitation Results Report (Not Reviewed)



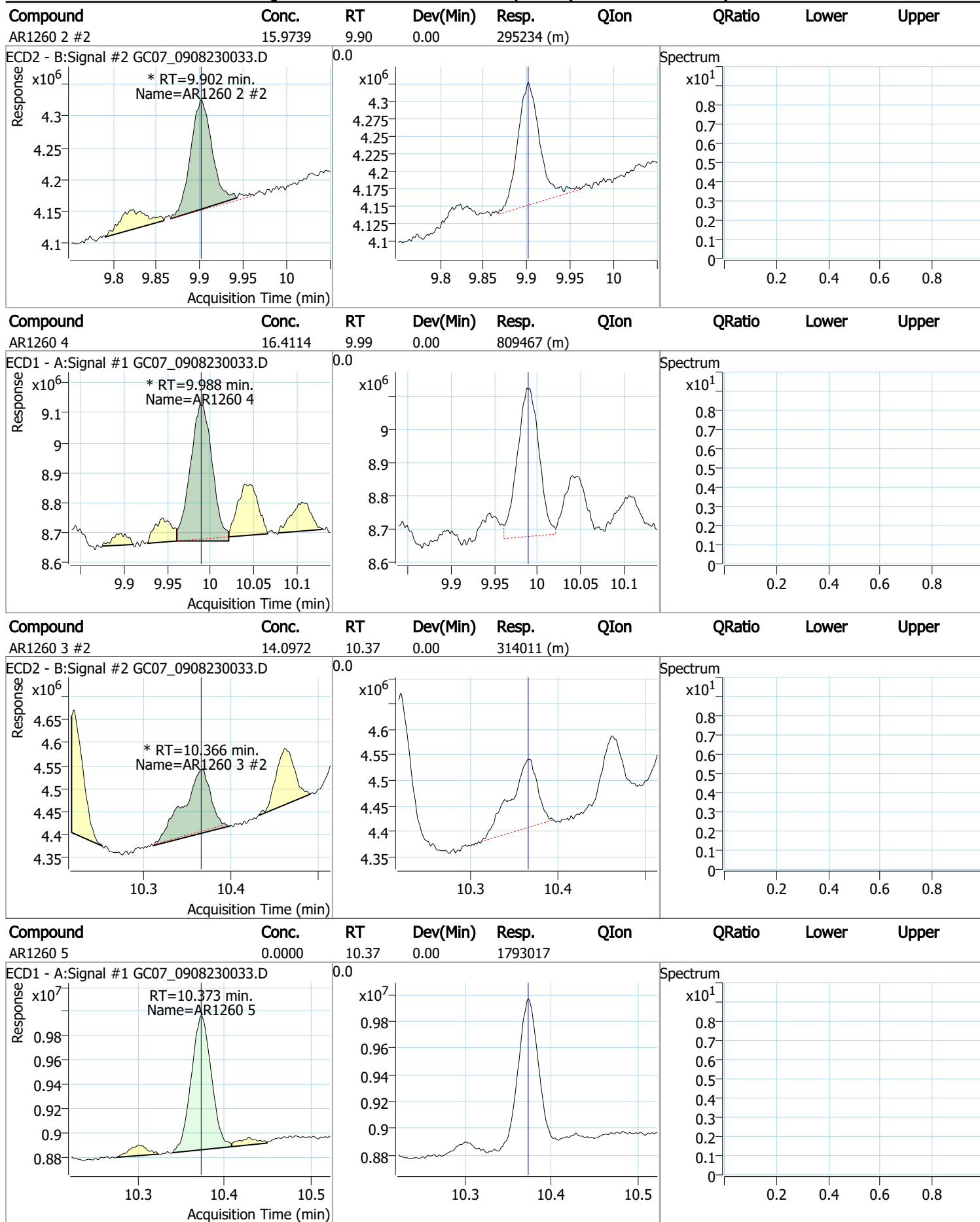
Quantitation Results Report (Not Reviewed)



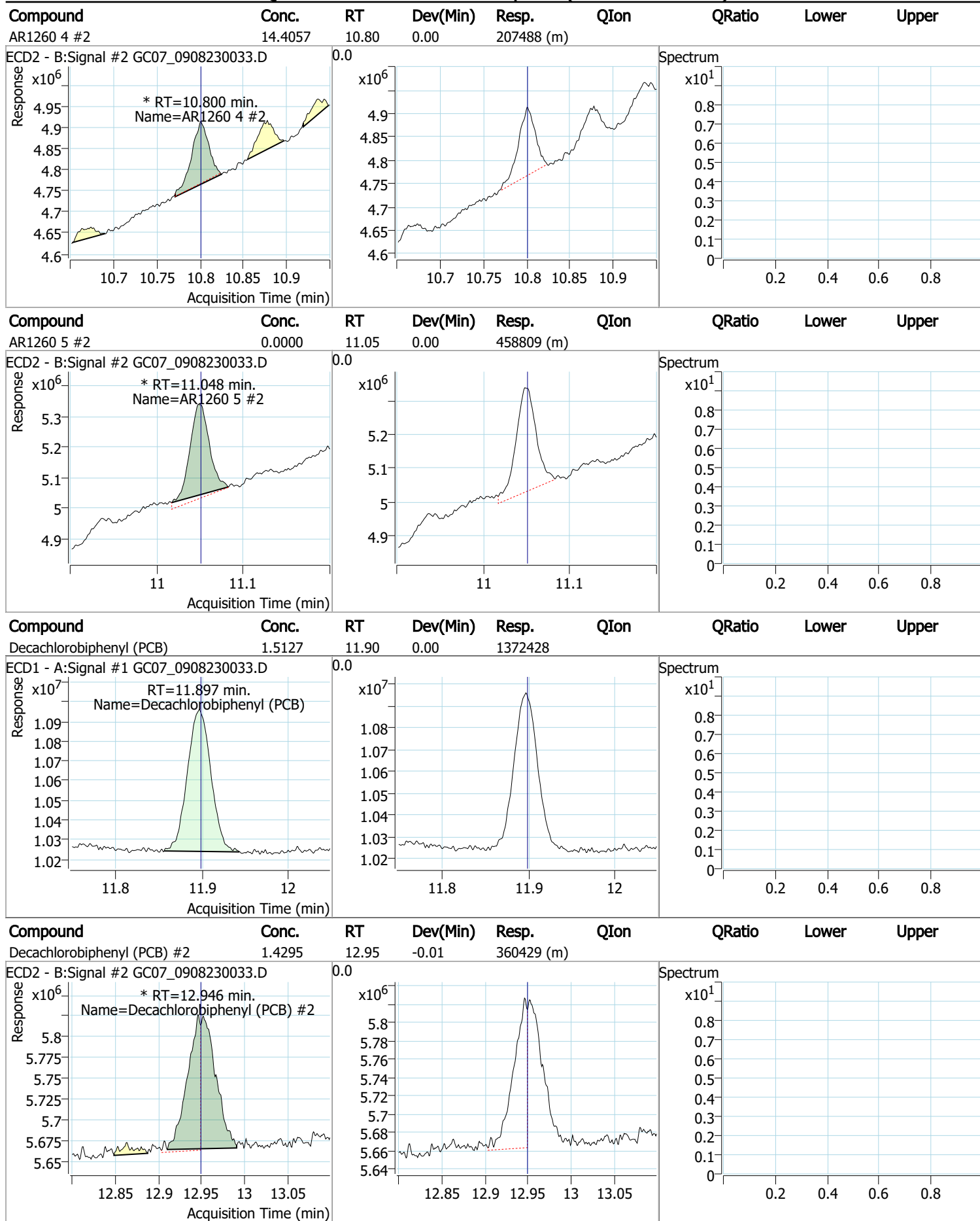
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

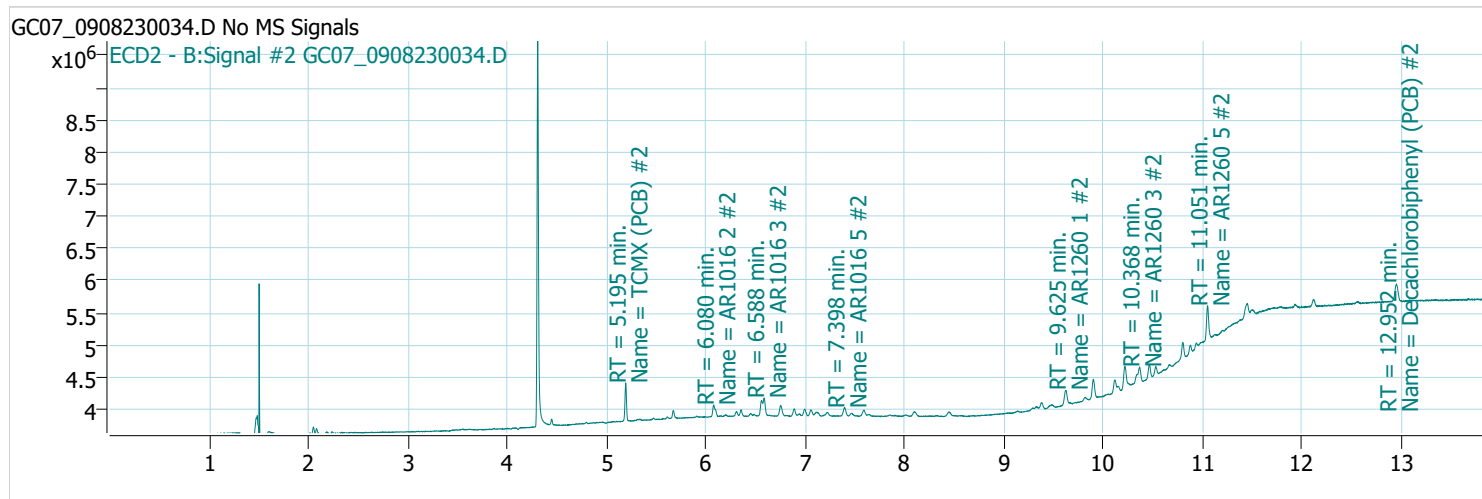
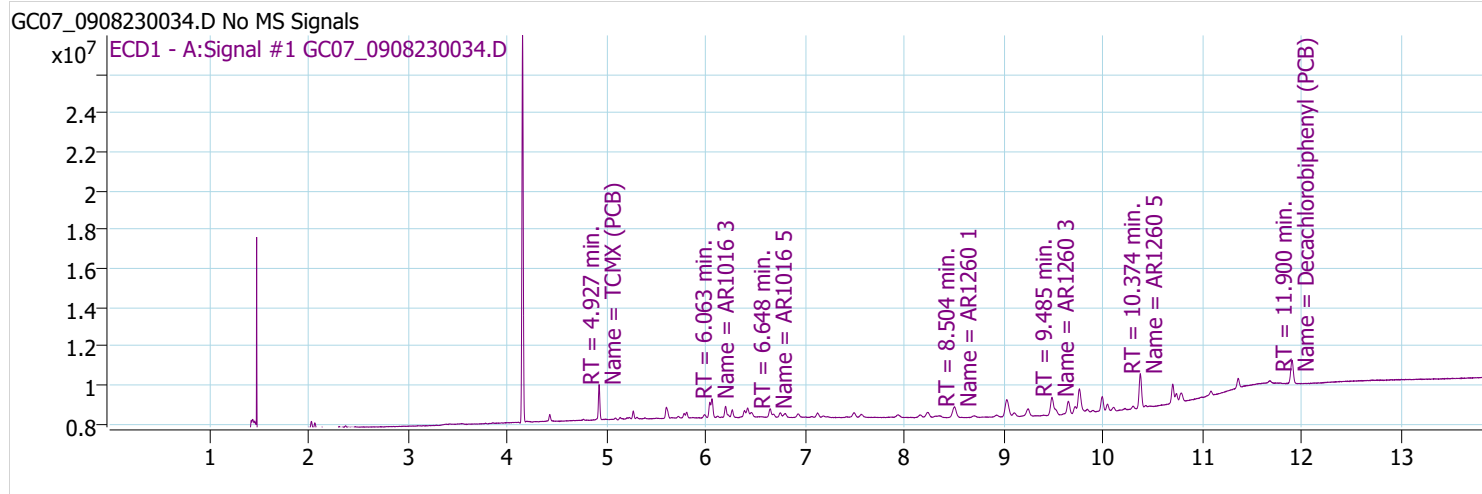


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC07_0908230034.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	9/8/2023 8:53:14 PM
Sample Name	ICAL, S18455	Instrument	SVOA-GC07
Vial	12	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_1.m	Comment	20 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	090823PCB_ICAL.batch.bin	Last Calib Update	9/11/2023 11:12:29 AM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.157	0.0	18775977.2	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.309	0.0	6302039.00	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.927	0.0	1831225.07	2.1345	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 10.67%	*	
S TCMX (PCB) #2	5.195	0.0	649275.528	1.9722	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 9.86%	*	
S Decachlorobiphenyl (PCB)	11.900	0.0	2276335.79	2.5287	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 12.64%	*	
S Decachlorobiphenyl (PCB) #2	12.952	0.0	601141.250	2.3475	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 11.74%	*	

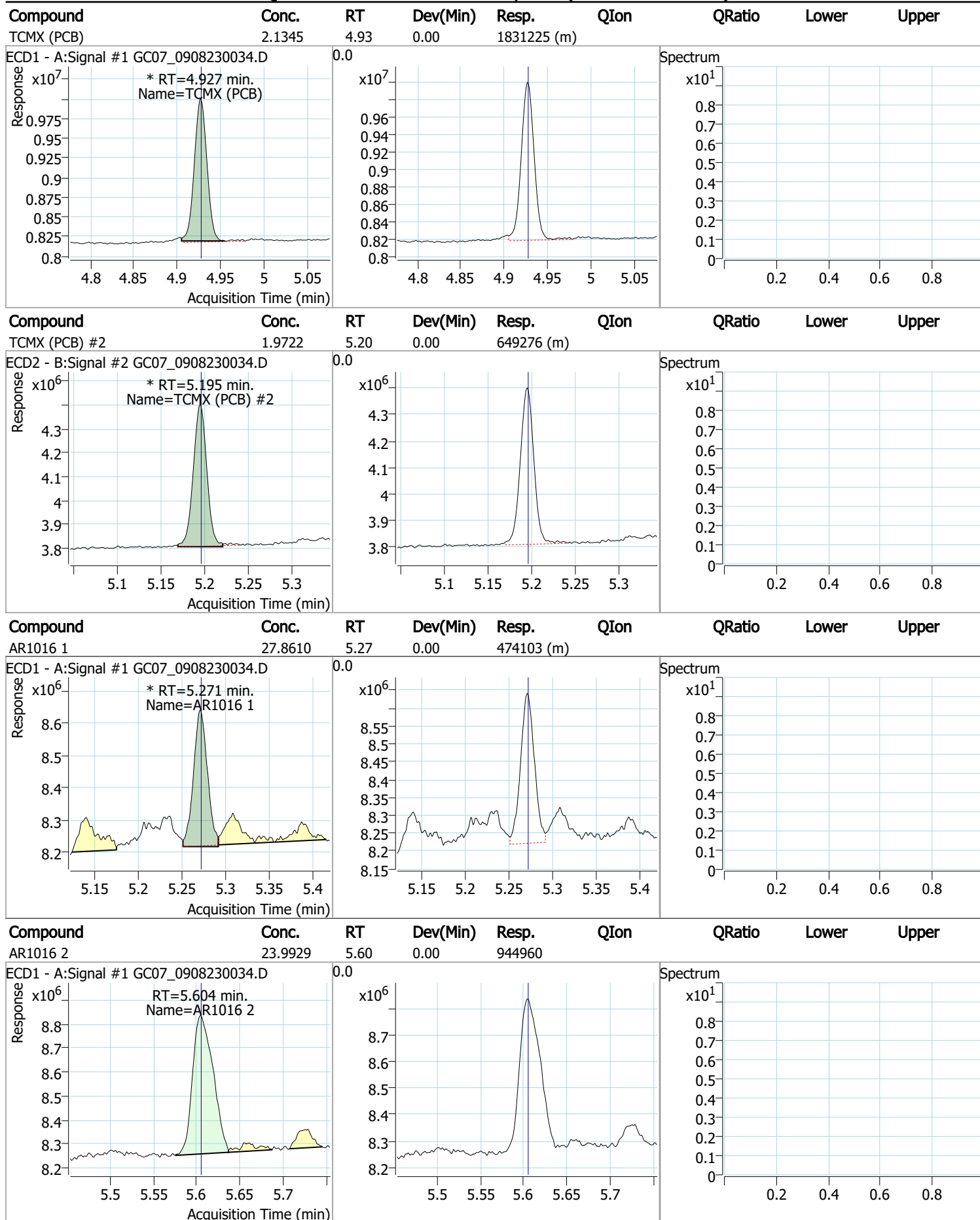
Target Compounds	RT	QIon	Resp.	Conc.	Units	QValue
T AR1016 1	5.271	0.0	474103.461	27.8610	ng/ml	100

Quantitation Results Report (Not Reviewed)

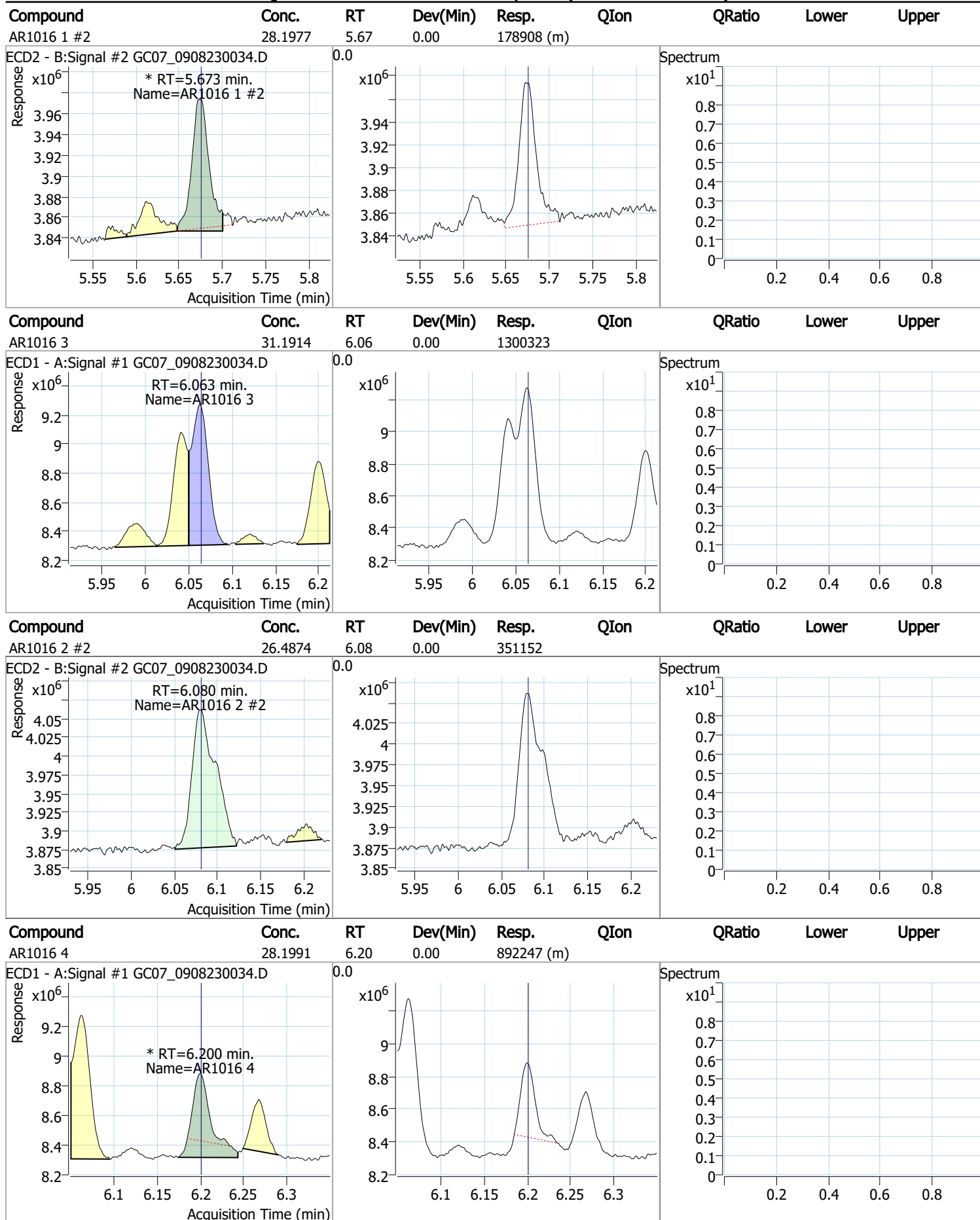
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 2	5.604	0.0	944959.656	23.9929	ng/ml	100
T AR1016 1 #2	5.673	0.0	178908.020	28.1977	ng/ml m	100
T AR1016 3	6.063	0.0	1300323.175	31.1914	ng/ml	100
T AR1016 2 #2	6.080	0.0	351152.020	26.4874	ng/ml	100
T AR1016 4	6.200	0.0	892246.675	28.1991	ng/ml m	100
T AR1016 3 #2	6.588	0.0	430153.212	26.6834	ng/ml m	100
T AR1016 5	6.648	0.0	721679.815	29.0174	ng/ml	100
T AR1016 4 #2	6.757	0.0	313625.539	27.1813	ng/ml m	100
T AR1016 5 #2	7.398	0.0	252265.358	26.7066	ng/ml	100
T AR1260 1	8.504	0.0	1481894.925	30.2620	ng/ml m	100
T AR1260 2	9.030	0.0	2287387.800	30.9276	ng/ml m	100
T AR1260 3	9.485	0.0	2424925.025	27.4514	ng/ml m	100
T AR1260 1 #2	9.625	0.0	500745.698	27.4554	ng/ml m	100
T AR1260 2 #2	9.901	0.0	497873.600	26.5233	ng/ml m	100
T AR1260 4	9.992	0.0	1339243.225	27.3648	ng/ml m	100
T AR1260 3 #2	10.368	0.0	597080.900	26.3926	ng/ml m	100
T AR1260 5	10.374	0.0	3140860.267	9.6639	ng/ml m	100
T AR1260 4 #2	10.803	0.0	430550.329	29.4326	ng/ml	100
T AR1260 5 #2	11.051	0.0	921292.808	16.9823	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

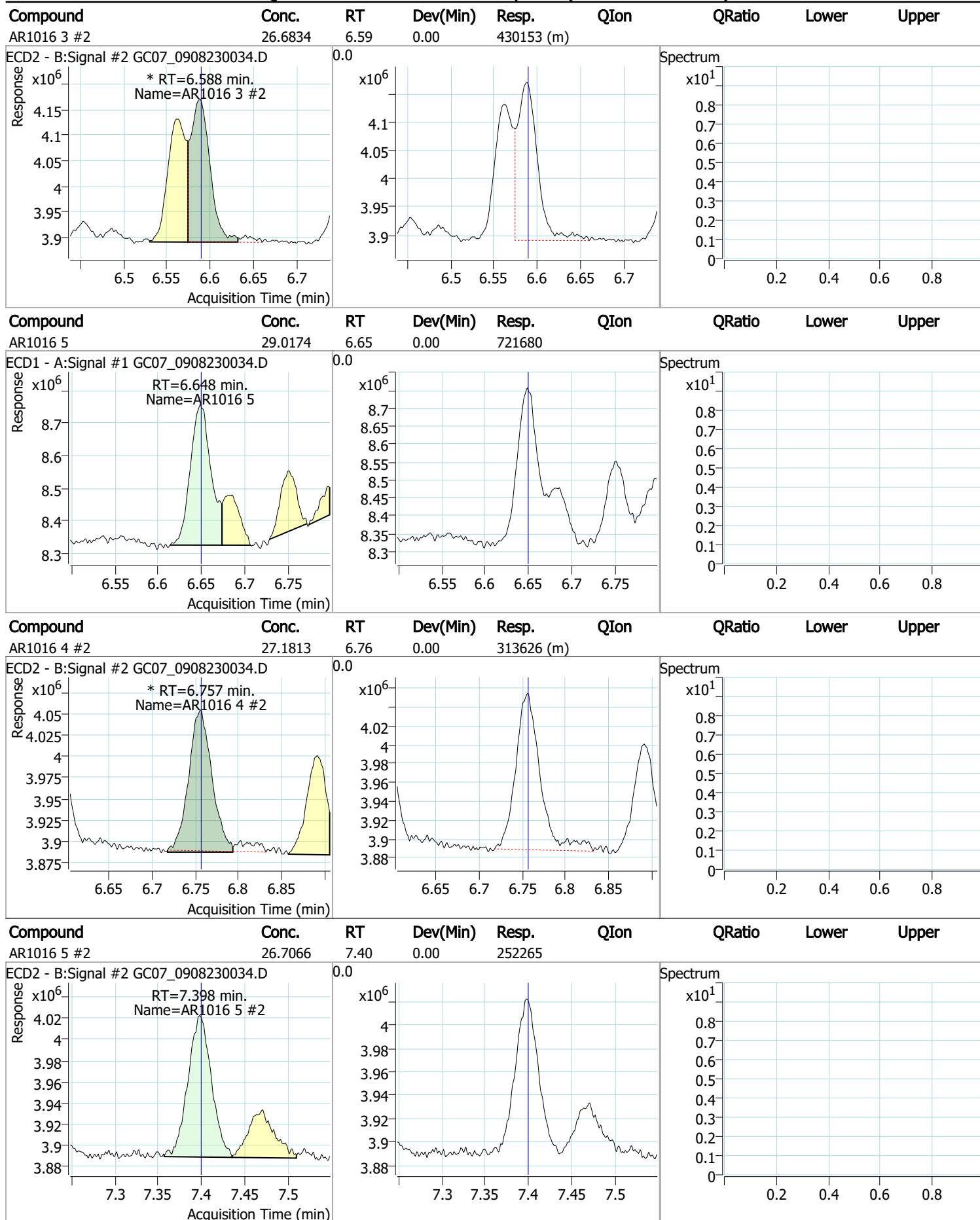
Quantitation Results Report (Not Reviewed)



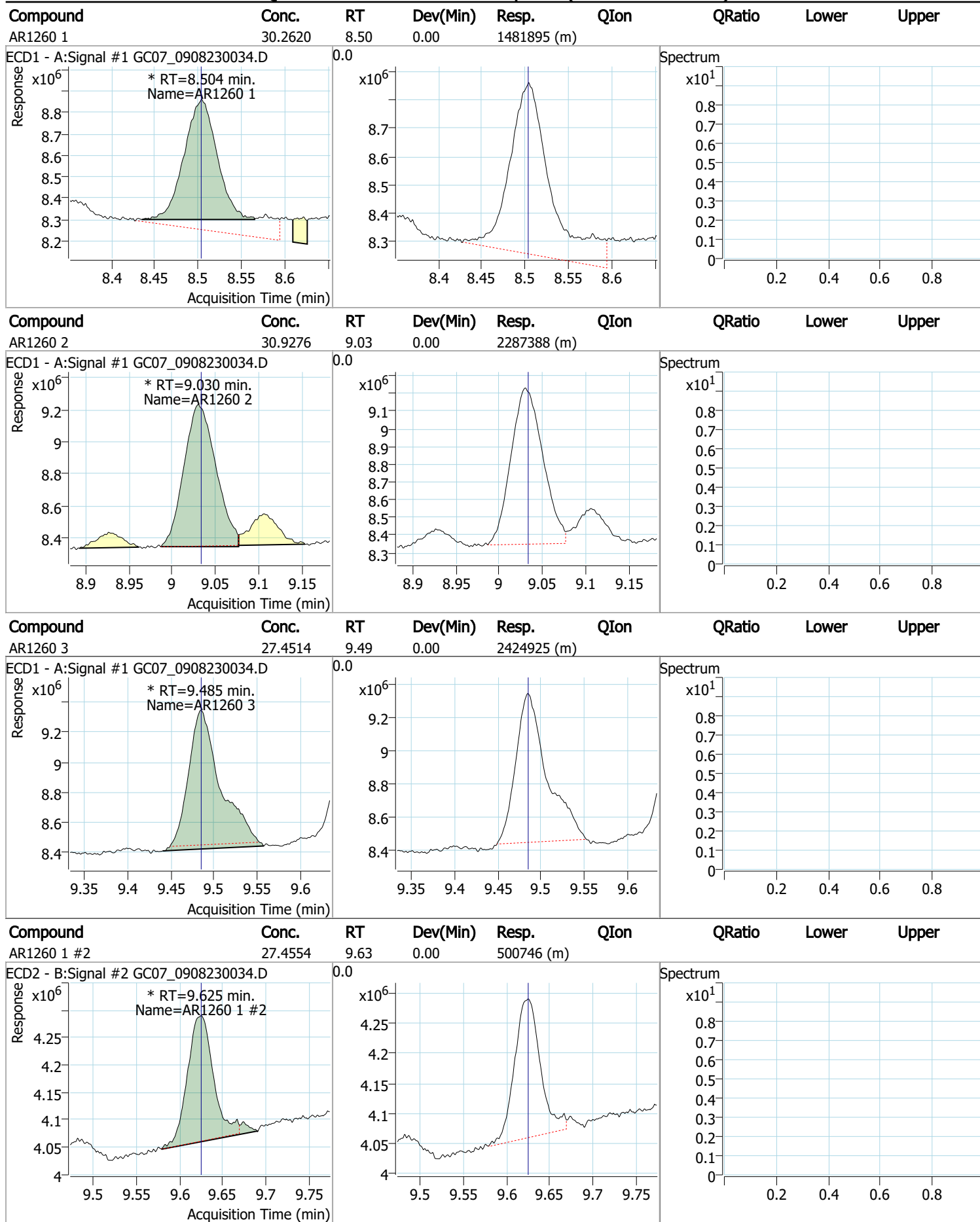
Quantitation Results Report (Not Reviewed)



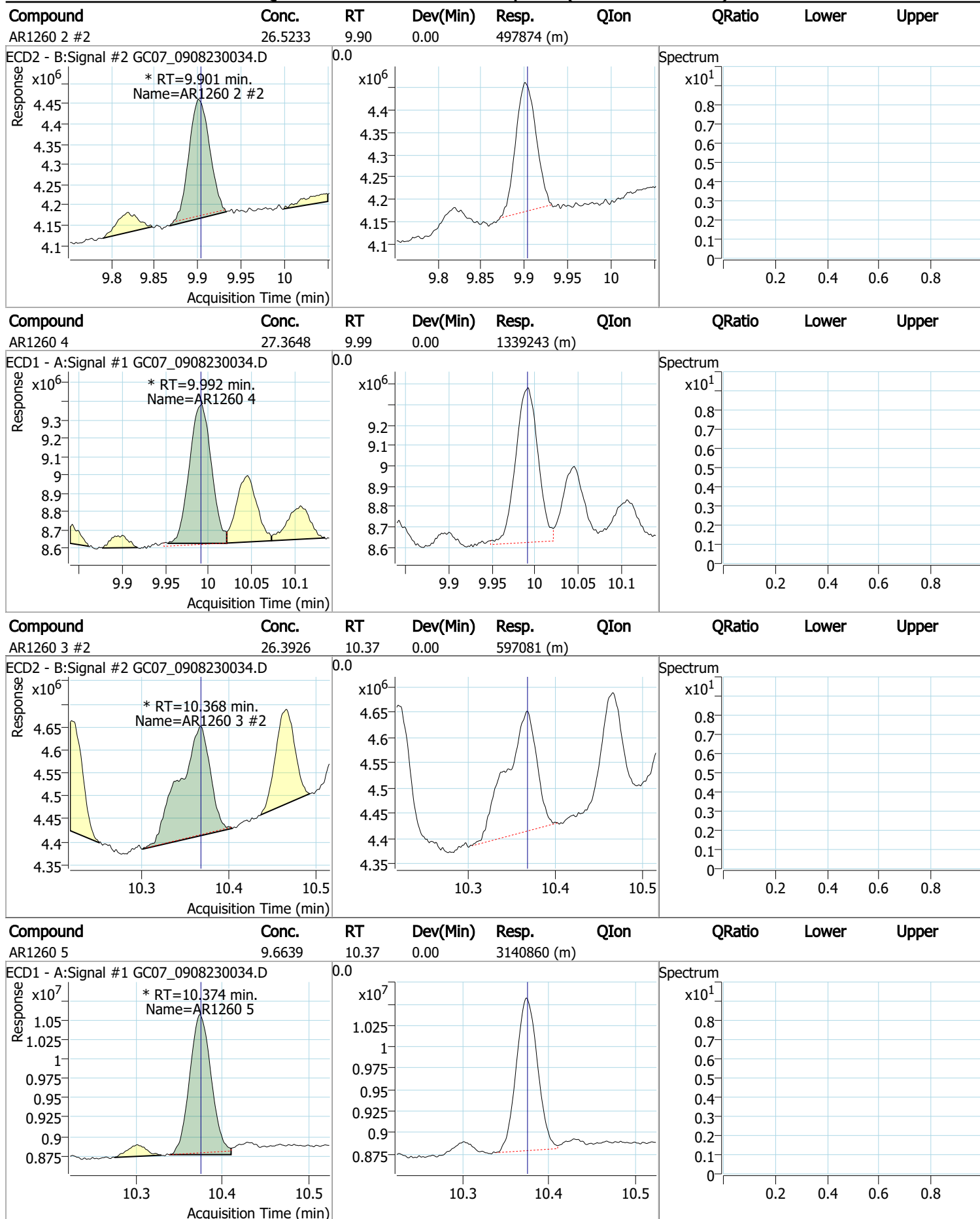
Quantitation Results Report (Not Reviewed)



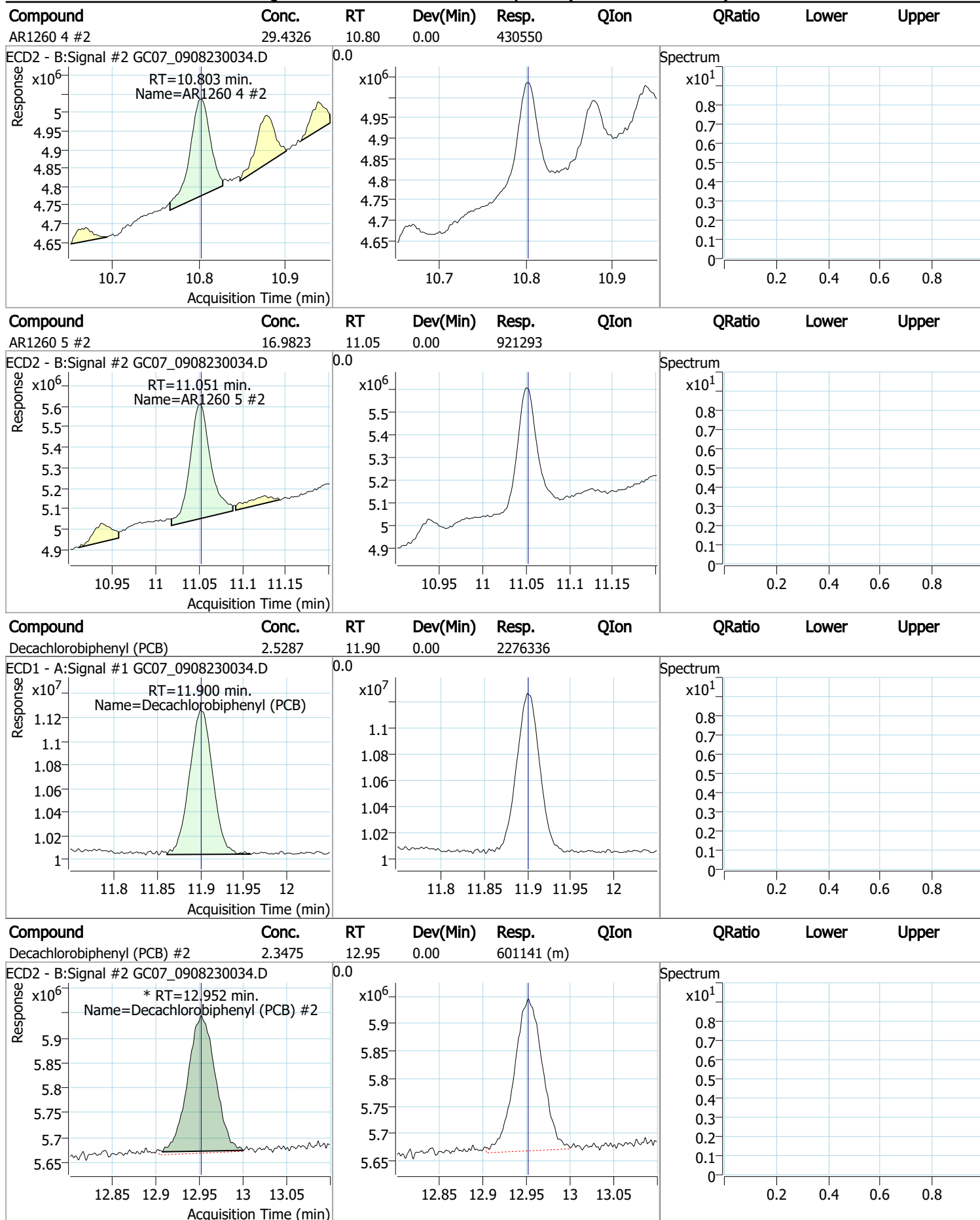
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

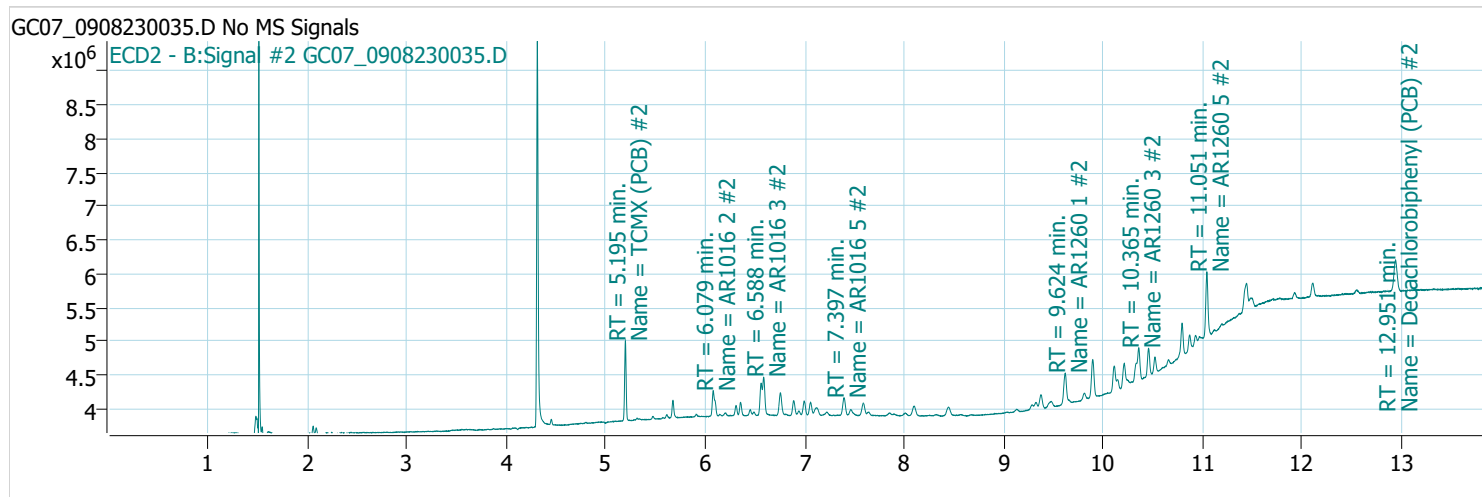
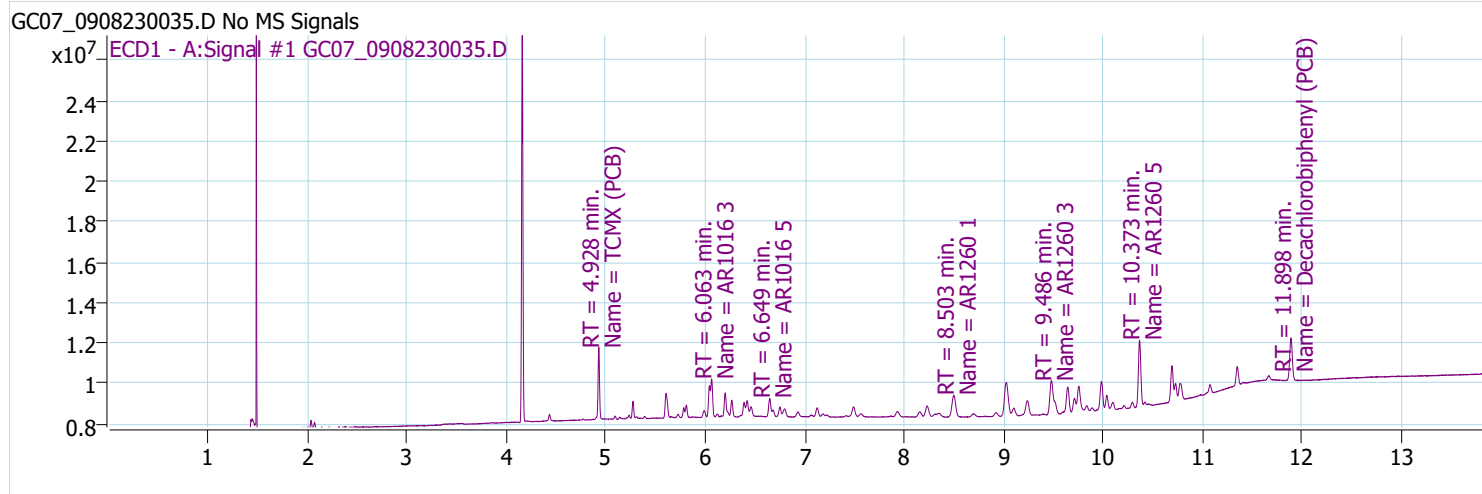


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC07_0908230035.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	9/8/2023 9:10:37 PM
Sample Name	ICAL, S18456	Instrument	SVOA-GC07
Vial	13	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_1.m	Comment	50 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	090823PCB_ICAL.batch.bin	Last Calib Update	9/11/2023 11:12:29 AM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.157	0.0	18203825.1 89	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.308	0.0	6089957.84 3	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.928	0.0	3717170.21 7	4.4689	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 22.34%	*	
S TCMX (PCB) #2	5.195	0.0	1281852.78 5	4.0292	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.15%	*	
S Decachlorobiphenyl (PCB)	11.898	0.0	3979485.53 7	4.5596	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 22.80%	*	
S Decachlorobiphenyl (PCB) #2	12.951	0.0	1086177.86 9	4.3894	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 21.95%	*	

Target Compounds

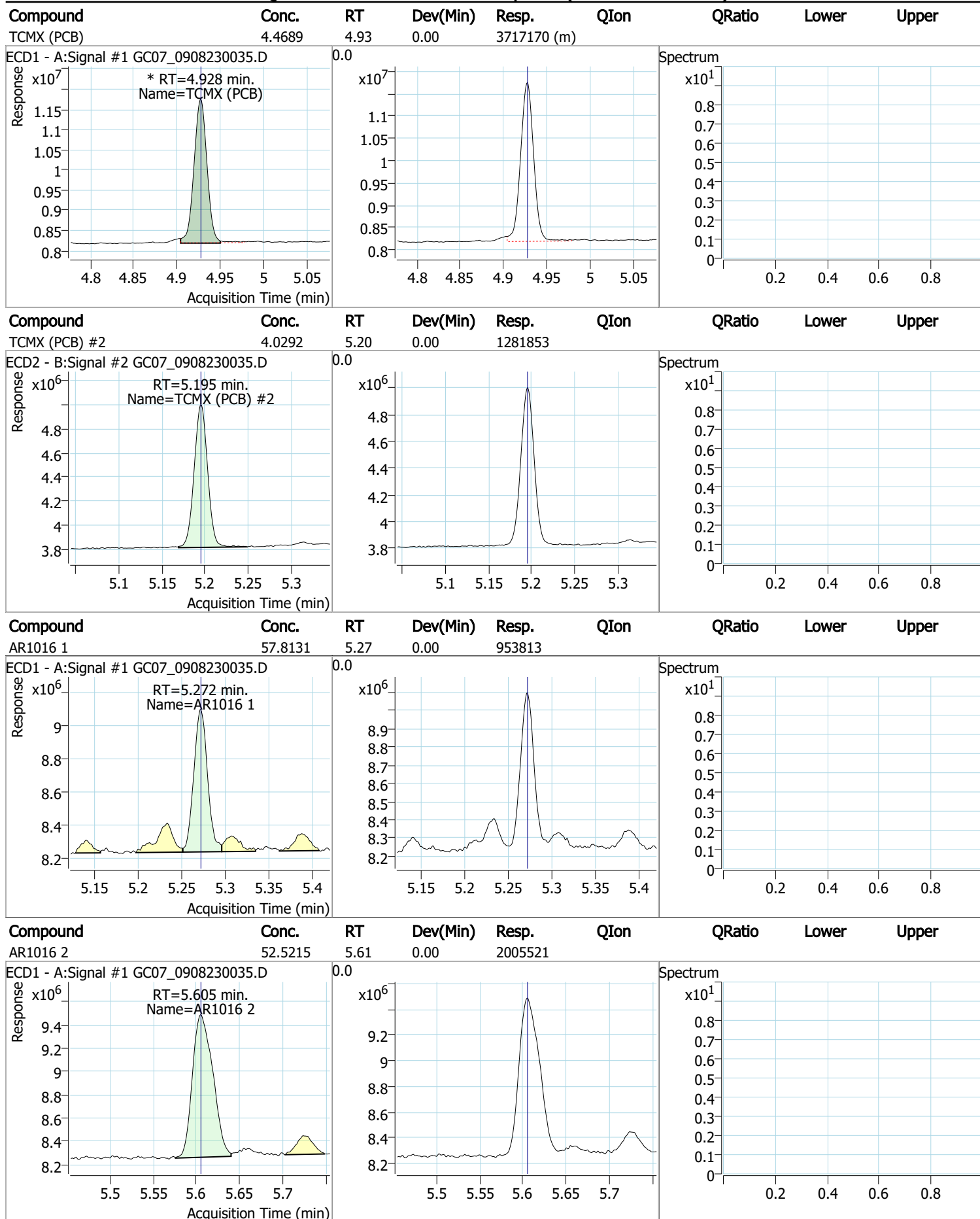
QValue

Quantitation Results Report (Not Reviewed)

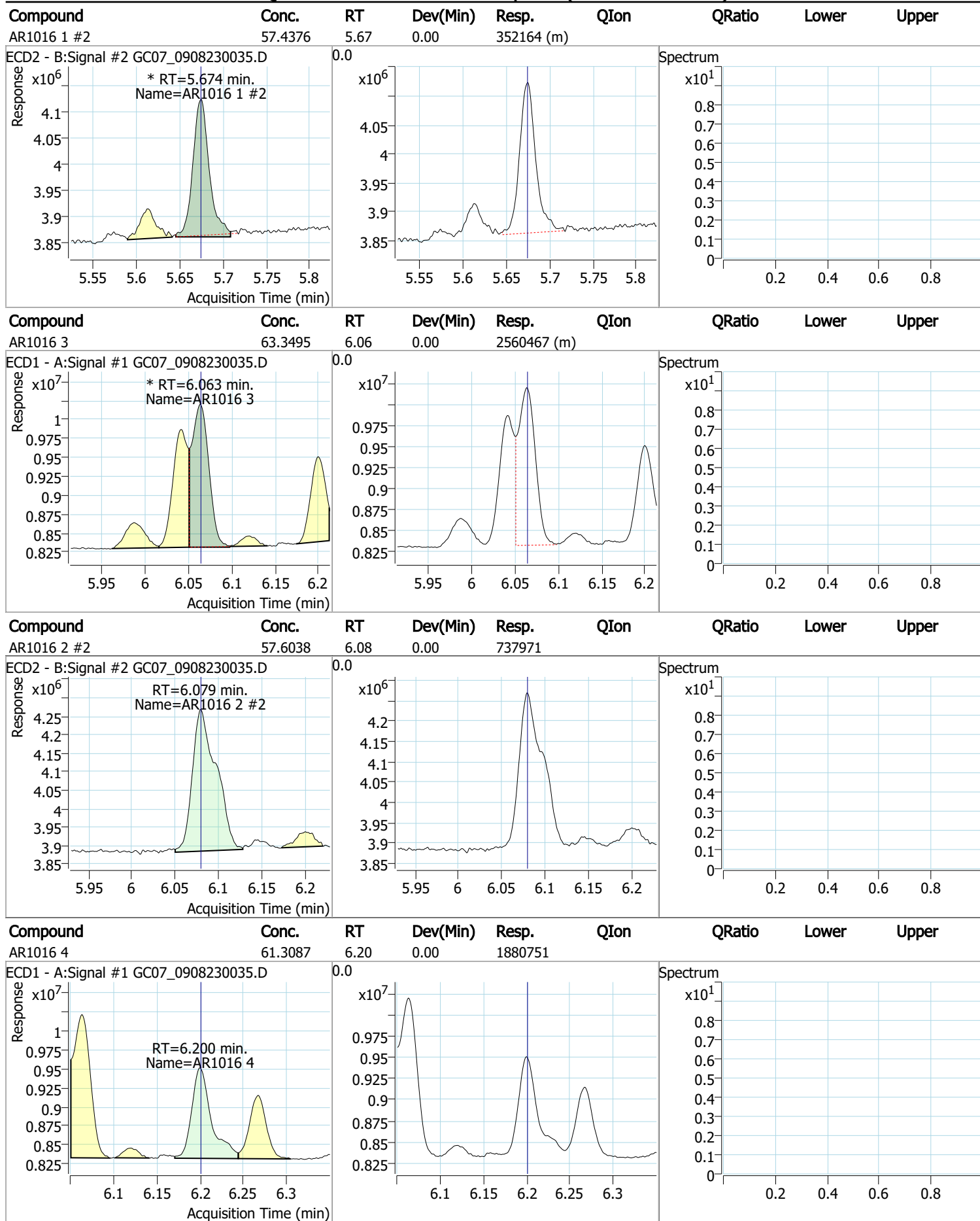
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.272	0.0	953813.379	57.8131	ng/ml	100
T AR1016 2	5.605	0.0	2005521.319	52.5215	ng/ml	100
T AR1016 1 #2	5.674	0.0	352164.195	57.4376	ng/ml m	100
T AR1016 3	6.063	0.0	2560467.147	63.3495	ng/ml m	100
T AR1016 2 #2	6.079	0.0	737971.256	57.6038	ng/ml	100
T AR1016 4	6.200	0.0	1880751.227	61.3087	ng/ml	100
T AR1016 3 #2	6.588	0.0	890204.090	57.1444	ng/ml m	100
T AR1016 5	6.649	0.0	1489321.560	61.7651	ng/ml	100
T AR1016 4 #2	6.755	0.0	625032.505	56.0567	ng/ml m	100
T AR1016 5 #2	7.397	0.0	504794.044	55.3021	ng/ml	100
T AR1260 1	8.503	0.0	2946874.096	62.0699	ng/ml m	100
T AR1260 2	9.032	0.0	4444862.295	61.9875	ng/ml	100
T AR1260 3	9.486	0.0	4752539.107	55.4922	ng/ml	100
T AR1260 1 #2	9.624	0.0	969553.923	55.0110	ng/ml	100
T AR1260 2 #2	9.902	0.0	999699.561	55.1118	ng/ml	100
T AR1260 4	9.990	0.0	2717760.960	57.2775	ng/ml	100
T AR1260 3 #2	10.365	0.0	1169493.550	53.4951	ng/ml m	100
T AR1260 5	10.373	0.0	5854878.060	43.1005	ng/ml m	100
T AR1260 4 #2	10.801	0.0	766239.098	54.2045	ng/ml	100
T AR1260 5 #2	11.051	0.0	1528024.716	44.1295	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

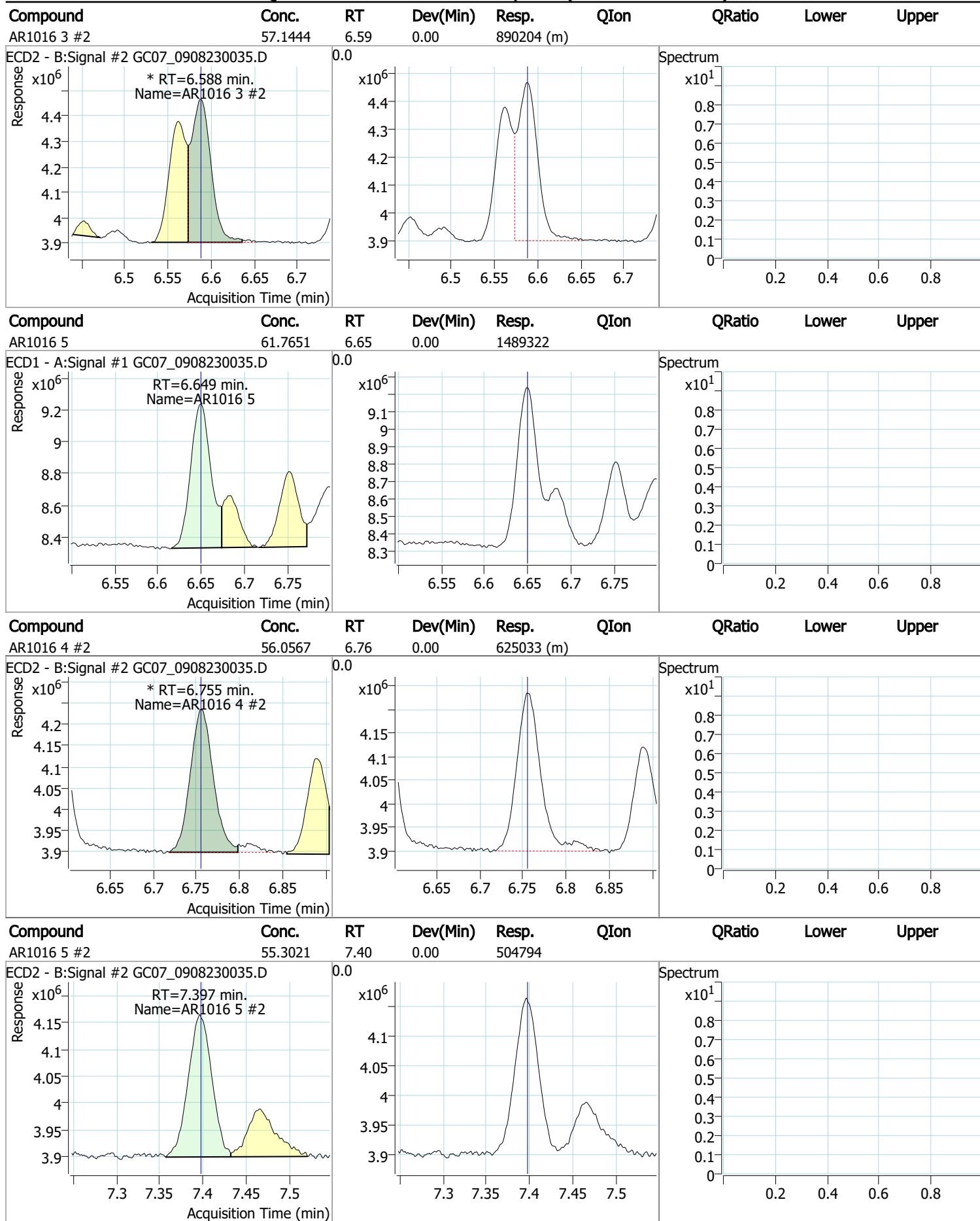
Quantitation Results Report (Not Reviewed)



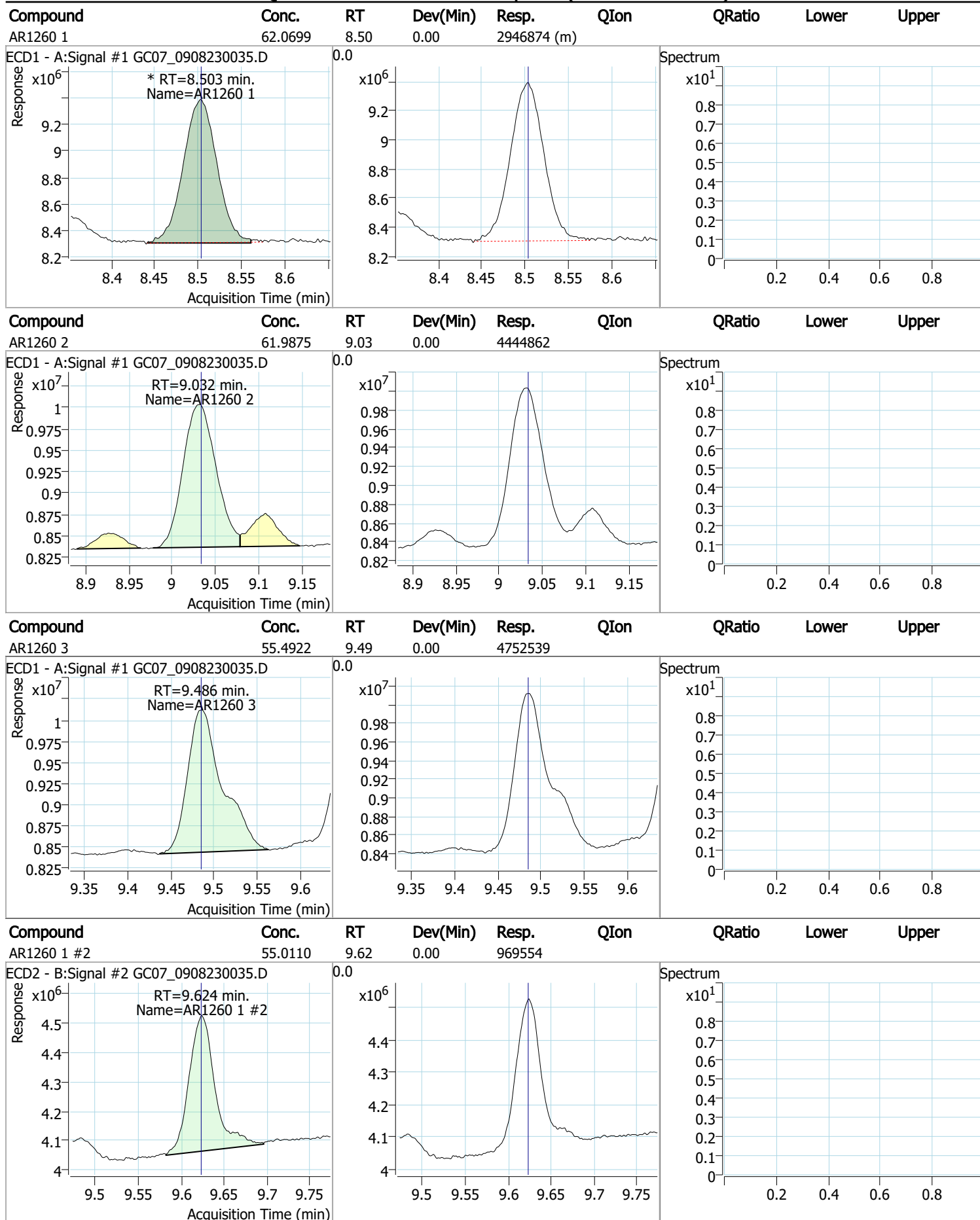
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

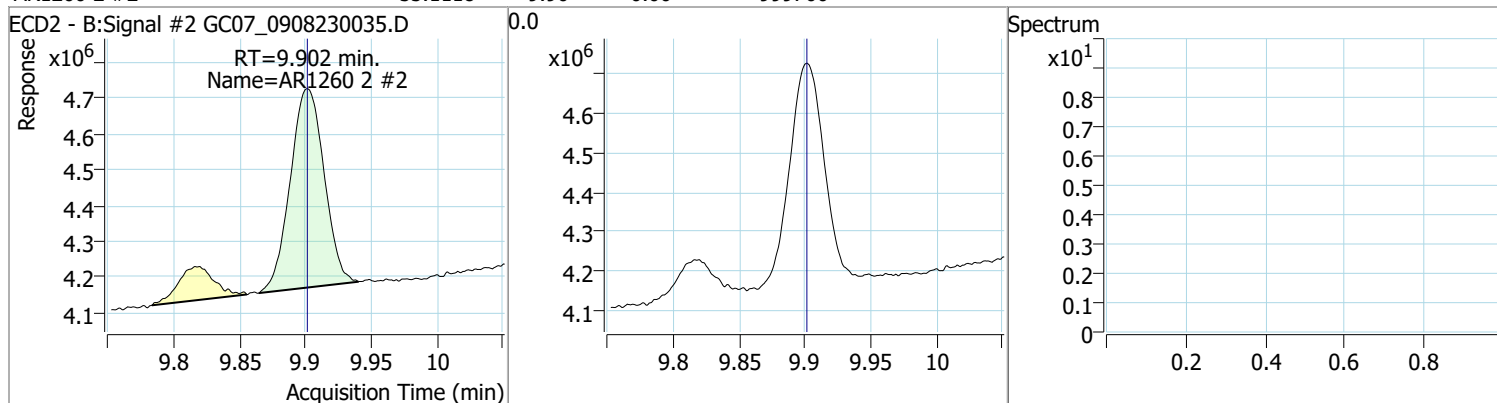


Quantitation Results Report (Not Reviewed)

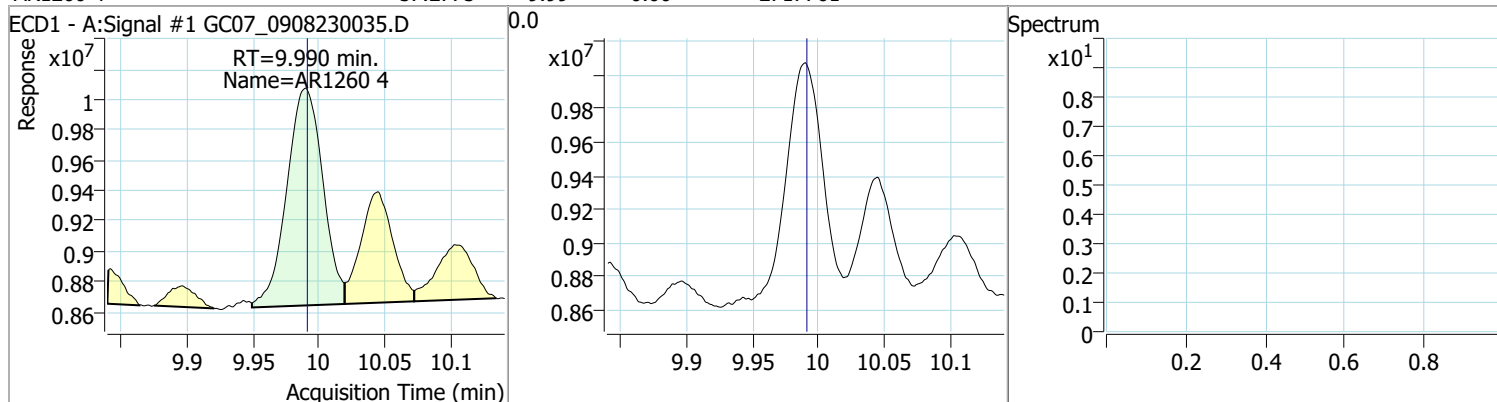


Quantitation Results Report (Not Reviewed)

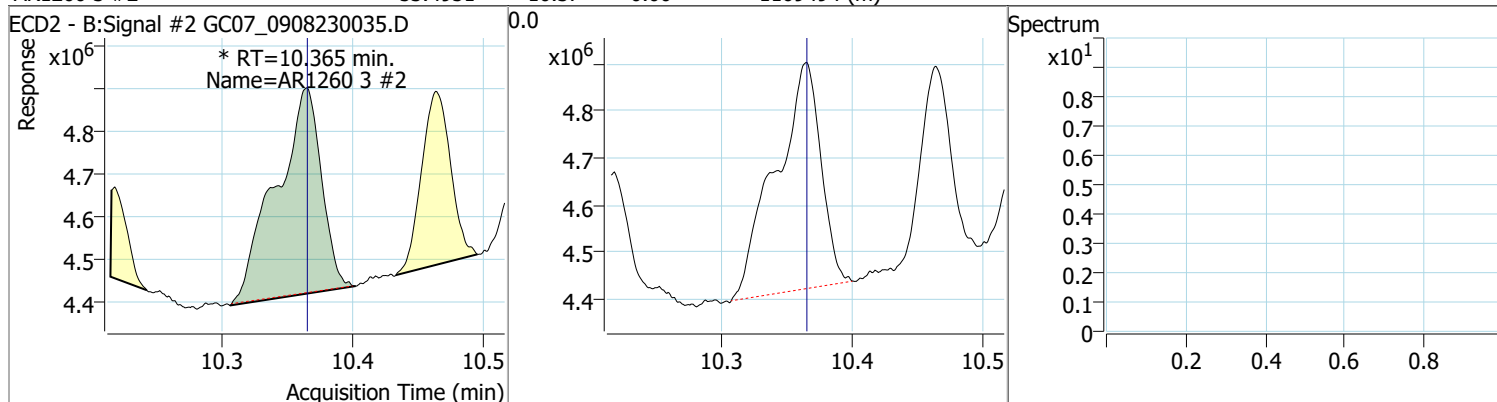
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	55.1118	9.90	0.00	999700				



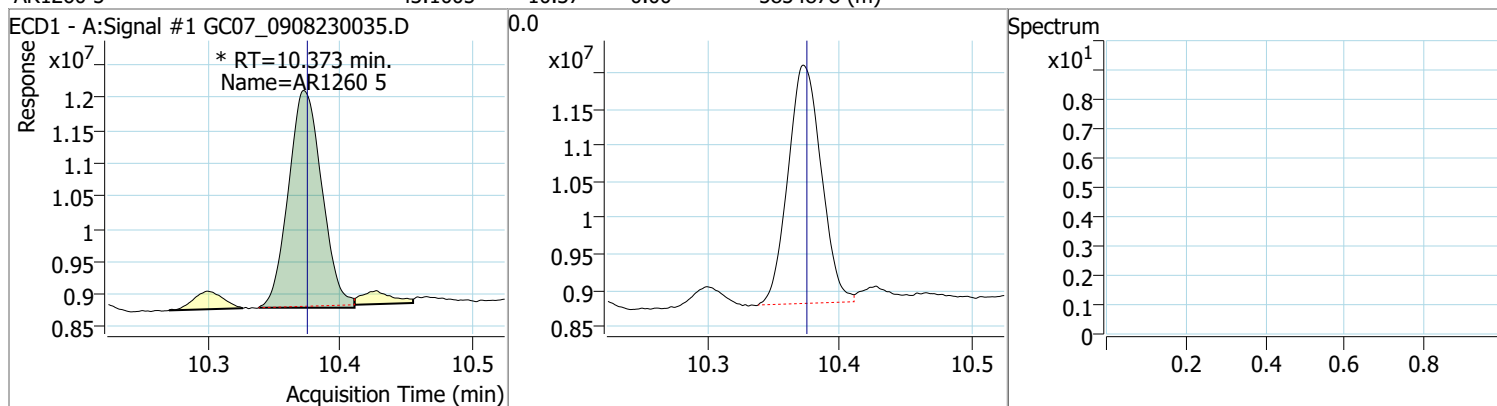
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	57.2775	9.99	0.00	2717761				



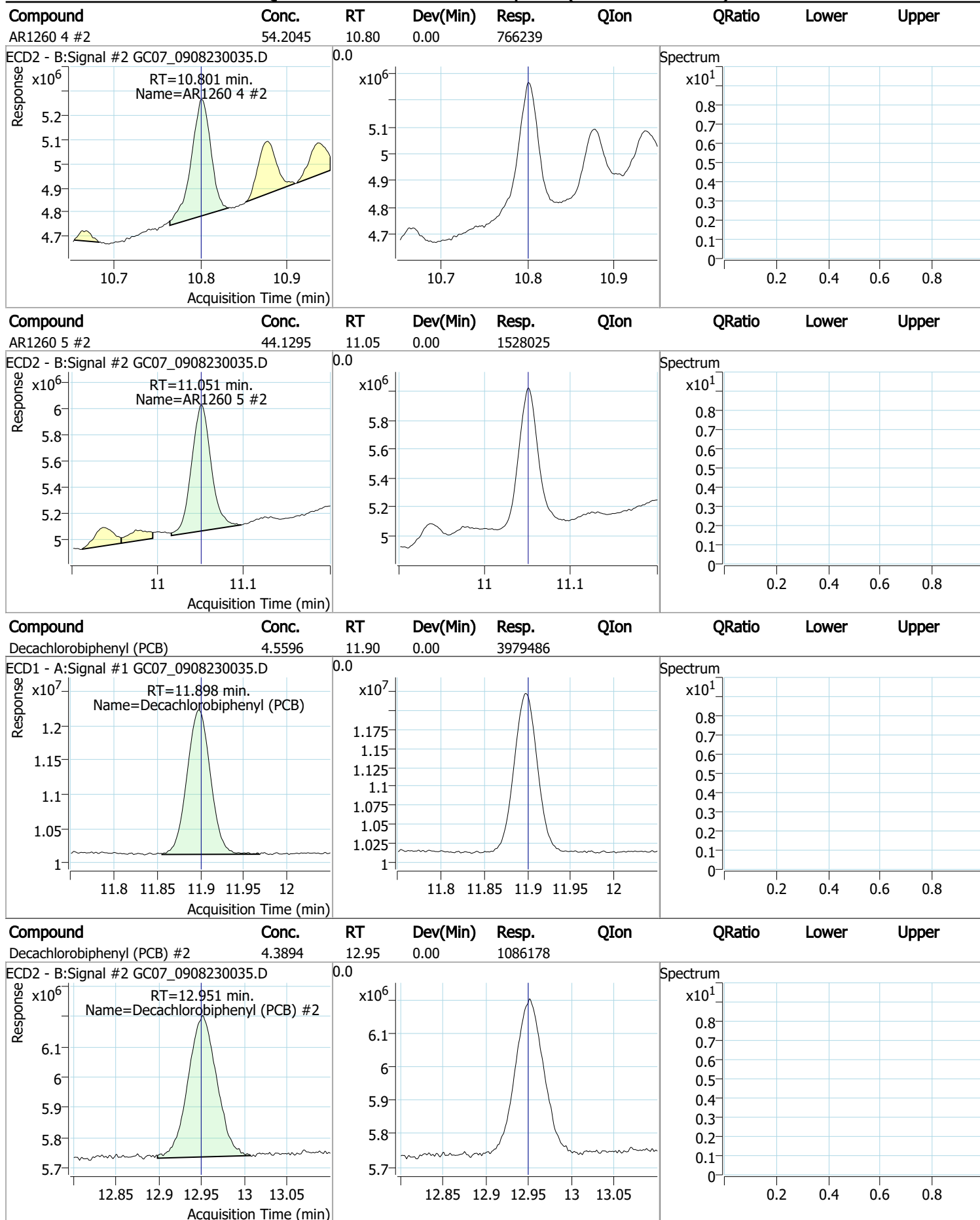
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	53.4951	10.37	0.00	1169494 (m)				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	43.1005	10.37	0.00	5854878 (m)				

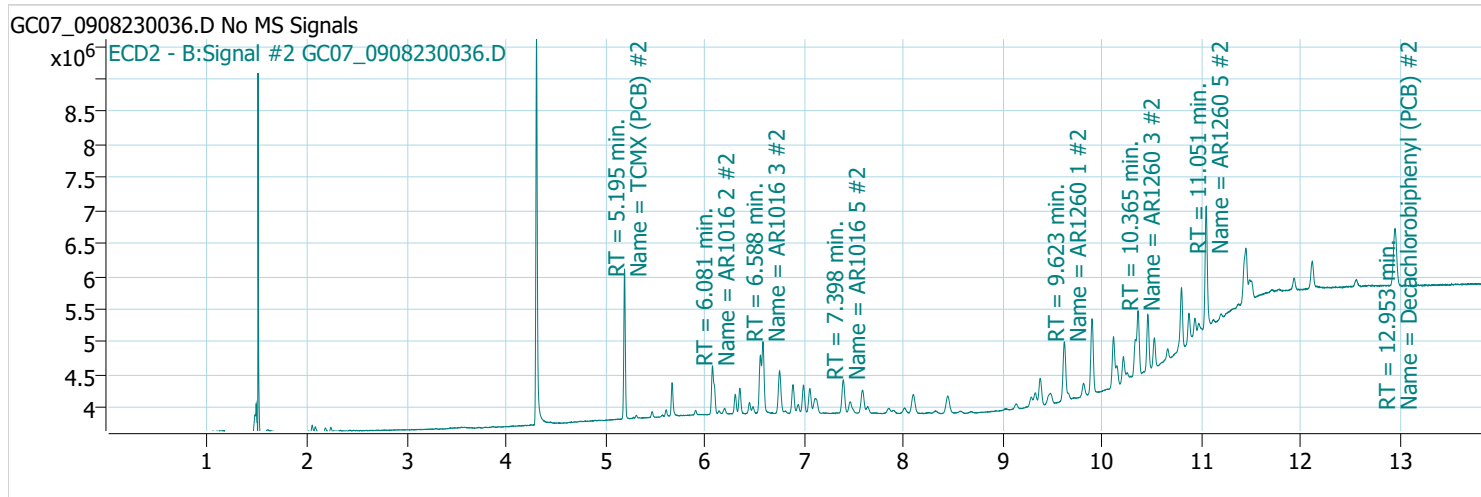
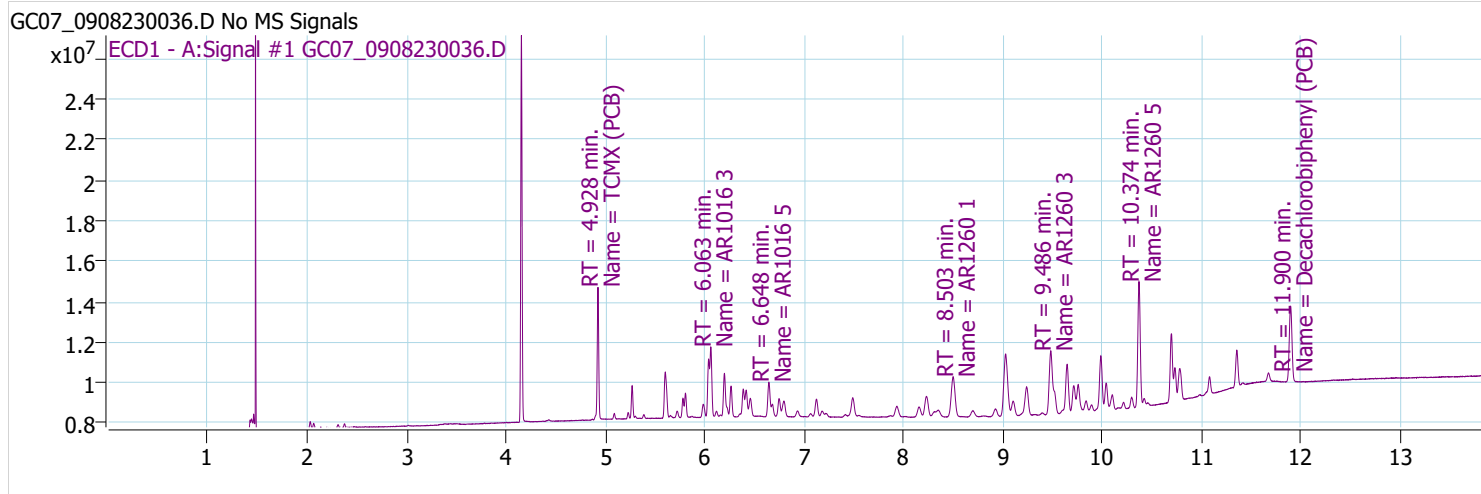


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC07_0908230036.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	9/8/2023 9:28:10 PM
Sample Name	ICAL, S18457	Instrument	SVOA-GC07
Vial	14	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_1.m	Comment	100 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	090823PCB_ICAL.batch.bin	Last Calib Update	9/11/2023 11:12:29 AM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.157	0.0	17970339.8 42	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.309	0.0	6194805.19 6	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.928	0.0	6877054.01 2	8.3753	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 41.88%	*	
S TCMX (PCB) #2	5.195	0.0	2410085.56 1	7.4473	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 37.24%	*	
S Decachlorobiphenyl (PCB)	11.900	0.0	7213228.95 7	8.3721	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 41.86%	*	
S Decachlorobiphenyl (PCB) #2	12.953	0.0	2058529.03 9	8.1780	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.89%	*	

Target Compounds

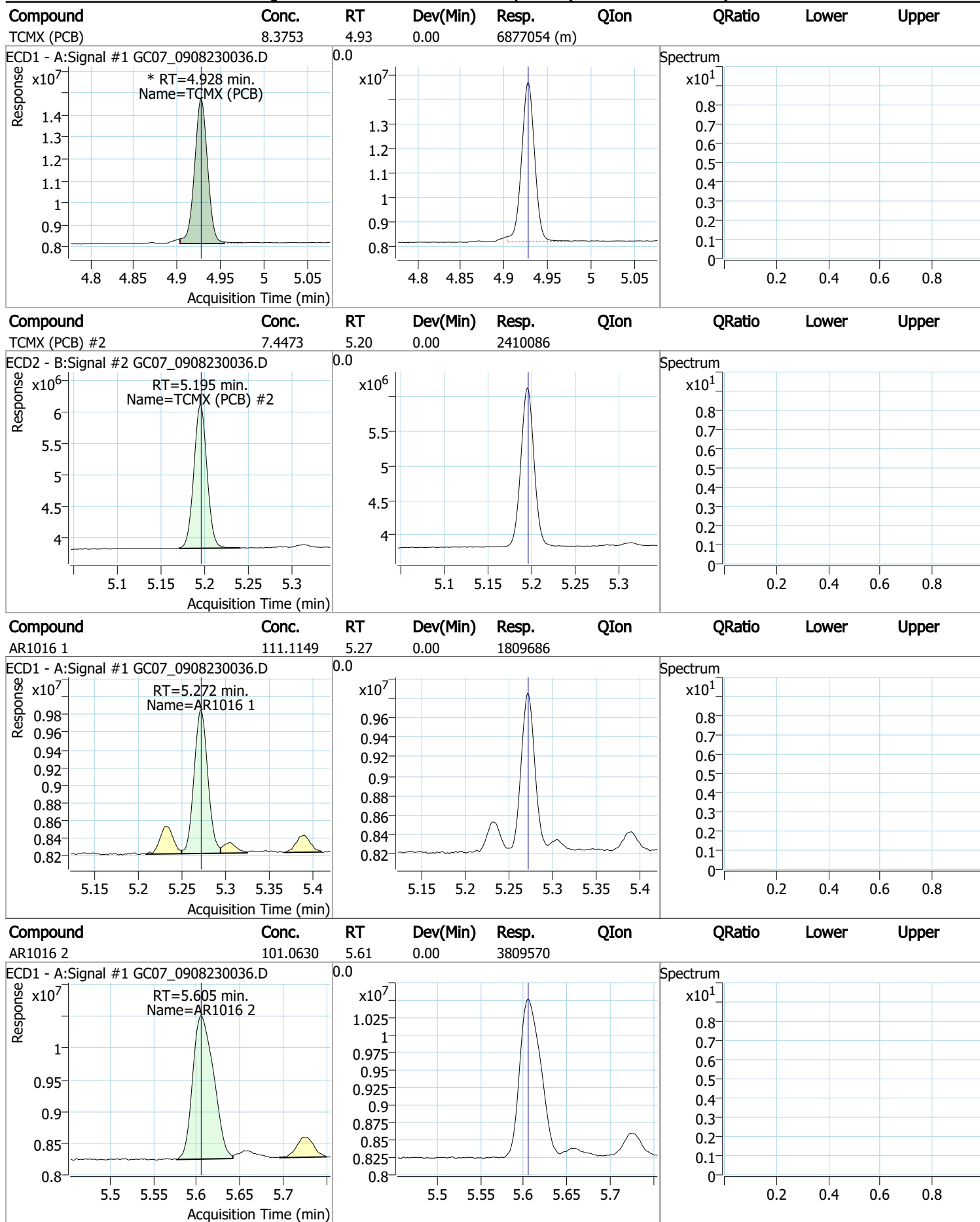
QValue

Quantitation Results Report (Not Reviewed)

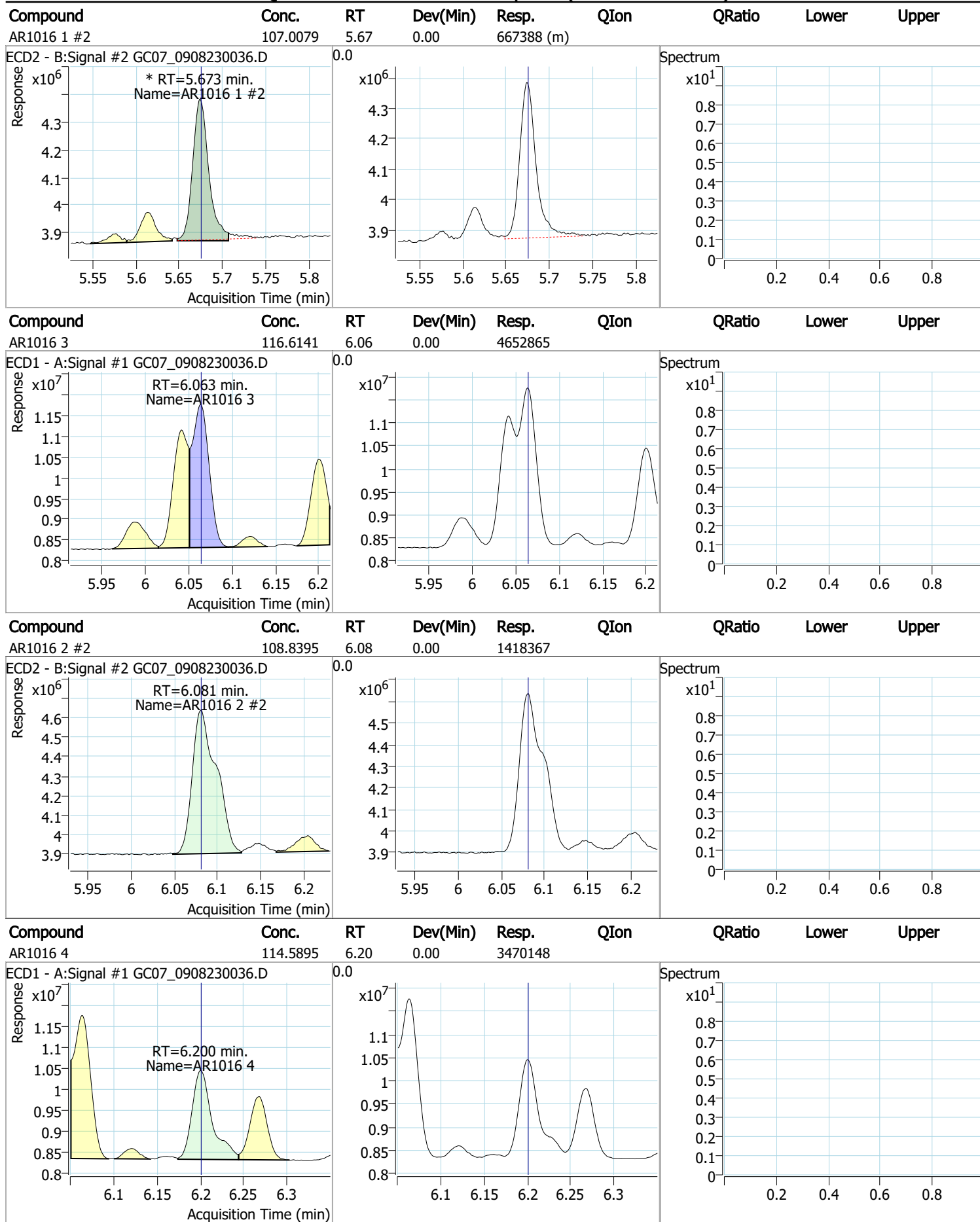
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.272	0.0	1809685.80 9	111.1149	ng/ml	100
T AR1016 2	5.605	0.0	3809569.64 3	101.0630	ng/ml	100
T AR1016 1 #2	5.673	0.0	667387.642	107.0079	ng/ml m	100
T AR1016 3	6.063	0.0	4652865.00 4	116.6141	ng/ml	100
T AR1016 2 #2	6.081	0.0	1418366.79 9	108.8395	ng/ml	100
T AR1016 4	6.200	0.0	3470148.09 0	114.5895	ng/ml	100
T AR1016 3 #2	6.588	0.0	1687101.08 8	106.4662	ng/ml m	100
T AR1016 5	6.648	0.0	2773157.85 3	116.5025	ng/ml	100
T AR1016 4 #2	6.757	0.0	1214175.00 9	107.0515	ng/ml	100
T AR1016 5 #2	7.398	0.0	984179.026	105.9958	ng/ml	100
T AR1260 1	8.503	0.0	5426001.07 3	115.7726	ng/ml m	100
T AR1260 2	9.032	0.0	8313301.51 0	117.4426	ng/ml	100
T AR1260 3	9.486	0.0	8810092.82 0	104.2061	ng/ml	100
T AR1260 1 #2	9.623	0.0	1997328.34 2	111.4074	ng/ml m	100
T AR1260 2 #2	9.902	0.0	2054877.20 1	111.3648	ng/ml	100
T AR1260 4	9.990	0.0	5094685.24 2	108.7668	ng/ml	100
T AR1260 3 #2	10.365	0.0	2411527.60 0	108.4415	ng/ml m	100
T AR1260 5	10.374	0.0	10635771.6 03	101.9633	ng/ml	100
T AR1260 4 #2	10.802	0.0	1520270.82 0	105.7253	ng/ml m	100
T AR1260 5 #2	11.051	0.0	2924622.21 1	101.6197	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

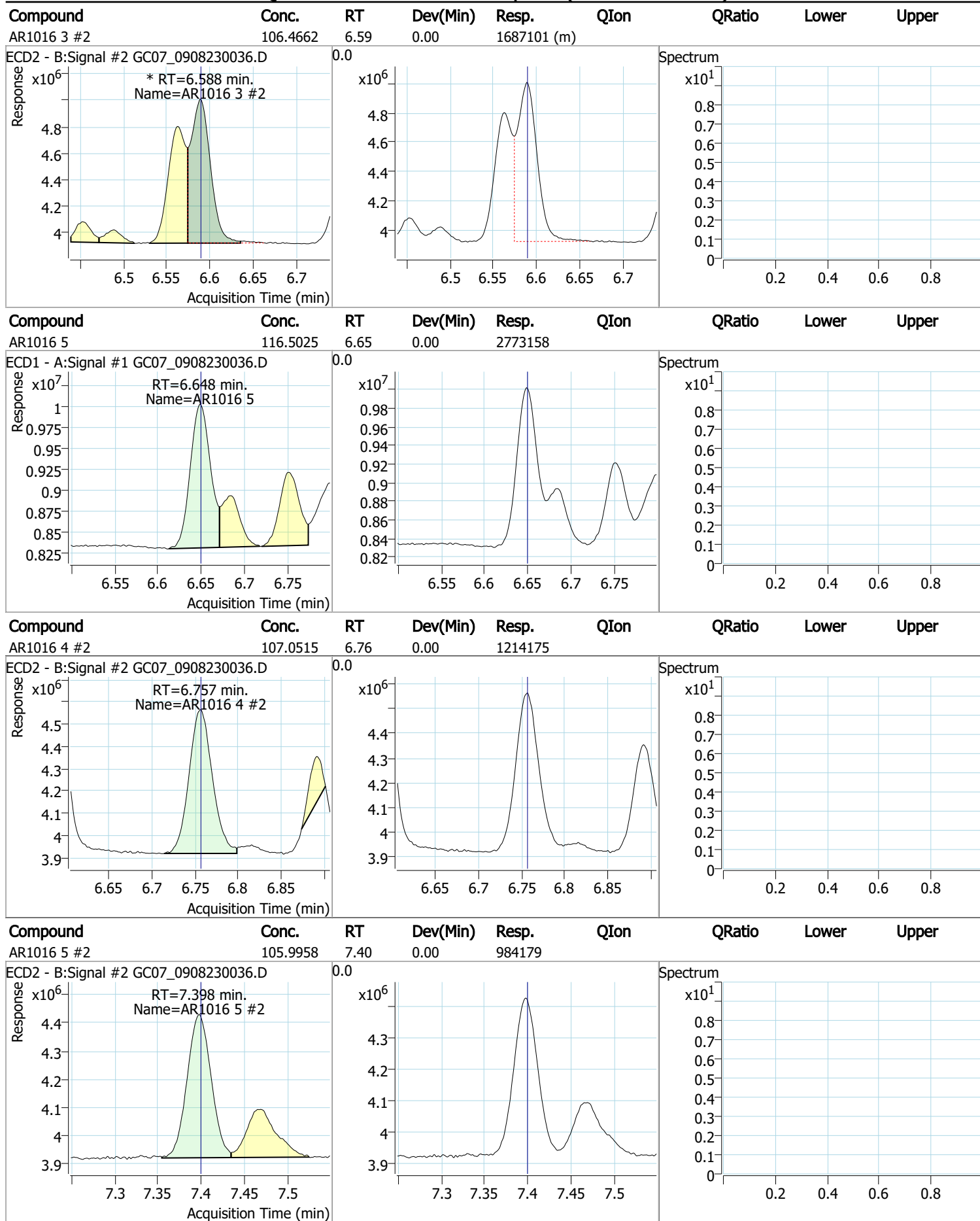
Quantitation Results Report (Not Reviewed)



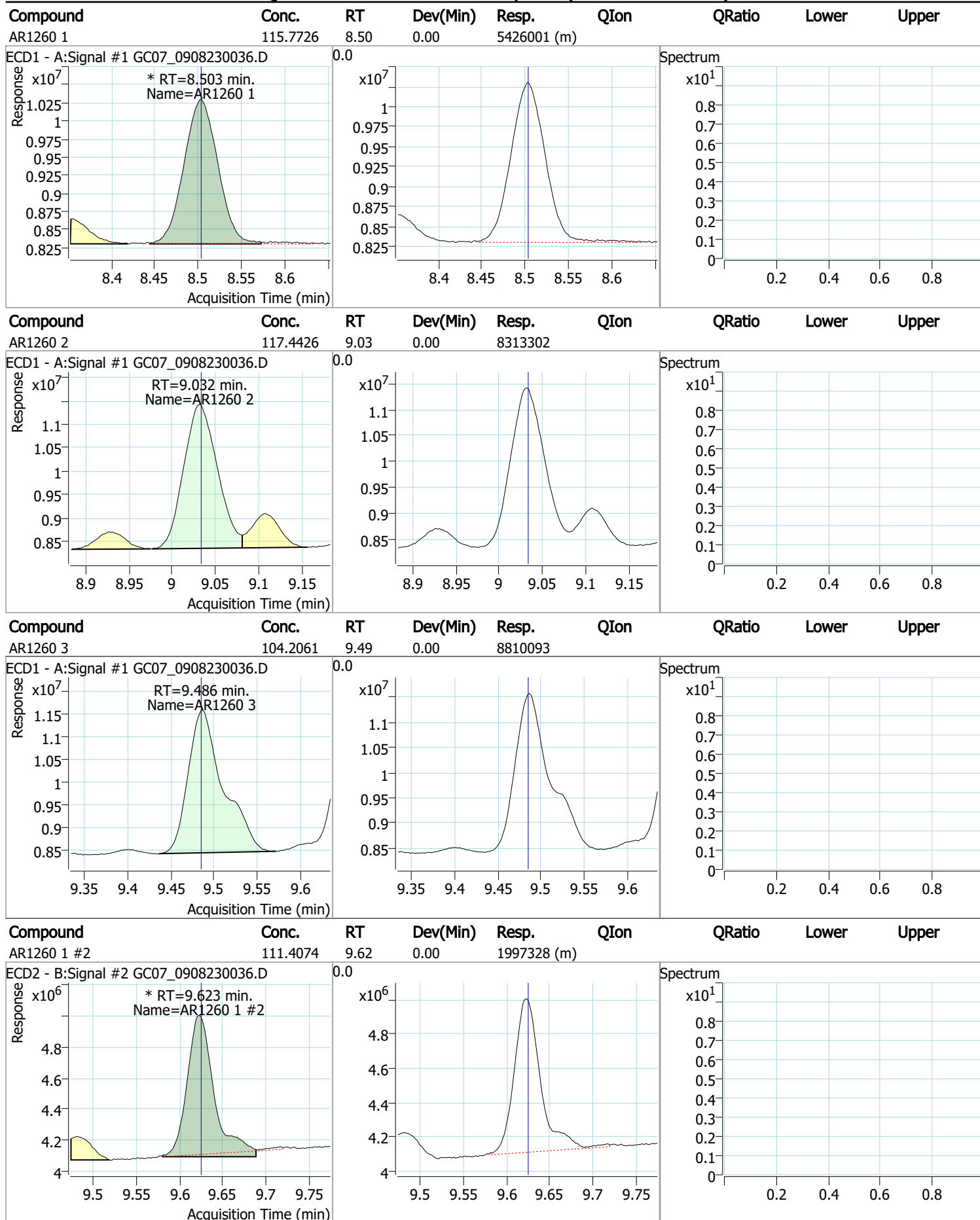
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

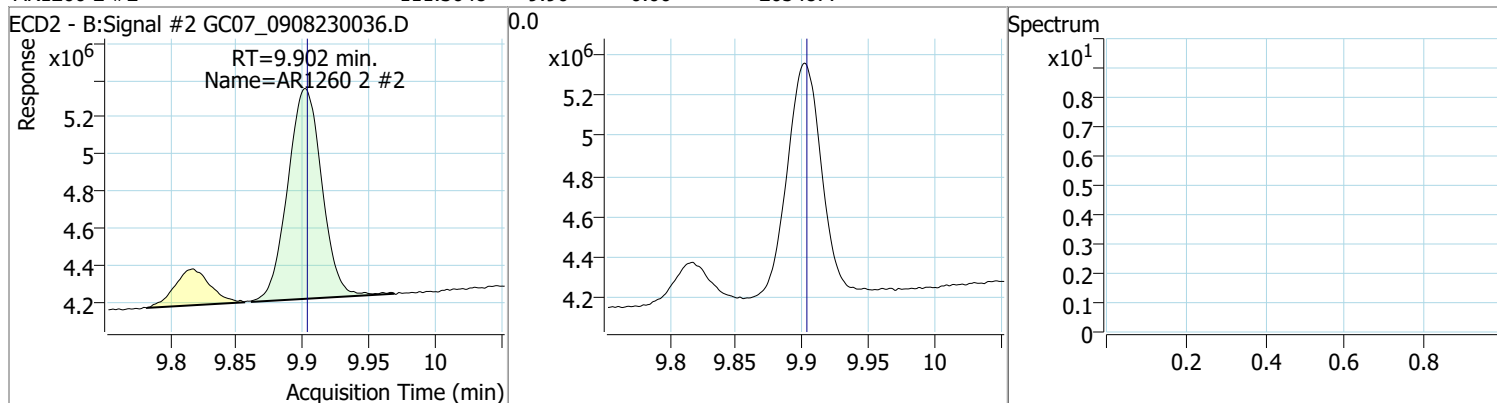


Quantitation Results Report (Not Reviewed)

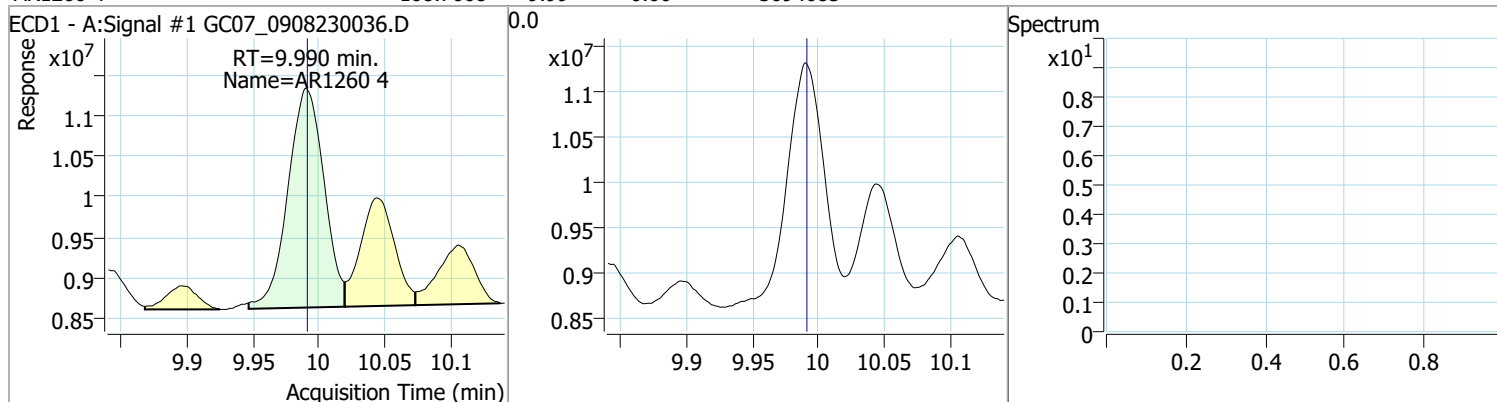


Quantitation Results Report (Not Reviewed)

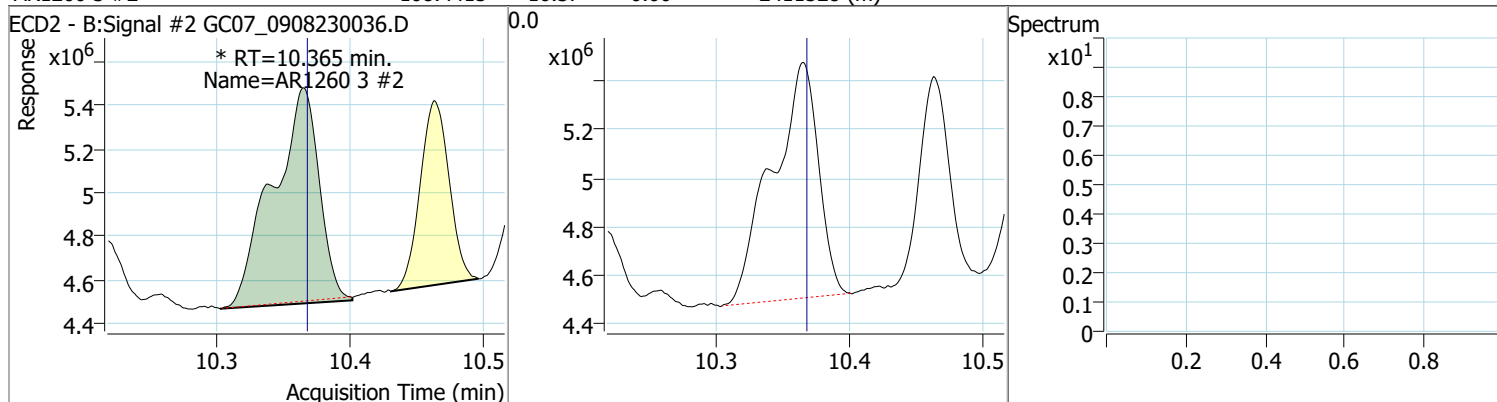
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	111.3648	9.90	0.00	2054877				



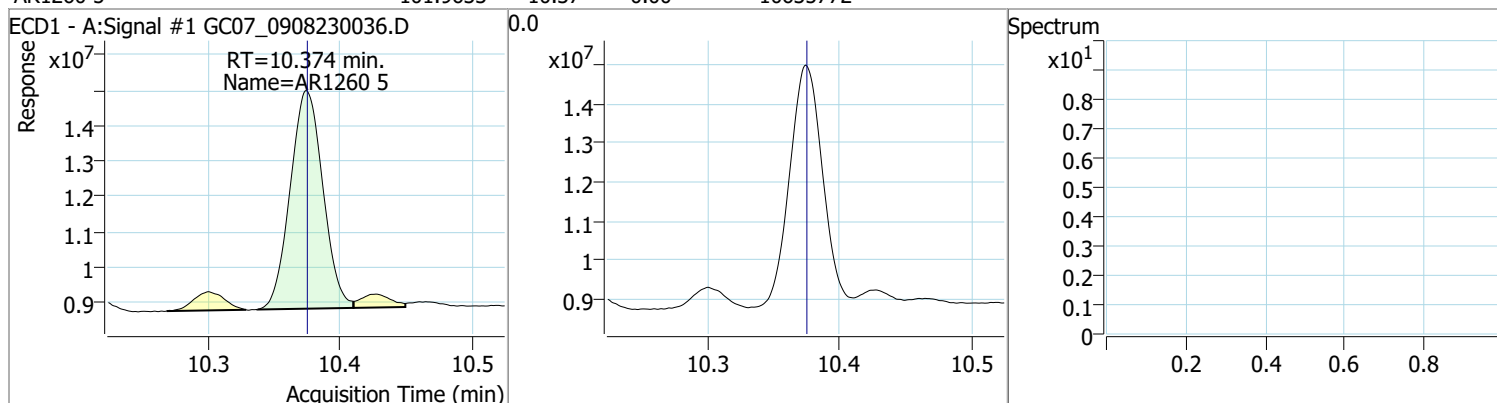
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	108.7668	9.99	0.00	5094685				



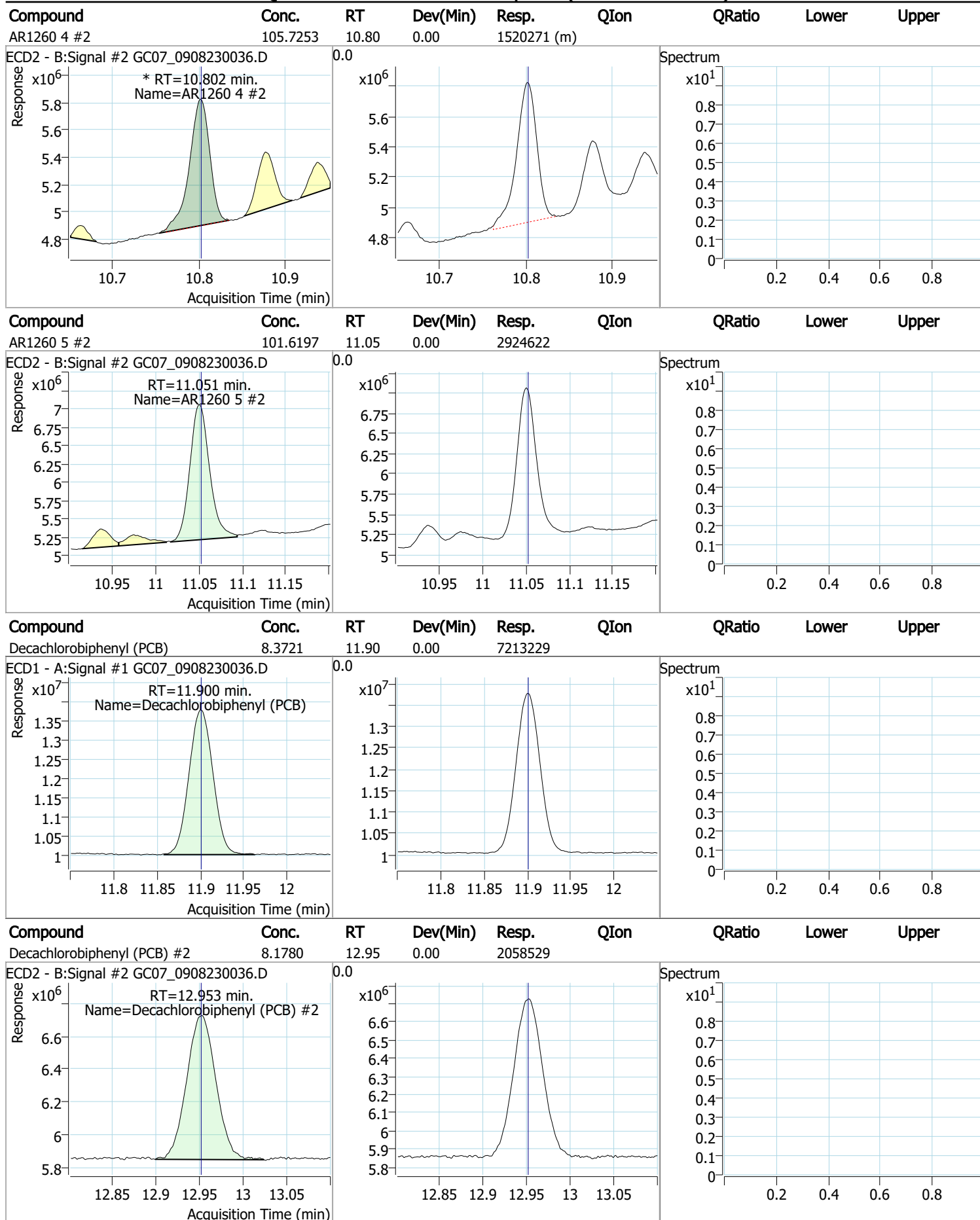
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	108.4415	10.37	0.00	2411528 (m)				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	101.9633	10.37	0.00	10635772				



Quantitation Results Report (Not Reviewed)

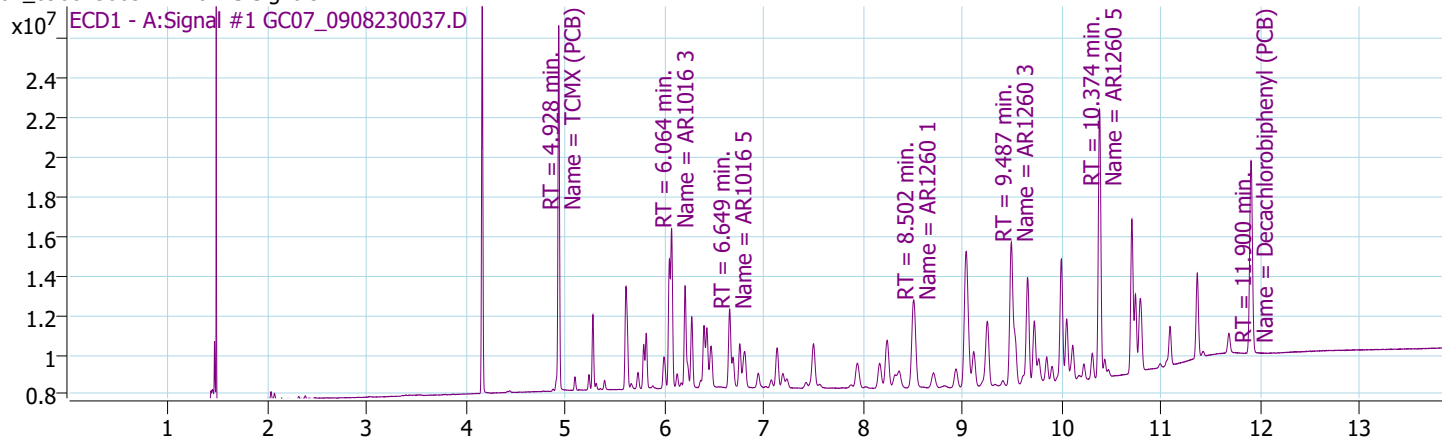


Quantitation Results Report (Not Reviewed)

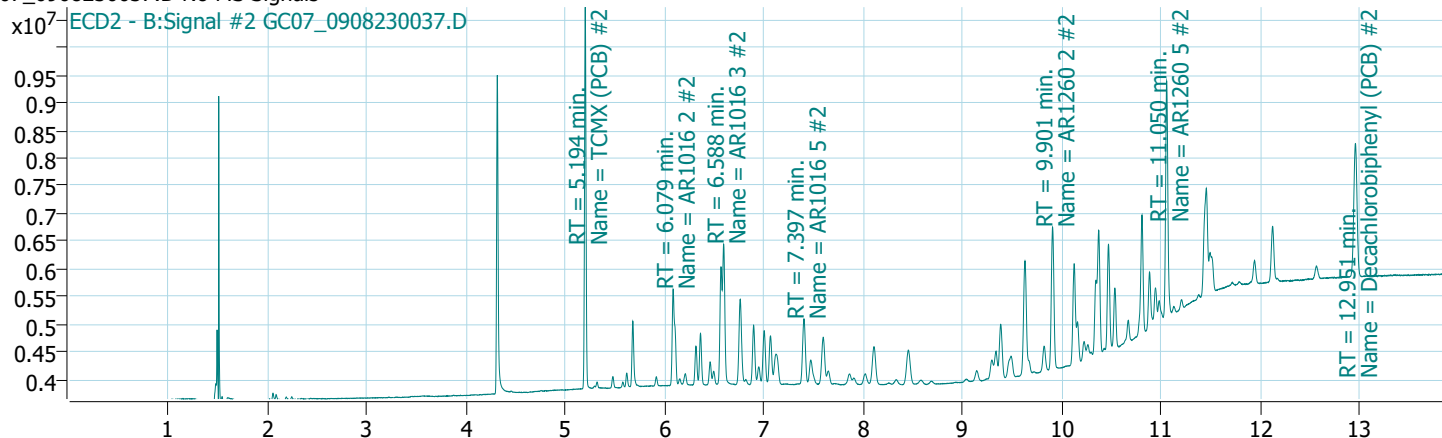
Data File GC07_0908230037.D
 Acq. Method Acq_Pesticide_052623_3
 Sample Name ICAL, S18458
 Vial 15
 DA Method File PCB_608_090823_GC07_1.m
 Tune File ATUNE.U
 Batch Name 090823PCB_ICAL.batch.bin
 Ref Library

Operator SVOA
 Acq. Date-Time 9/8/2023 9:45:37 PM
 Instrument SVOA-GC07
 Multiplier 1.00
 Comment 250 PPB PCB ICAL
 Tune Date
 Last Calib Update 9/11/2023 11:12:29 AM

GC07_0908230037.D No MS Signals



GC07_0908230037.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.157	0.0	18189529.6 21	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.308	0.0	6276540.97 9	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.928	0.0	20071511.2 29	24.1497	ng/ml m	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 120.75%			
S TCMX (PCB) #2	5.194	0.0	7369744.75 8	22.4763	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 112.38%			
S Decachlorobiphenyl (PCB)	11.900	0.0	19069113.8 69	21.8661	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 109.33%			
S Decachlorobiphenyl (PCB) #2	12.951	0.0	5524302.27 5	21.6607	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 108.30%			

Target Compounds

QValue

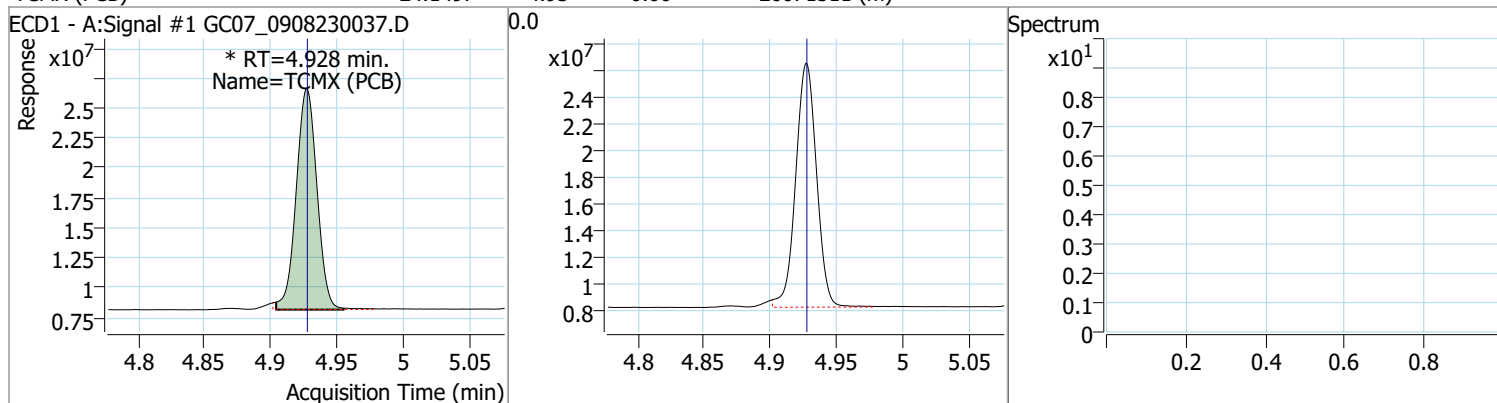
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.272	0.0	4234475.43 1	256.8642	ng/ml	100
T AR1016 2	5.605	0.0	8807270.06 4	230.8300	ng/ml	100
T AR1016 1 #2	5.673	0.0	1583091.46 8	250.5248	ng/ml m	100
T AR1016 3	6.064	0.0	10891829.9 03	269.6908	ng/ml	100
T AR1016 2 #2	6.079	0.0	3372850.81 2	255.4480	ng/ml	100
T AR1016 4	6.200	0.0	8202516.80 8	267.5955	ng/ml	100
T AR1016 3 #2	6.588	0.0	4015060.79 8	250.0749	ng/ml m	100
T AR1016 5	6.649	0.0	6439850.75 0	267.2830	ng/ml	100
T AR1016 4 #2	6.755	0.0	2873285.48 7	250.0331	ng/ml m	100
T AR1016 5 #2	7.397	0.0	2368710.72 7	251.7872	ng/ml	100
T AR1260 1	8.502	0.0	12571092.0 95	264.9926	ng/ml	100
T AR1260 2	9.031	0.0	18974387.3 34	264.8225	ng/ml	100
T AR1260 3	9.487	0.0	20307261.9 67	237.3007	ng/ml	100
T AR1260 1 #2	9.623	0.0	4585293.15 4	252.4288	ng/ml m	100
T AR1260 2 #2	9.901	0.0	4725230.40 4	252.7507	ng/ml	100
T AR1260 4	9.990	0.0	11757981.6 62	247.9970	ng/ml	100
T AR1260 3 #2	10.366	0.0	5643741.90 0	250.4826	ng/ml m	100
T AR1260 5	10.374	0.0	24264790.3 75	265.8160	ng/ml	100
T AR1260 4 #2	10.802	0.0	3566313.96 2	244.7850	ng/ml	100
T AR1260 5 #2	11.050	0.0	6680099.94 4	256.5245	ng/ml	100

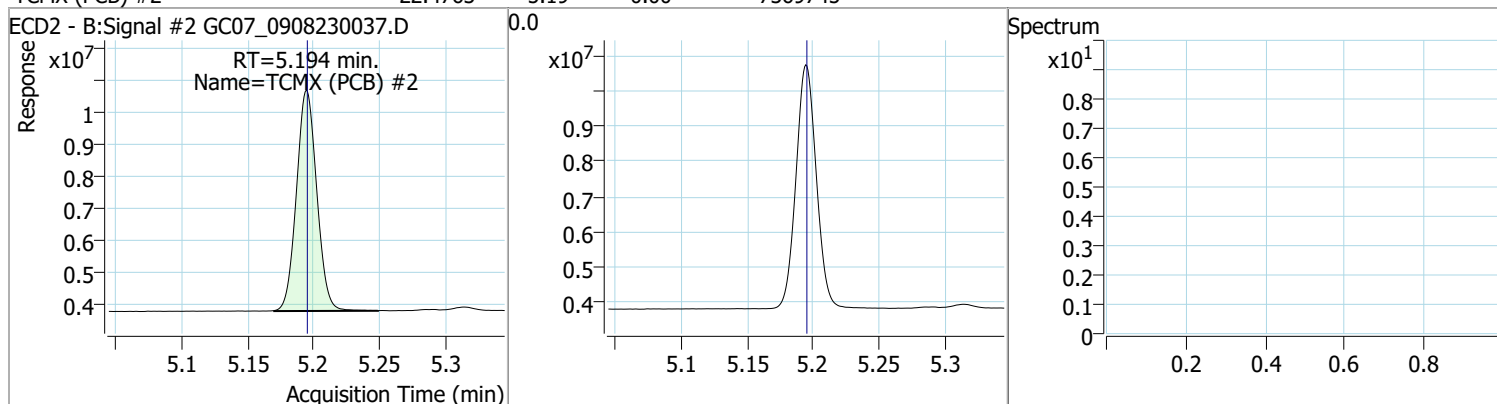
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

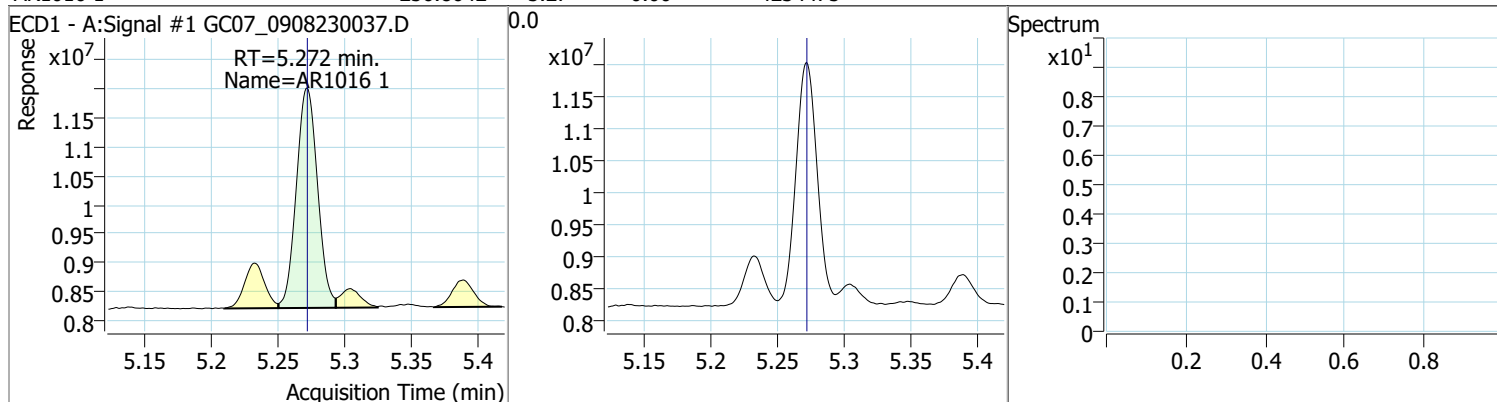
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	24.1497	4.93	0.00	20071511 (m)				



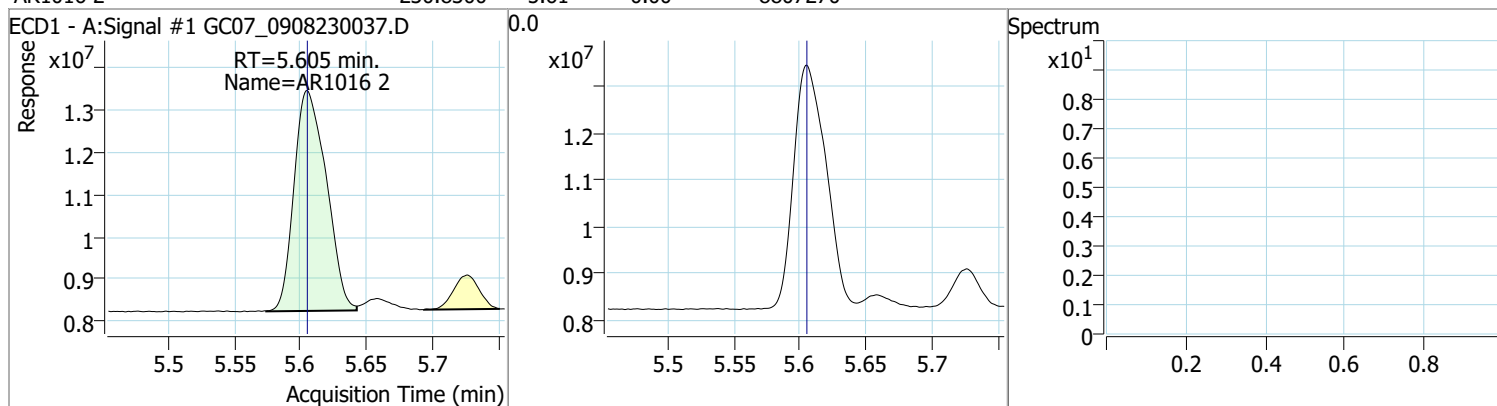
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	22.4763	5.19	0.00	7369745				



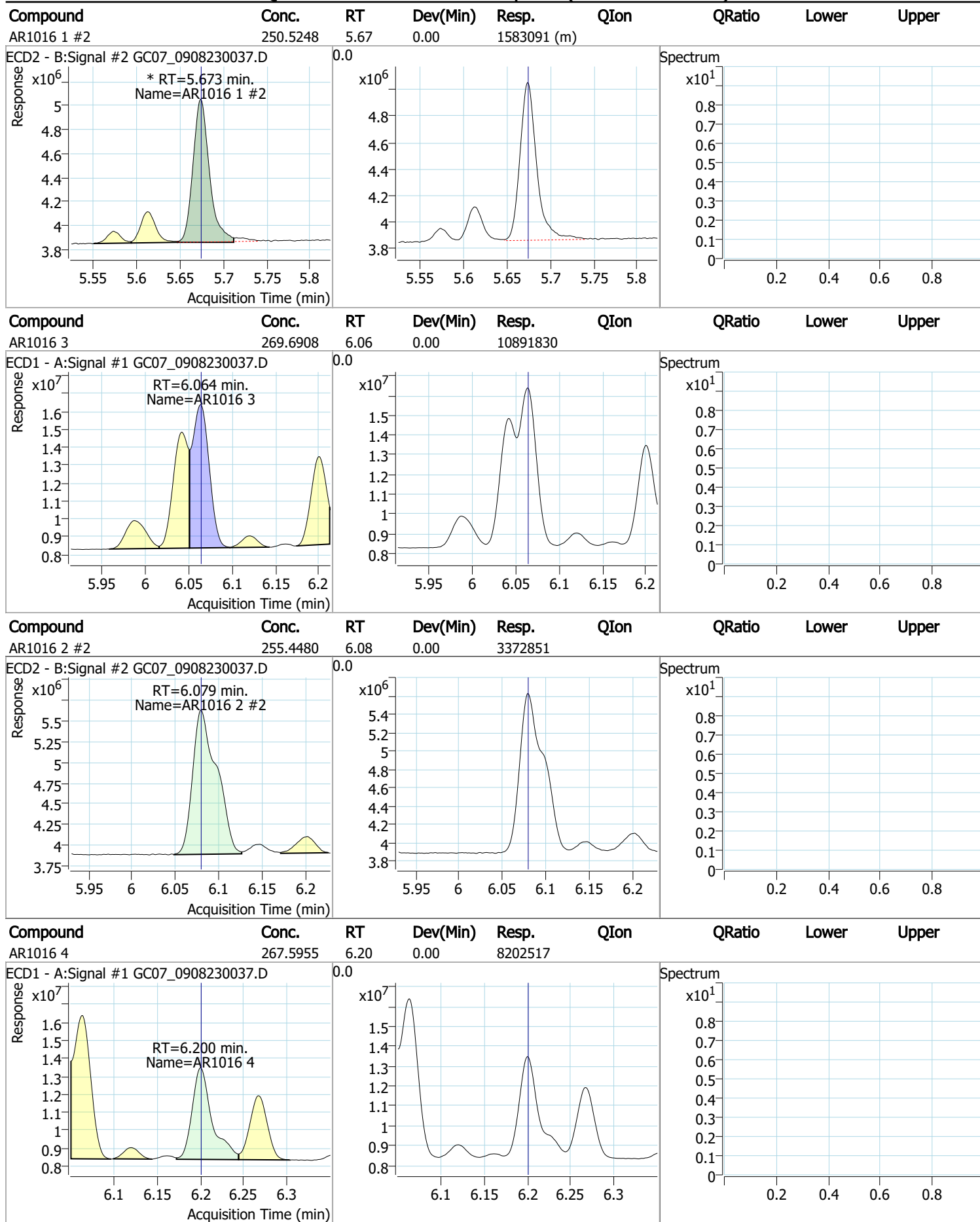
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	256.8642	5.27	0.00	4234475				



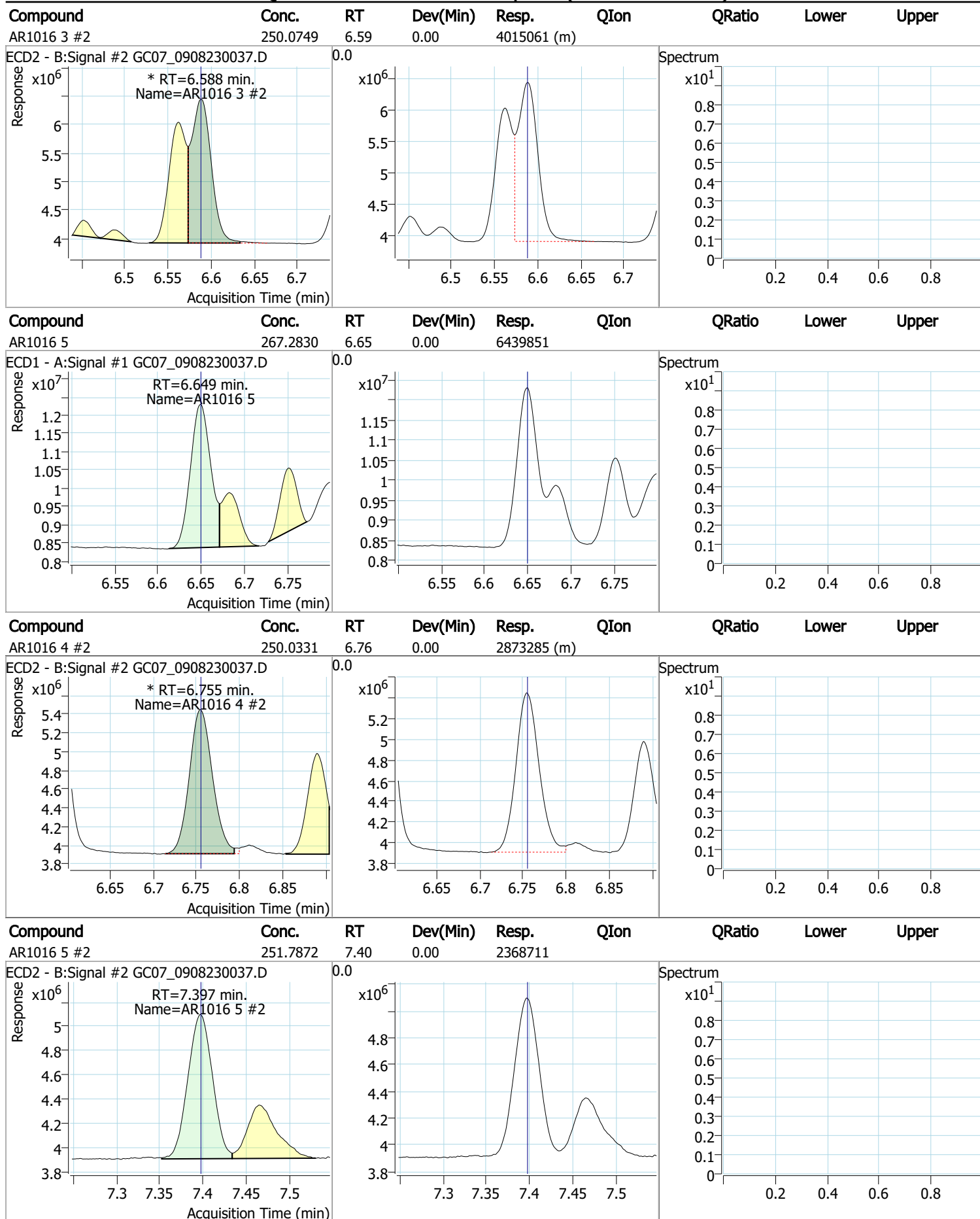
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	230.8300	5.61	0.00	8807270				



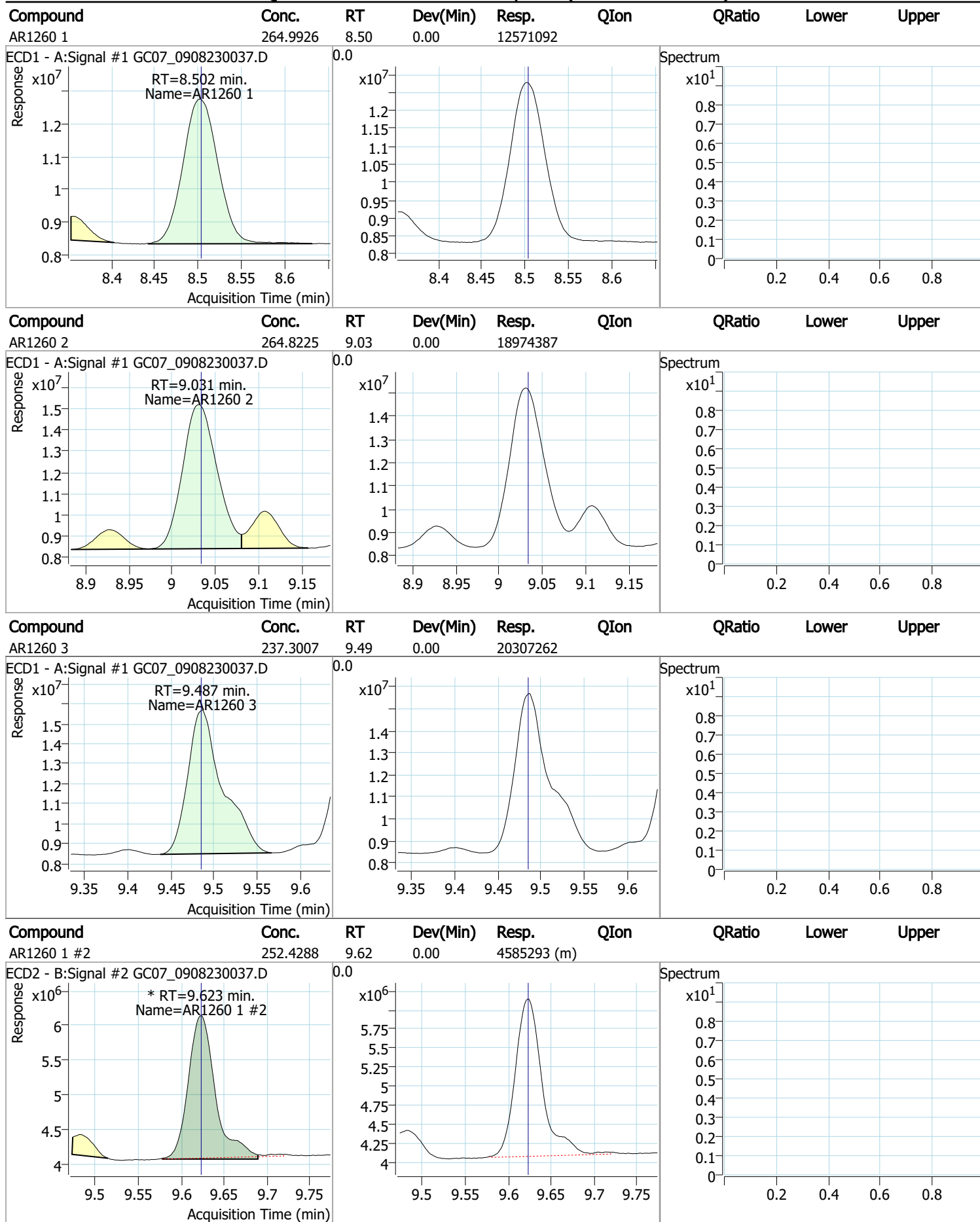
Quantitation Results Report (Not Reviewed)



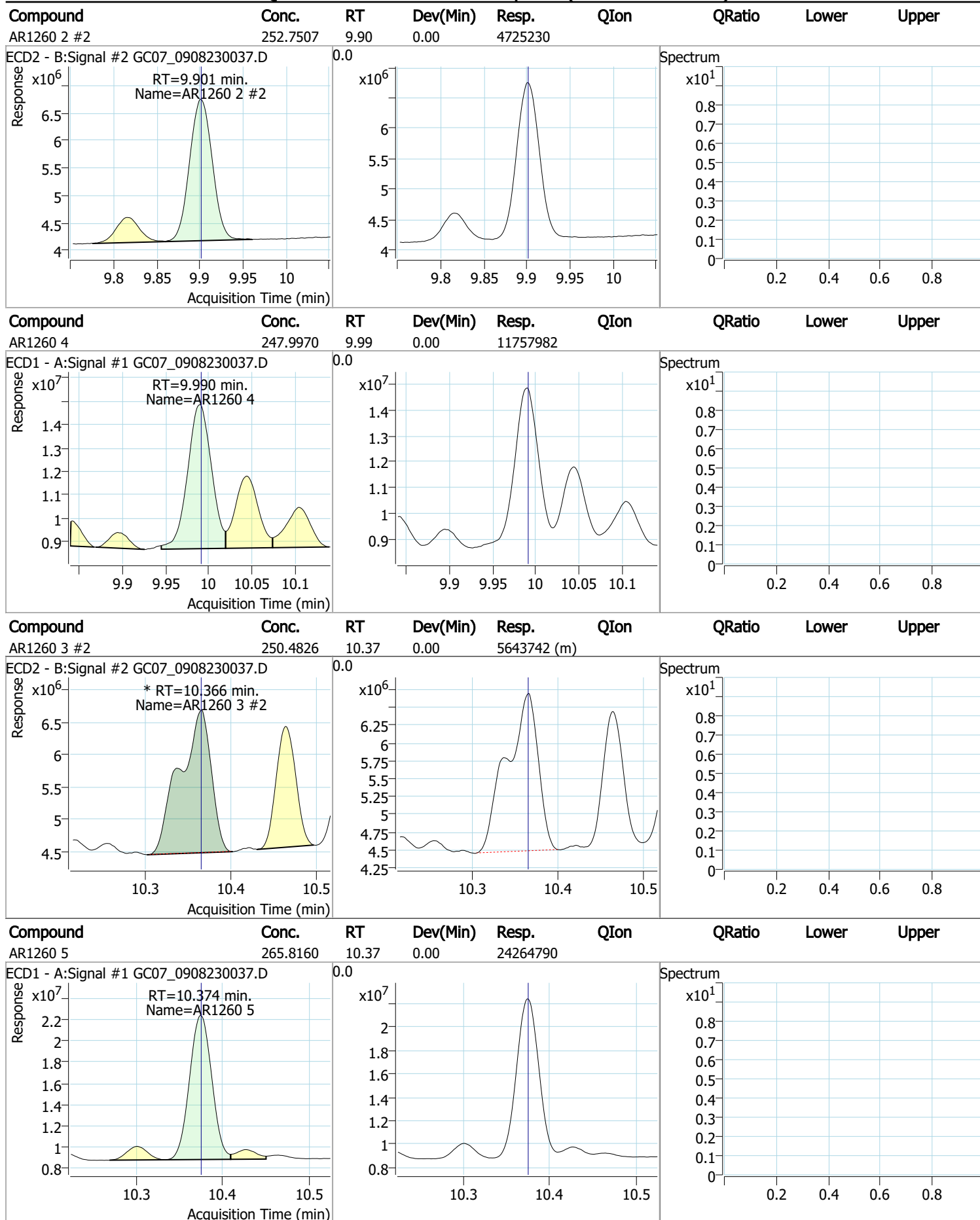
Quantitation Results Report (Not Reviewed)



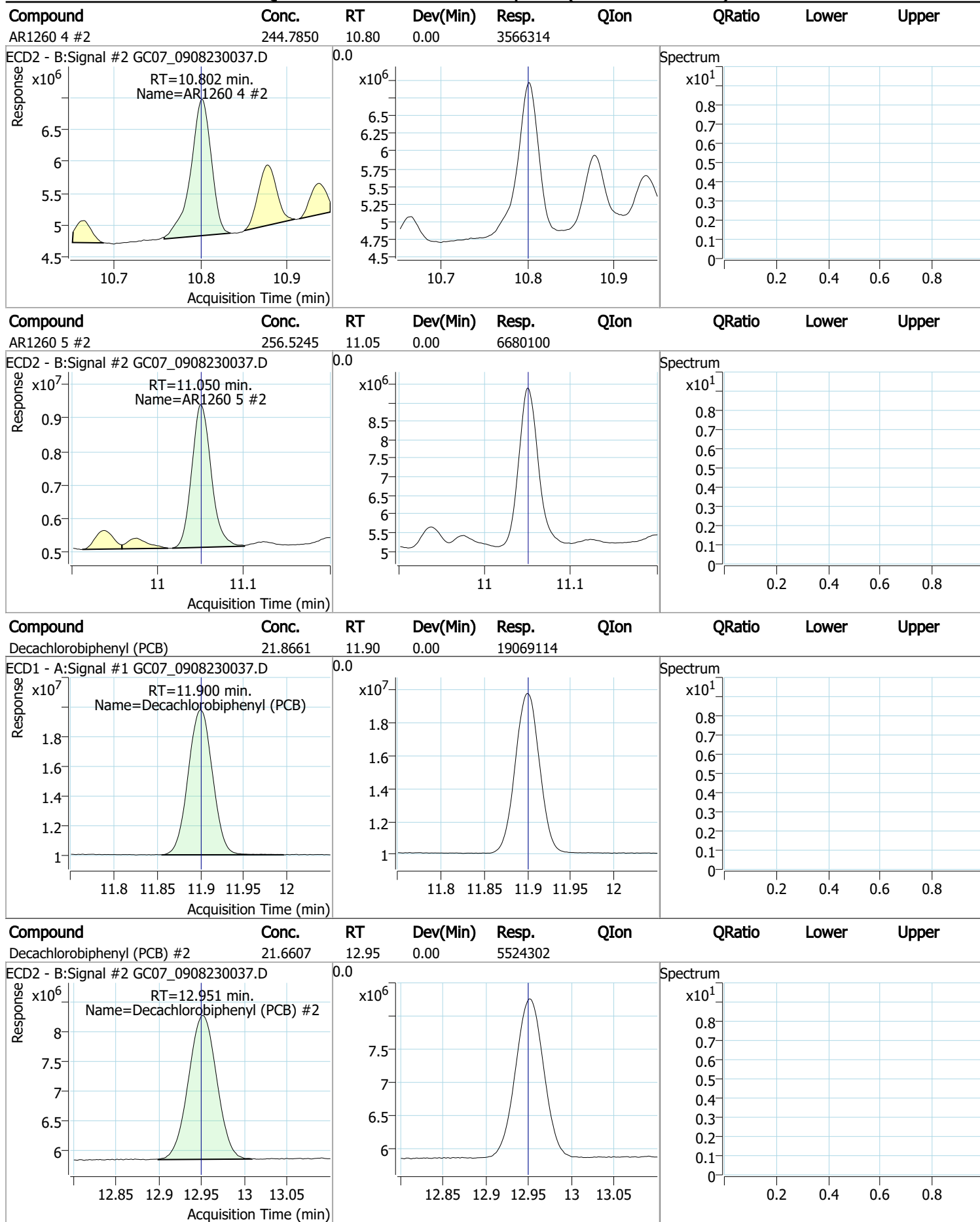
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

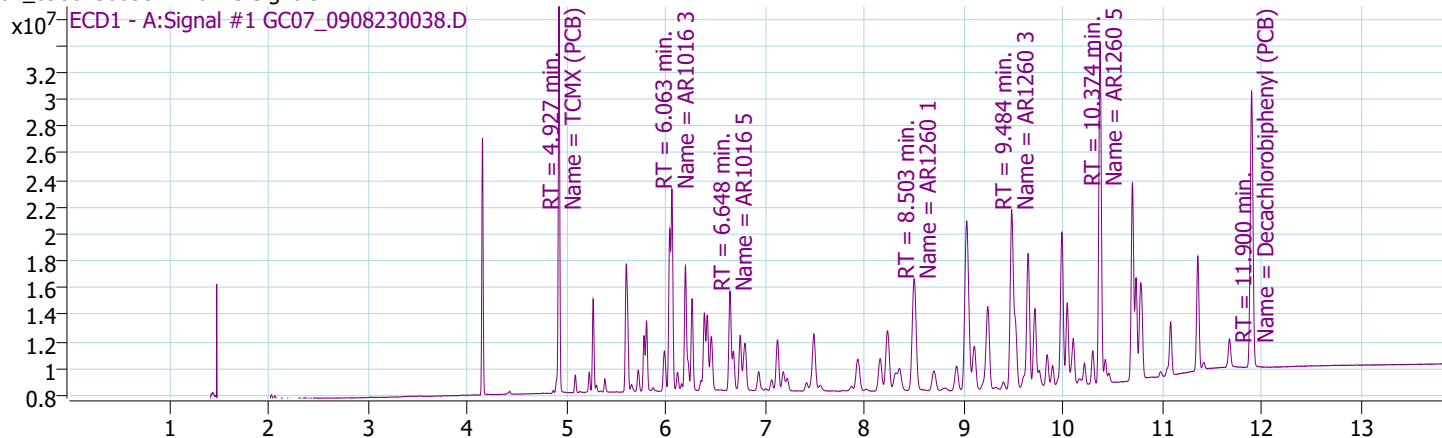


Quantitation Results Report (Not Reviewed)

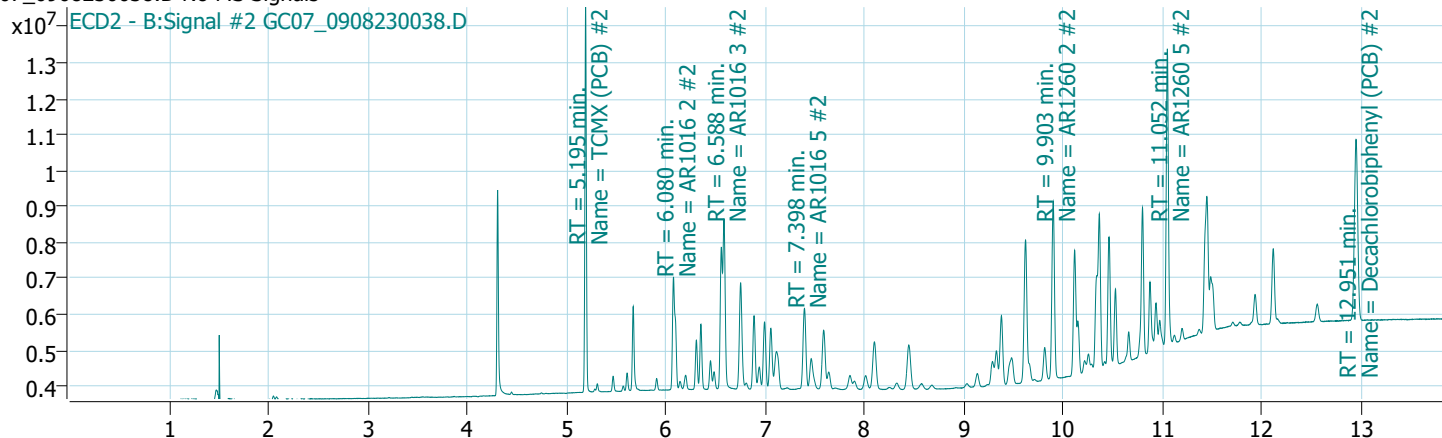
Data File GC07_0908230038.D
 Acq. Method Acq_Pesticide_052623_3
 Sample Name ICAL, S18459
 Vial 16
 DA Method File PCB_608_090823_GC07_1.m
 Tune File ATUNE.U
 Batch Name 090823PCB_ICAL.batch.bin
 Ref Library

Operator SVOA
 Acq. Date-Time 9/8/2023 10:03:02 PM
 Instrument SVOA-GC07
 Multiplier 1.00
 Comment 500 PPB PCB ICAL
 Tune Date
 Last Calib Update 9/11/2023 11:12:29 AM

GC07_0908230038.D No MS Signals



GC07_0908230038.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.157	0.0	17824919.107	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.309	0.0	6135660.591	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.927	0.0	30188271.930	37.0650	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 185.33%	*	
S TCMX (PCB) #2	5.195	0.0	11303672.305	35.2655	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 176.33%	*	
S Decachlorobiphenyl (PCB)	11.900	0.0	39466699.137	46.1812	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 230.91%	*	
S Decachlorobiphenyl (PCB) #2	12.951	0.0	11885526.689	47.6731	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 238.37%	*	

Target Compounds

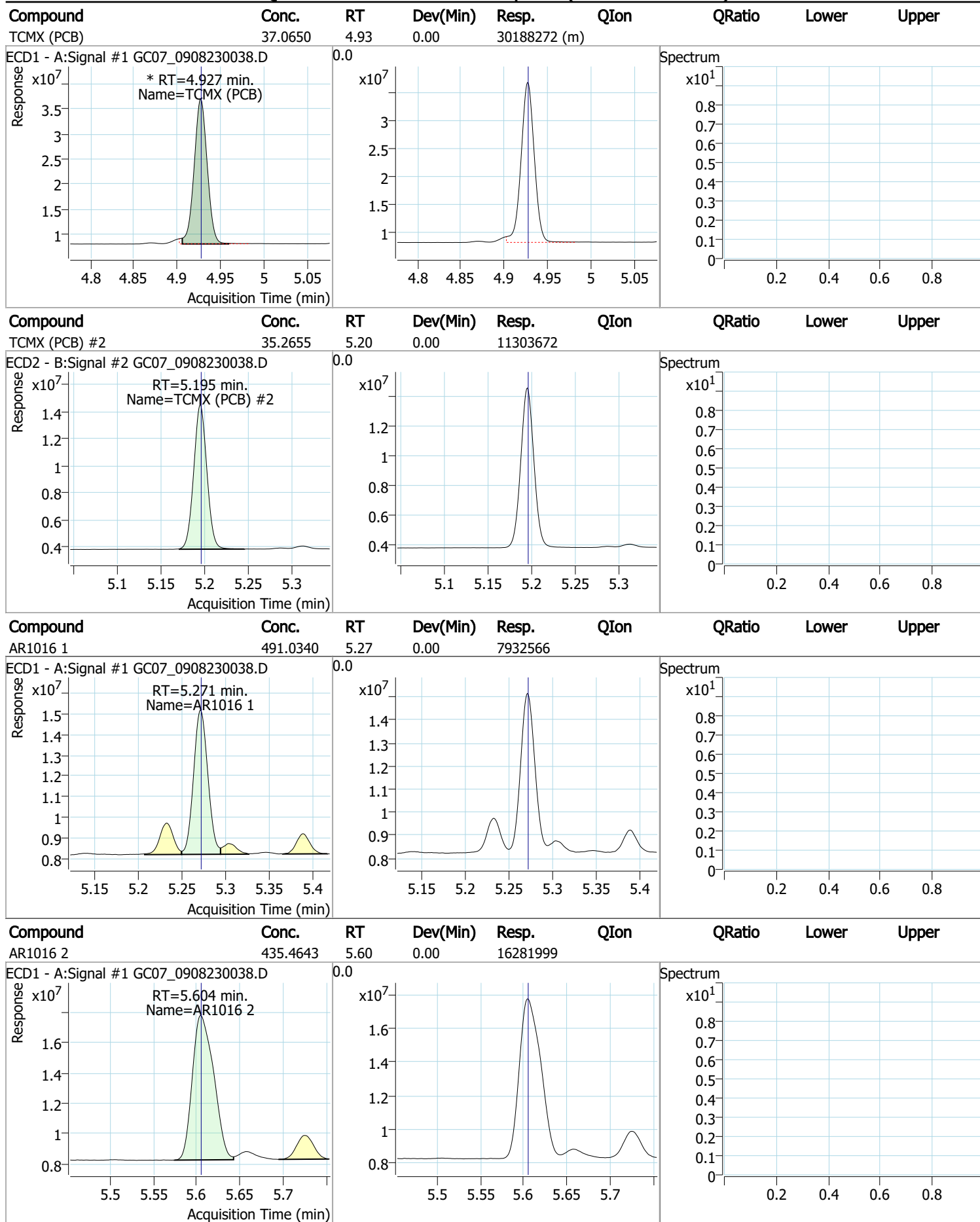
QValue

Quantitation Results Report (Not Reviewed)

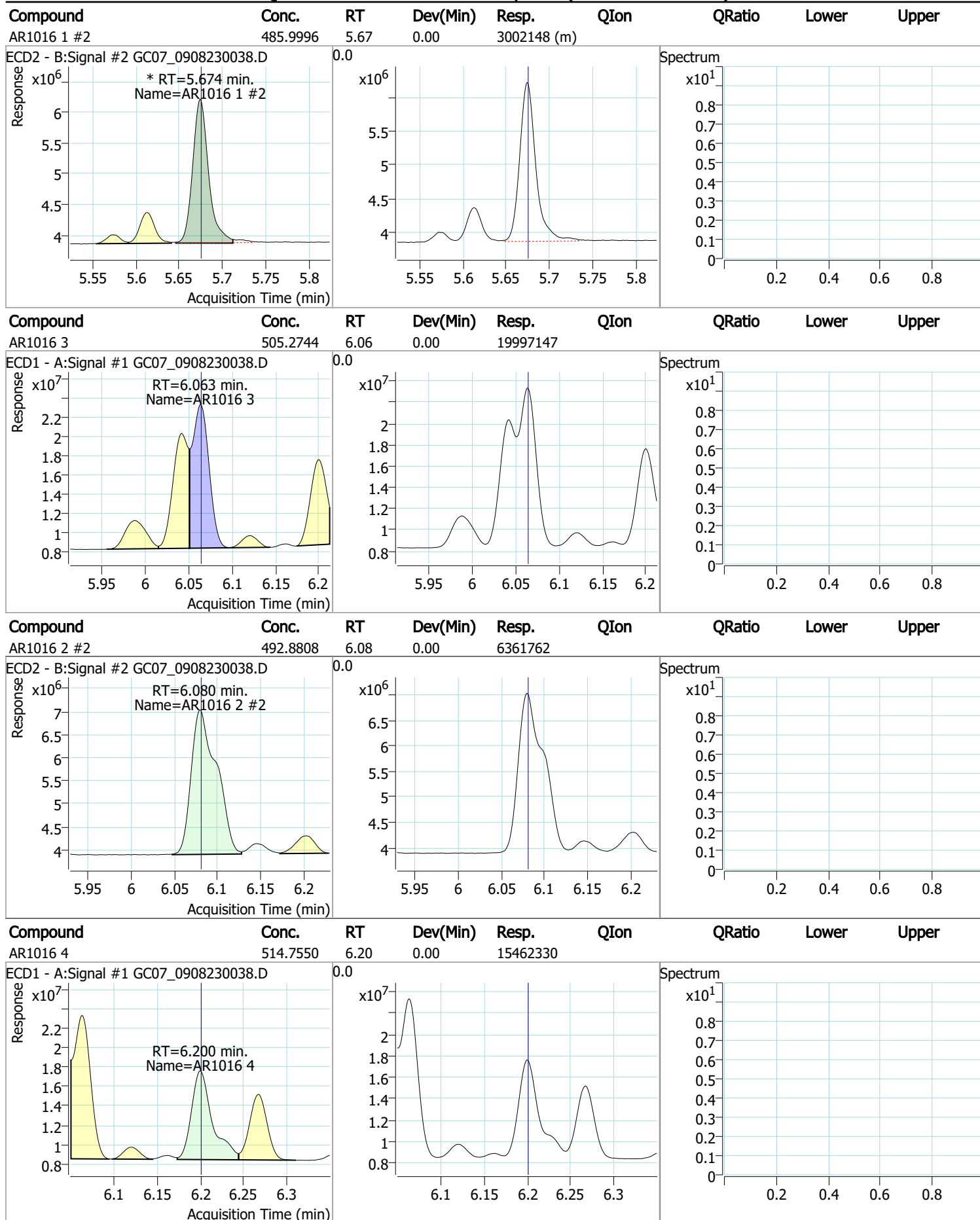
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.271	0.0	7932565.71 3	491.0340	ng/ml	100
T AR1016 2	5.604	0.0	16281999.2 37	435.4643	ng/ml	100
T AR1016 1 #2	5.674	0.0	3002148.06 5	485.9996	ng/ml m	100
T AR1016 3	6.063	0.0	19997147.1 21	505.2744	ng/ml	100
T AR1016 2 #2	6.080	0.0	6361762.05 6	492.8808	ng/ml	100
T AR1016 4	6.200	0.0	15462330.3 74	514.7550	ng/ml	100
T AR1016 3 #2	6.588	0.0	7642004.10 3	486.9050	ng/ml m	100
T AR1016 5	6.648	0.0	12056108.7 85	510.6185	ng/ml	100
T AR1016 4 #2	6.756	0.0	5512044.82 7	490.6712	ng/ml	100
T AR1016 5 #2	7.398	0.0	4552704.21 9	495.0512	ng/ml	100
T AR1260 1	8.503	0.0	23203757.2 96	499.1292	ng/ml m	100
T AR1260 2	9.033	0.0	34954797.6 44	497.8377	ng/ml	100
T AR1260 3	9.484	0.0	38075527.0 76	454.0330	ng/ml	100
T AR1260 1 #2	9.624	0.0	8717439.43 9	490.9303	ng/ml m	100
T AR1260 2 #2	9.903	0.0	9029893.74 0	494.0957	ng/ml	100
T AR1260 4	9.990	0.0	22228407.2 16	478.4273	ng/ml	100
T AR1260 3 #2	10.367	0.0	10935842.5 84	496.5028	ng/ml	100
T AR1260 5	10.374	0.0	45510543.7 32	542.4048	ng/ml	100
T AR1260 4 #2	10.802	0.0	6942799.96 4	487.4824	ng/ml	100
T AR1260 5 #2	11.052	0.0	12858818.3 05	529.8944	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

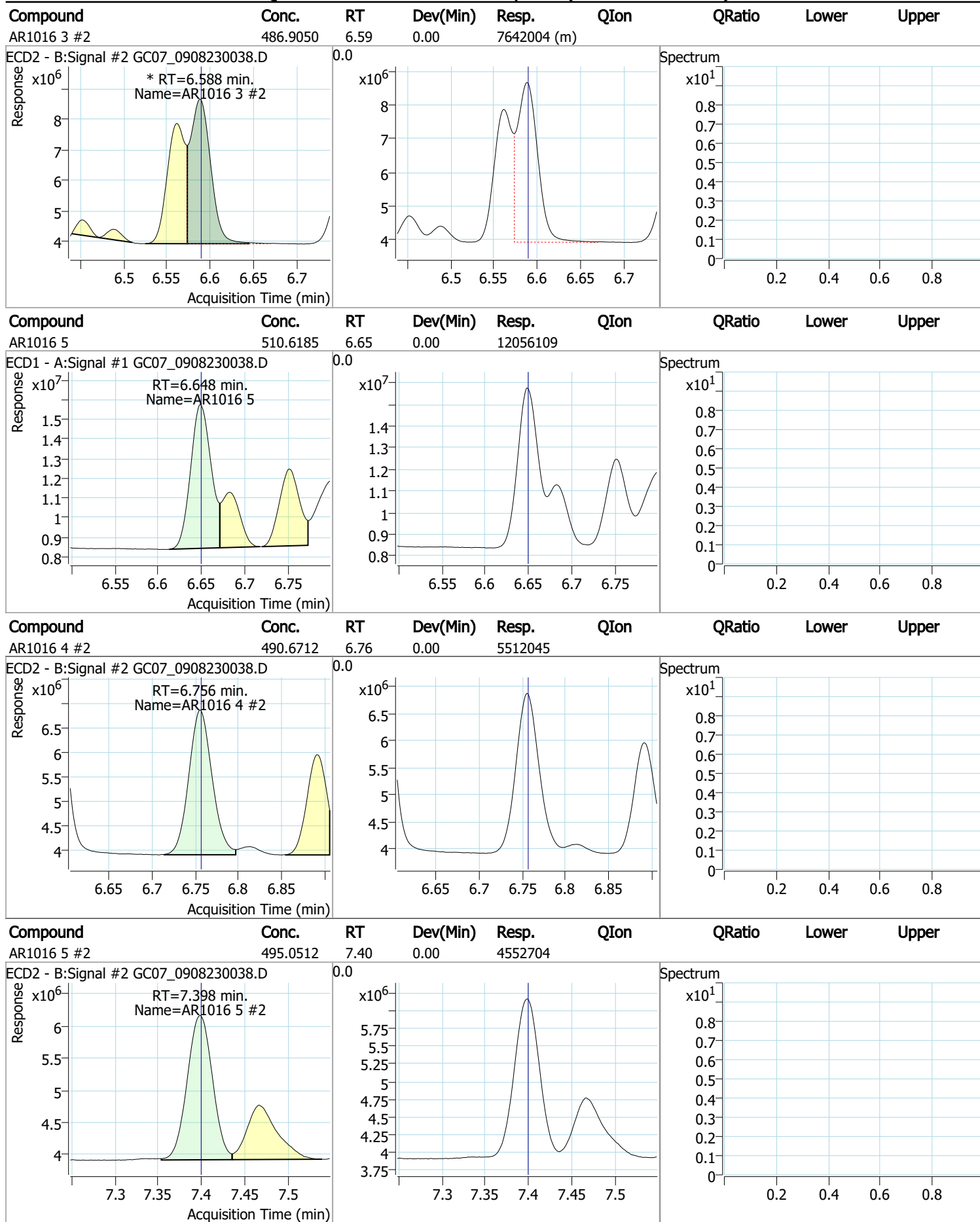
Quantitation Results Report (Not Reviewed)



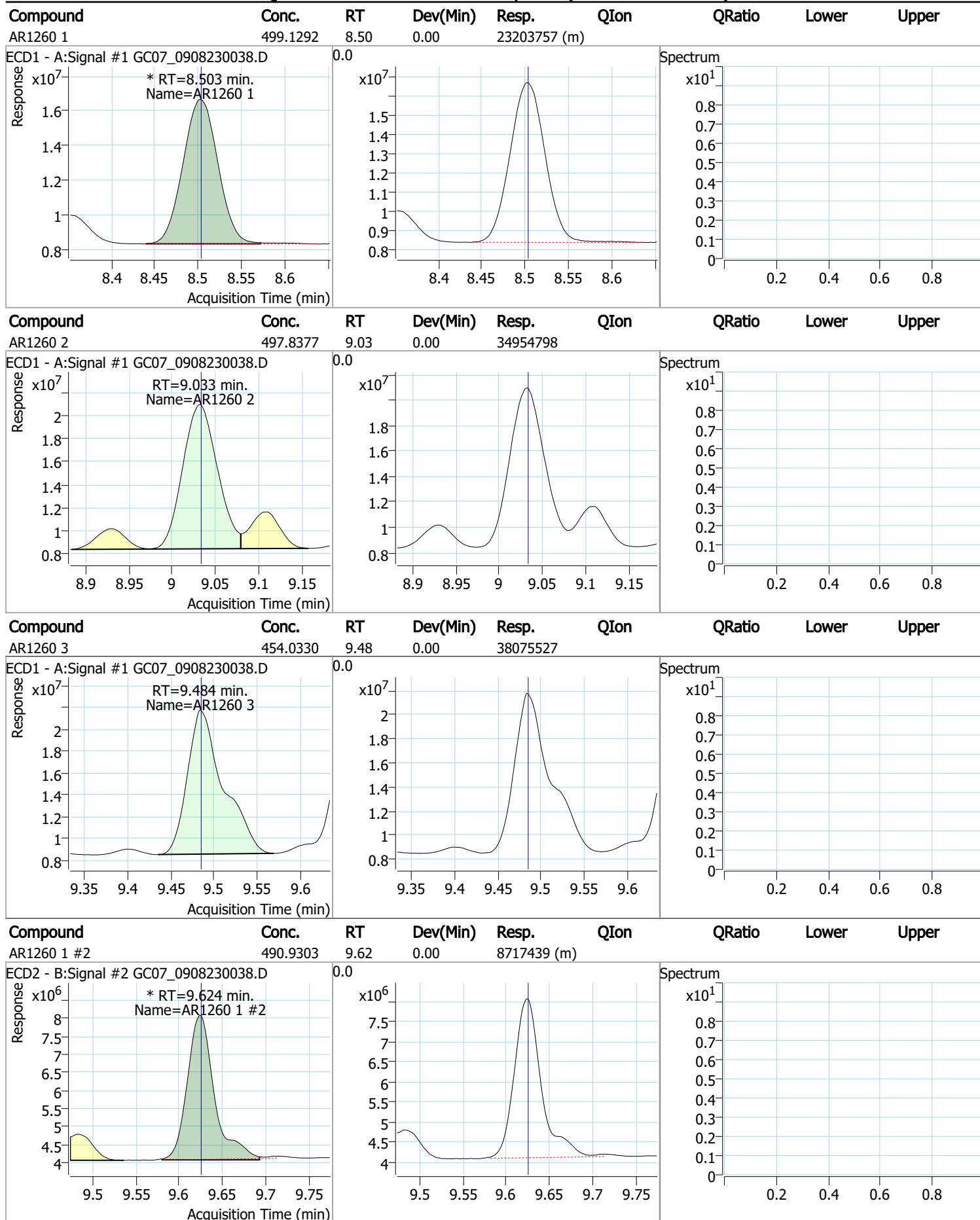
Quantitation Results Report (Not Reviewed)



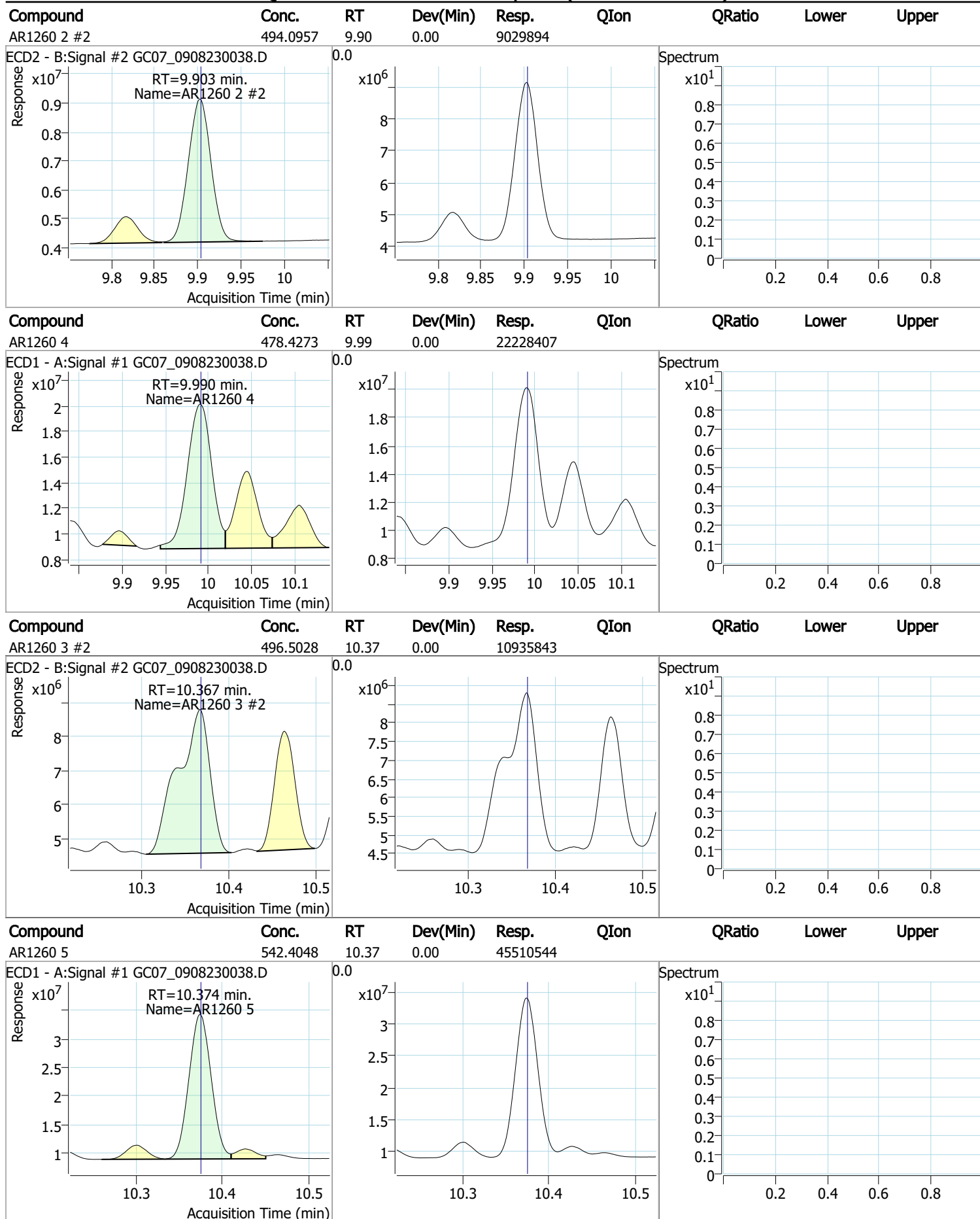
Quantitation Results Report (Not Reviewed)



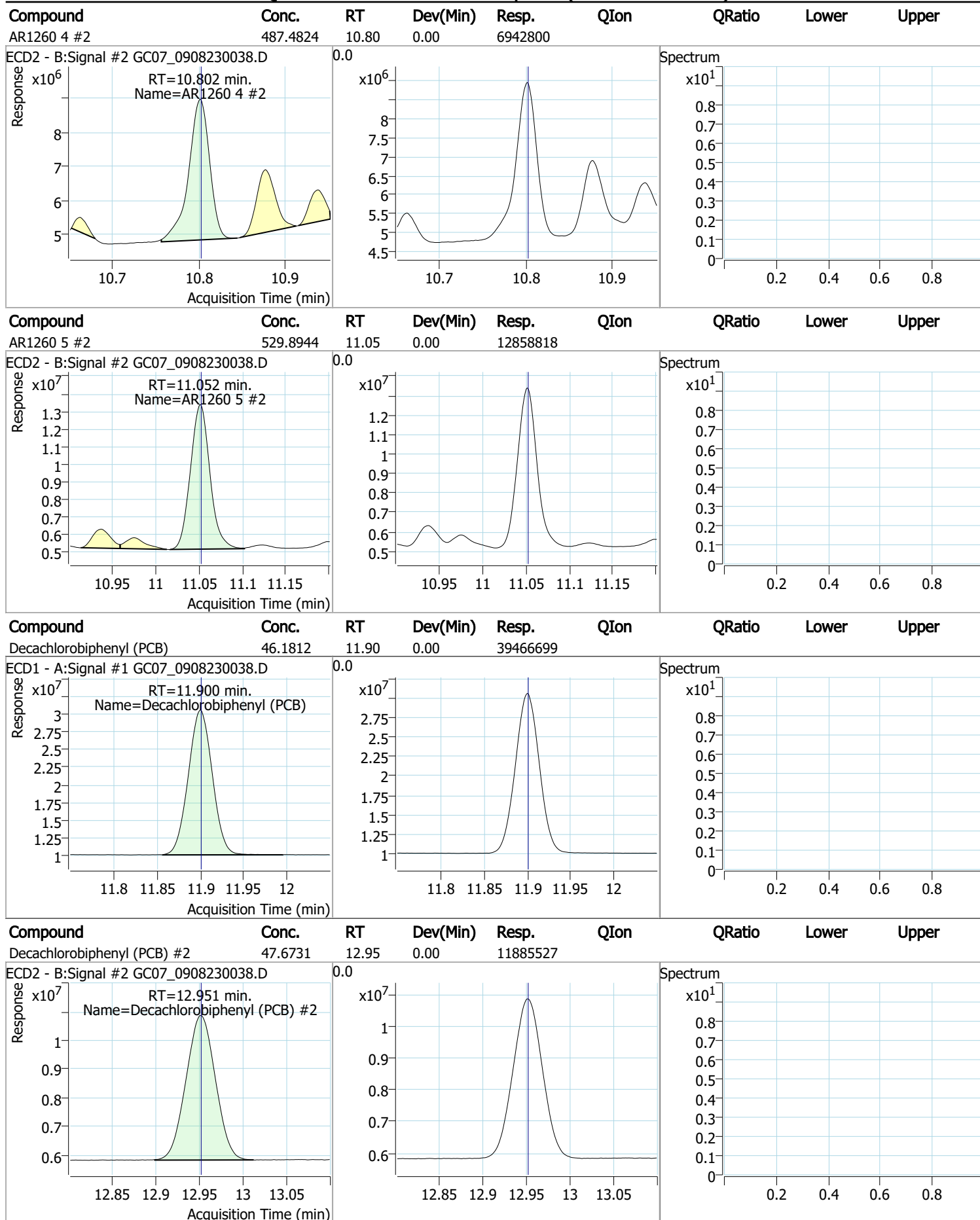
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

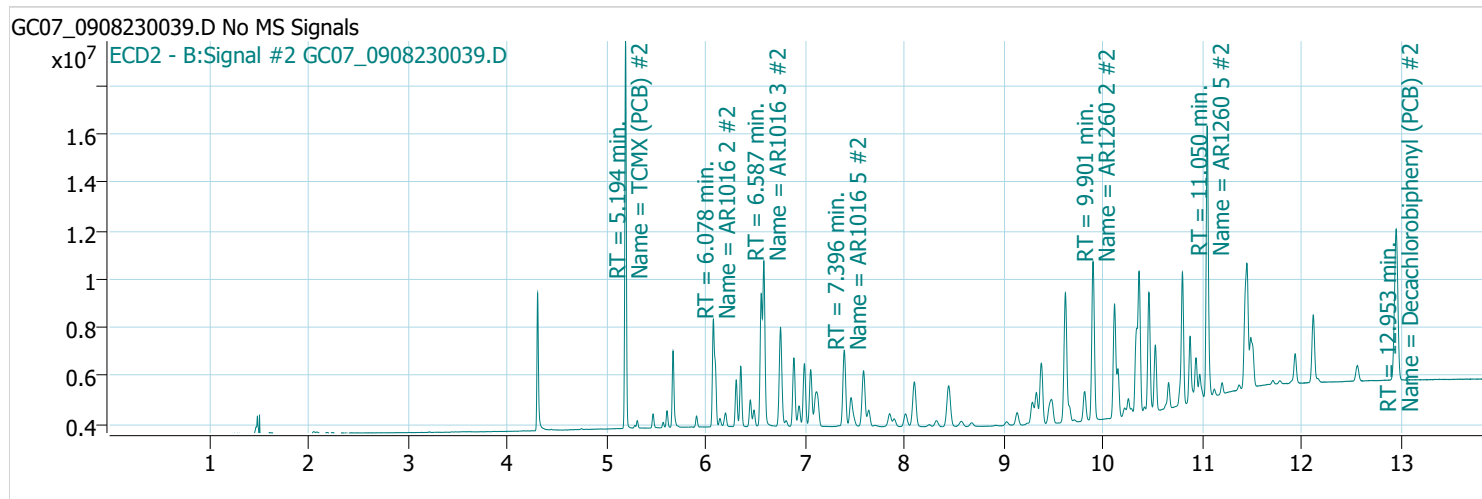
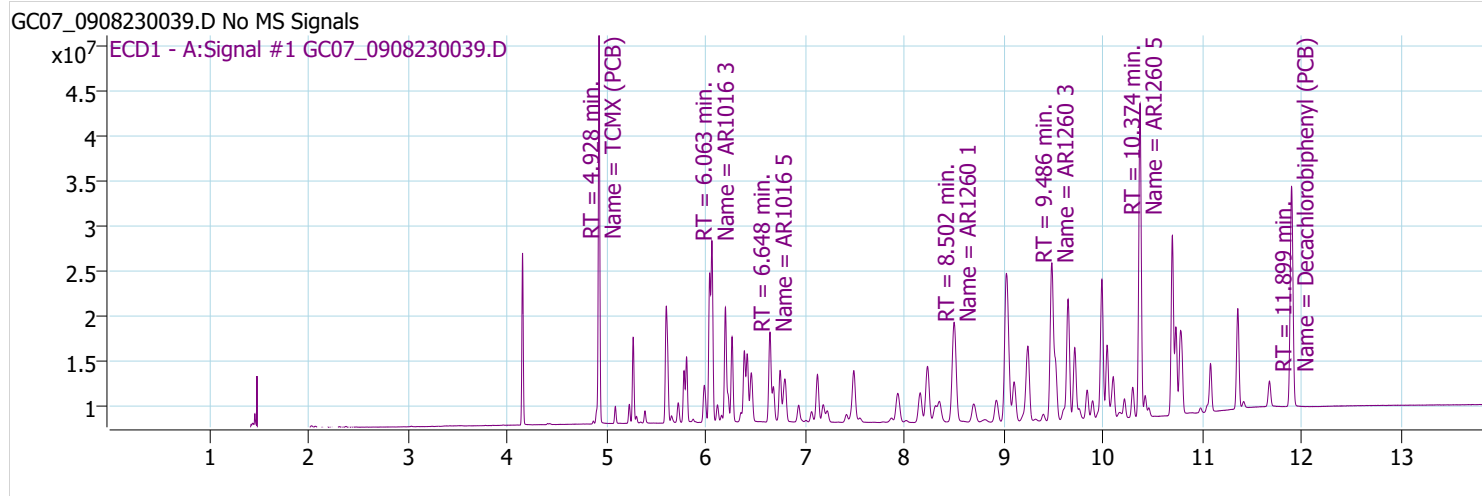


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC07_0908230039.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	9/8/2023 10:20:22 PM
Sample Name	ICAL, S18460	Instrument	SVOA-GC07
Vial	17	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_1.m	Comment	750 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	090823PCB_ICAL.batch.bin	Last Calib Update	9/11/2023 11:12:29 AM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.158	0.0	18162105.6 93	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.309	0.0	6205203.84 8	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.928	0.0	44854080.5 50	54.0492	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 270.25%	*	
S TCMX (PCB) #2	5.194	0.0	17408243.6 65	53.7021	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 268.51%	*	
S Decachlorobiphenyl (PCB)	11.899	0.0	48033913.4 28	55.1625	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 275.81%	*	
S Decachlorobiphenyl (PCB) #2	12.953	0.0	14663326.2 52	58.1557	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 290.78%	*	

Target Compounds

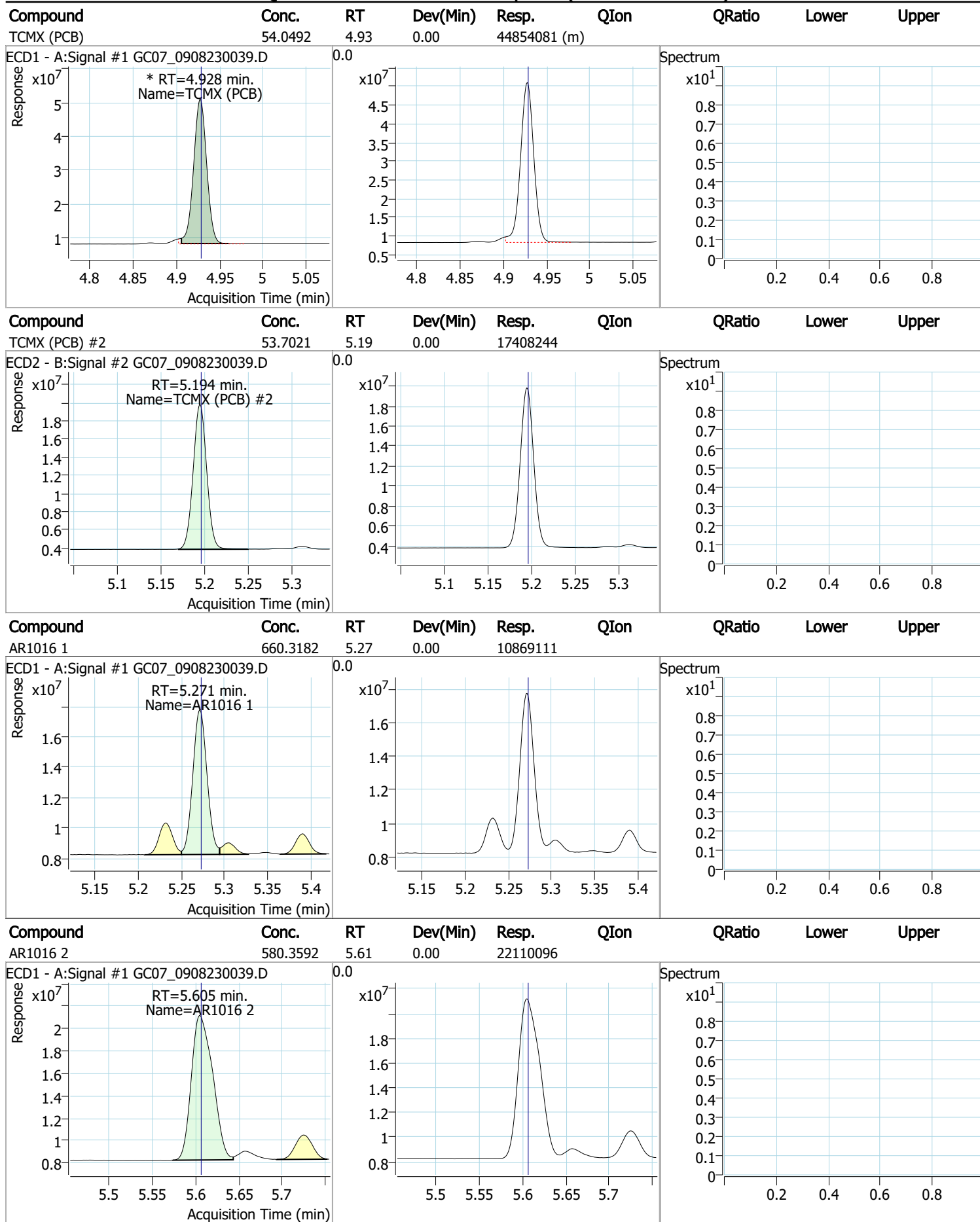
GC07_0908230039.D

Quantitation Results Report (Not Reviewed)

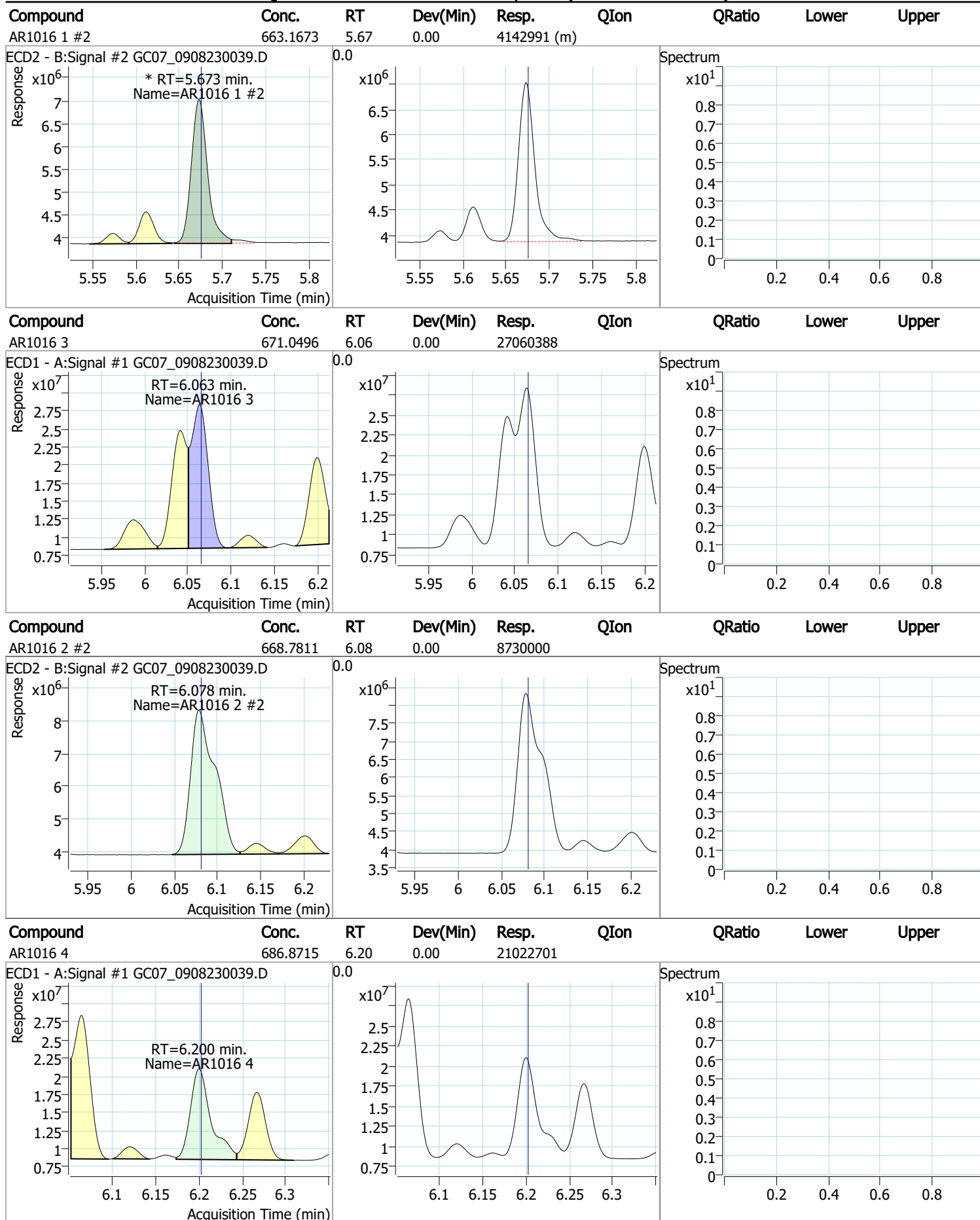
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.271	0.0	10869110.7 14	660.3182	ng/ml	100
T AR1016 2	5.605	0.0	22110095.8 62	580.3592	ng/ml	100
T AR1016 1 #2	5.673	0.0	4142991.07 8	663.1673	ng/ml m	100
T AR1016 3	6.063	0.0	27060388.2 14	671.0496	ng/ml	100
T AR1016 2 #2	6.078	0.0	8729999.74 9	668.7811	ng/ml	100
T AR1016 4	6.200	0.0	21022700.8 02	686.8715	ng/ml	100
T AR1016 3 #2	6.587	0.0	10627606.2 04	669.5419	ng/ml m	100
T AR1016 5	6.648	0.0	16604772.5 30	690.2139	ng/ml	100
T AR1016 4 #2	6.755	0.0	7605791.75 2	669.4644	ng/ml	100
T AR1016 5 #2	7.396	0.0	6265649.36 5	673.6775	ng/ml	100
T AR1260 1	8.502	0.0	31061397.8 99	655.7480	ng/ml	100
T AR1260 2	9.028	0.0	46603648.1 44	651.4218	ng/ml	100
T AR1260 3	9.486	0.0	51174115.2 25	598.8984	ng/ml	100
T AR1260 1 #2	9.623	0.0	11673852.3 55	650.0554	ng/ml m	100
T AR1260 2 #2	9.901	0.0	12129052.8 33	656.2368	ng/ml	100
T AR1260 4	9.990	0.0	29619991.4 86	625.6823	ng/ml	100
T AR1260 3 #2	10.364	0.0	14715472.0 86	660.6157	ng/ml	100
T AR1260 5	10.374	0.0	60730592.5 16	727.0887	ng/ml	100
T AR1260 4 #2	10.801	0.0	9308741.68 1	646.2797	ng/ml	100
T AR1260 5 #2	11.050	0.0	17395326.8 43	720.1489	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

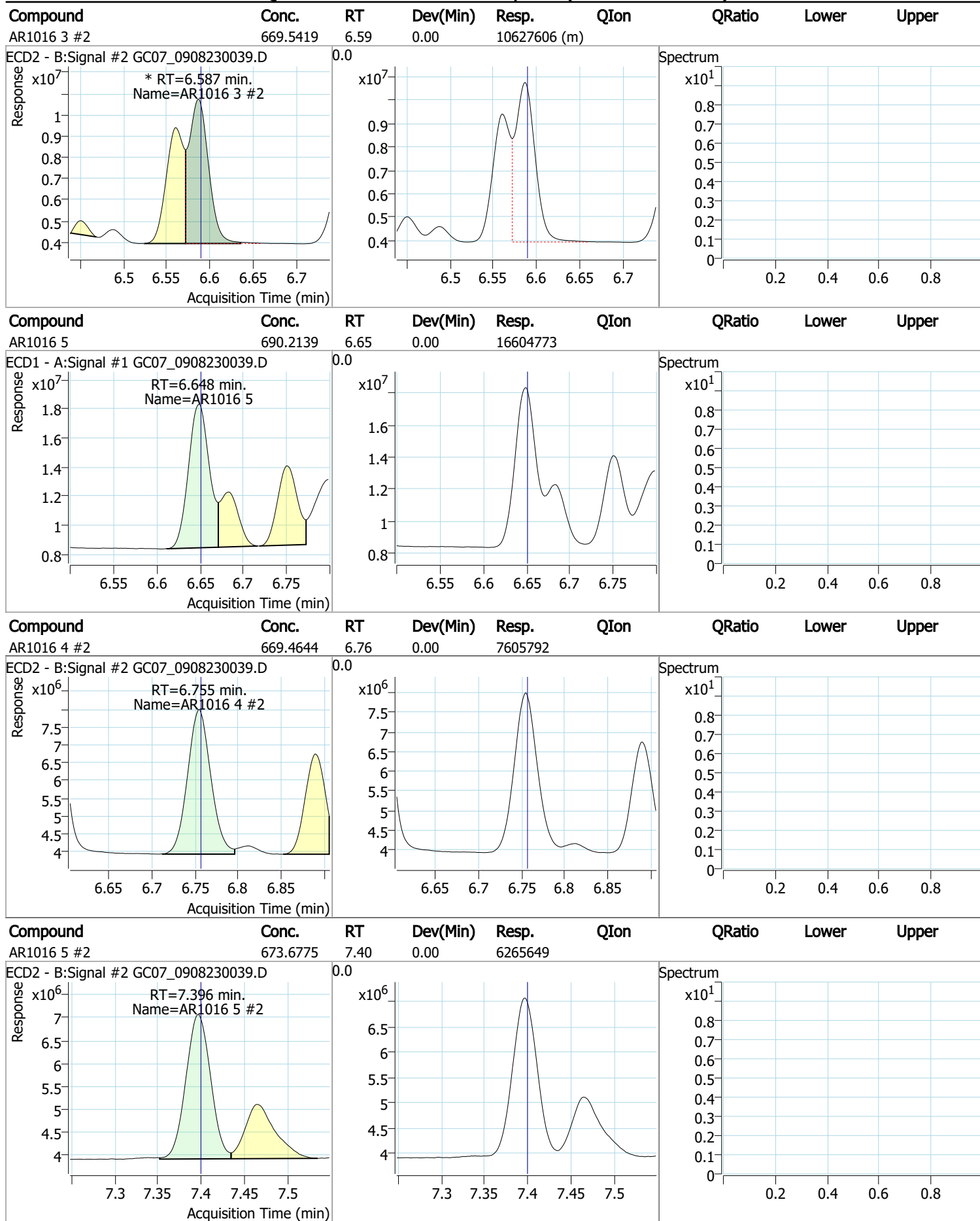
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

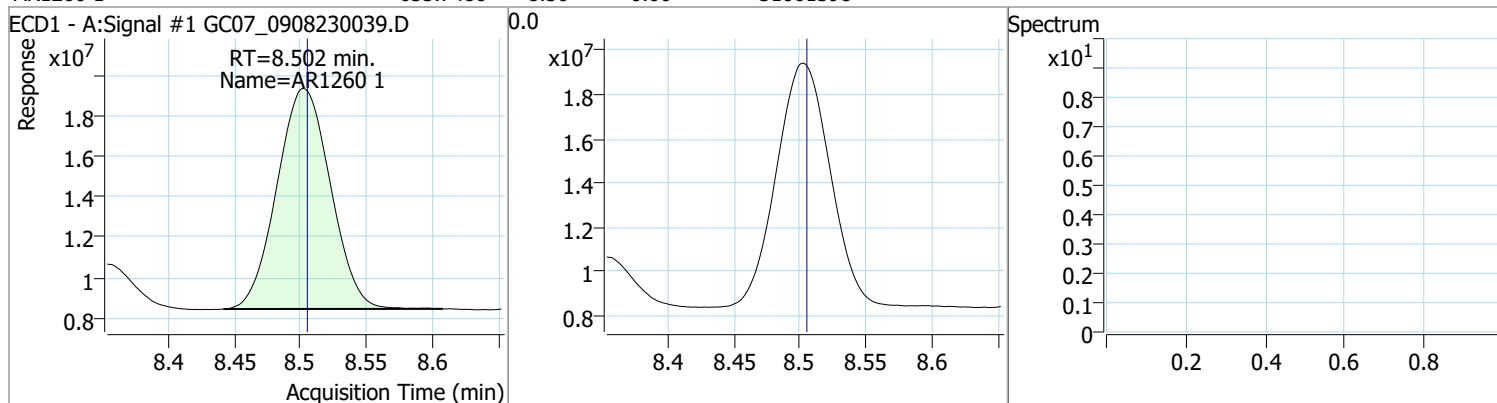


Quantitation Results Report (Not Reviewed)

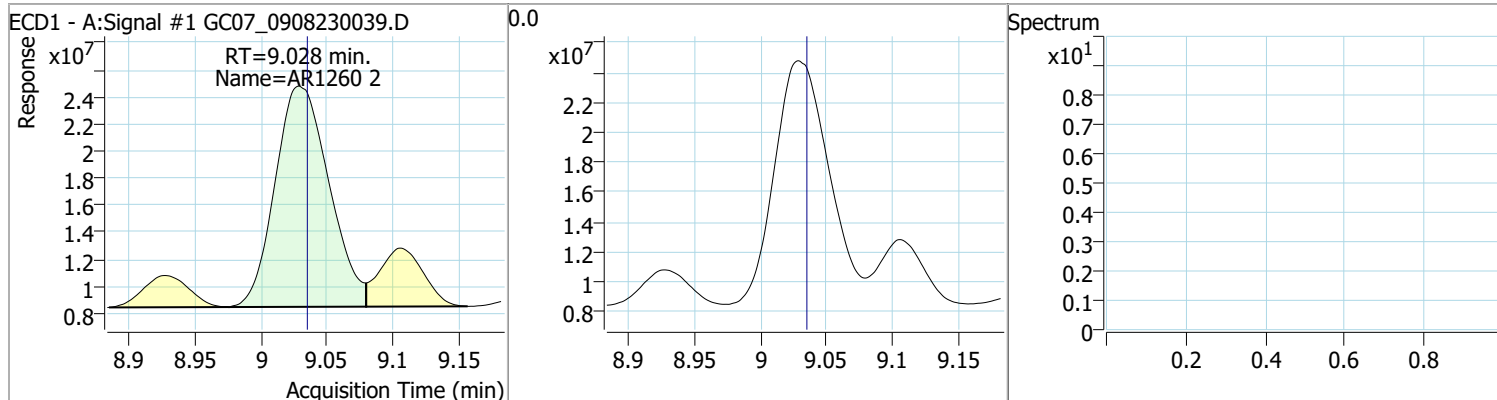


Quantitation Results Report (Not Reviewed)

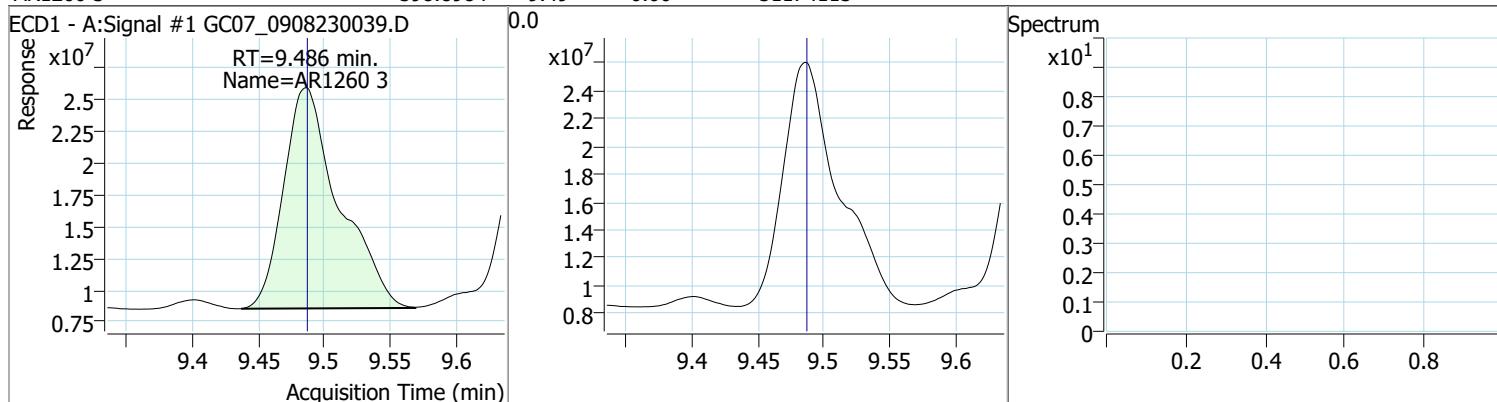
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	655.7480	8.50	0.00	31061398				



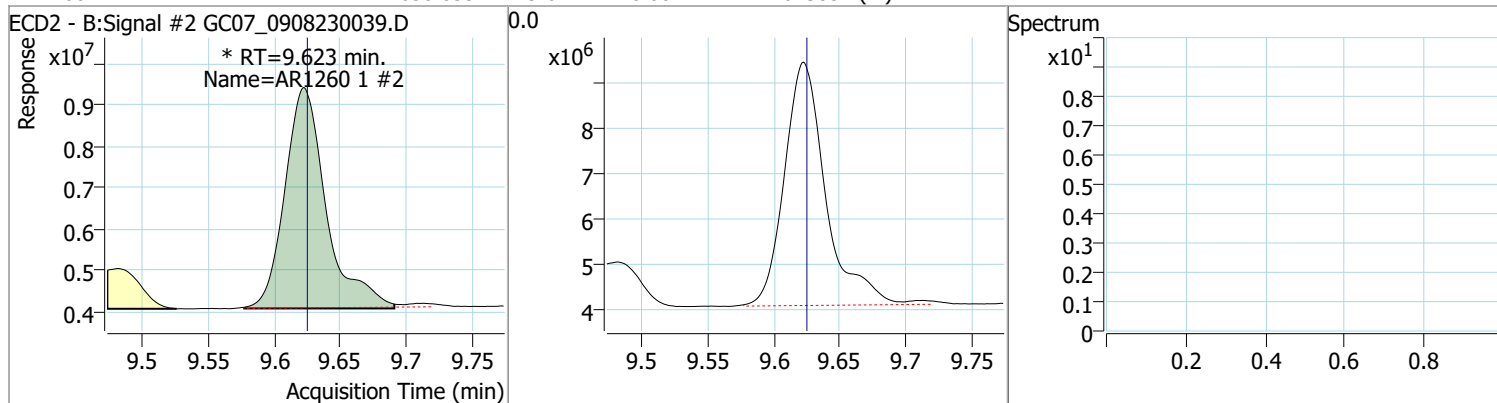
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	651.4218	9.03	0.00	46603648				



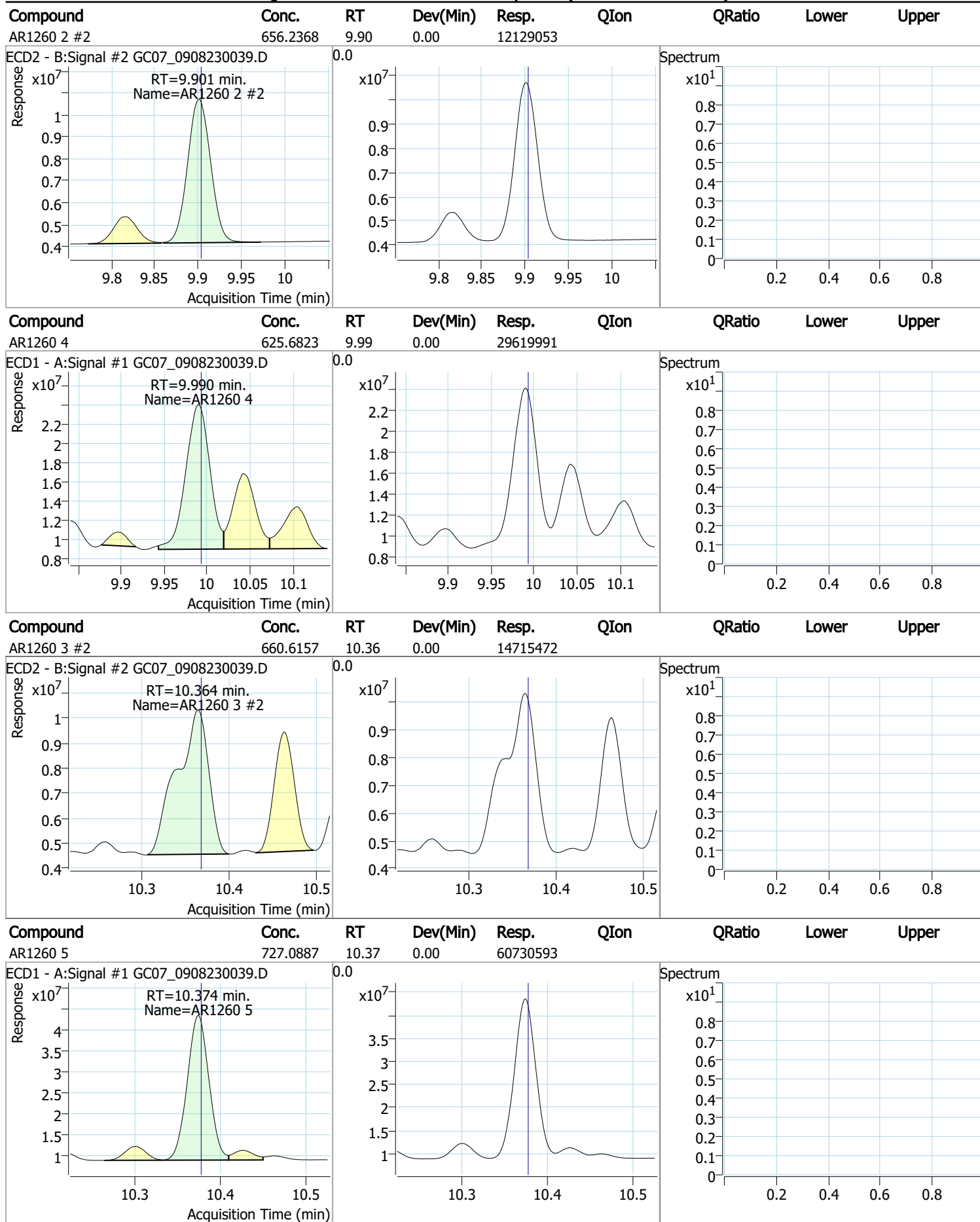
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	598.8984	9.49	0.00	51174115				



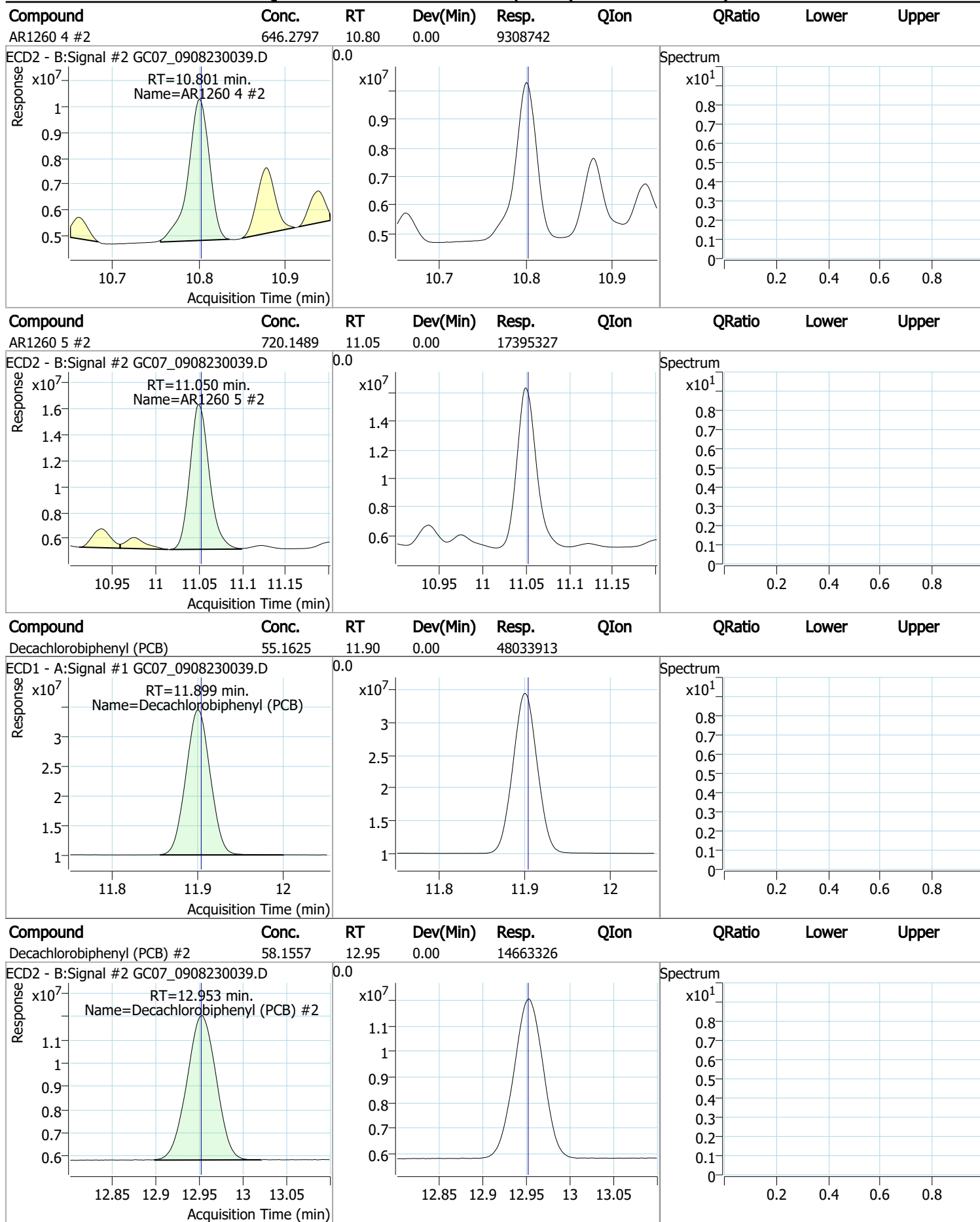
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	650.0554	9.62	0.00	11673852 (m)				



Quantitation Results Report (Not Reviewed)

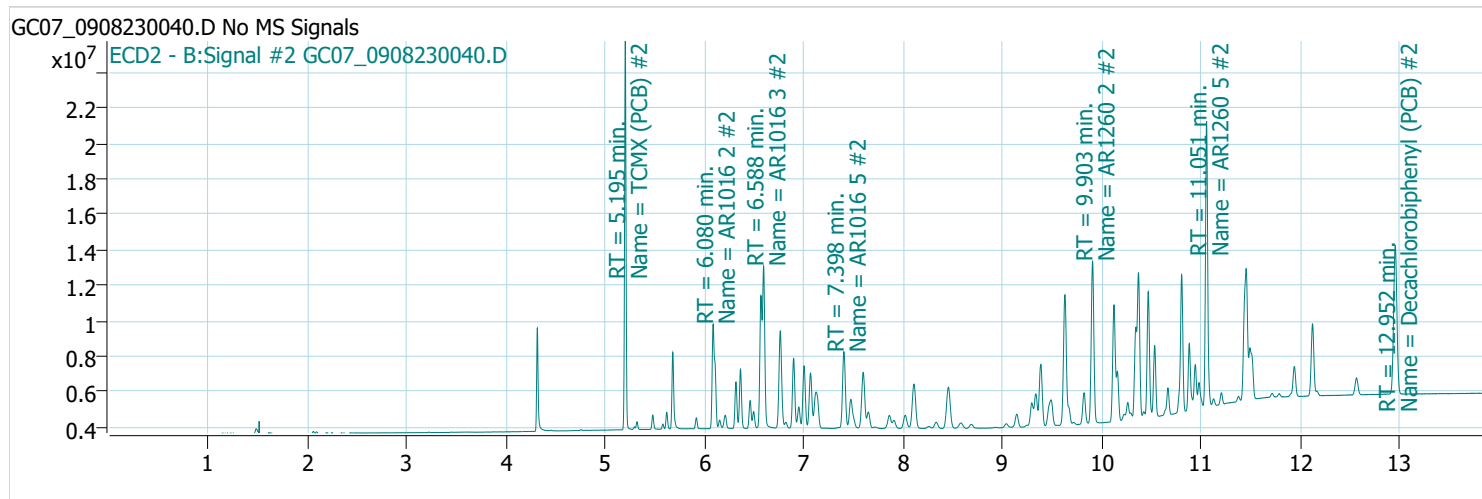
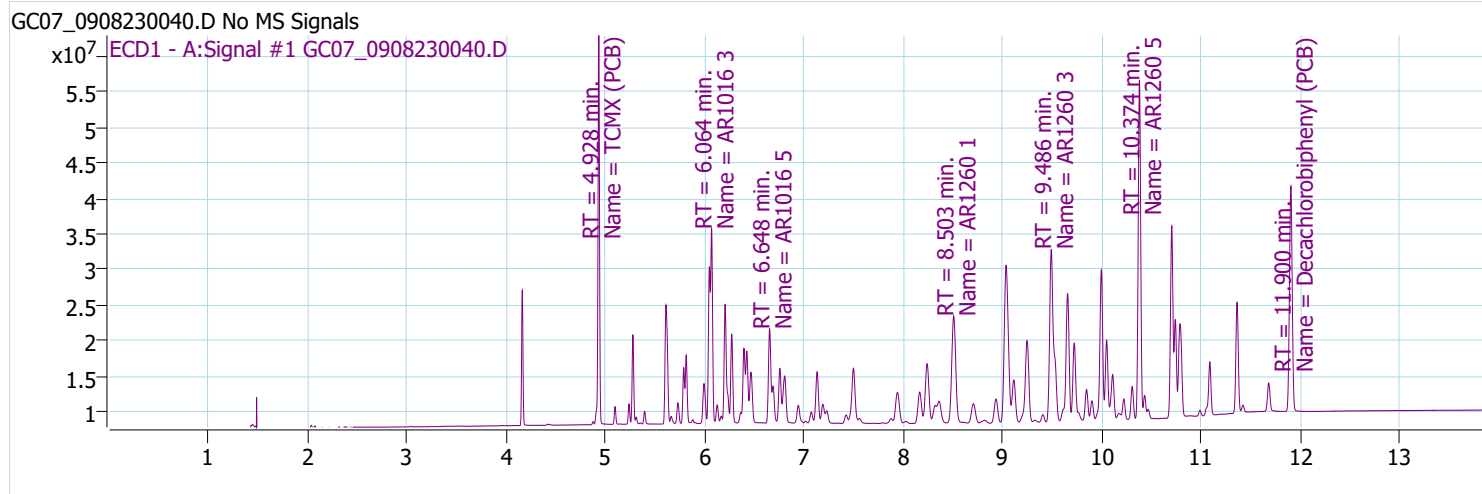


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC07_0908230040.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	9/8/2023 10:37:49 PM
Sample Name	ICAL, S18461	Instrument	SVOA-GC07
Vial	18	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_1.m	Comment	1000 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	090823PCB_ICAL.batch.bin	Last Calib Update	9/11/2023 11:12:29 AM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.158	0.0	18042410.150	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.309	0.0	6208953.425	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.928	0.0	57340913.175	69.5543	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 347.77%	*	
S TCMX (PCB) #2	5.195	0.0	22902469.075	70.6084	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 353.04%	*	
S Decachlorobiphenyl (PCB)	11.900	0.0	61994878.090	71.6677	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 358.34%	*	
S Decachlorobiphenyl (PCB) #2	12.952	0.0	19620247.633	77.7682	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 388.84%	*	

Target Compounds

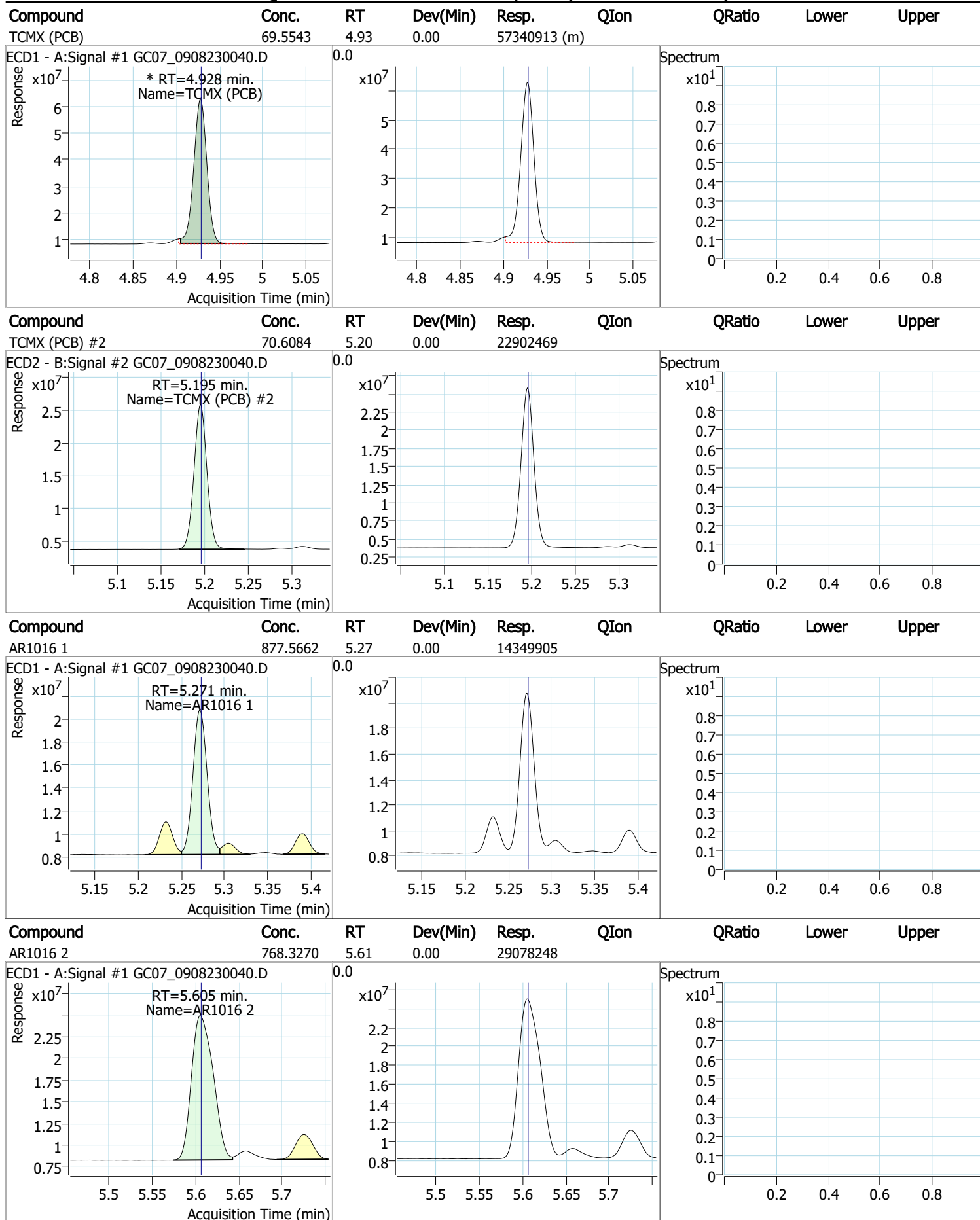
QValue

Quantitation Results Report (Not Reviewed)

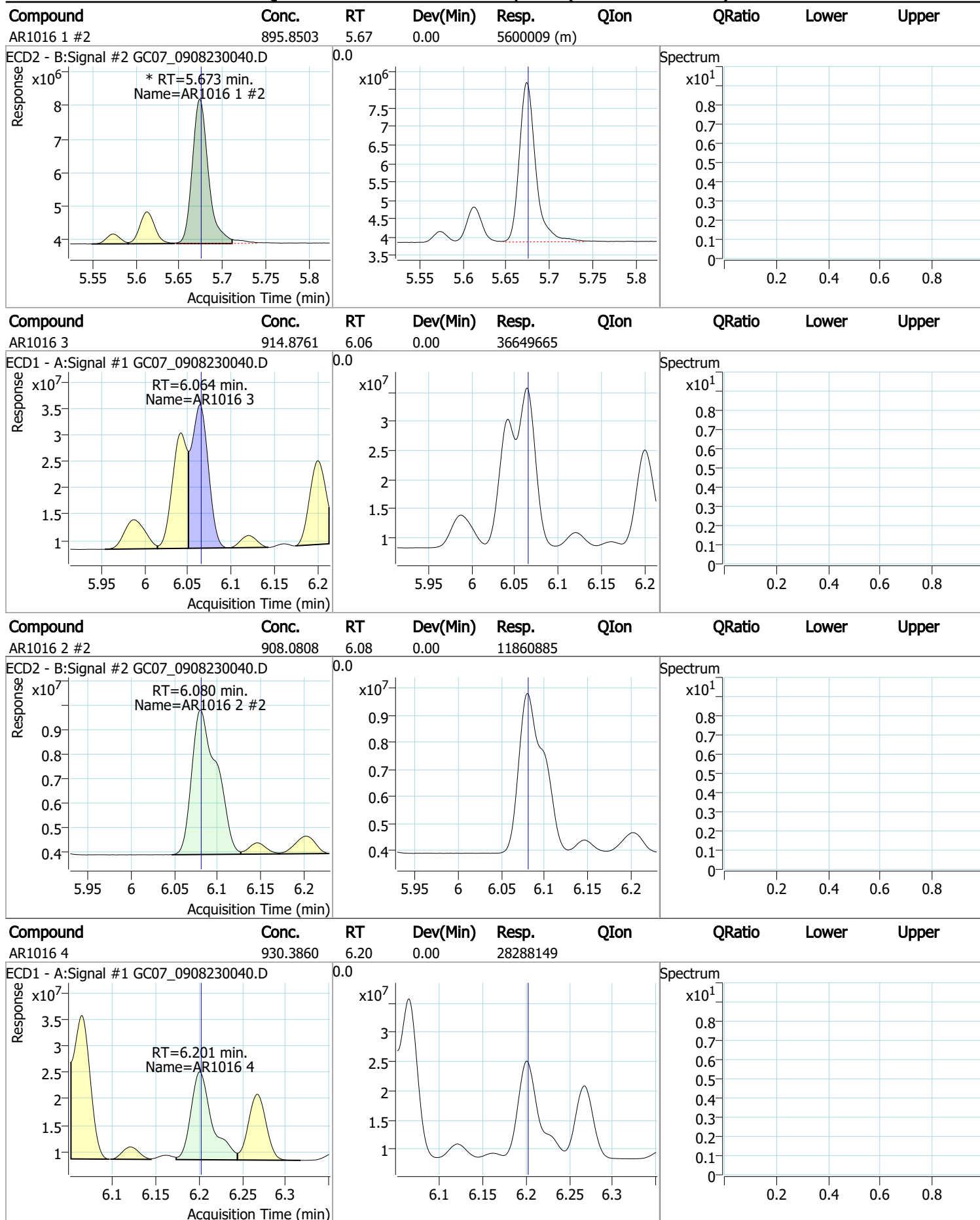
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.271	0.0	14349904.9 19	877.5662	ng/ml	100
T AR1016 2	5.605	0.0	29078247.9 11	768.3270	ng/ml	100
T AR1016 1 #2	5.673	0.0	5600008.85 2	895.8503	ng/ml m	100
T AR1016 3	6.064	0.0	36649665.1 33	914.8761	ng/ml	100
T AR1016 2 #2	6.080	0.0	11860884.7 07	908.0808	ng/ml	100
T AR1016 4	6.201	0.0	28288149.2 18	930.3860	ng/ml	100
T AR1016 3 #2	6.588	0.0	14478018.9 65	911.5680	ng/ml m	100
T AR1016 5	6.648	0.0	22279409.8 05	932.2365	ng/ml	100
T AR1016 4 #2	6.757	0.0	10402280.7 20	915.0594	ng/ml	100
T AR1016 5 #2	7.398	0.0	8637306.58 5	928.1153	ng/ml	100
T AR1260 1	8.503	0.0	41792532.2 86	888.1500	ng/ml	100
T AR1260 2	9.030	0.0	62905817.1 94	885.1254	ng/ml	100
T AR1260 3	9.486	0.0	69581386.3 52	819.7238	ng/ml	100
T AR1260 1 #2	9.624	0.0	16470234.1 14	916.5867	ng/ml m	100
T AR1260 2 #2	9.903	0.0	17141306.7 22	926.8625	ng/ml	100
T AR1260 4	9.990	0.0	40452526.1 22	860.1739	ng/ml	100
T AR1260 3 #2	10.364	0.0	20968894.4 19	940.7796	ng/ml	100
T AR1260 5	10.374	0.0	83847374.1 39	1041.6754	ng/ml	100
T AR1260 4 #2	10.800	0.0	13220473.8 32	917.3059	ng/ml	100
T AR1260 5 #2	11.051	0.0	24977314.0 60	1053.4846	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

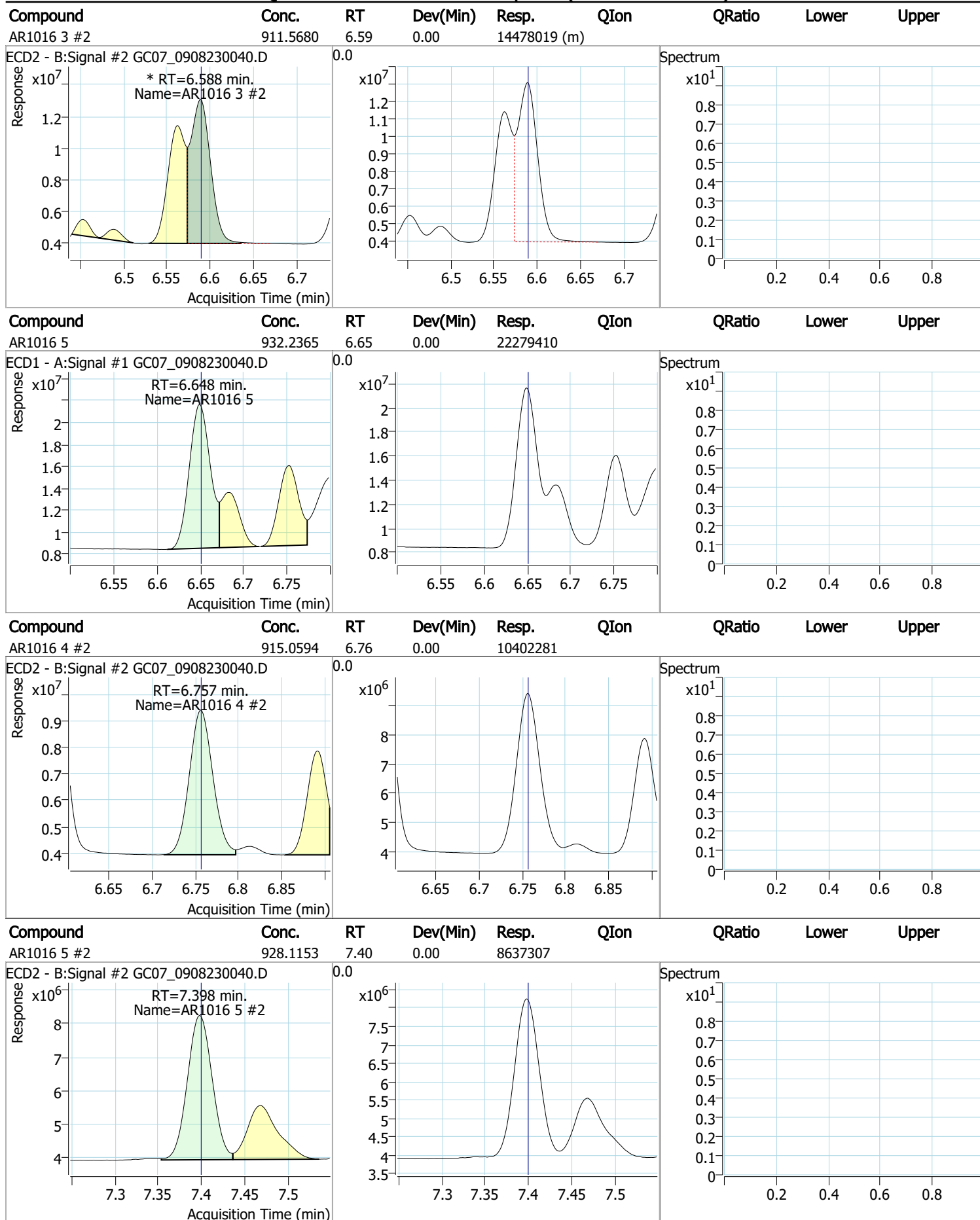
Quantitation Results Report (Not Reviewed)



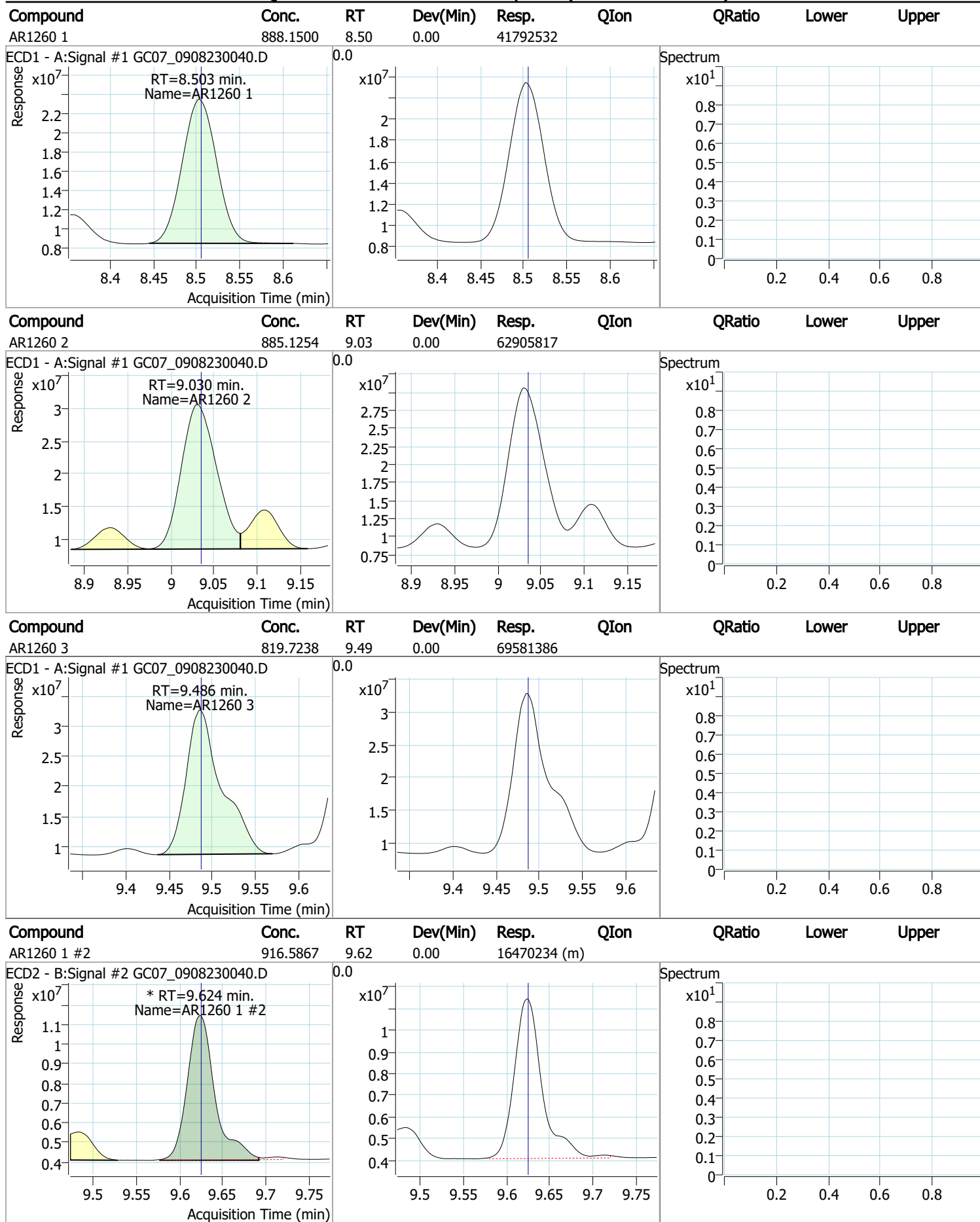
Quantitation Results Report (Not Reviewed)



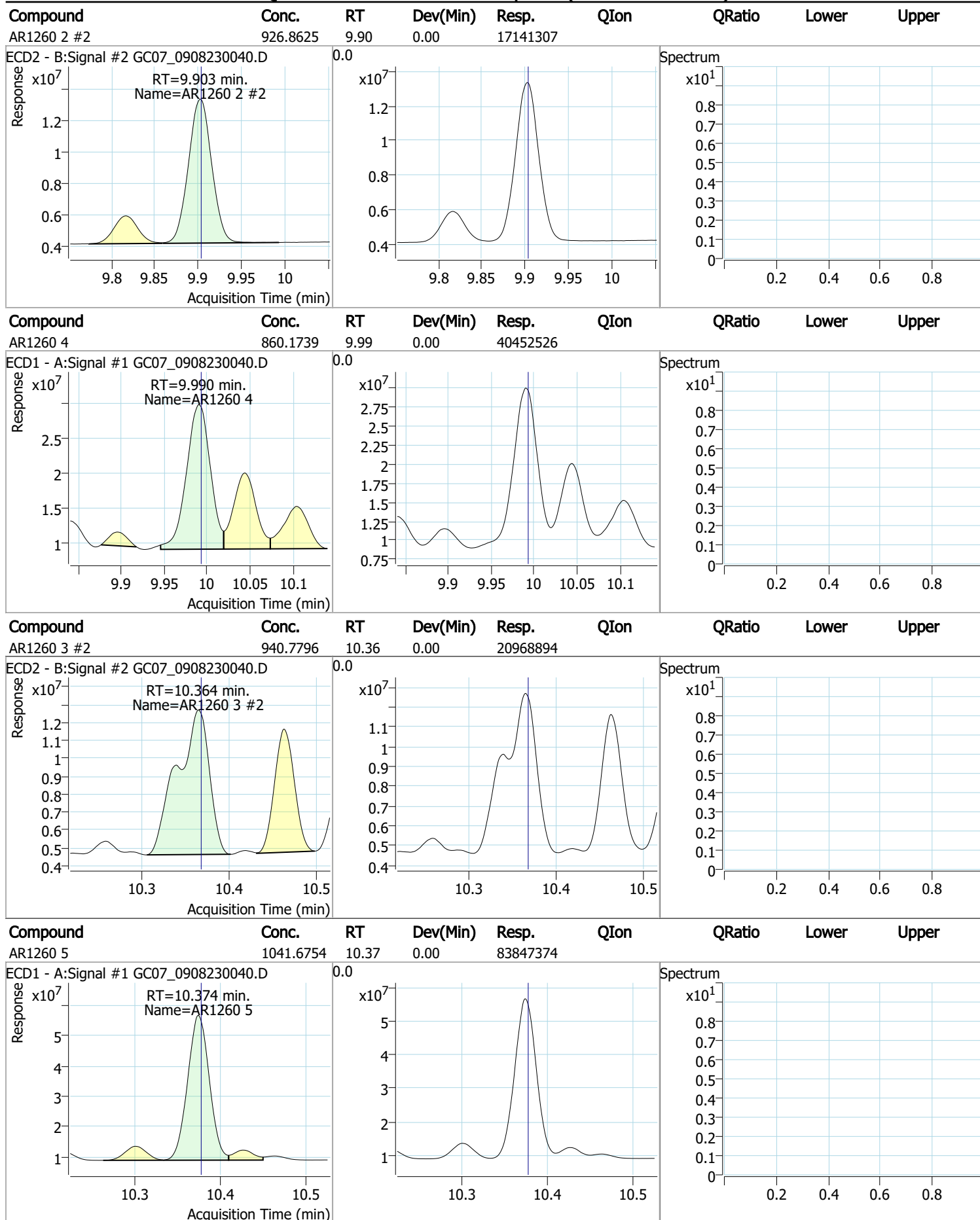
Quantitation Results Report (Not Reviewed)



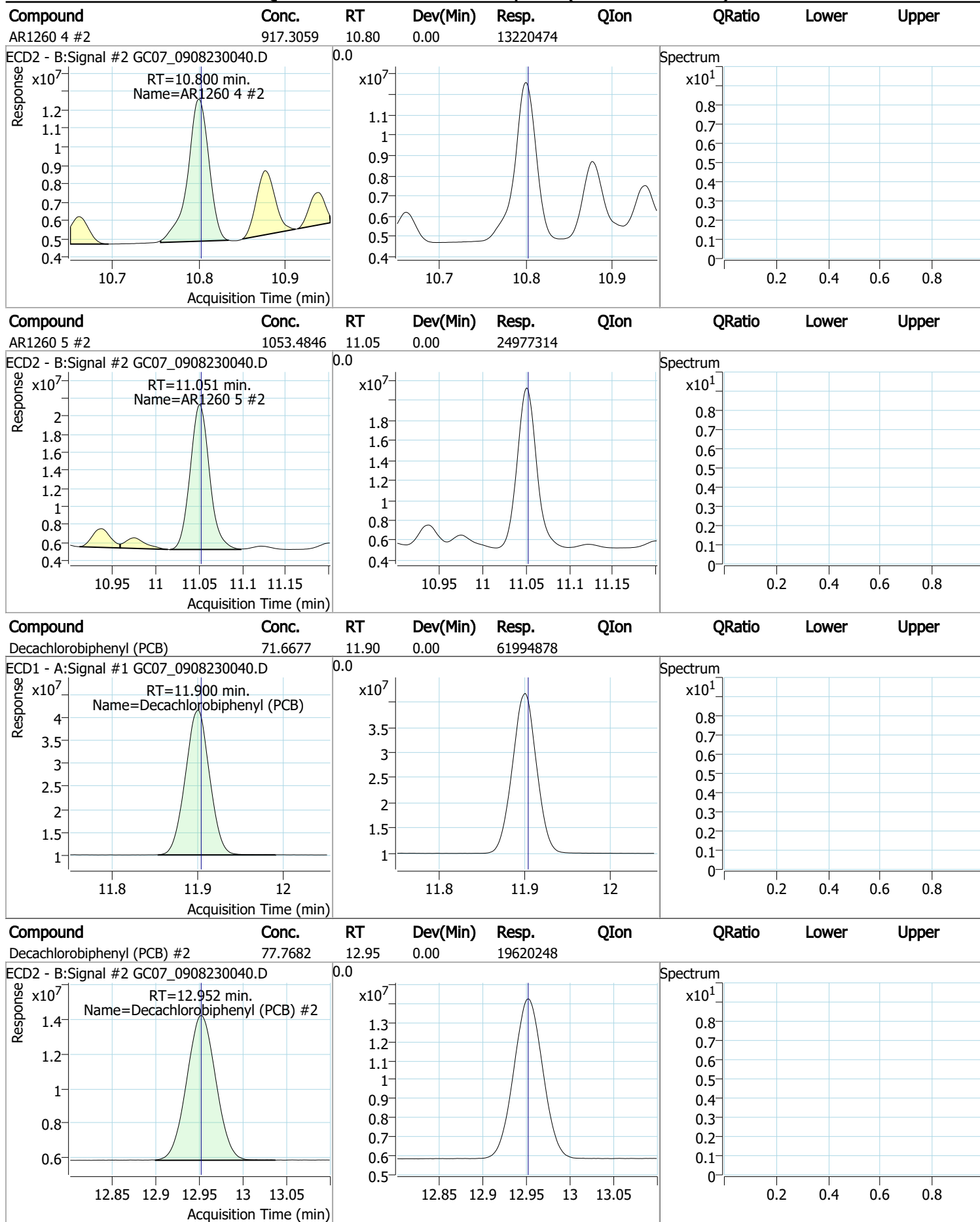
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

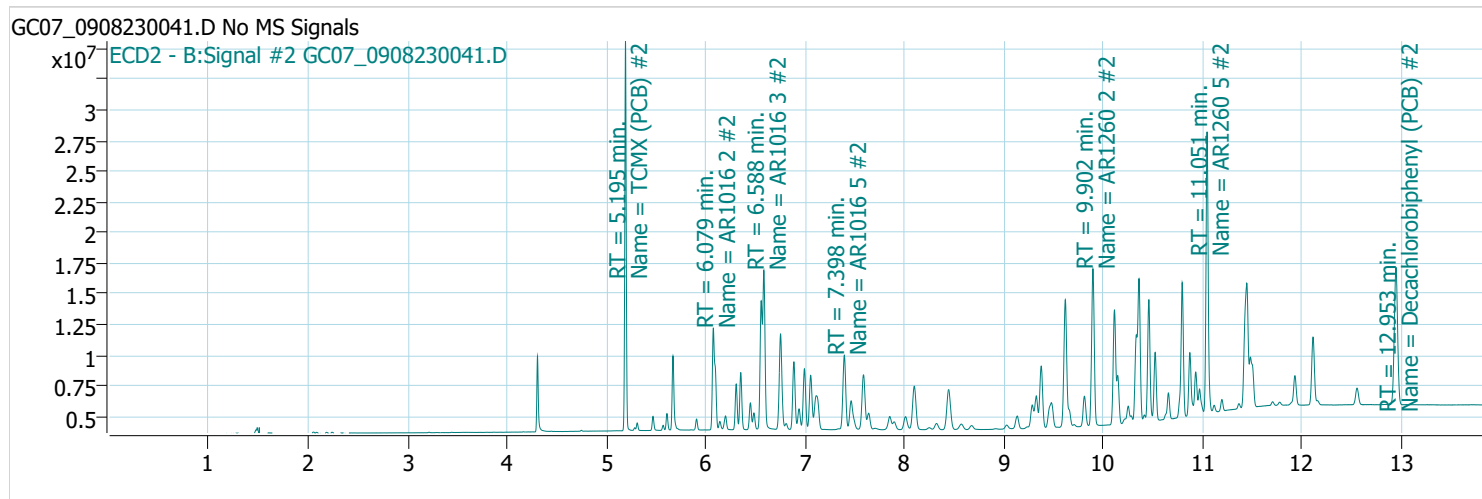
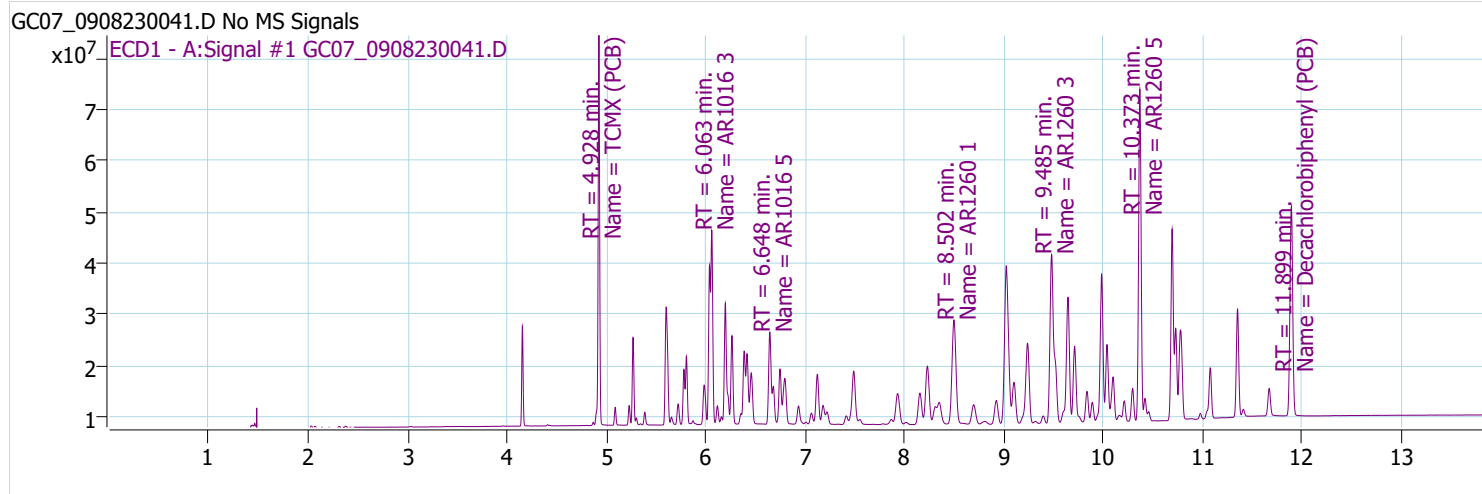


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC07_0908230041.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	9/8/2023 10:55:12 PM
Sample Name	ICAL, S18462	Instrument	SVOA-GC07
Vial	19	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_1.m	Comment	1500 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	090823PCB_ICAL.batch.bin	Last Calib Update	9/11/2023 11:12:29 AM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.157	0.0	18644803.6 28	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.309	0.0	6499383.66 7	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.928	0.0	80614473.8 37	94.6256	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 473.13%	*	
S TCMX (PCB) #2	5.195	0.0	32722338.9 92	96.3750	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 481.88%	*	
S Decachlorobiphenyl (PCB)	11.899	0.0	80508896.9 92	90.0634	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 450.32%	*	
S Decachlorobiphenyl (PCB) #2	12.953	0.0	26118576.0 46	98.8993	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 494.50%	*	

Target Compounds

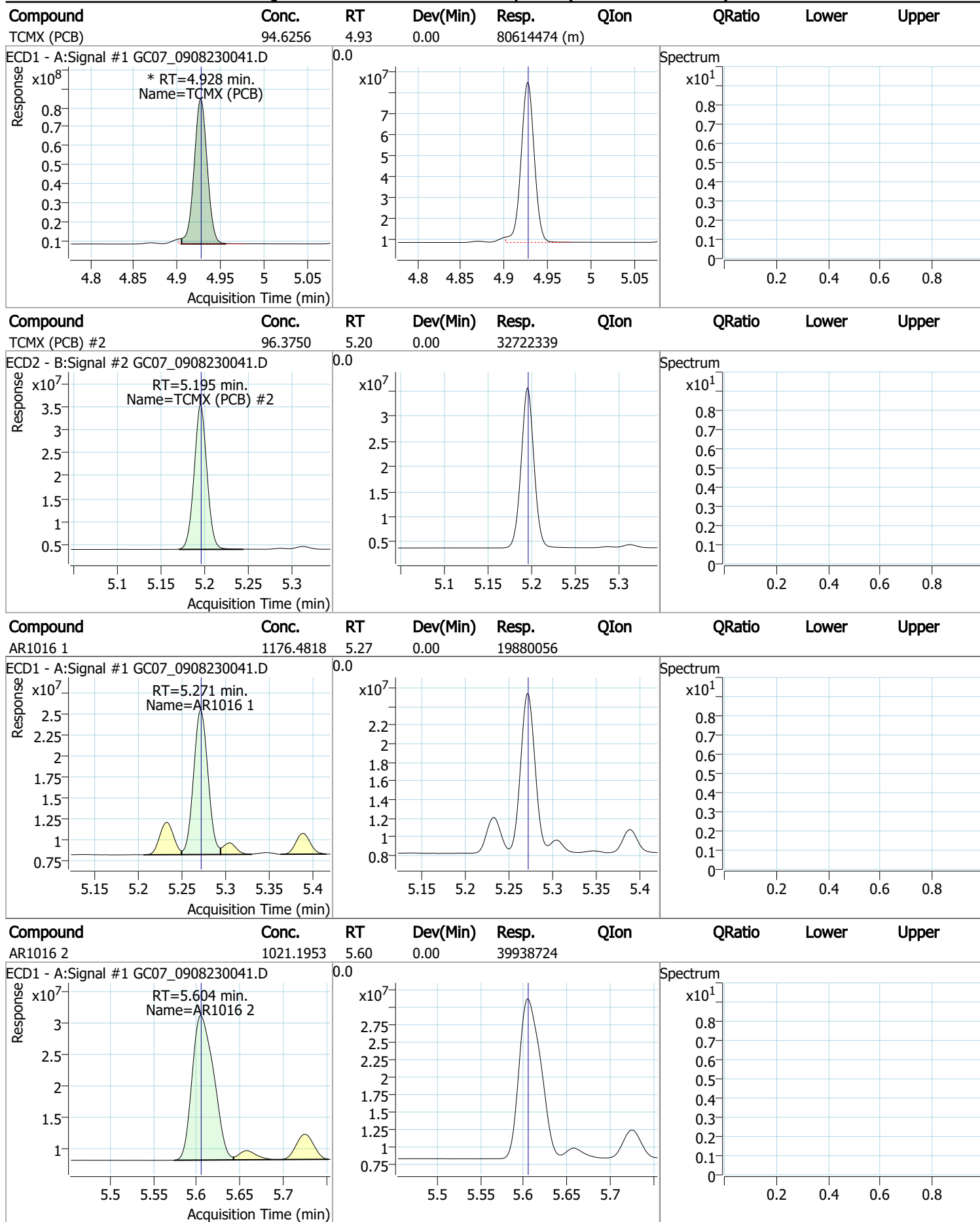
QValue

Quantitation Results Report (Not Reviewed)

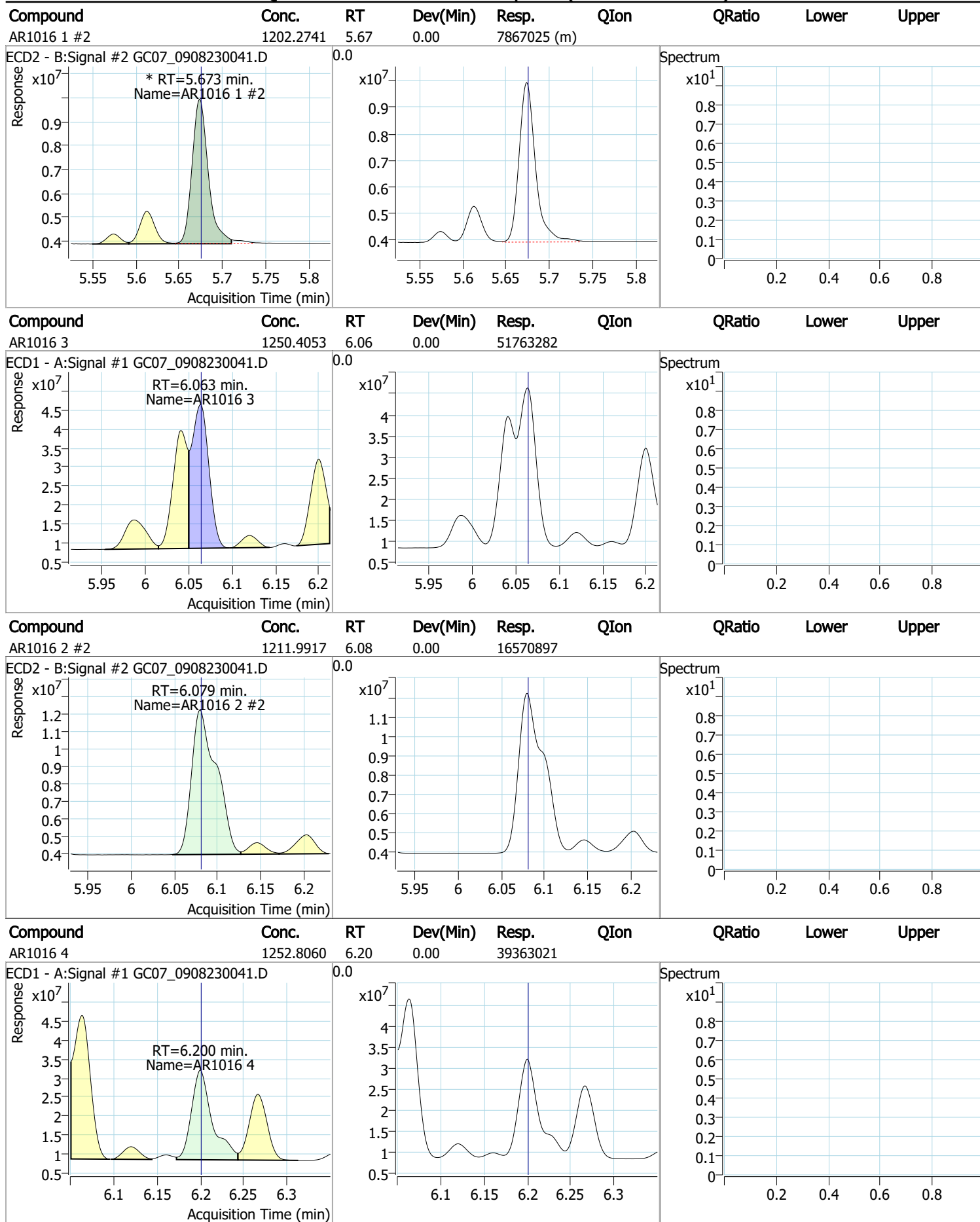
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.271	0.0	19880056.4 79	1176.4818	ng/ml	100
T AR1016 2	5.604	0.0	39938723.5 14	1021.1953	ng/ml	100
T AR1016 1 #2	5.673	0.0	7867024.97 2	1202.2741	ng/ml m	100
T AR1016 3	6.063	0.0	51763281.9 63	1250.4053	ng/ml	100
T AR1016 2 #2	6.079	0.0	16570896.7 05	1211.9917	ng/ml	100
T AR1016 4	6.200	0.0	39363020.7 45	1252.8060	ng/ml	100
T AR1016 3 #2	6.588	0.0	20391367.1 24	1226.5140	ng/ml m	100
T AR1016 5	6.648	0.0	30630465.5 04	1240.2601	ng/ml	100
T AR1016 4 #2	6.757	0.0	14684939.3 55	1234.0680	ng/ml	100
T AR1016 5 #2	7.398	0.0	12146133.1 67	1246.8318	ng/ml	100
T AR1260 1	8.502	0.0	56905491.6 08	1170.2497	ng/ml	100
T AR1260 2	9.028	0.0	85616364.0 13	1165.7556	ng/ml	100
T AR1260 3	9.485	0.0	95201836.4 43	1085.3168	ng/ml	100
T AR1260 1 #2	9.623	0.0	22882287.1 82	1216.5206	ng/ml m	100
T AR1260 2 #2	9.902	0.0	23813616.9 16	1230.1072	ng/ml	100
T AR1260 4	9.988	0.0	55058477.2 26	1132.9260	ng/ml	100
T AR1260 3 #2	10.366	0.0	29423727.2 75	1261.1196	ng/ml	100
T AR1260 5	10.373	0.0	114185725. 549	1415.2577	ng/ml	100
T AR1260 4 #2	10.800	0.0	18461424.2 03	1223.7103	ng/ml	100
T AR1260 5 #2	11.051	0.0	34913361.3 80	1430.7579	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

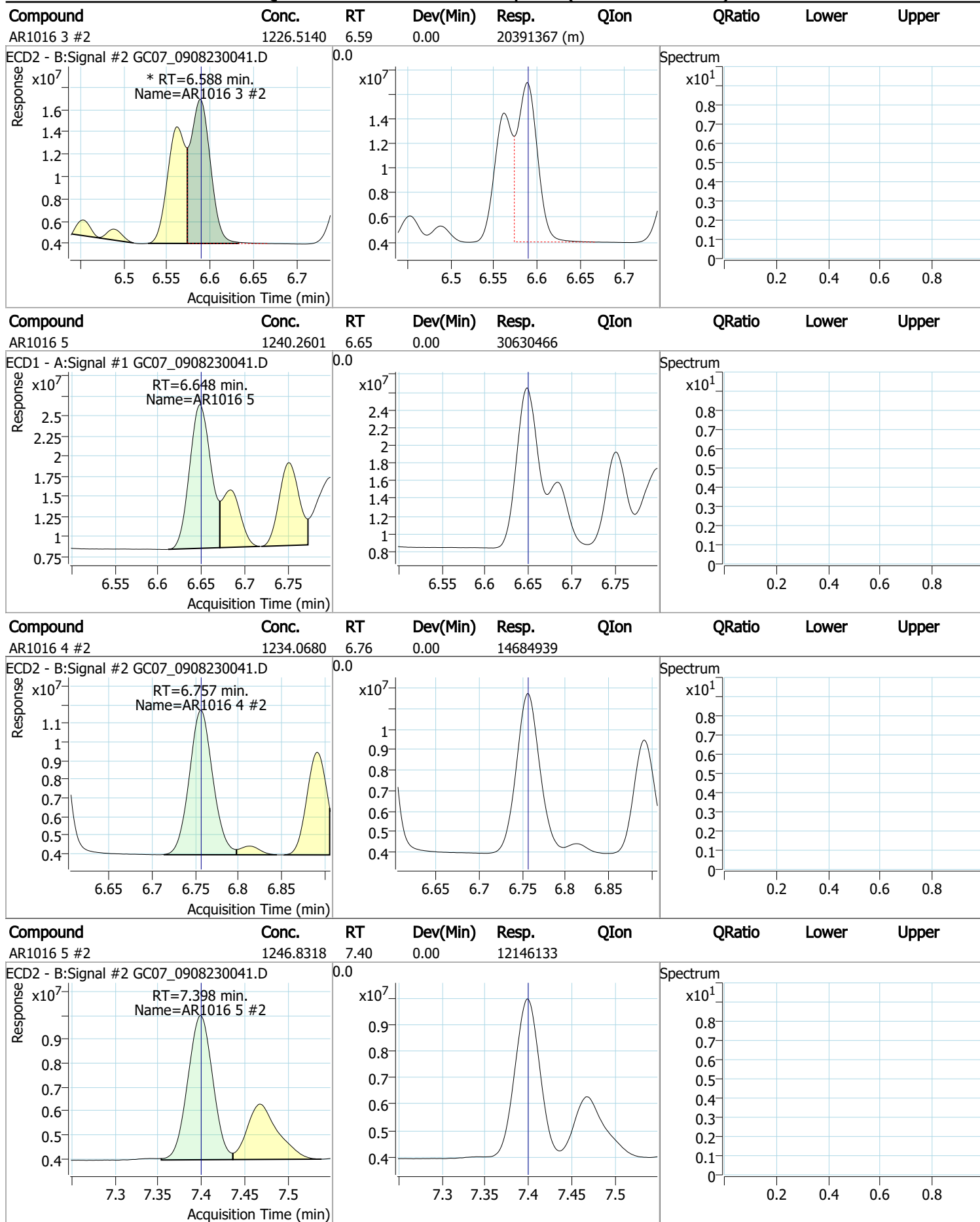
Quantitation Results Report (Not Reviewed)



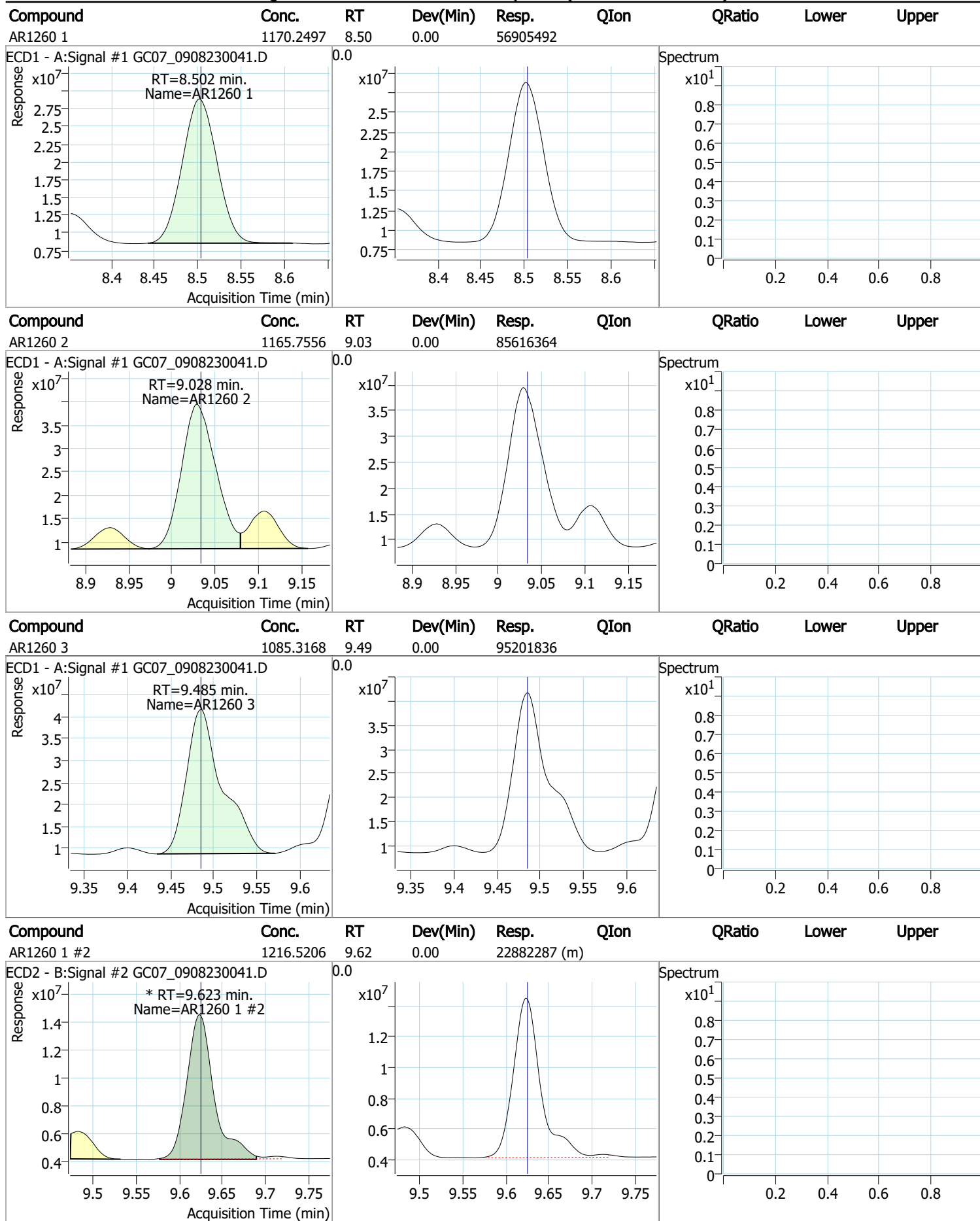
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

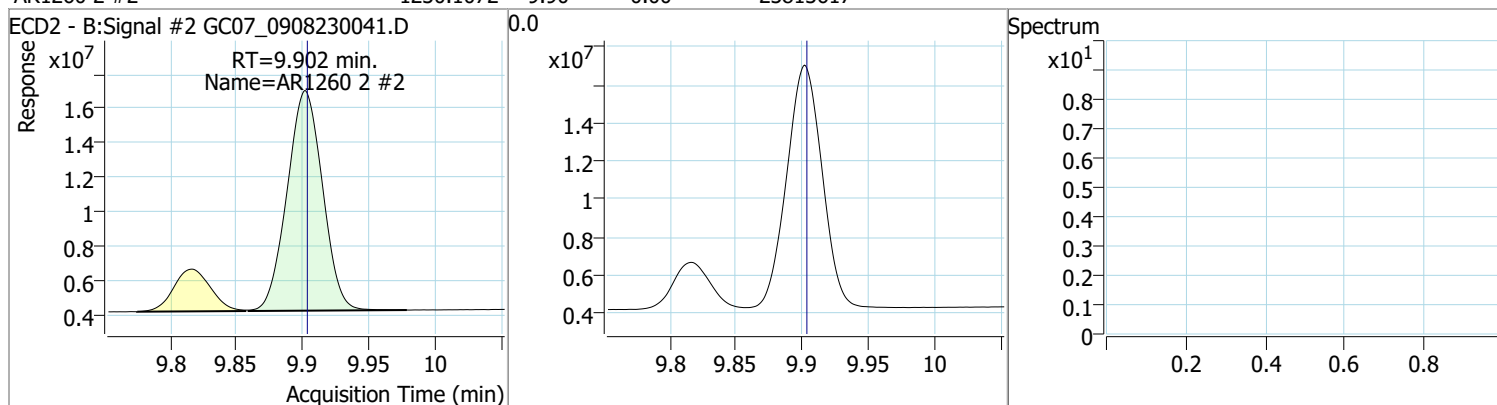


Quantitation Results Report (Not Reviewed)

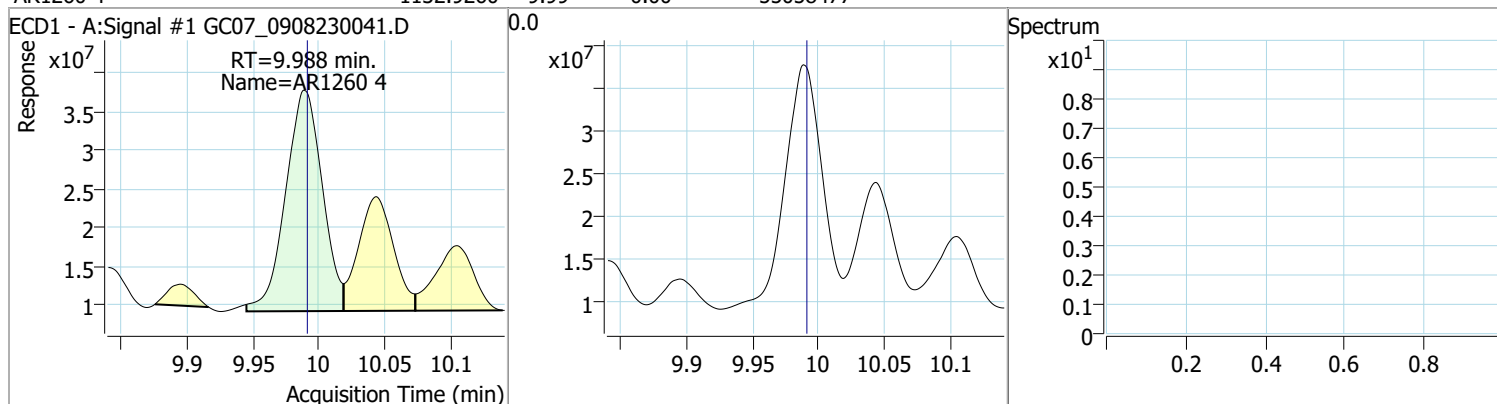


Quantitation Results Report (Not Reviewed)

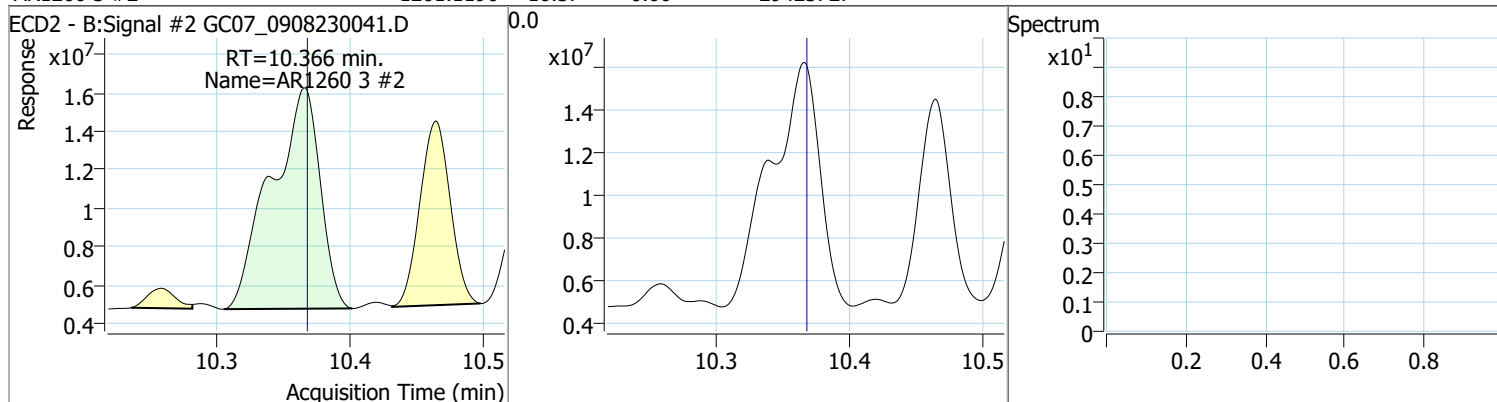
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1230.1072	9.90	0.00	23813617				



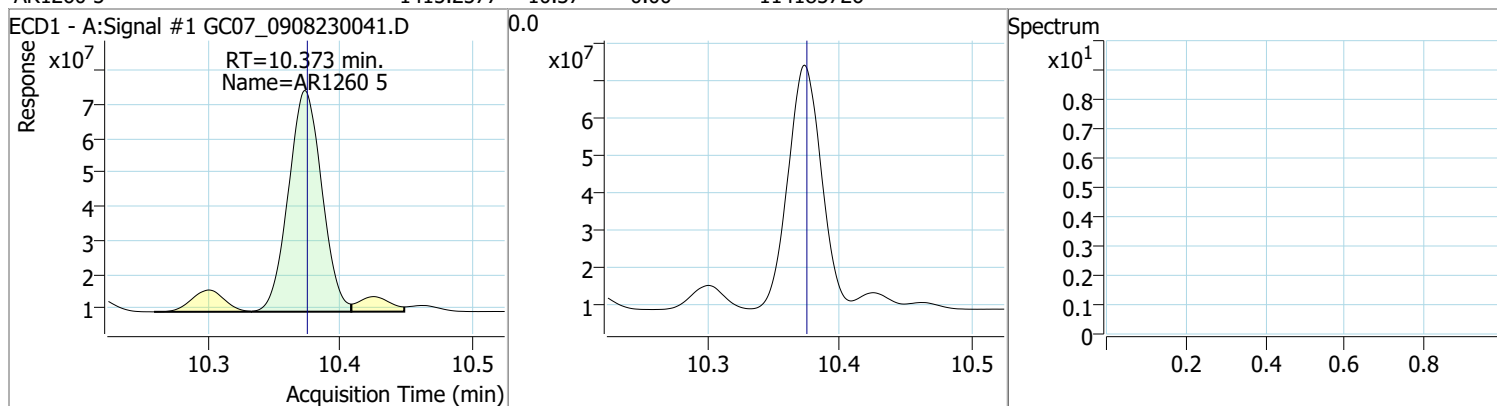
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	1132.9260	9.99	0.00	55058477				



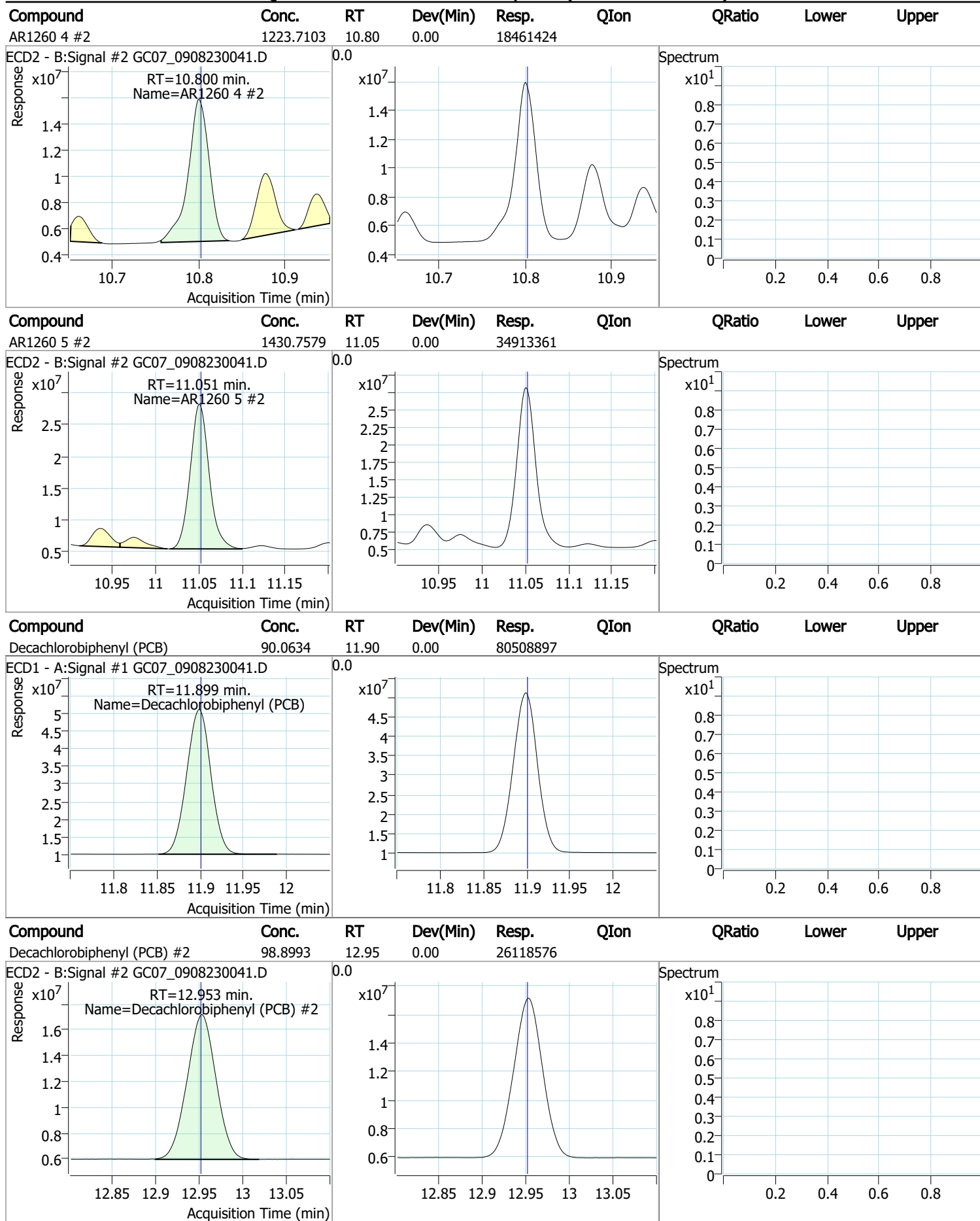
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1261.1196	10.37	0.00	29423727				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1415.2577	10.37	0.00	114185726				



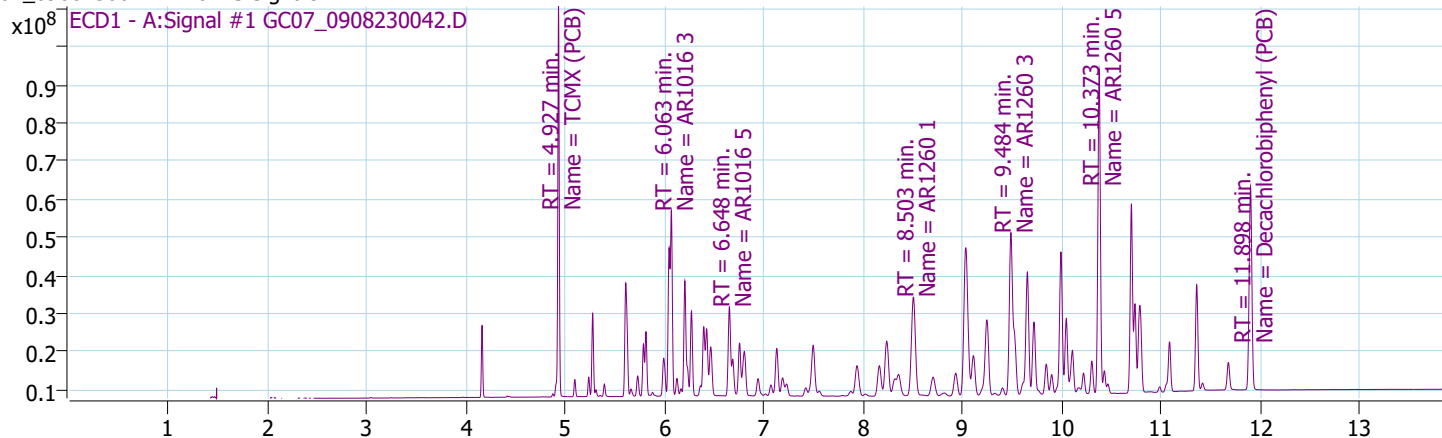
Quantitation Results Report (Not Reviewed)



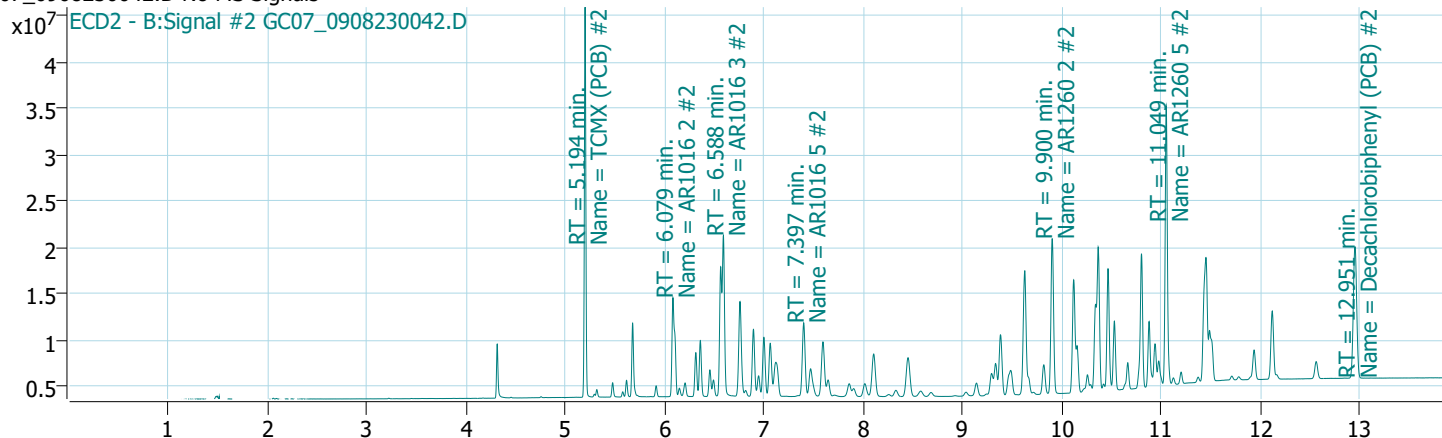
Quantitation Results Report (Not Reviewed)

Data File	GC07_0908230042.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	9/8/2023 11:12:33 PM
Sample Name	ICAL, S18463	Instrument	SVOA-GC07
Vial	20	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_1.m	Comment	2000 PPB PCB ICAL
Tune File	ATUNE.U	Tune Date	
Batch Name	090823PCB_ICAL.batch.bin	Last Calib Update	9/11/2023 11:12:29 AM
Ref Library			

GC07_0908230042.D No MS Signals



GC07_0908230042.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.156	0.0	17750330.341	20.0000	ng/ml	-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.309	0.0	6234553.706	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.927	0.0	104970124.750	129.4234	ng/ml	m
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 647.12%	*	
S TCMX (PCB) #2	5.194	0.0	44029607.929	135.1860	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 675.93%	*	
S Decachlorobiphenyl (PCB)	11.898	0.0	103147355.227	121.2031	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 606.02%	*	
S Decachlorobiphenyl (PCB) #2	12.951	0.0	34048674.424	134.4036	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 672.02%	*	

Target Compounds

QValue

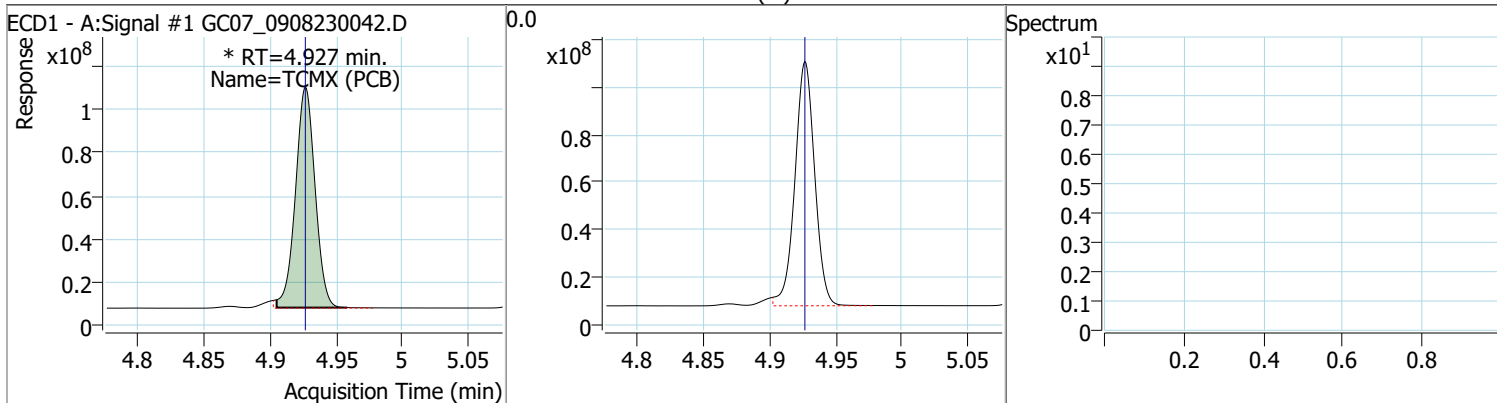
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.271	0.0	25343968.3 78	1575.4100	ng/ml	100
T AR1016 2	5.604	0.0	50483339.9 63	1355.8576	ng/ml	100
T AR1016 1 #2	5.673	0.0	10238716.6 18	1631.1928	ng/ml m	100
T AR1016 3	6.063	0.0	65765013.2 50	1668.6885	ng/ml	100
T AR1016 2 #2	6.079	0.0	21504444.3 15	1639.6406	ng/ml	100
T AR1016 4	6.199	0.0	50649129.3 21	1693.2409	ng/ml	100
T AR1016 3 #2	6.588	0.0	27500983.8 96	1724.4126	ng/ml m	100
T AR1016 5	6.648	0.0	39027230.0 56	1659.8860	ng/ml	100
T AR1016 4 #2	6.755	0.0	19117948.9 20	1674.8466	ng/ml	100
T AR1016 5 #2	7.397	0.0	15770887.6 74	1687.6904	ng/ml	100
T AR1260 1	8.503	0.0	73460665.5 97	1586.8307	ng/ml m	100
T AR1260 2	9.030	0.0	109546594. 296	1566.7546	ng/ml	100
T AR1260 3	9.484	0.0	122783311. 501	1470.2864	ng/ml	100
T AR1260 1 #2	9.624	0.0	29844029.3 31	1654.0334	ng/ml m	100
T AR1260 2 #2	9.900	0.0	31080452.5 45	1673.6773	ng/ml	100
T AR1260 4	9.988	0.0	71264665.1 17	1540.2917	ng/ml	100
T AR1260 3 #2	10.363	0.0	38887357.6 25	1737.5360	ng/ml	100
T AR1260 5	10.373	0.0	149507345. 972	2040.0999	ng/ml	100
T AR1260 4 #2	10.799	0.0	24257580.9 97	1676.2072	ng/ml	100
T AR1260 5 #2	11.049	0.0	46394118.2 28	2028.5287	ng/ml	100

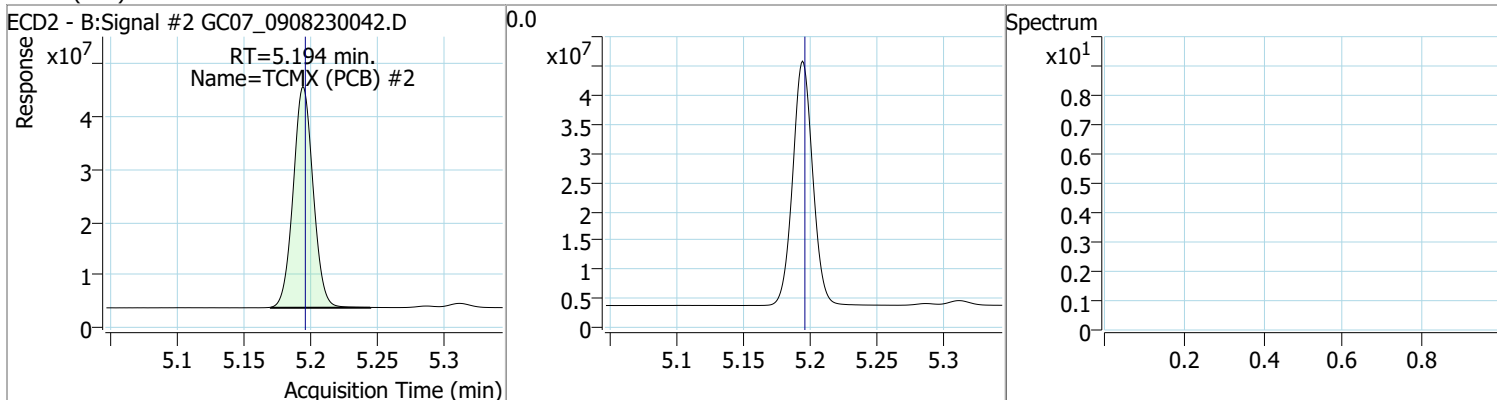
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

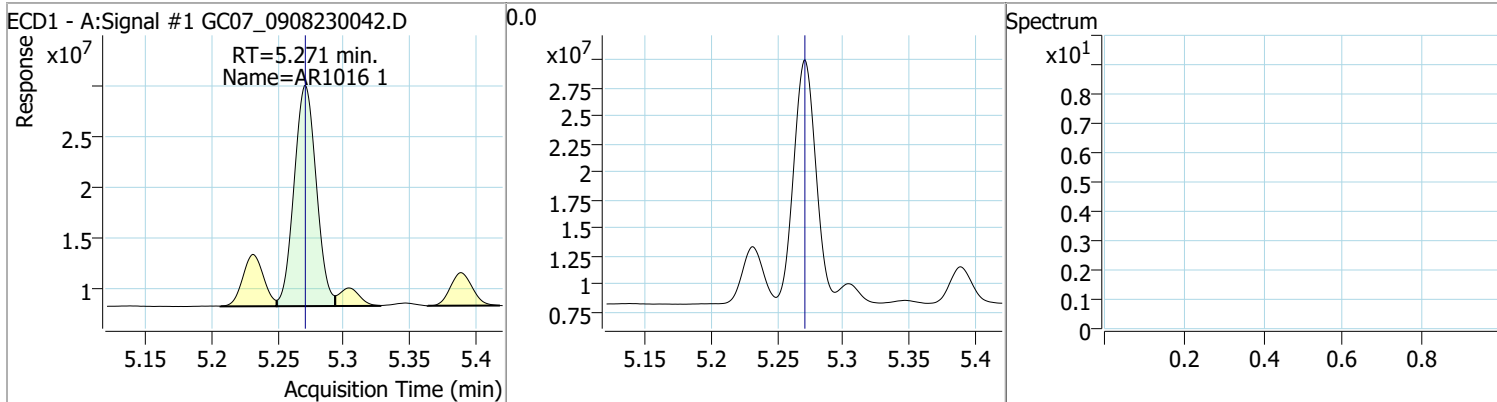
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	129.4234	4.93	0.00	104970125 (m)				



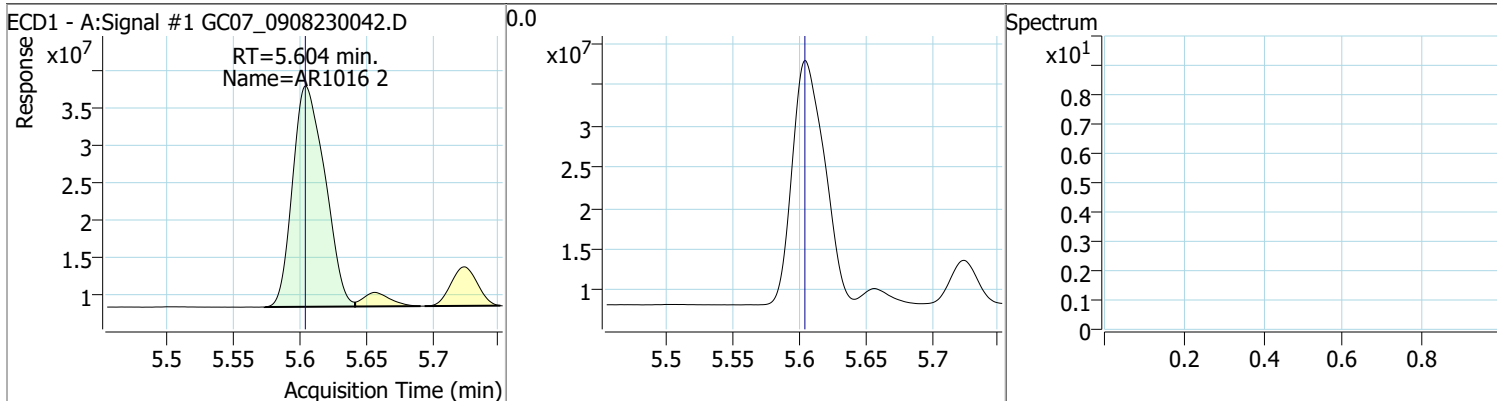
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	135.1860	5.19	0.00	44029608				



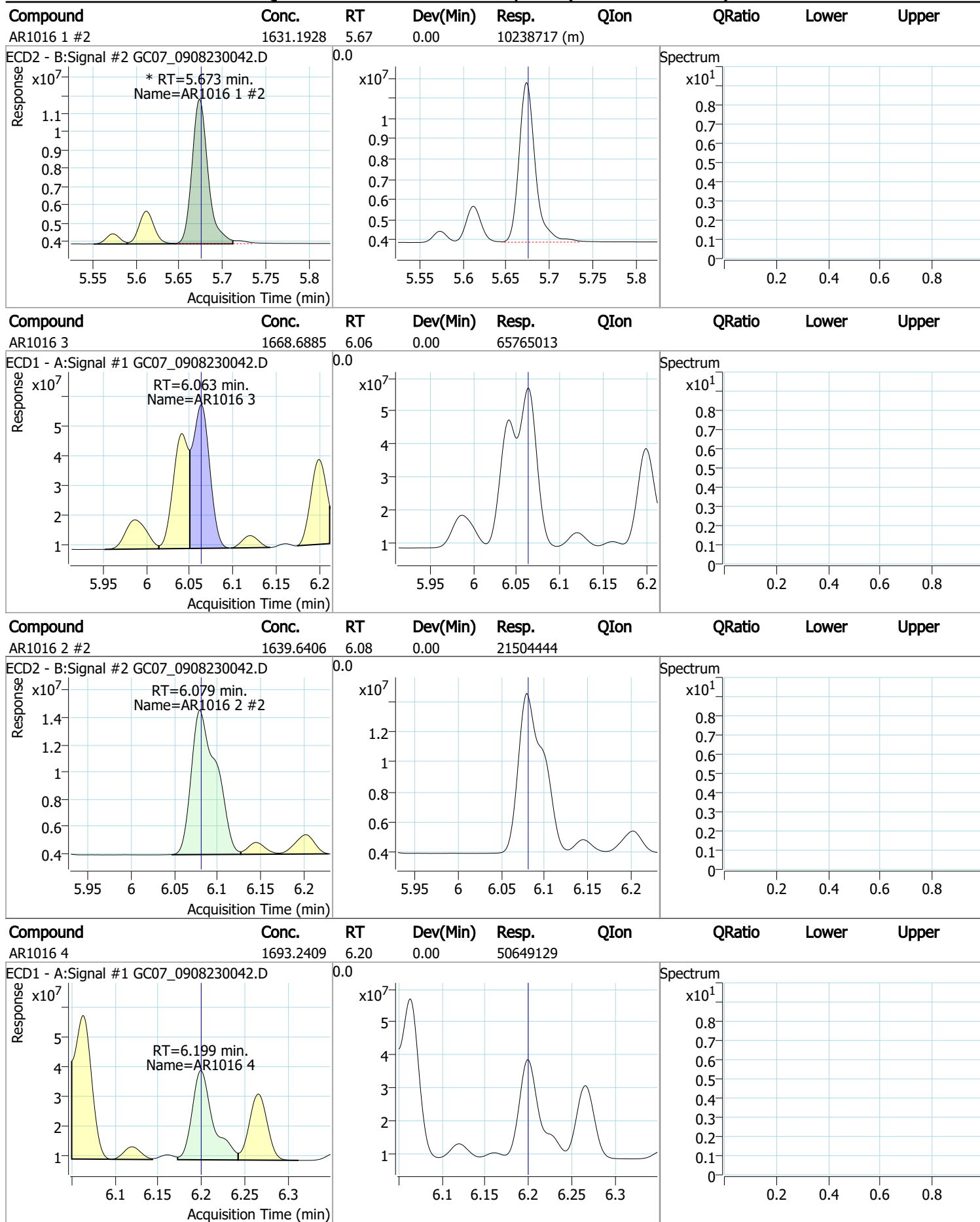
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1575.4100	5.27	0.00	25343968				



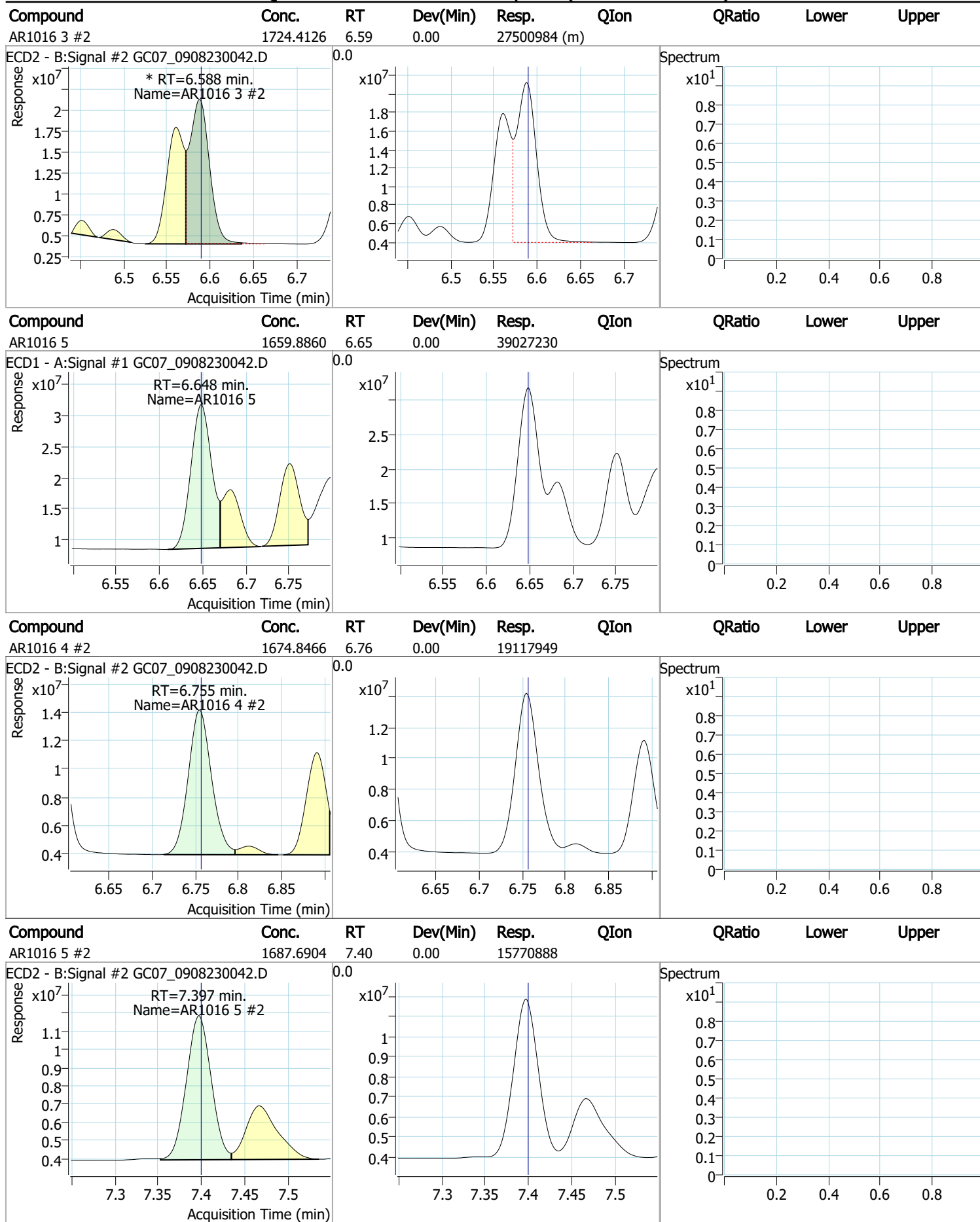
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1355.8576	5.60	0.00	50483340				



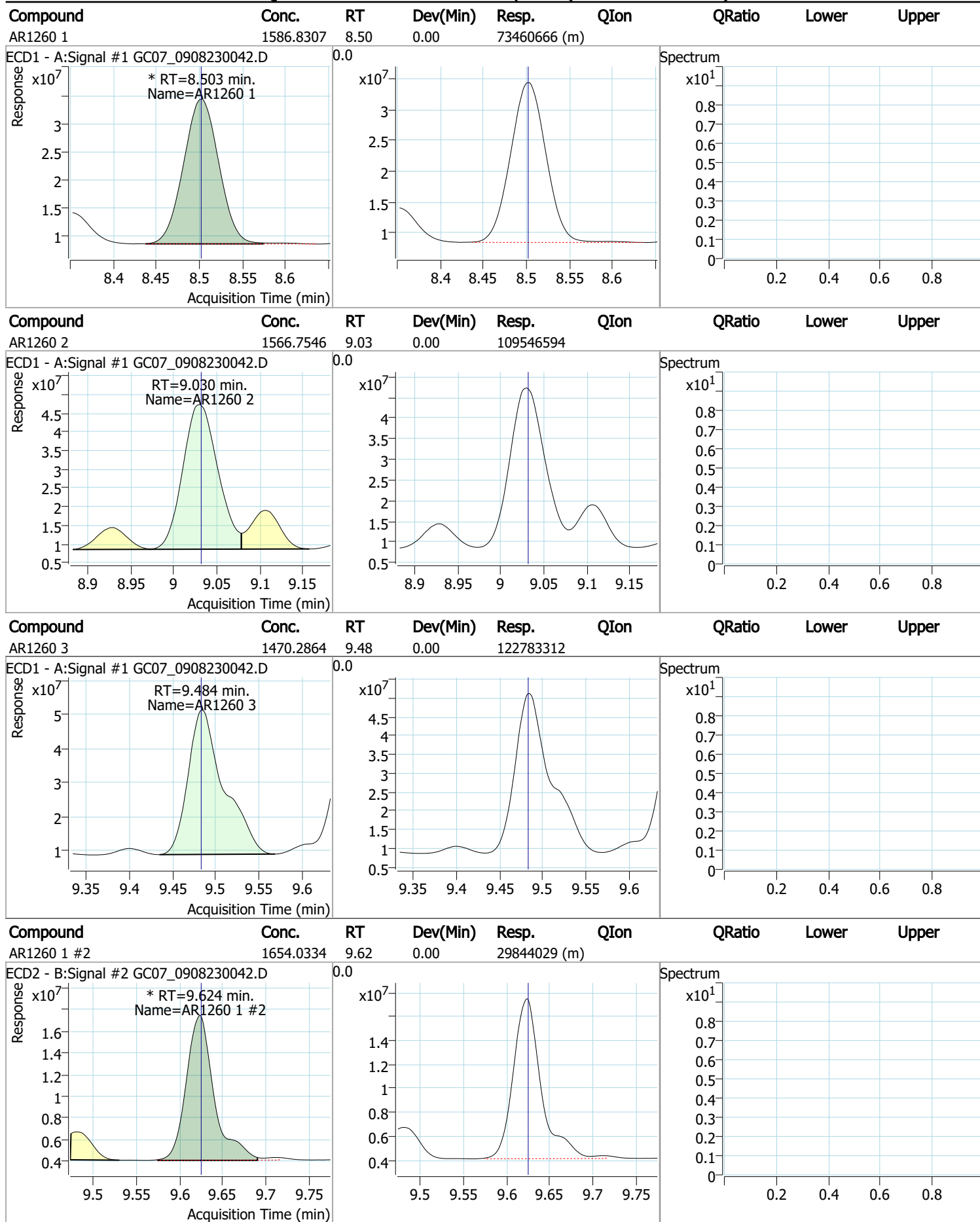
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

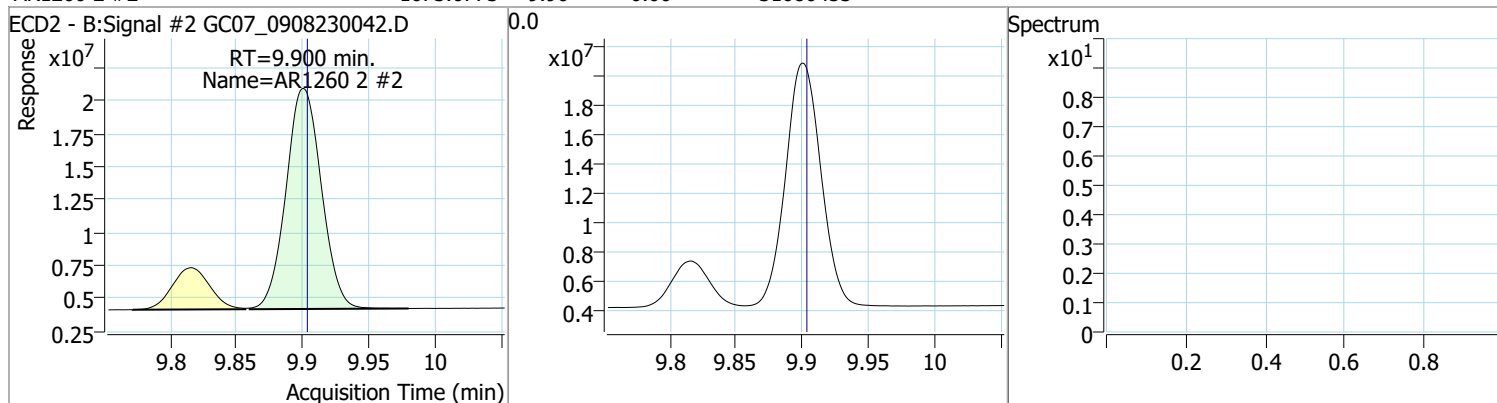


Quantitation Results Report (Not Reviewed)

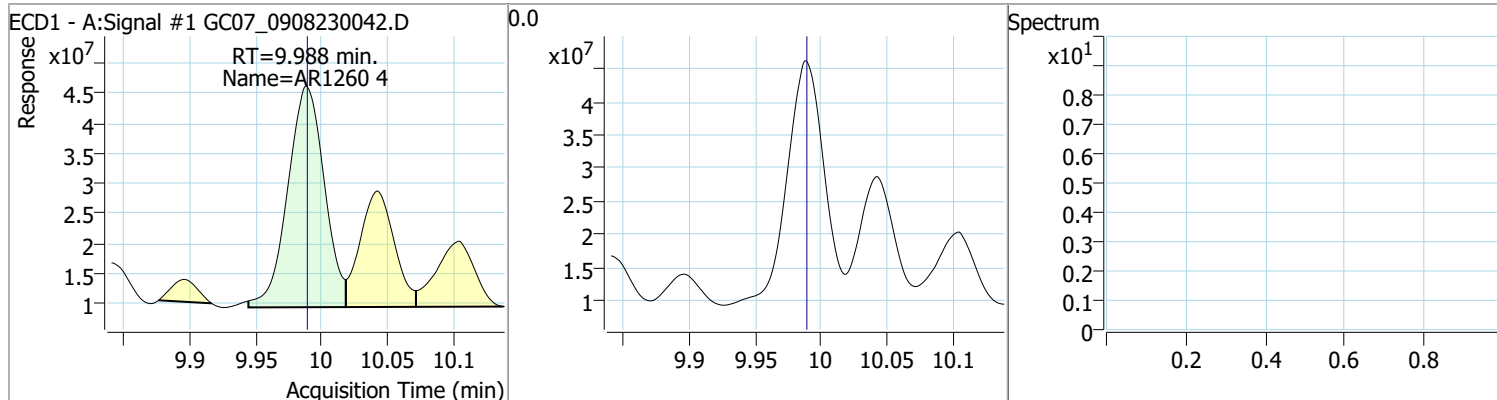


Quantitation Results Report (Not Reviewed)

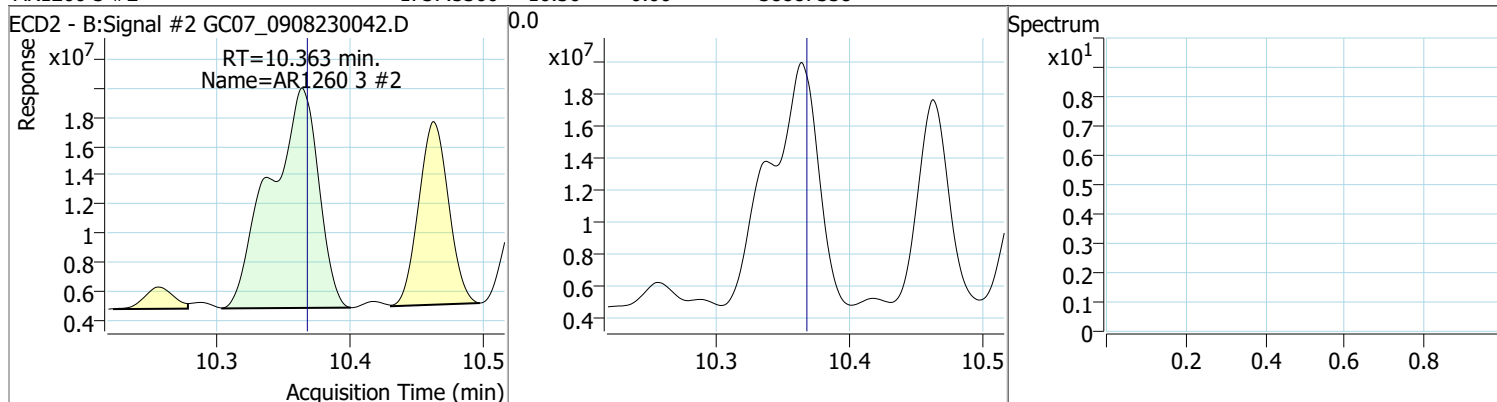
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1673.6773	9.90	0.00	31080453				



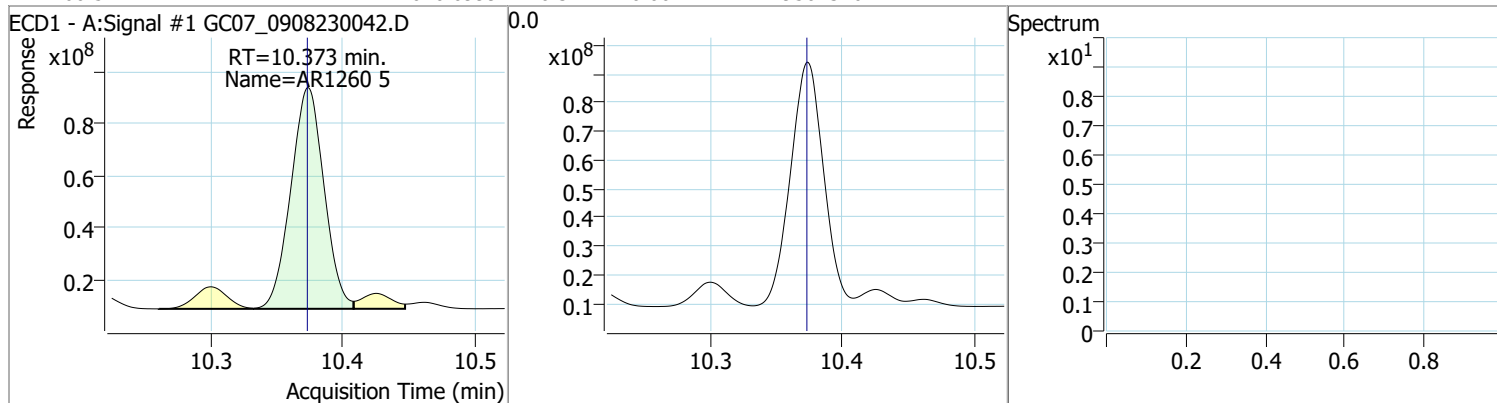
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	1540.2917	9.99	0.00	71264665				



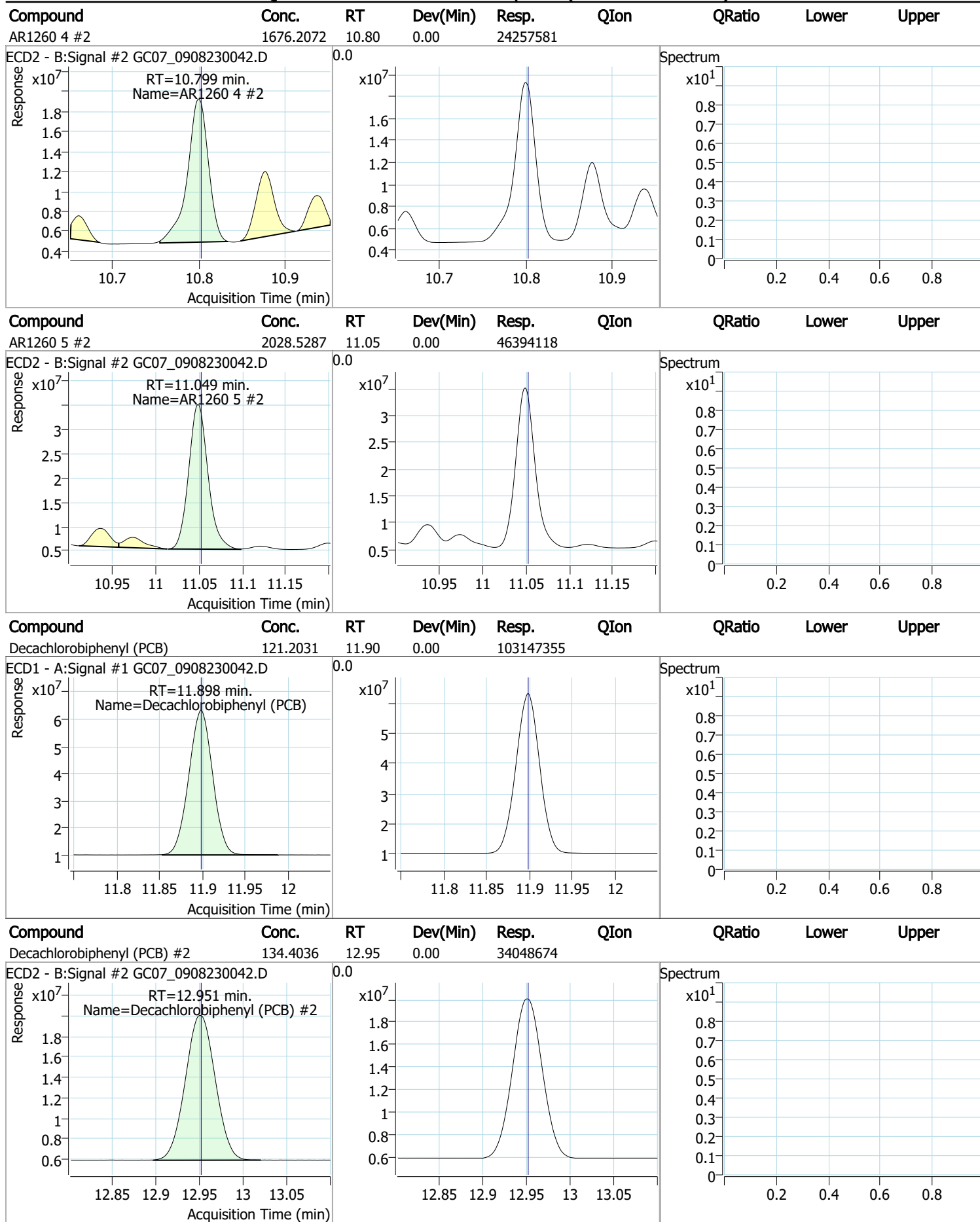
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1737.5360	10.36	0.00	38887358				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	2040.0999	10.37	0.00	149507346				



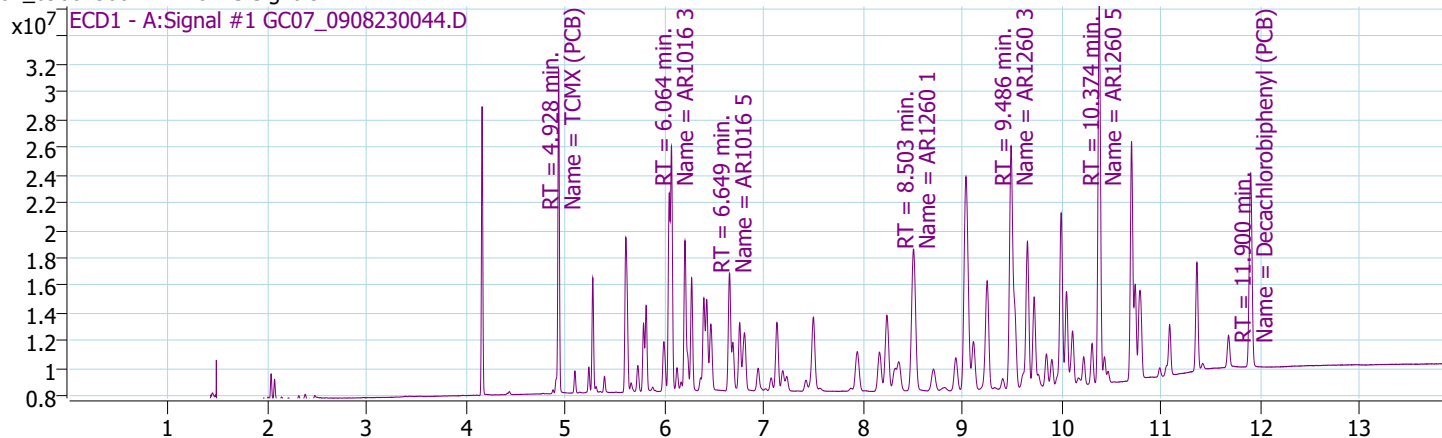
Quantitation Results Report (Not Reviewed)



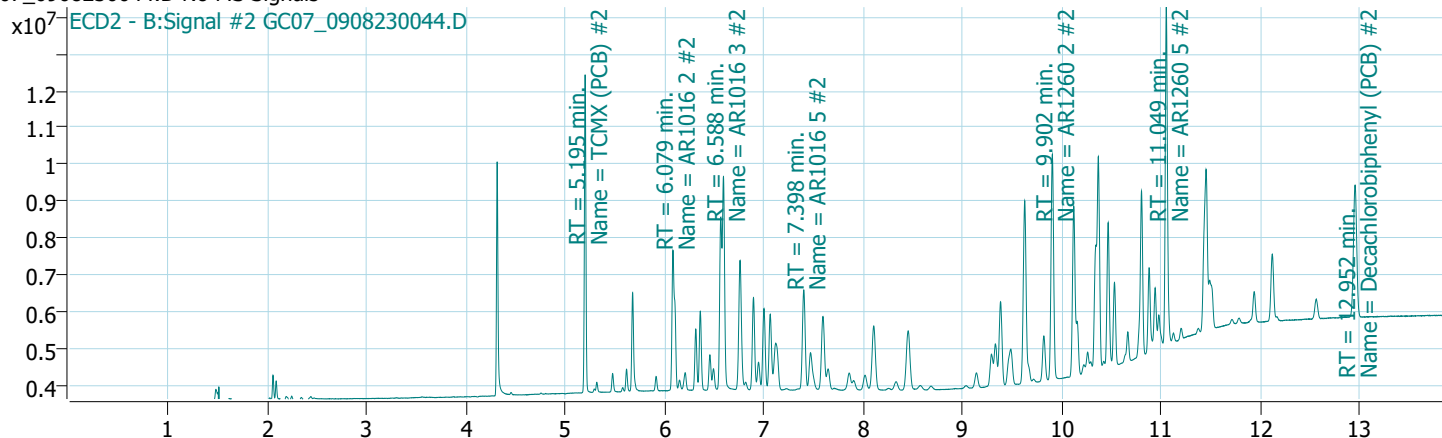
Quantitation Results Report (Not Reviewed)

Data File	GC07_0908230044.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	9/8/2023 11:47:34 PM
Sample Name	ICV, S18851	Instrument	SVOA-GC07
Vial	21	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_1.m	Comment	500PPB PCB ICV
Tune File	ATUNE.U	Tune Date	
Batch Name	090823PCB_ICAL.batch.bin	Last Calib Update	9/11/2023 11:12:29 AM
Ref Library			

GC07_0908230044.D No MS Signals



GC07_0908230044.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.157	0.0	19726868.584	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.308	0.0	6712853.726	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.928	0.0	24640490.950	27.3366	ng/ml m	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 136.68%			
S TCMX (PCB) #2	5.195	0.0	9284987.550	26.4769	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 132.38%			
S Decachlorobiphenyl (PCB)	11.900	0.0	27939150.162	29.5405	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 147.70%			
S Decachlorobiphenyl (PCB) #2	12.952	0.0	8325064.086	30.5208	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 152.60% *			

Target Compounds

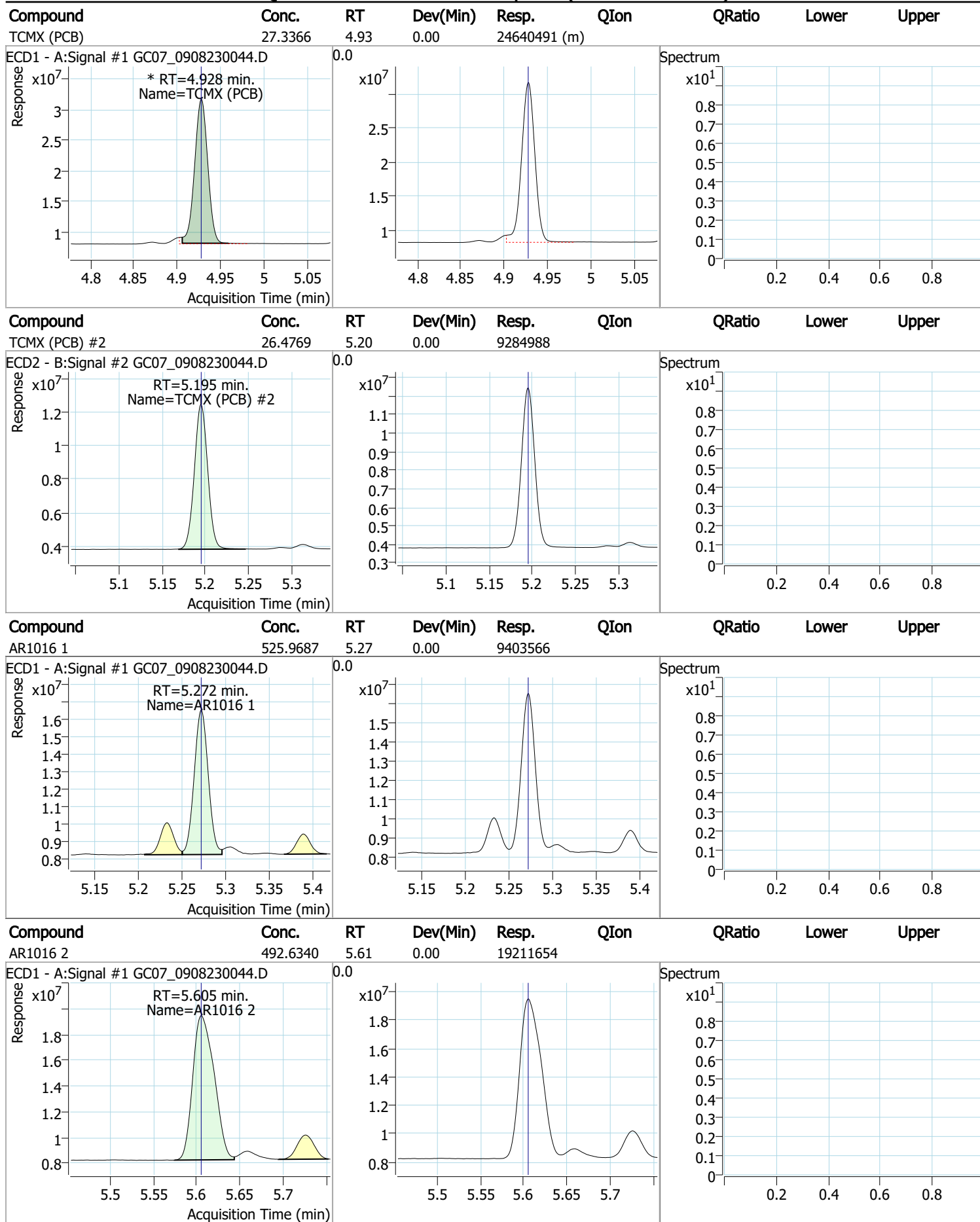
QValue

Quantitation Results Report (Not Reviewed)

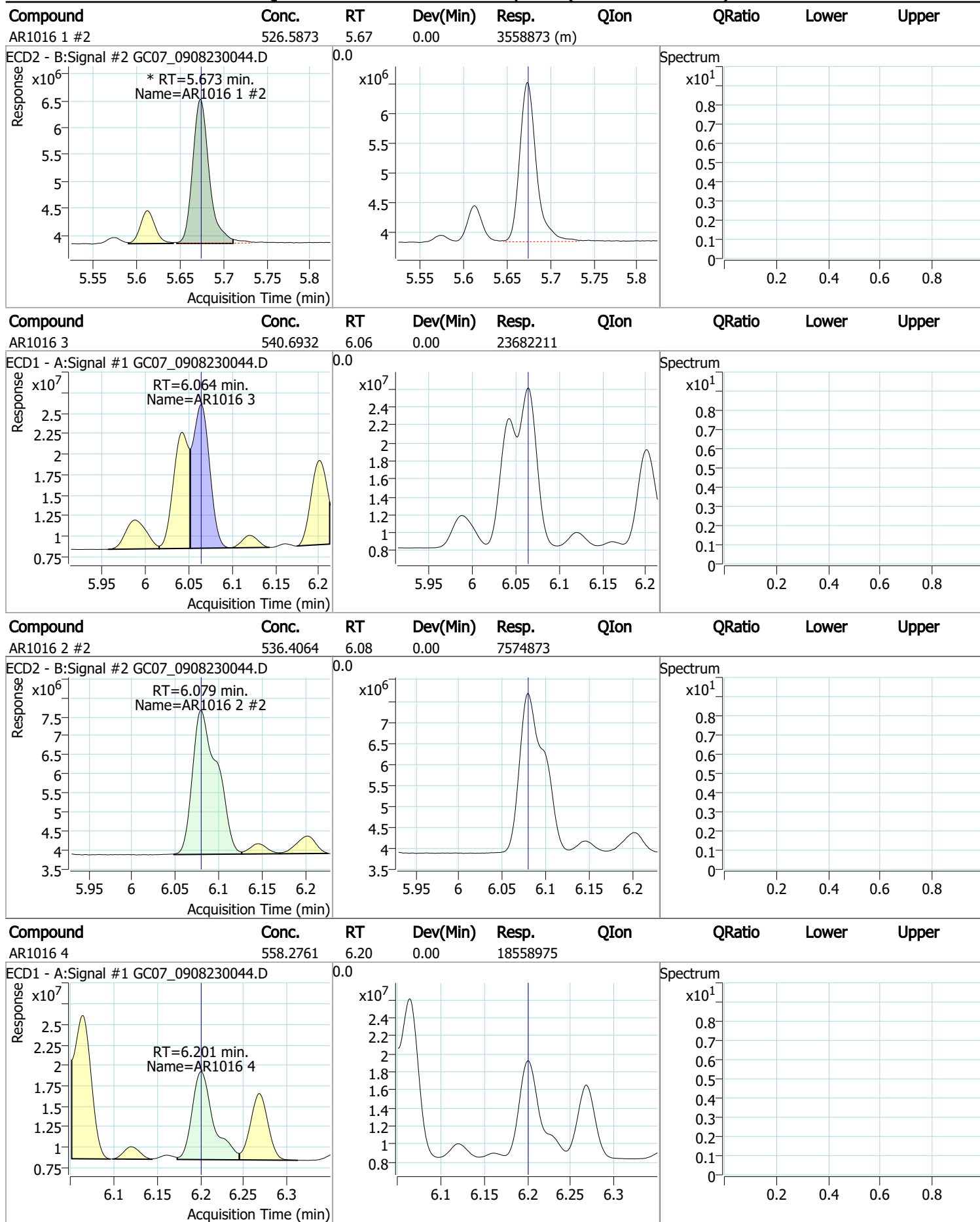
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.272	0.0	9403566.40 0	525.9687	ng/ml	100
T AR1016 2	5.605	0.0	19211653.8 92	492.6340	ng/ml	100
T AR1016 1 #2	5.673	0.0	3558872.73 2	526.5873	ng/ml m	100
T AR1016 3	6.064	0.0	23682211.1 50	540.6932	ng/ml	100
T AR1016 2 #2	6.079	0.0	7574872.59 1	536.4064	ng/ml	100
T AR1016 4	6.201	0.0	18558975.2 01	558.2761	ng/ml	100
T AR1016 3 #2	6.588	0.0	9009796.52 6	524.6940	ng/ml m	100
T AR1016 5	6.649	0.0	14350635.6 22	549.1993	ng/ml	100
T AR1016 4 #2	6.756	0.0	6573947.90 9	534.8823	ng/ml	100
T AR1016 5 #2	7.398	0.0	5359660.16 7	532.6870	ng/ml	100
T AR1260 1	8.503	0.0	29054300.2 63	564.7217	ng/ml m	100
T AR1260 2	9.032	0.0	44162392.8 70	568.3332	ng/ml	100
T AR1260 3	9.486	0.0	49089473.6 98	528.9313	ng/ml	100
T AR1260 1 #2	9.623	0.0	10569730.8 21	544.0627	ng/ml m	100
T AR1260 2 #2	9.902	0.0	11252502.9 59	562.7710	ng/ml	100
T AR1260 4	9.991	0.0	24172918.7 21	470.1172	ng/ml	100
T AR1260 3 #2	10.365	0.0	14204022.4 82	589.4336	ng/ml	100
T AR1260 5	10.374	0.0	49211145.7 77	496.5248	ng/ml	100
T AR1260 4 #2	10.800	0.0	7730016.93 1	496.0881	ng/ml	100
T AR1260 5 #2	11.049	0.0	14079734.0 02	504.6376	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

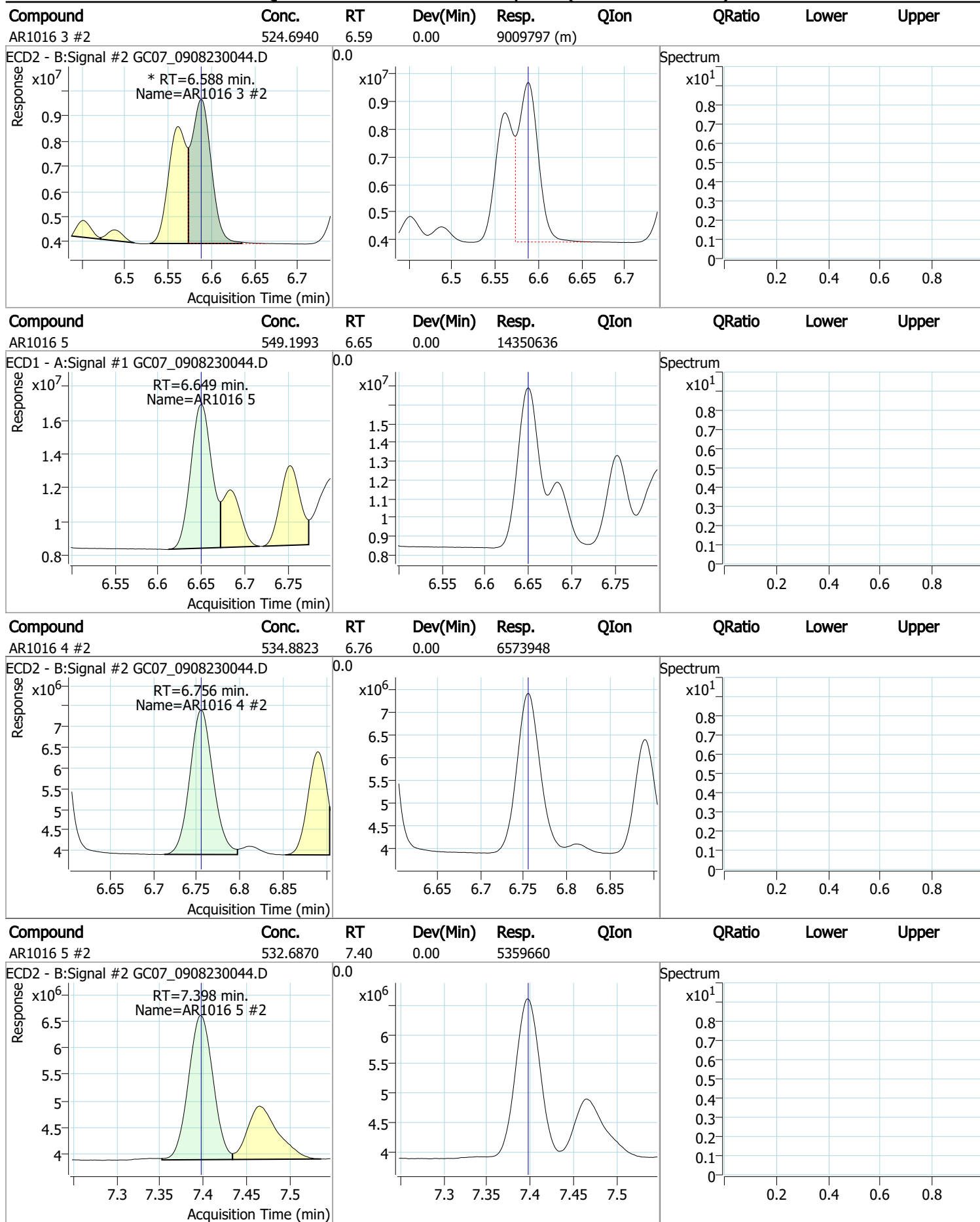
Quantitation Results Report (Not Reviewed)



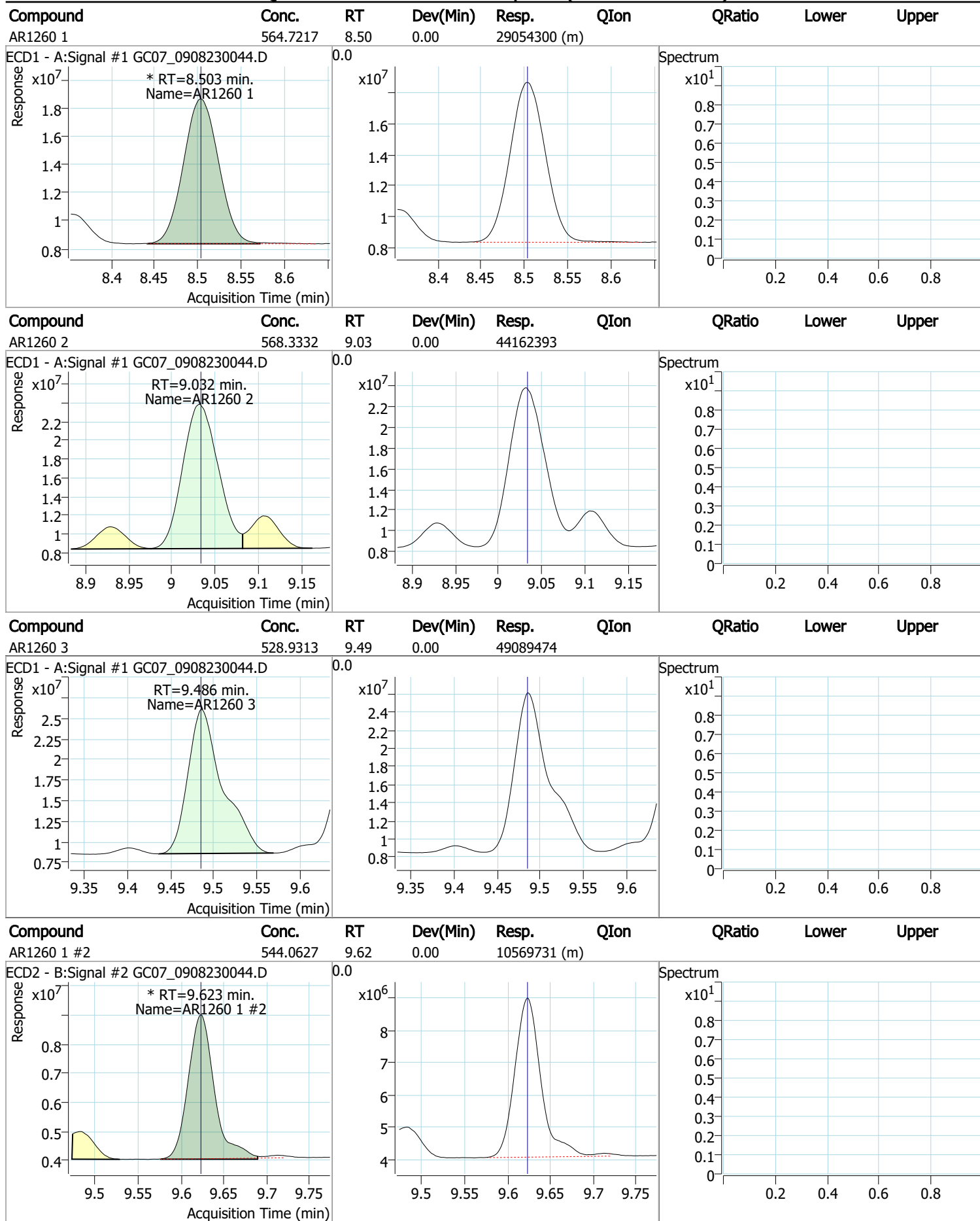
Quantitation Results Report (Not Reviewed)



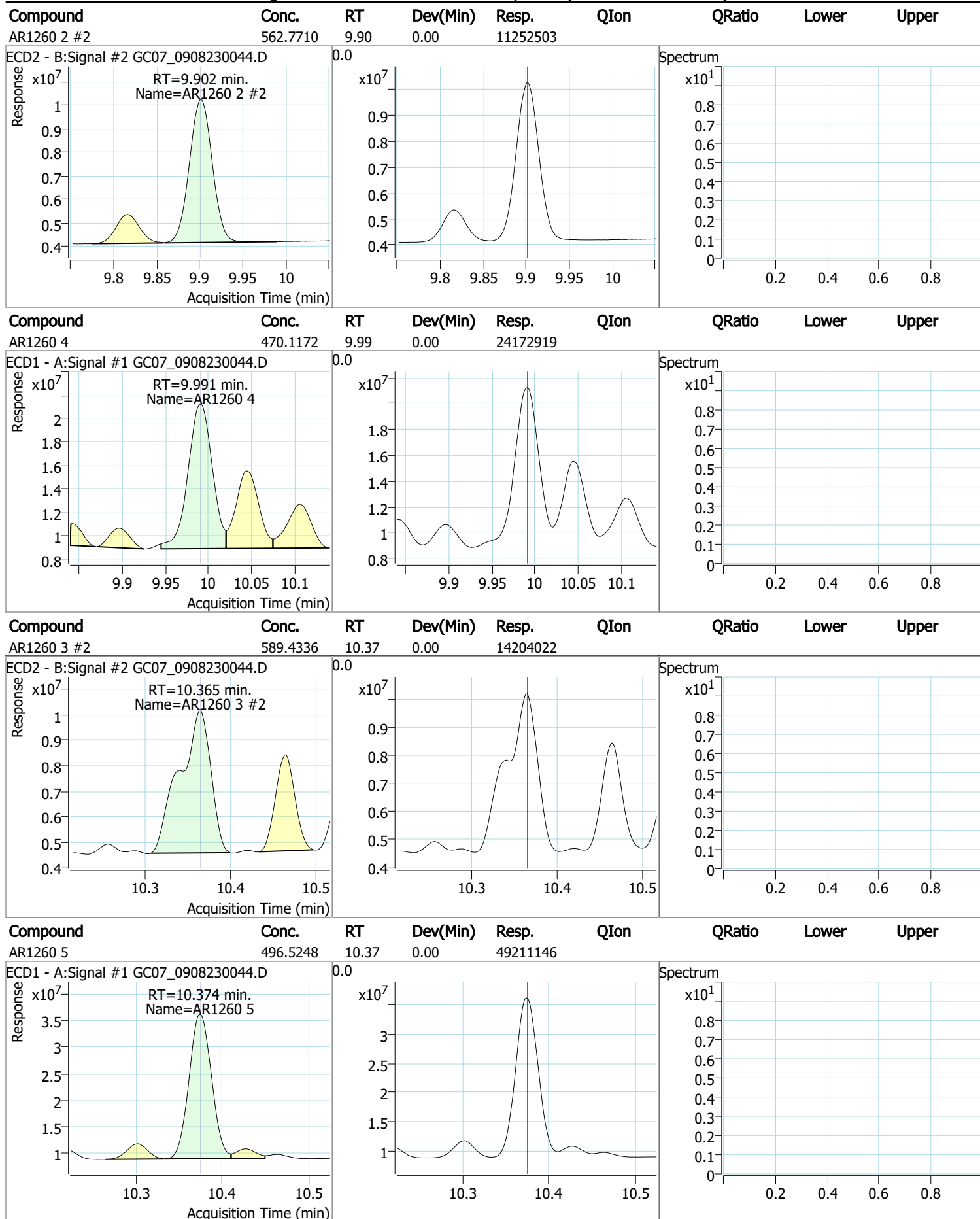
Quantitation Results Report (Not Reviewed)



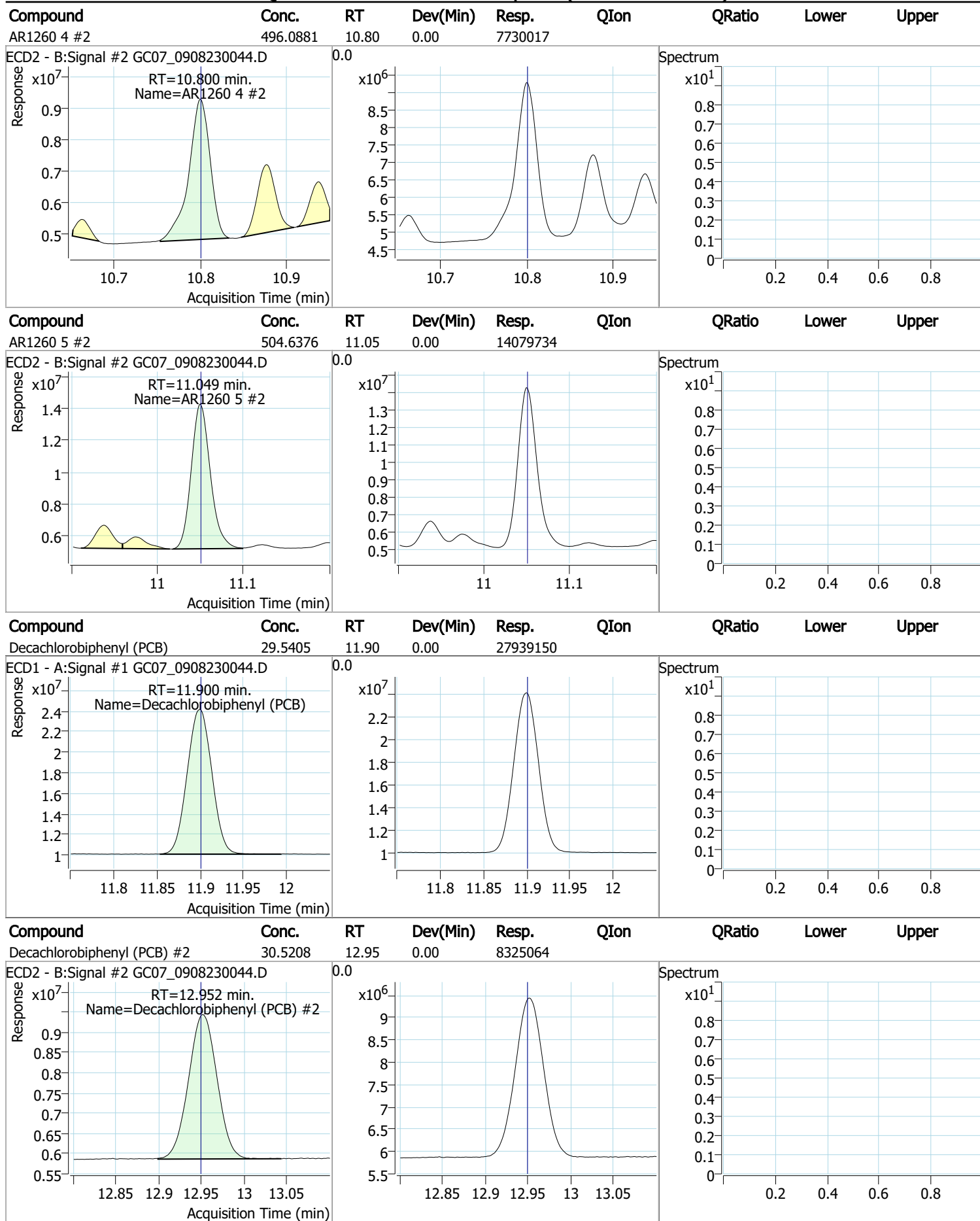
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Continuing Calibration Verification Raw Data

ENTHALPY CONTINUING CALIBRATION FOR 493300 PCBs Wipe
EPA 8082

Inst: SVOA-GC06	File: gc06_100523030	IDF: 1.0
Seqnum: 453400820030	Caldate: 05-OCT-2023	Time: 05-OCT-2023 16:45
Cal: 453400820002		

Standards: S18851

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	505.7	ug/L	1	15	15	0.0000	
Aroclor-1260	A			500.0	505.0	ug/L	1	15	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.3822	2.0166	20.00	29.18	ug/L	46	15	15	0.0000	c+
TCMX (PCB)	A	1.0793	1.4915	20.00	27.64	ug/L	38	15	15	0.0000	c+
Aroclor-1016	B			500.0	533.2	ug/L	7	15	15	0.0000	
Aroclor-1260	B			500.0	536.1	ug/L	7	15	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.2605	1.5978	20.00	25.35	ug/L	27	15	15	0.0000	c+
TCMX (PCB)	B	0.9908	1.3802	20.00	27.86	ug/L	39	15	15	0.0000	c+

ISTD (ICAL gc06_100523021)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	11400491	12870863	12.90
1-bromo-2-nitrobenzene (PCB)	A	4709007	5358611	13.79

10/05/23 : 500 PPB PCB ICV

TRN 10/05/23 [Aroclor-1016 A]: Separated from coeluting peak for Ch. A.

TRN 10/05/23 [Aroclor-1260 B]: Corrected baseline noise or negative peak for Ch. B.

+=high bias c=CCV

Analyst: TRN 10/05/23 *

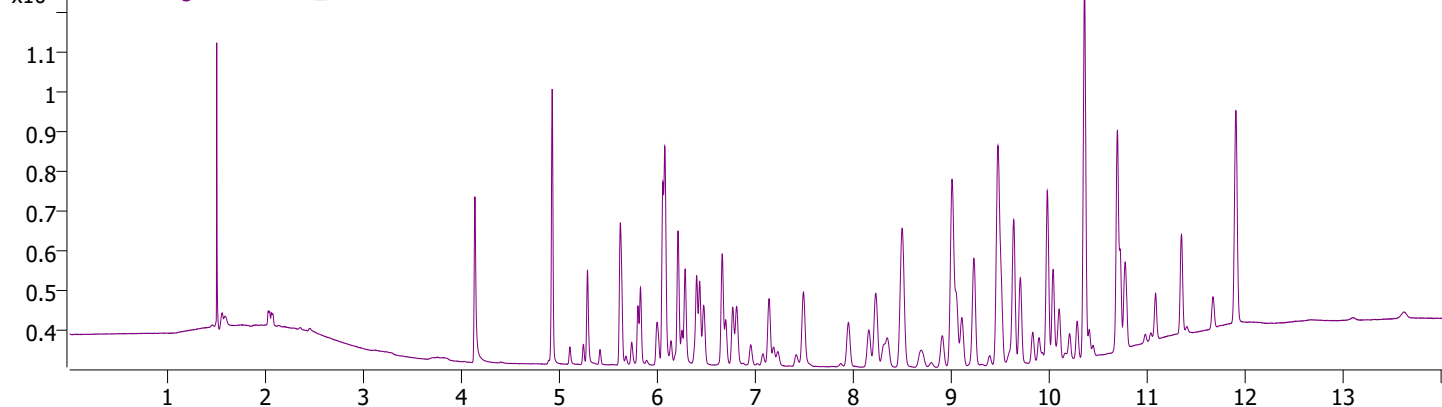
Reviewer: LW 10/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_100523030.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/5/2023 4:45:47 PM
Sample Name	ICV, S18851	Instrument	SVOA-GC06
Vial	20	Multiplier	1.00
DA Method File	PCB_608_100523_GC06_1.m	Comment	500 PPB PCB ICV
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCBICAL.batch.bin	Last Calib Update	10/5/2023 6:33:52 PM
Ref Library			

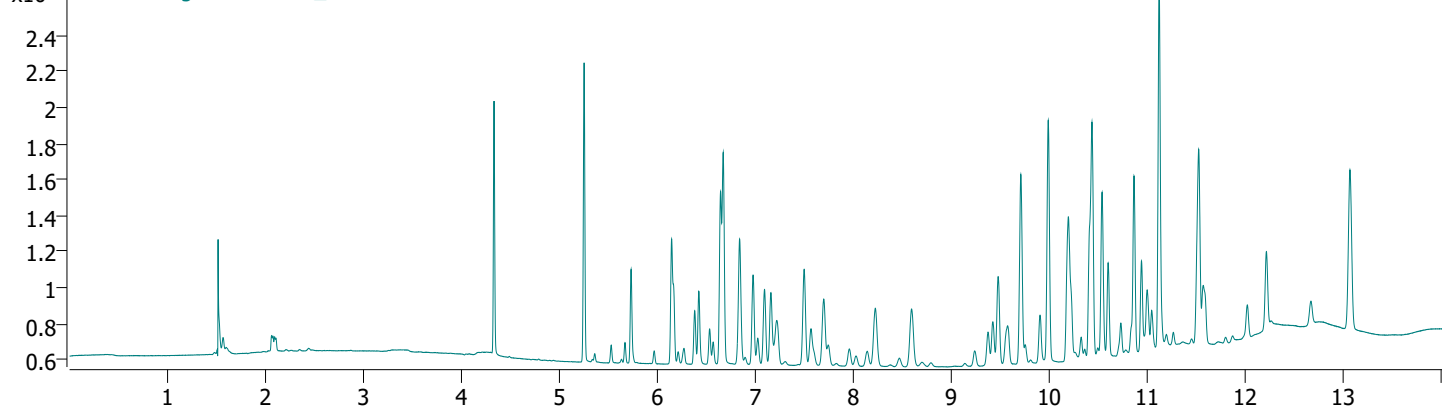
GC06_100523030.D No MS Signals

x10⁷ ECD1 - A:Signal #1 GC06_100523030.D



GC06_100523030.D No MS Signals

x10⁷ ECD2 - B:Signal #2 GC06_100523030.D



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.141	0.0	5358610.859	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.336	0.0	12870863.008	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.930	0.0	7992450.148	27.6387	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 138.19%		
S TCMX (PCB) #2	5.256	0.0	17763846.894	27.8586	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 139.29%		
S Decachlorobiphenyl (PCB)	11.913	0.0	10806032.950	29.1804	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 145.90%		
S Decachlorobiphenyl (PCB) #2	13.078	0.0	20565704.536	25.3522	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 126.76%		

Target Compounds

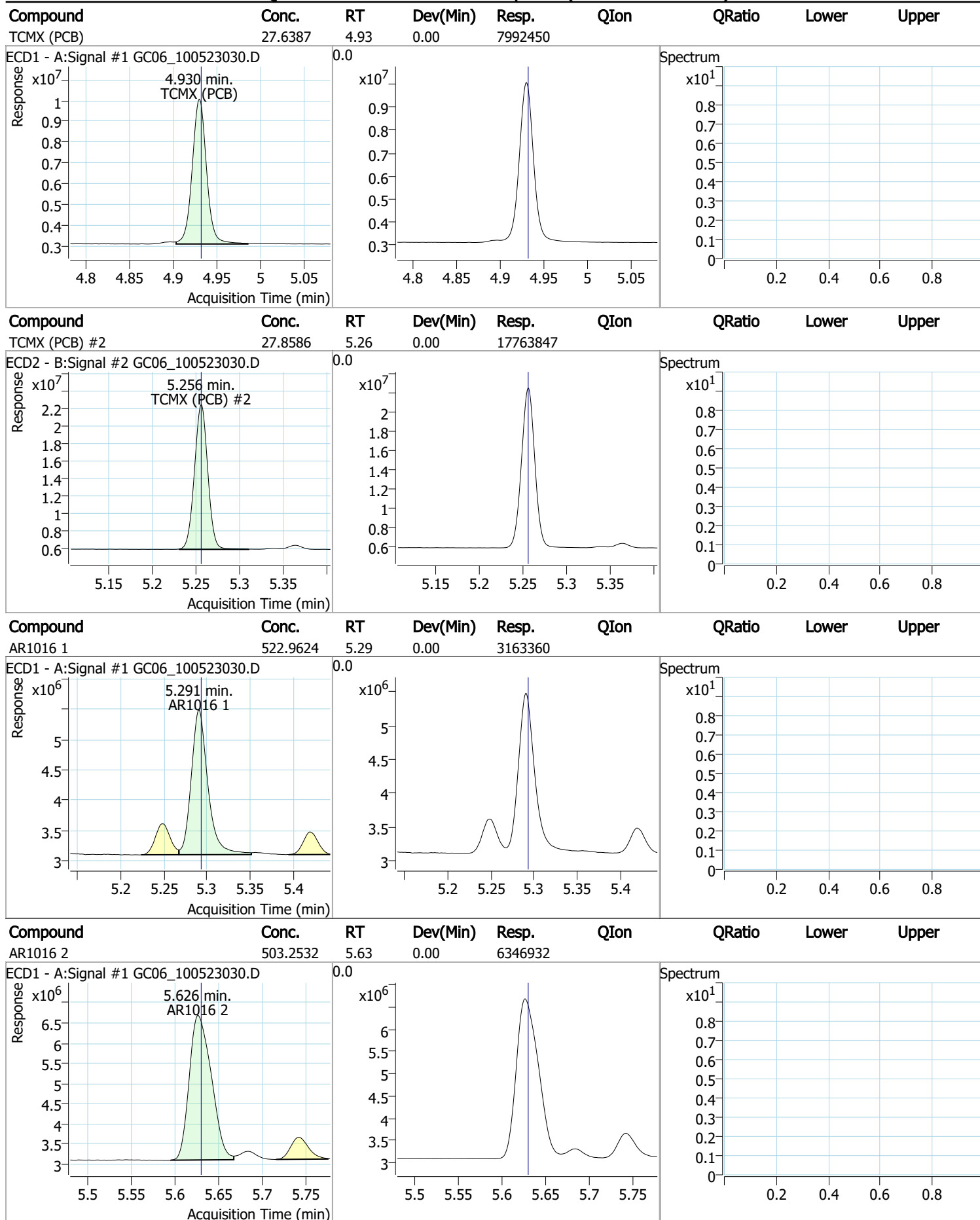
QValue

Quantitation Results Report (Not Reviewed)

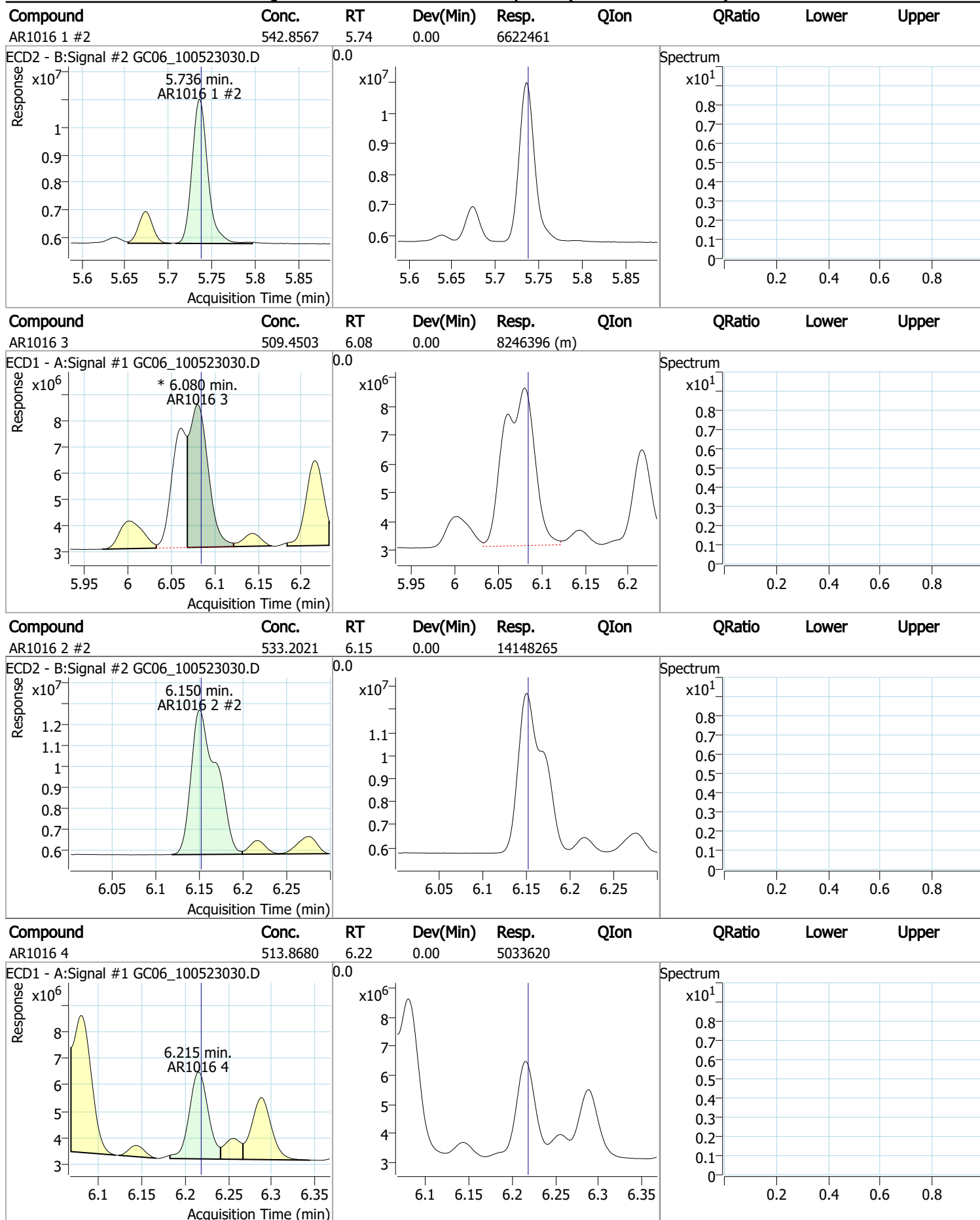
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.291	0.0	3163360.41 4	522.9624	ng/ml	100
T AR1016 2	5.626	0.0	6346931.76 3	503.2532	ng/ml	100
T AR1016 1 #2	5.736	0.0	6622461.40 4	542.8567	ng/ml	100
T AR1016 3	6.080	0.0	8246395.64 1	509.4503	ng/ml m	100
T AR1016 2 #2	6.150	0.0	14148265.2 62	533.2021	ng/ml	100
T AR1016 4	6.215	0.0	5033619.77 2	513.8680	ng/ml	100
T AR1016 5	6.667	0.0	4782344.99 7	478.9622	ng/ml	100
T AR1016 3 #2	6.677	0.0	18777318.5 91	535.8597	ng/ml	100
T AR1016 4 #2	6.844	0.0	12995899.6 28	529.7648	ng/ml	100
T AR1016 5 #2	7.503	0.0	10508280.2 96	524.5894	ng/ml	100
T AR1260 1	8.504	0.0	10130541.4 92	549.4118	ng/ml	100
T AR1260 2	9.014	0.0	15489717.7 19	482.9148	ng/ml	100
T AR1260 3	9.483	0.0	16325883.2 02	499.3356	ng/ml	100
T AR1260 1 #2	9.717	0.0	19869533.2 23	546.4227	ng/ml	100
T AR1260 4	9.987	0.0	7981426.47 8	488.7333	ng/ml	100
T AR1260 2 #2	9.997	0.0	23808926.7 91	544.2317	ng/ml	100
T AR1260 3 #2	10.443	0.0	31579562.9 56	573.4294	ng/ml	100
T AR1260 5	10.703	0.0	13332168.2 15	504.5522	ng/ml	100
T AR1260 4 #2	10.873	0.0	16541086.1 00	516.9064	ng/ml m	100
T AR1260 5 #2	11.533	0.0	23758014.1 55	499.5052	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

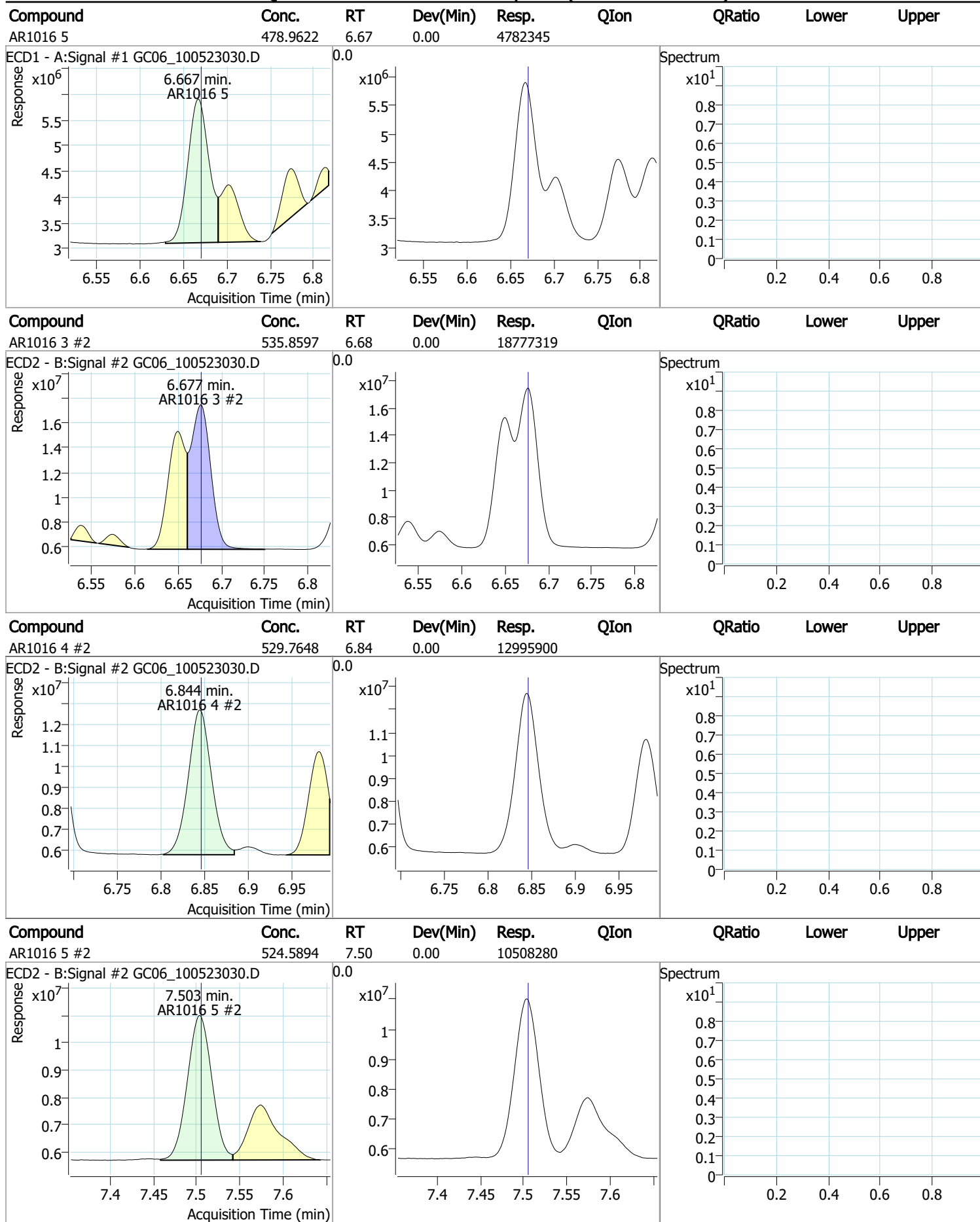
Quantitation Results Report (Not Reviewed)



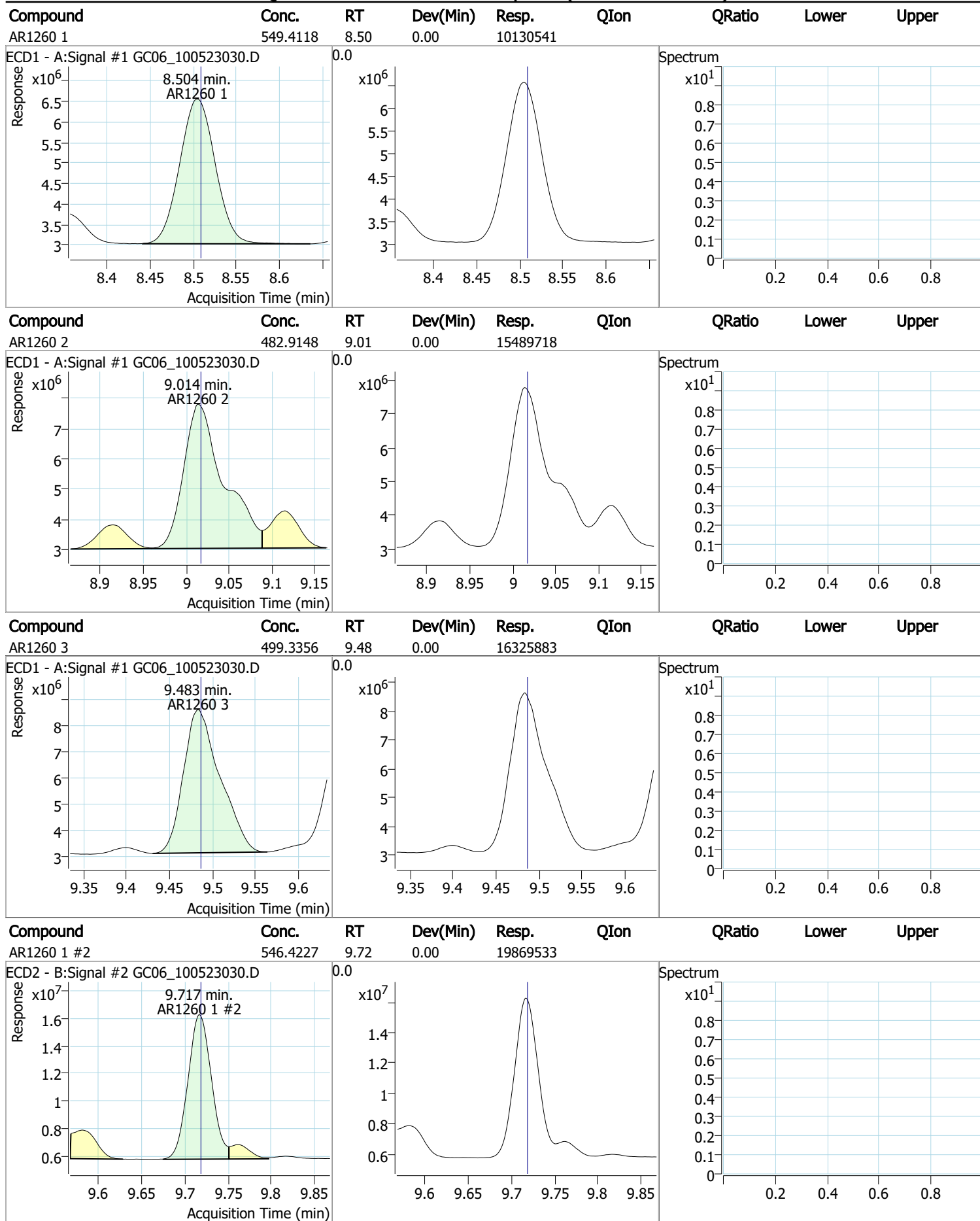
Quantitation Results Report (Not Reviewed)



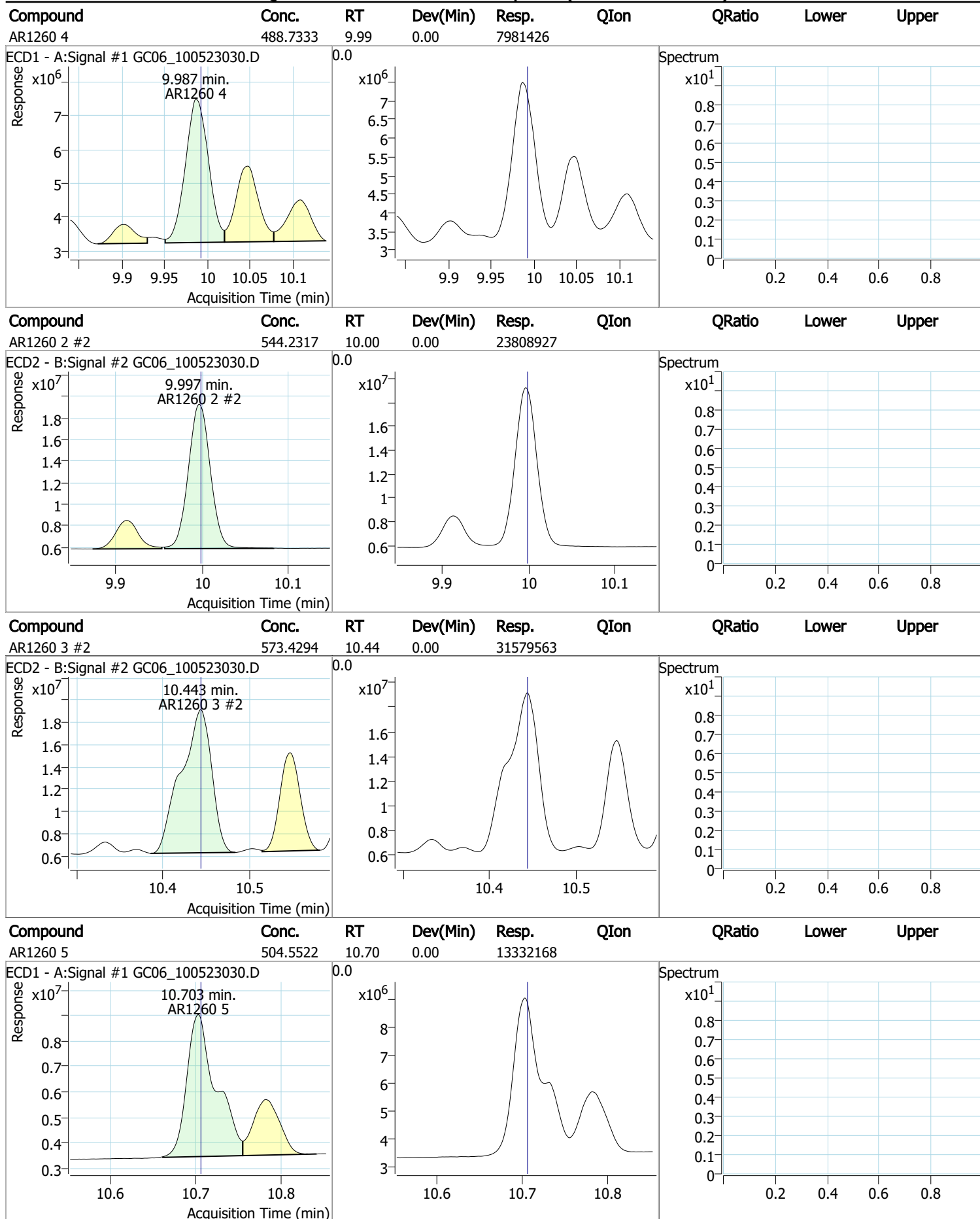
Quantitation Results Report (Not Reviewed)



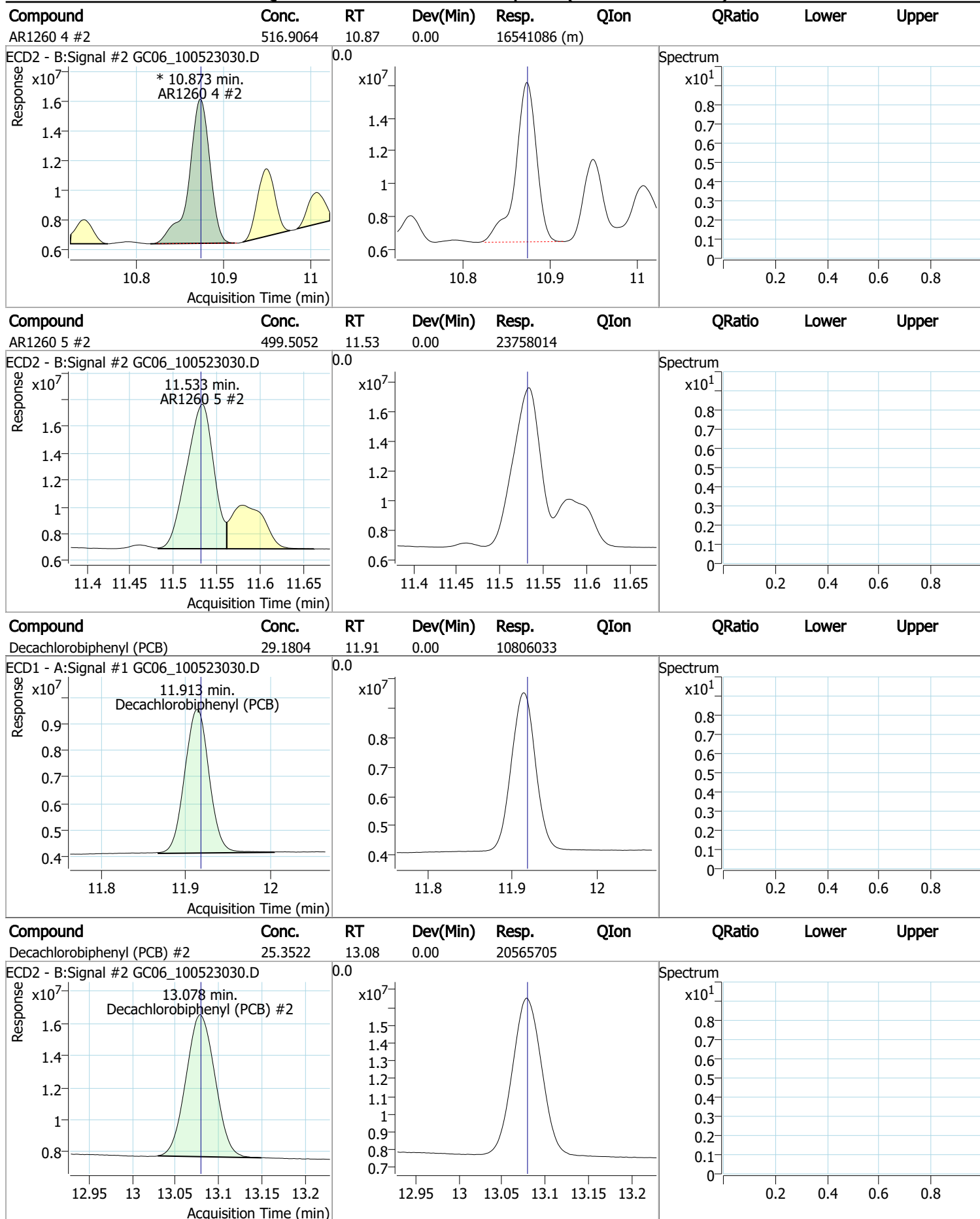
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY CONTINUING CALIBRATION FOR 493300 PCBs Wipe
EPA 8082

Inst: SVOA-GC07	File: gc07_1005230004	IDF: 1.0
Seqnum: 463401066004	Caldate: 08-SEP-2023	Time: 05-OCT-2023 13:01
Cal: 463362148002		

Standards: S19183

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	478.2	ug/L	-4	15	0.0000	
Aroclor-1260	A			500.0	514.0	ug/L	3	15	0.0000	
Decachlorobiphenyl (PCB)	A	0.9589	0.8810	40.00	36.75	pg/uL	-8	15	0.0000	
TCMX (PCB)	A	0.9139	0.8734	40.00	38.23	pg/uL	-4	15	0.0000	
Aroclor-1016	B			500.0	463.8	ug/L	-7	15	0.0000	
Aroclor-1260	B			500.0	544.7	ug/L	9	15	0.0000	
Decachlorobiphenyl (PCB)	B	0.8127	0.9175	40.00	45.16	pg/uL	13	15	0.0000	
TCMX (PCB)	B	1.0448	0.9184	40.00	35.16	pg/uL	-12	15	0.0000	

ISTD (ICAL gc07_0908230035)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6089958	7829274	28.56
1-bromo-2-nitrobenzene (PCB)	A	18203825	18065006	-0.76

10/05/23 : 500 PPB PCB CCV

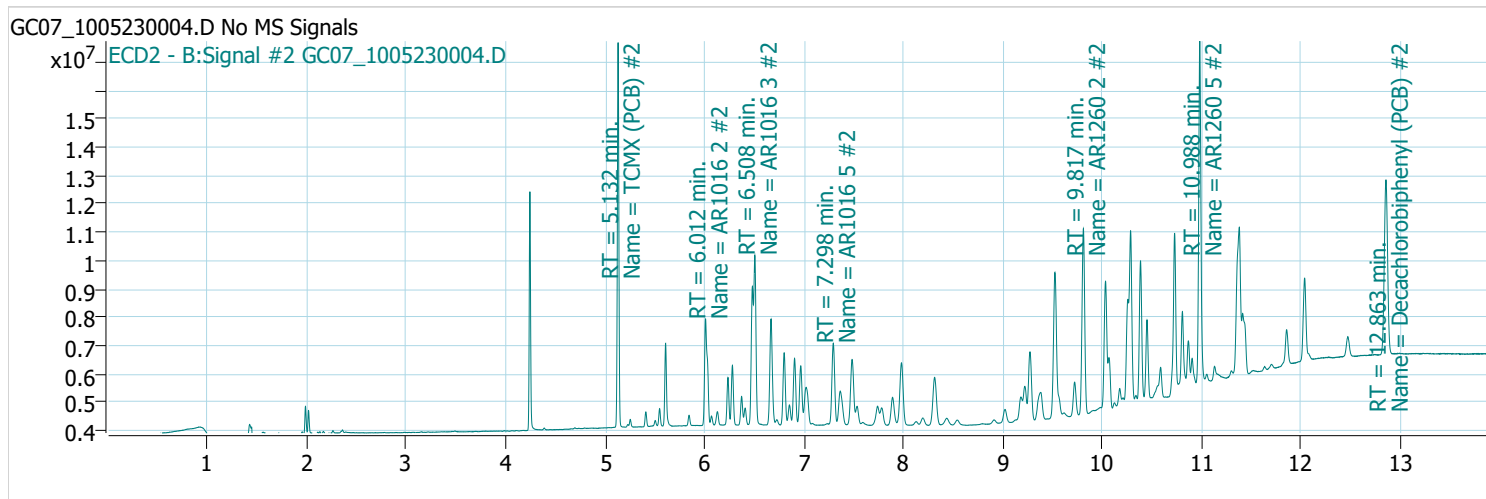
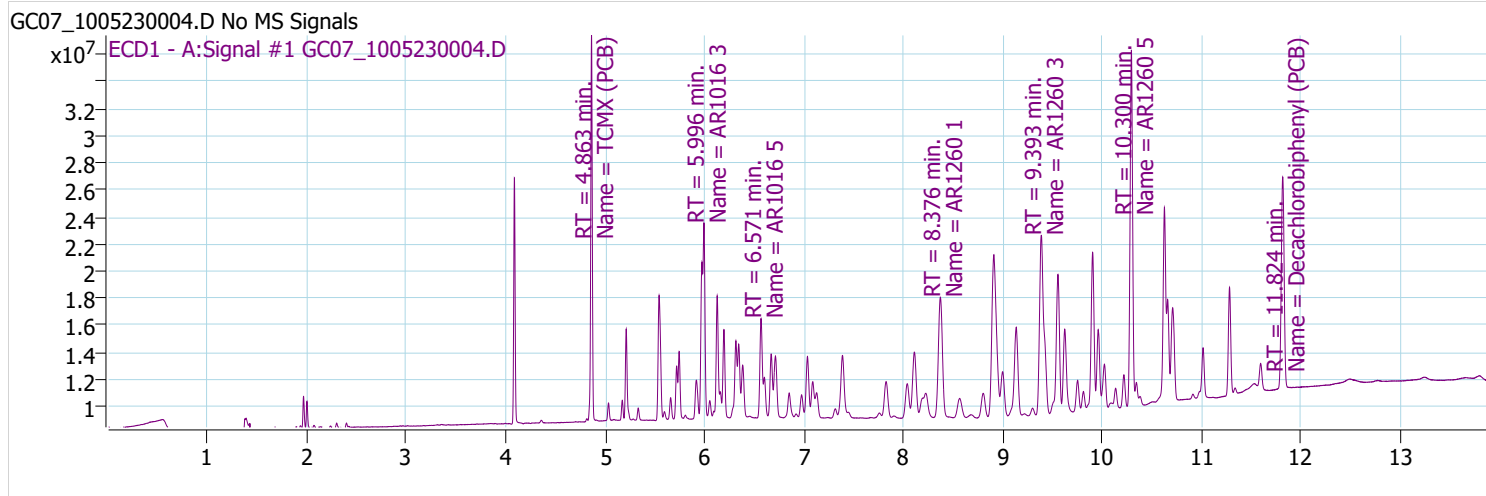
MES 10/06/23 [Aroclor-1016 A]: Separated from coeluting peak for Ch. A.

Analyst: MES 10/06/23

Reviewer: MTS 10/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC07_1005230004.D	Operator	SVOA
Acq. Method	Acq_Pesticide_052623_3	Acq. Date-Time	10/5/2023 1:01:16 PM
Sample Name	CCV, S19183	Instrument	SVOA-GC07
Vial	144	Multiplier	1.00
DA Method File	PCB_608_090823_GC07_16.m	Comment	500 PPB PCB CCV
Tune File	ATUNE.U	Tune Date	
Batch Name	100523PCB.batch.bin	Last Calib Update	9/12/2023 2:18:44 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.087	0.0	18065006.1 85	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.243	0.0	7829273.97 9	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.863	0.0	31557324.7 57	38.2310	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 191.16%	*	
S TCMX (PCB) #2	5.132	0.0	14381514.1 06	35.1621	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 175.81%	*	
S Decachlorobiphenyl (PCB)	11.824	0.0	31830226.4 15	36.7505	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 183.75%	*	
S Decachlorobiphenyl (PCB) #2	12.863	0.0	14366315.4 15	45.1585	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 225.79%	*	

Target Compounds

GC07_1005230004.D

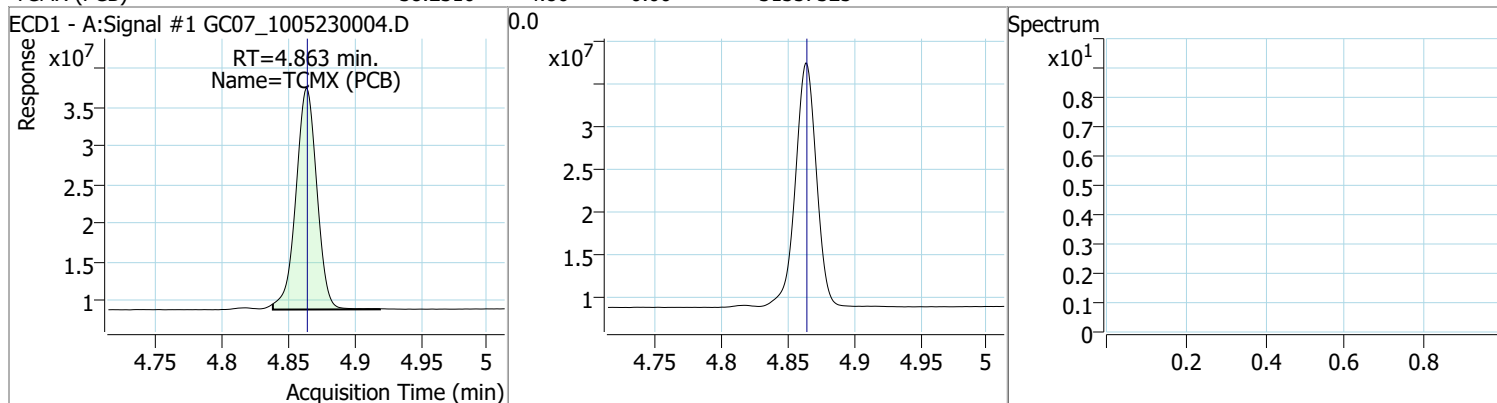
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.213	0.0	8456278.54 1	516.4956	ng/ml	100
T AR1016 2	5.544	0.0	15810011.7 31	442.7024	ng/ml	100
T AR1016 1 #2	5.610	0.0	3603906.38 8	457.2115	ng/ml	100
T AR1016 3	5.996	0.0	19727890.8 08	491.8462	ng/ml m	100
T AR1016 2 #2	6.012	0.0	7453661.44 6	452.5577	ng/ml	100
T AR1016 4	6.129	0.0	12947540.8 81	425.3069	ng/ml	100
T AR1016 3 #2	6.508	0.0	9159279.56 4	457.3389	ng/ml	100
T AR1016 5	6.571	0.0	12320754.2 10	514.8920	ng/ml	100
T AR1016 4 #2	6.672	0.0	6719999.11 9	468.7992	ng/ml	100
T AR1016 5 #2	7.298	0.0	5668542.01 6	483.0498	ng/ml	100
T AR1260 1	8.376	0.0	25564048.3 91	542.5924	ng/ml	100
T AR1260 2	8.916	0.0	38643460.0 79	543.0583	ng/ml	100
T AR1260 3	9.393	0.0	40916989.3 57	481.4316	ng/ml	100
T AR1260 1 #2	9.530	0.0	11991918.7 79	529.2482	ng/ml	100
T AR1260 2 #2	9.817	0.0	12362730.5 41	530.1304	ng/ml	100
T AR1260 4	9.910	0.0	22787145.4 49	483.9349	ng/ml	100
T AR1260 3 #2	10.292	0.0	16057283.1 00	571.3225	ng/ml	100
T AR1260 5	10.300	0.0	47100282.8 22	518.9446	ng/ml	100
T AR1260 4 #2	10.736	0.0	9370778.48 0	515.6319	ng/ml	100
T AR1260 5 #2	10.988	0.0	18778092.1 58	577.0618	ng/ml	100

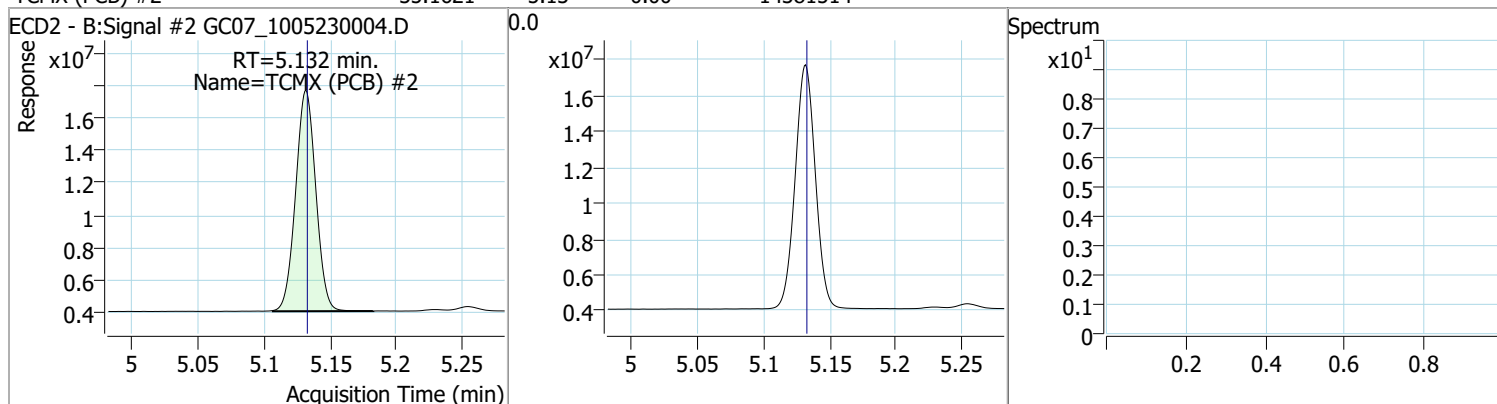
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

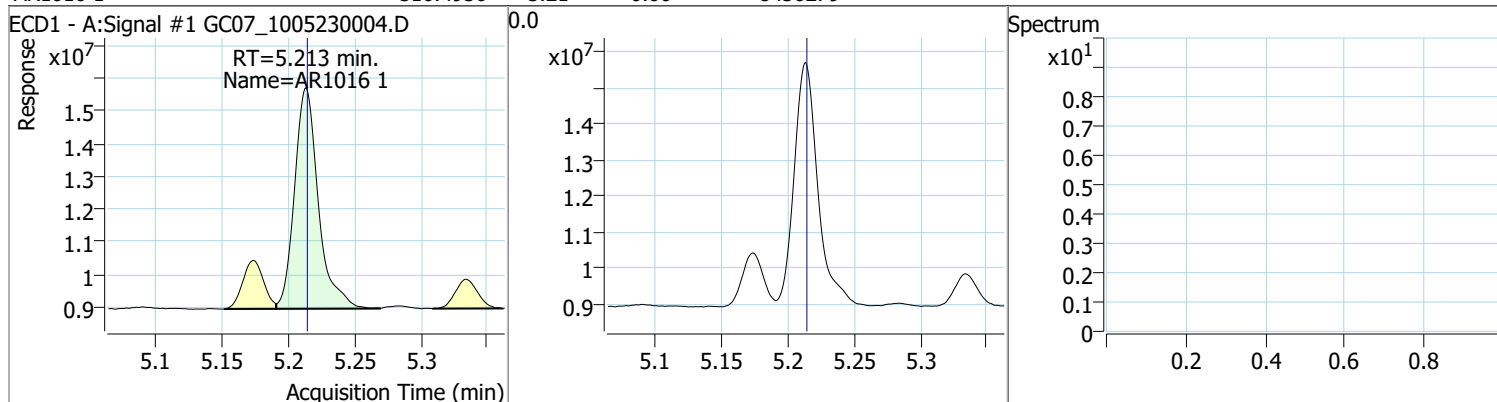
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	38.2310	4.86	0.00	31557325				



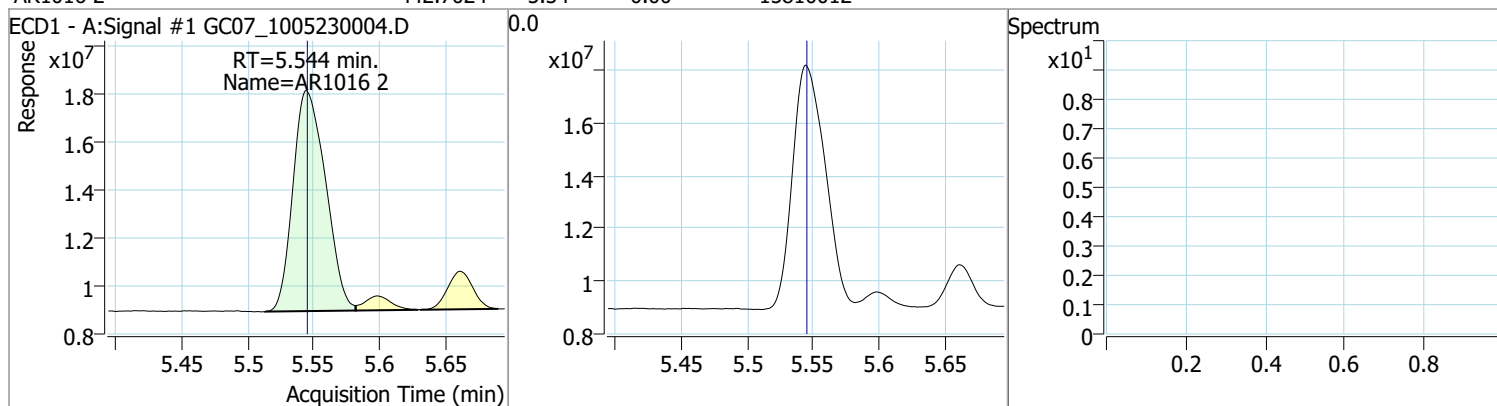
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	35.1621	5.13	0.00	14381514				



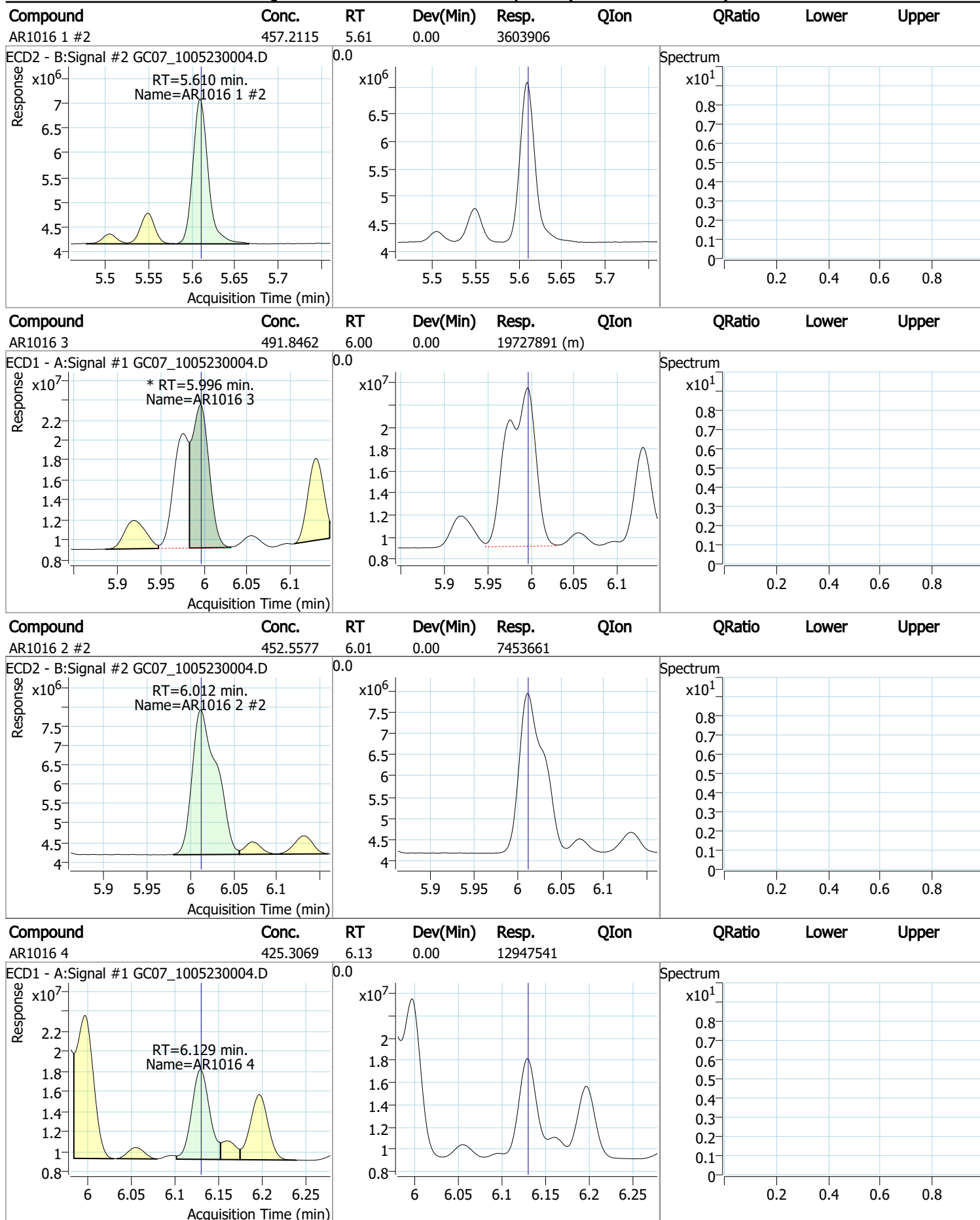
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	516.4956	5.21	0.00	8456279				



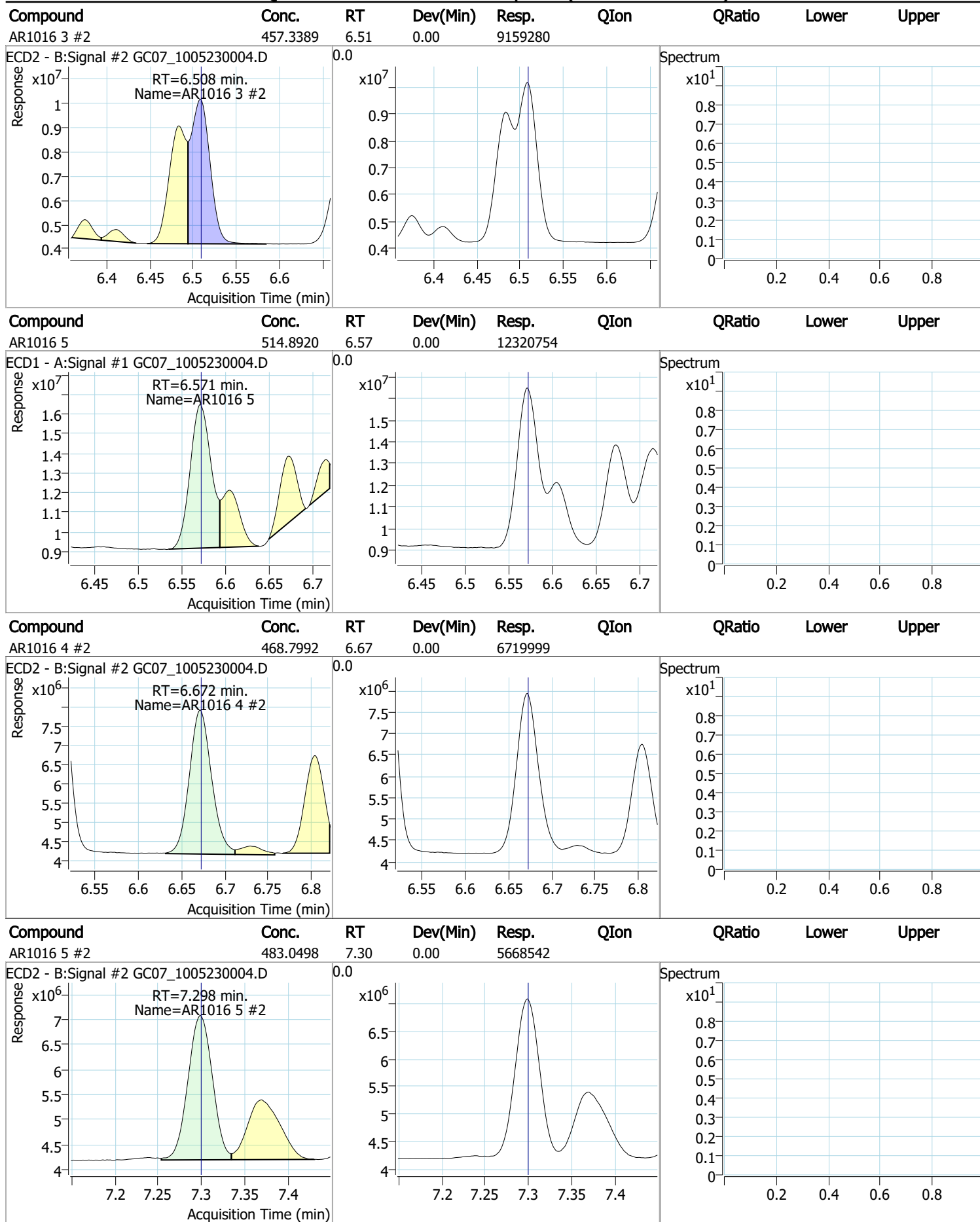
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	442.7024	5.54	0.00	15810012				



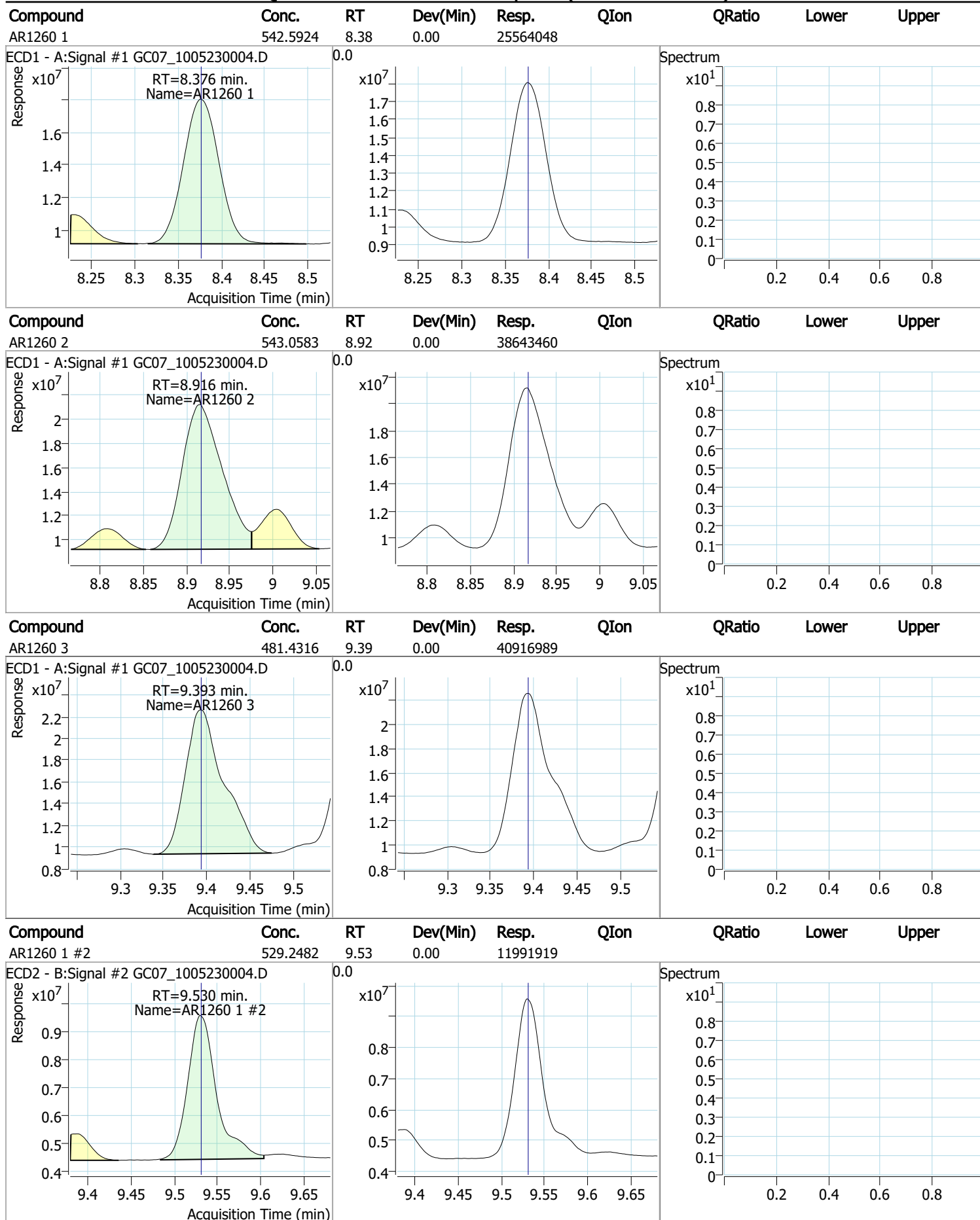
Quantitation Results Report (Not Reviewed)



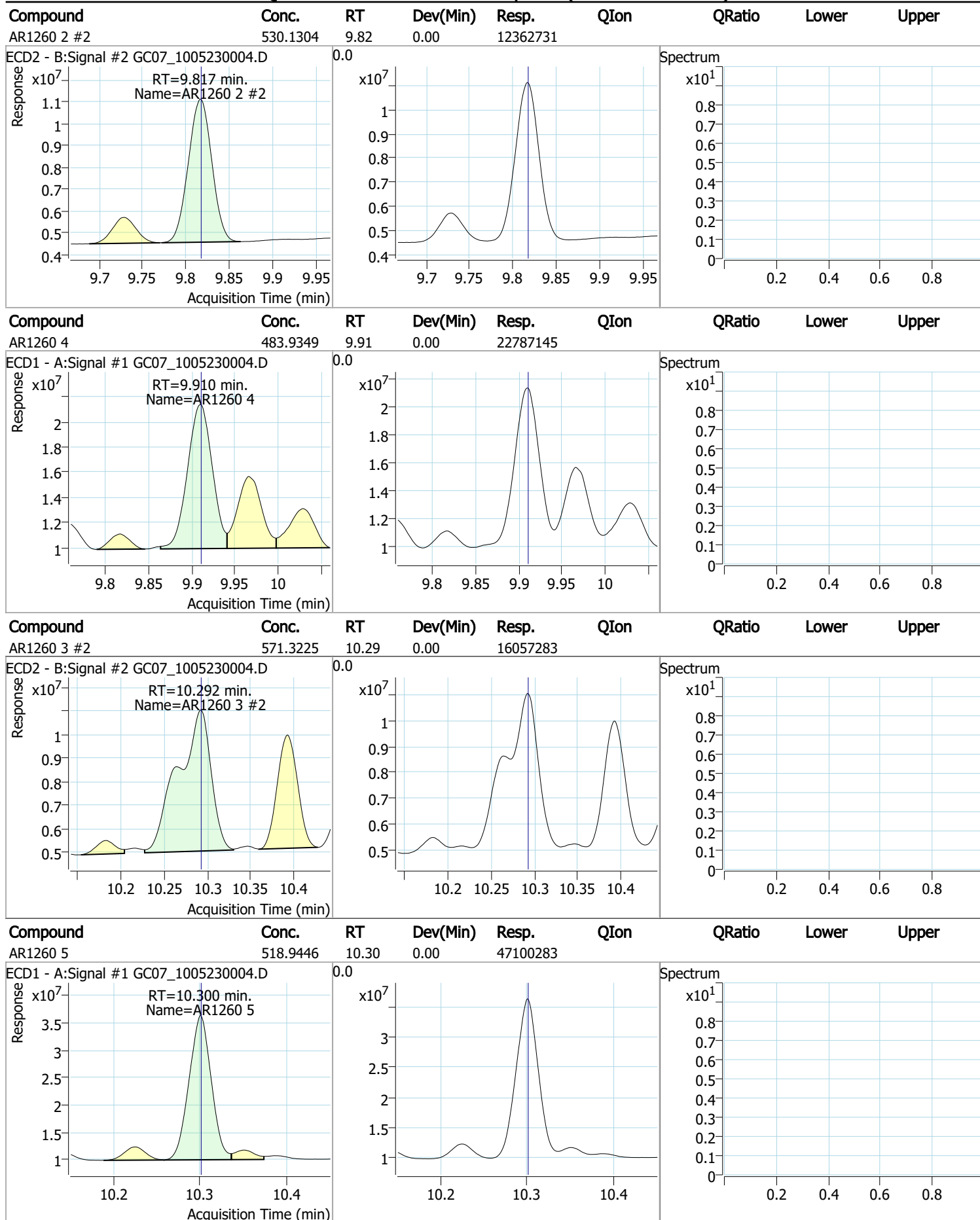
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

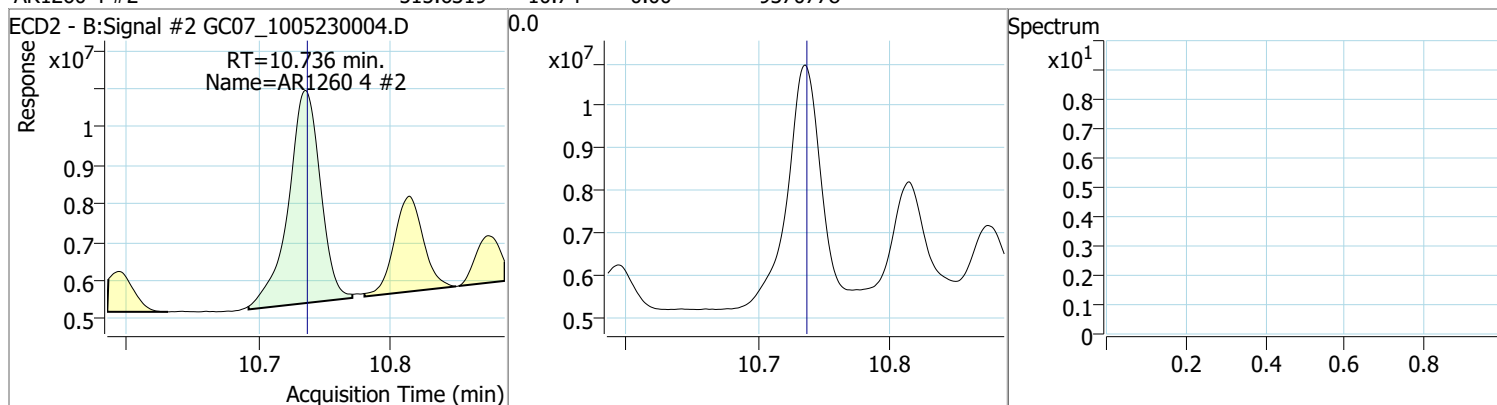


Quantitation Results Report (Not Reviewed)

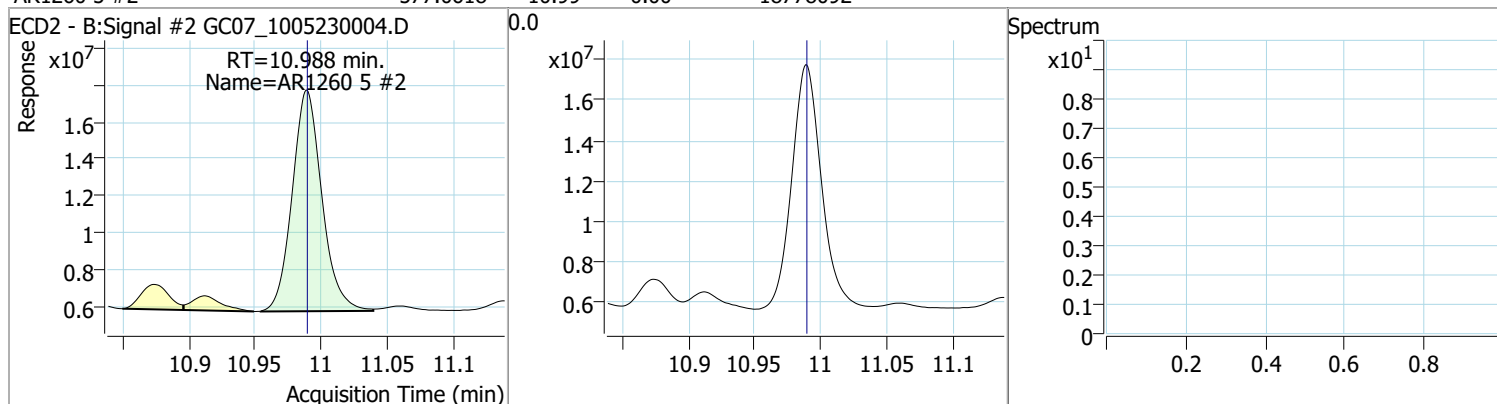


Quantitation Results Report (Not Reviewed)

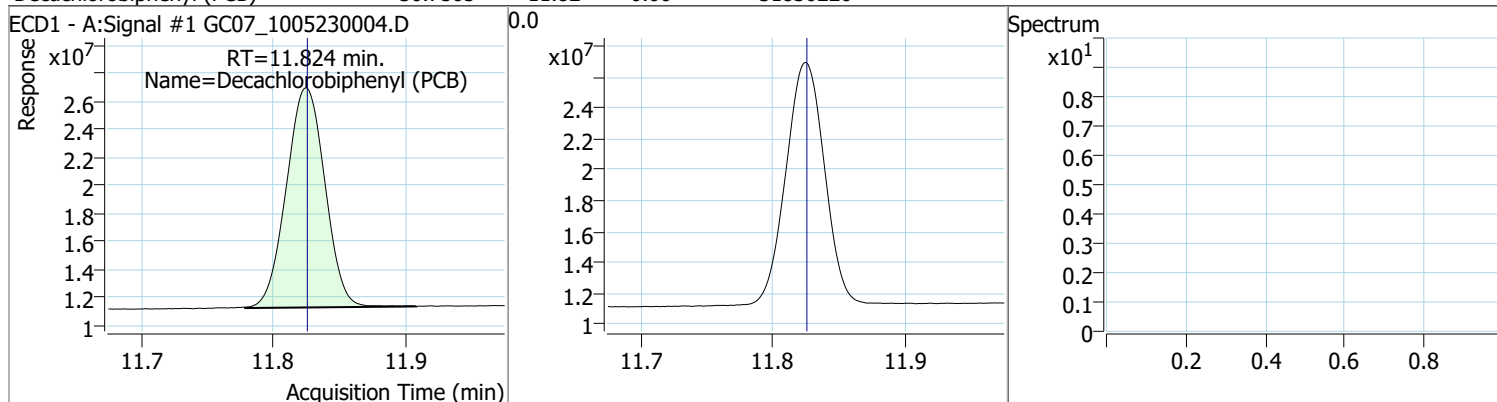
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	515.6319	10.74	0.00	9370778				



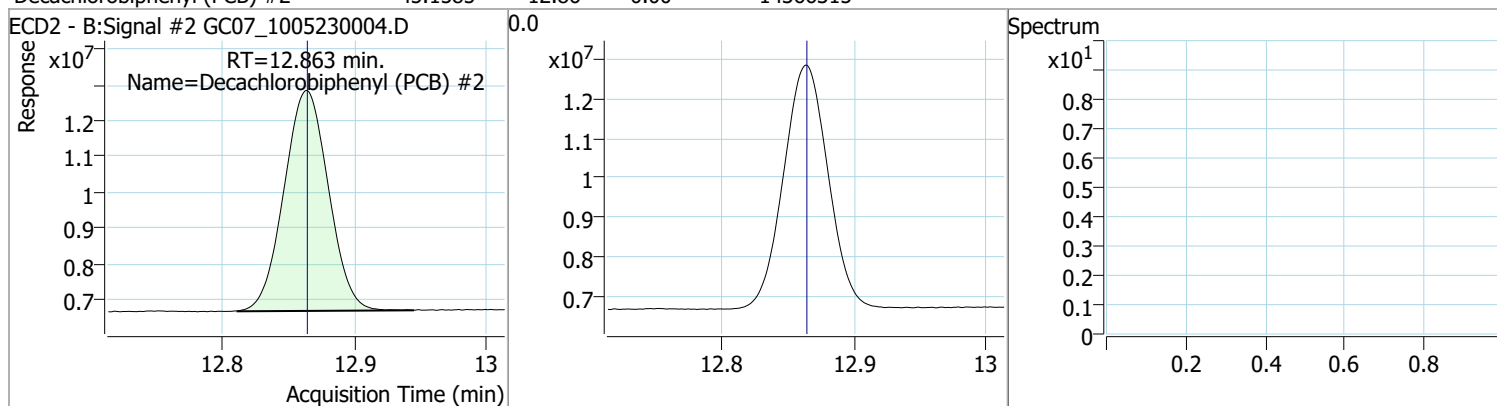
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	577.0618	10.99	0.00	18778092				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	36.7505	11.82	0.00	31830226				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	45.1585	12.86	0.00	14366315				





Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 493300
Report Level: IV
Report Date: 11/14/2023

Metals

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 493300
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 10/03/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C8E-EXT-1 TO 2-231003-L-WF	493300-002	10/03/23 07:40	Wipe
ARCH-C8E-EXT-1 TO 2-231003-L-DUP-WF	493300-003	10/03/23 07:40	Wipe
ARCH-C9E-EXT-1 TO 2-231003-L-WF	493300-006	10/03/23 07:55	Wipe
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-L-LA	493300-009	10/03/23 08:10	Wipe
ARCH-C10E-DG-1.5 TO 2-231003-L-FB	493300-011	10/03/23 08:35	Wipe
ARCH-C10E-DG-1.5 TO 2-231003-L-DUP-FB	493300-012	10/03/23 08:35	Wipe
ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-L-LA	493300-014	10/03/23 08:55	Wipe
ARCH-C11E-INT-1.5 TO 2.5-231003-L-WF	493300-016	10/03/23 09:10	Wipe
ARCH-C8E-PS-2.5-231003-L-G	493300-018	10/03/23 09:45	Wipe
ARCH-C10E-PS-2.5-231003-L-G	493300-020	10/03/23 09:25	Wipe
ARCH-C8E-DG-3 TO 3.5-231003-L-FB	493300-022	10/03/23 10:05	Wipe
ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-L-LA	493300-024	10/03/23 07:45	Wipe

Case Narrative

METALS (EPA 6010B)

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 493300
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 10/03/23

This data package contains sample and QC results for twelve wipe samples, requested for the above referenced project on 10/04/23. See attached cooler receipt form for any sample receipt problems or discrepancies.

Metals (EPA 6010B):

No analytical problems were encountered.

Chain of Custody

493300

Chain of Custody Record		Turn Around Time (rush by advanced notice only)							
COC ID:		Standard:	3 Day:						
Page:	1 of 2	5 Day:	custom TAT:						
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6500		X (PCBs) 1 Day: X (PB) Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other Report: Level IV	Sample Receipt Temp: (lab use only)						
PROJECT INFORMATION Quote #: RIN031721 Proj. Name: Hangar 1 - NCTRA WP Proj. #: 20-10491 P.O. #: 158 Cody Road, Mountain View, CA Address: Global ID: Sampled By: M. Kim & T. Sinnott		Analysis Request Lead by EPA Method 3050M/60108 PCBs - EPA Method 3546/8082 Lead by EPA Method 3050M/60108							
CUSTOMER INFORMATION Company: Rincon Consultants, Inc. Report To: Lindsay Parker Email: lparker@rinconconsultants.com Address: 449 15th Street, Suite 303 Oakland, California 94612 Phone: (651) 890-9556 Fax:		Test Instructions / Comments Confirmation Wipe Samples - Level IV Report/Stage 3 Validation Report PCB concentrations on a µg/100cm ² basis Report lead concentrations on a µg/l ² basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 5 Enclosure A/B (Low Occupancy)							
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3050M/60108	Lead by EPA Method 3546/8082	Company / Title	Date / Time
1 ARCH-C8E-EXT-1 TO 2-231003-P-WF	10/3/2023	0740	WP	1	--	X			
2 ARCH-C8E-EXT-1 TO 2-231003-L-WF	10/3/2023	0740	WP	1	--	X			
3 ARCH-C8E-EXT-1 TO 2-231003-L-DUP-WF	10/3/2023	0740	WP	1	--	X			
4 ARCH-C9E-EXT-1 TO 2-231003-P-WF	10/3/2023	0755	WP	1	--	X			
5 ARCH-C9E-EXT-1 TO 2-231003-P-DUP-WF	10/3/2023	0755	WP	1	--	X			
6 ARCH-C9E-EXT-1 TO 2-231003-L-WF	10/3/2023	0755	WP	1	--	X			
7 ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-LA	10/3/2023	0810	WP	1	--	X			
8 ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-DUP-LA	10/3/2023	0810	WP	1	--	X			
9 ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-L-LA	10/3/2023	0810	WP	1	--	X			
10 ARCH-C10E-DG-1.5 TO 2-231003-P-FB	10/3/2023	0835	WP	1	--	X			
11 ARCH-C10E-DG-1.5 TO 2-231003-L-FB	10/3/2023	0835	WP	1	--	X			
12 ARCH-C10E-DG-1.5 TO 2-231003-L-DUP-FB	10/3/2023	0835	WP	1	--	X			
13 ARCH-C9E-DG-2 TO 2-5-UP-C9.1-HM-231003-P-LA	10/3/2023	0855	WP	1	--	X			
14 ARCH-C9E-DG-2 TO 2-5-UP-C9.1-HM-231003-L-LA	10/3/2023	0855	WP	1	--	X			
15 ARCH-C11E-INT-1.5 TO 2-5-231003-P-WF	10/3/2023	0910	WP	1	--	X			
Relinquished By: T. Sinnott Received By: Lindsay Parker Relinquished By: Lindsay Parker Received By: Lindsay Parker Relinquished By: Lindsay Parker Received By: Lindsay Parker		Print Name Tyler Sinnott Lindsay Parker Lindsay Parker Lindsay Parker Lindsay Parker							
Signature T. Sinnott Lindsay Parker Lindsay Parker Lindsay Parker Lindsay Parker		Company / Title Rincon / Env. Scientist Rincon / Env. Scientist Rincon / Env. Scientist Rincon / Env. Scientist Rincon / Env. Scientist							
Date / Time 10/3/23 / 1400 10/3/23 / 1400 10/3/23 / 1615 10/3/23 / 1615 10/3/23 / 1615 10/3/23 / 1615		Date / Time 10/3/23 / 1400 10/3/23 / 1400 10/3/23 / 1615 10/3/23 / 1615 10/3/23 / 1615 10/3/23 / 1615							

2x Rive + Type 2 = 0.020062

2x Rive + Type 2 = 0.020062

493300

Chain of Custody Record				Turn Around Time (rush by advanced notice only)			
Page: 2 of 2		COC ID: 2		Standard: X (PCBs)		3 Day: custom TAT	
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92658 Phone 714-771-6900				Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other			
CUSTOMER INFORMATION Company: Rincon Consultants, Inc. Report To: Lindsay Parker Email: lparker@rinconconsultants.com Address: 449 15th Street, Suite 303 Oakland, California 94612 Phone: (651) 890-9556 Fax:				PROJECT INFORMATION Quote #: RIN031721 Proj. Name: Hanger 1 - NCTRA WP Proj. #: 20-10491 P.O. #: 158 Cody Road, Mountain View, CA Address: M. Kim & T. Sanoott Global ID: Sampled By:			
ANALYSIS REQUEST Analysis Request: PCBs - EPA Method 3546/8082 Lead by EPA Method 3050M/6010B Report PCB concentrations on a µg/100cm2 basis Report lead concentrations on a µg/ft2 basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 5 Enclosure A/B (Low Occupancy)				Test Instructions / Comments Confirmation Wipe Samples - Level IV Report/Stage 3 Validation Report PCB concentrations on a µg/100cm2 basis Report lead concentrations on a µg/ft2 basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 5 Enclosure A/B (Low Occupancy)			
SAMPLE ID 16 ARCH-C11B-INT-1.5 TO 2.5-231003-L-WF 17 ARCH-C8E-PS-2.5-231003-P-G 18 ARCH-C8E-PS-2.5-231003-L-G 19 ARCH-C10E-PS-2.5-231003-P-G 20 ARCH-C10E-PS-2.5-231003-L-G 21 ARCH-C8E-DG-3 TO 3.5-231003-P-FB 22 ARCH-C8E-DG-3 TO 3.5-231003-L-FB 23 ARCH-C9E-DG-3 TO 3.5-UP-C9-2-DG-231003-P-LA 24 ARCH-C9E-DG-3 TO 3.5-UP-C9-2-DG-231003-L-LA 25 26 27 28 29 30				SAMPLING TIME Date: 10/3/2023 Time: 0910 Matrix: WP Container No. / Size: 1 Pres.: -- Date: 10/3/2023 Time: 0945 Matrix: WP Container No. / Size: 1 Pres.: -- Date: 10/3/2023 Time: 0945 Matrix: WP Container No. / Size: 1 Pres.: -- Date: 10/3/2023 Time: 0925 Matrix: WP Container No. / Size: 1 Pres.: -- Date: 10/3/2023 Time: 0925 Matrix: WP Container No. / Size: 1 Pres.: -- Date: 10/3/2023 Time: 1005 Matrix: WP Container No. / Size: 1 Pres.: -- Date: 10/3/2023 Time: 1005 Matrix: WP Container No. / Size: 1 Pres.: -- Date: 10/3/2023 Time: 0945 Matrix: WP Container No. / Size: 1 Pres.: -- Date: 10/3/2023 Time: 0945 Matrix: WP Container No. / Size: 1 Pres.: --			
RELINQUISHED BY: Signature: <i>TK Smith</i> Printed Name: Tyler Sanoott Date / Time: 10/3/23 / 1400				COMPANY / TITLE: Rincon / Env. Services ENTHALPY Date / Time: 10/3/23 / 14:02			
RECEIVED BY: Signature: <i>Lindsay Parker</i> Printed Name: Lindsay Parker Date / Time: 10/3/23 / 16:15				RECEIVED BY: Signature: <i>M. Kim</i> Printed Name: M. Kim Date / Time: 10/3/23 / 16:15			

MK
 6x Rivet Type 1 = 0.6-842 1.08284
 3x Rivet Type 1 = 0.110 442
 4x Rivet Type 2 = 0.0400 642

ea
ENTHALPY

7 of 124

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berekely, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants

Project: Hangar 1 NTCRA

Date Received: 10/4/23

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C)
(No Cooler):

Sample Temp (°C), One from each cooler: #1: 5.2 #2: #3: #4:
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information:

Section 3

Was the cooler packed with:

☒ Ice

☐ Ice Packs

☐ Bubble Wrap

☐ Styrofoam

☐ Paper

☐ None

☐ Other

Cooler Temp (°C):

#1:

4.2

#2:

#3:

#4:

Section 4

Was a COC received?

YES

NO

N/A

Are sample IDs present?

Are sampling dates & times present?

Is a relinquished signature present?

Are the tests required clearly indicated on the COC?

Are custody seals present?

If custody seals are present, were they intact?

Are all samples sealed in plastic bags? (Recommended for Microbiology samples)

Did all samples arrive intact? If no, indicate in Section 4 below.

Did all bottle labels agree with COC? (ID, dates and times)

Were the samples collected in the correct containers for the required tests?

Are the containers labeled with the correct preservatives?

Is there headspace in the VOA vials greater than 5-6 mm in diameter?

Was a sufficient amount of sample submitted for the requested tests?

Section 5 Explanations/Comments

493300

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: Date/Time

☐ Email

(email sent to/on):

Project Manager's response:

Completed By:

Date:

OCT 04 2023

Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal
Sample Acceptance Checklist - Rev 4, 8/8/2017

SOUTHWEST AIRLINES

Printed on:
03 OCT 19:50

526 OAK 9402 7592 

SNA		PC# 2 of 8	DG G	LOT WT 350 LB (158.7 KG)
OAK	WN 2648	04 OCT	07:25	
STN	FLT	DATE	ETD	LOT 01



PC ID: 0002
PC WT: 44LB

526 94027592 0002

S

4-2/5-2

Results & QC Summary

Lead

Lab #: 493300		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C8E-EXT-1 TO 2-231003-L-WF	Batch#: 323756	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 6010B	
Lab ID: 493300-002	Received: 10/03/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/04/23		
Diln Fac: 1.000	Analyzed: 10/04/23		
493300-002 Analyte		Result	RL Units
Lead		11	0.50 ug/ft2
Field ID: ARCH-C8E-EXT-1 TO 2-231003-L-DUP-WF	Batch#: 323756	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 6010B	
Lab ID: 493300-003	Received: 10/03/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/04/23		
Diln Fac: 1.000	Analyzed: 10/04/23		
493300-003 Analyte		Result	RL Units
Lead		14	0.50 ug/ft2
Field ID: ARCH-C9E-EXT-1 TO 2-231003-L-WF	Batch#: 323756	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 6010B	
Lab ID: 493300-006	Received: 10/03/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/04/23		
Diln Fac: 1.000	Analyzed: 10/04/23		
493300-006 Analyte		Result	RL Units
Lead		13	0.50 ug/ft2
Field ID: ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-L-LA	Batch#: 323756	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 6010B	
Lab ID: 493300-009	Received: 10/03/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/04/23		
Diln Fac: 1.000	Analyzed: 10/04/23		
493300-009 Analyte		Result	RL Units
Lead		170	0.50 ug/ft2
Field ID: ARCH-C10E-DG-1.5 TO 2-231003-L-FB	Batch#: 323756	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 6010B	
Lab ID: 493300-011	Received: 10/03/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/04/23		
Diln Fac: 1.000	Analyzed: 10/04/23		
493300-011 Analyte		Result	RL Units
Lead		70	0.50 ug/ft2

Lead

Lab #: 493300		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C10E-DG-1.5 TO 2-231003-L-DUP-FB	Batch#: 323756	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 6010B	
Lab ID: 493300-012	Received: 10/03/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/04/23		
Diln Fac: 1.000	Analyzed: 10/04/23		
493300-012 Analyte		Result	RL Units
Lead		130	0.50 ug/ft2
Field ID: ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-L-LA		Batch#: 323757	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493300-014		Received: 10/03/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/04/23	
Diln Fac: 1.000		Analyzed: 10/05/23	
493300-014 Analyte		Result	RL Units
Lead		93	0.50 ug/ft2
Field ID: ARCH-C11E-INT-1.5 TO 2.5-231003-L-WF		Batch#: 323757	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493300-016		Received: 10/03/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/04/23	
Diln Fac: 1.000		Analyzed: 10/05/23	
493300-016 Analyte		Result	RL Units
Lead		110	0.50 ug/ft2
Field ID: ARCH-C8E-PS-2.5-231003-L-G		Batch#: 323757	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493300-018		Received: 10/03/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/04/23	
Diln Fac: 1.000		Analyzed: 10/05/23	
493300-018 Analyte		Result	RL Units
Lead		110	0.50 ug/ft2
Field ID: ARCH-C10E-PS-2.5-231003-L-G		Batch#: 323756	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493300-020		Received: 10/03/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/04/23	
Diln Fac: 1.000		Analyzed: 10/04/23	
493300-020 Analyte		Result	RL Units
Lead		190	0.50 ug/ft2

Lead

Lab #: 493300	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8E-DG-3 TO 3.5-231003-L-FB	Batch#: 323756	Prep: EPA 3050B
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493300-022	Received: 10/03/23	Analyst: SBW
Matrix: Wipe	Prepared: 10/04/23	
Diln Fac: 1.000	Analyzed: 10/04/23	

493300-022 Analyte	Result	RL	Units
Lead	100	0.50	ug/ft2

Field ID: ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-L-LA	Batch#: 323756	Prep: EPA 3050B
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493300-024	Received: 10/03/23	Analyst: SBW
Matrix: Wipe	Prepared: 10/04/23	
Diln Fac: 1.000	Analyzed: 10/04/23	

493300-024 Analyte	Result	RL	Units
Lead	52	0.50	ug/ft2

Type: BLANK	Batch#: 323756	Analysis: EPA 6010B
Lab ID: QC1097962	Prepared: 10/04/23	Analyst: SBW
Matrix: Wipe	Analyzed: 10/04/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1097962 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK	Batch#: 323757	Analysis: EPA 6010B
Lab ID: QC1097965	Prepared: 10/04/23	Analyst: SBW
Matrix: Wipe	Analyzed: 10/05/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1097965 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend
 ND: Not Detected
 RL: Reporting Limit

Lead: Batch QC

Lab #: 493300

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 323756

Analysis: EPA 6010B

Lab ID: QC1097963

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/04/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097963 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	49.65	99	80-120	ug/ft2

Type: BS

Batch#: 323757

Analysis: EPA 6010B

Lab ID: QC1097966

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097966 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	49.19	98	80-120	ug/ft2

Type: BSD

Batch#: 323756

Analysis: EPA 6010B

Lab ID: QC1097964

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/04/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097964 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	49.62	99	80-120	ug/ft2	0	20

Type: BSD

Batch#: 323757

Analysis: EPA 6010B

Lab ID: QC1097967

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097967 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	49.02	98	80-120	ug/ft2	0	20

Legend

RPD: Relative Percent Difference

REPORTING SUMMARY FOR 493300 METALS Wipe
Enthalpy Analytical - Orange

Lab ID	Inst ID	Analyzed	IDF	P B
493300-002	MET06	10/04/23 22:45	1.0	✓
493300-003	MET06	10/04/23 22:48	1.0	✓
493300-006	MET06	10/04/23 22:51	1.0	✓
493300-009	MET06	10/04/23 22:55	1.0	✓
493300-011	MET06	10/04/23 22:58	1.0	✓
493300-012	MET06	10/04/23 23:01	1.0	✓
493300-014	MET06	10/05/23 00:12	1.0	✓
493300-016	MET06	10/05/23 00:16	1.0	✓
493300-018	MET06	10/05/23 00:19	1.0	✓
493300-020	MET06	10/04/23 23:04	1.0	✓
493300-022	MET06	10/04/23 23:14	1.0	✓
493300-024	MET06	10/04/23 23:17	1.0	✓
QC1097962	MET06	10/04/23 22:35	1.0	✓
QC1097963	MET06	10/04/23 22:38	1.0	✓
QC1097964	MET06	10/04/23 22:42	1.0	✓
QC1097965	MET06	10/05/23 00:03	1.0	✓
QC1097966	MET06	10/05/23 00:06	1.0	✓
QC1097967	MET06	10/05/23 00:09	1.0	✓

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
001	met06_master011	ICALBLK	CALBLANK			10/04/23 08:17	1.0	1	
002	met06_master011	ICAL	L1			10/04/23 08:20	1.0	2 1	
003	met06_master011	ICAL	L2			10/04/23 08:23	1.0	3 1	
004	met06_master011	ICAL	L3			10/04/23 08:27	1.0	4 1	
005	met06_master011	ICAL	L4			10/04/23 08:30	1.0	5 1	
006	met06_master011	ICAL	L5			10/04/23 08:33	1.0	6 1	
007	met06_master011	ICAL	L6			10/04/23 08:36	1.0	7 1	
008	met06_master011	ICAL	L7			10/04/23 08:40	1.0	8 1	
009	met06_master011	ICAL	L8			10/04/23 08:43	1.0	9 1	
010	met06_master011	ICV				10/04/23 08:46	1.0	10 1	
011	met06_master011	CRI				10/04/23 08:50	1.0	11 1	
012	met06_master011	ICB				10/04/23 08:53	1.0	1	
013	met06_master011	ICSA				10/04/23 08:56	1.0	12 1	6:MGASMGCO3=1300
014	met06_master011	ICSAB				10/04/23 08:59	1.0	13 1	6:MGASMGCO3=1300
015	met06_master011	LCS	QC1097646	TCLP Leachate	323657	10/04/23 09:03	1.0	1	
016	met06_master011	SAMPLE	493199-005	Soil	323641	10/04/23 09:06	1.0	1	2:FE=150
017	met06_master011	BLANK	QC1097585	Soil	323642	10/04/23 09:10	1.0	1	
018	met06_master011	LCS	QC1097586	Soil	323642	10/04/23 09:13	1.0	1	
019	met06_master011	MSS	493198-001	Miscell.	323642	10/04/23 09:16	1.0	1	5:ALASAL2O3=210
020	met06_master011	MS	QC1097587	Miscell.	323642	10/04/23 09:19	1.0	1	5:ALASAL2O3=240
021	met06_master011	MSD	QC1097588	Miscell.	323642	10/04/23 09:23	1.0	1	5:ALASAL2O3=240
022	met06_master011	PDS	QC1097589	Miscell.	323642	10/04/23 09:26	1.0	1	5:ALASAL2O3=210
023	met06_master011	SAMPLE	493198-002	Miscell.	323642	10/04/23 09:29	1.0	1	3:FE=140
024	met06_master011	SAMPLE	493198-003	Miscell.	323642	10/04/23 09:32	1.0	1	3:FE=140
025	met06_master011	CCV				10/04/23 09:36	1.0	10 1	
026	met06_master011	CCB				10/04/23 09:39	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
027	met06_master011	SAMPLE	493198-011	Soil	323642	10/04/23 09:42	1.0	1	3:FE=150
028	met06_master011	SAMPLE	493198-012	Soil	323642	10/04/23 09:45	1.0	1	3:FE=140
029	met06_master011	BLANK	QC1097805	Miscell.	323706	10/04/23 09:49	1.0	1	
030	met06_master011	LCS	QC1097806	Miscell.	323706	10/04/23 09:52	1.0	1	
031	met06_master011	MSS	493044-002	Miscell.	323706	10/04/23 09:55	1.0	1	
032	met06_master011	MS	QC1097807	Miscell.	323706	10/04/23 09:58	1.0	1	
033	met06_master011	MSD	QC1097808	Miscell.	323706	10/04/23 10:02	1.0	1	
034	met06_master011	PDS	QC1097809	Miscell.	323706	10/04/23 10:05	1.0	1	
035	met06_master011	SAMPLE	493044-004	Miscell.	323706	10/04/23 10:08	1.0	1	
036	met06_master011	SAMPLE	493044-006	Miscell.	323706	10/04/23 10:11	1.0	1	
037	met06_master011	CCV				10/04/23 10:14	1.0	10 1	
038	met06_master011	CCB				10/04/23 10:18	1.0	1	
039	met06_master011	SAMPLE	493044-008	Miscell.	323706	10/04/23 10:21	1.0	1	
040	met06_master011	SAMPLE	493044-010	Miscell.	323706	10/04/23 10:24	1.0	1	
041	met06_master011	SAMPLE	493044-012	Miscell.	323706	10/04/23 10:27	1.0	1	
042	met06_master011	SAMPLE	493044-014	Miscell.	323706	10/04/23 10:31	1.0	1	
043	met06_master011	SAMPLE	493044-016	Miscell.	323706	10/04/23 10:34	1.0	1	
044	met06_master011	SAMPLE	493044-018	Miscell.	323706	10/04/23 10:37	1.0	1	
045	met06_master011	SAMPLE	493044-020	Miscell.	323706	10/04/23 10:40	1.0	1	
046	met06_master011	SAMPLE	493044-022	Miscell.	323706	10/04/23 10:44	1.0	1	
047	met06_master011	SAMPLE	493044-024	Miscell.	323706	10/04/23 10:47	1.0	1	
048	met06_master011	SAMPLE	493044-026	Miscell.	323706	10/04/23 10:50	1.0	1	1:FE=21
049	met06_master011	CCV				10/04/23 10:53	1.0	10 1	
050	met06_master011	CCB				10/04/23 10:57	1.0	1	
051	met06_master011	SAMPLE	493044-028	Miscell.	323706	10/04/23 11:00	1.0	1	
052	met06_master011	SAMPLE	493044-030	Miscell.	323706	10/04/23 11:03	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met06_master011	SAMPLE	493044-032	Miscell.	323706	10/04/23 11:07	1.0	1	
054	met06_master011	UNKNOWN	4			10/04/23 11:10	1.0	1	
055	met06_master011	UNKNOWN	5			10/04/23 11:14	1.0	1	
056	met06_master011	CCV				10/04/23 11:17	1.0	10 1	
057	met06_master011	CCB				10/04/23 11:20	1.0	1	
058	met06_master011	BLANK	QC1097849	Soil	323723	10/04/23 11:23	1.0	1	
059	met06_master011	LCS	QC1097850	Soil	323723	10/04/23 11:27	1.0	1	
060	met06_master011	MSS	493257-001	Soil	323723	10/04/23 11:30	1.0	1	5:ALASAL2O3=210
061	met06_master011	MS	QC1097851	Soil	323723	10/04/23 11:33	1.0	1	5:ALASAL2O3=230
062	met06_master011	MSD	QC1097852	Soil	323723	10/04/23 11:36	1.0	1	5:ALASAL2O3=230
063	met06_master011	PDS	QC1097853	Soil	323723	10/04/23 11:40	1.0	1	5:ALASAL2O3=210
064	met06_master011	SAMPLE	493257-002	Soil	323723	10/04/23 11:43	1.0	1	3:FE=150
065	met06_master011	SAMPLE	493257-003	Soil	323723	10/04/23 11:46	1.0	1	3:FE=150
066	met06_master011	SAMPLE	493257-004	Soil	323723	10/04/23 11:49	1.0	1	3:FE=140
067	met06_master011	SAMPLE	493257-005	Soil	323723	10/04/23 11:53	1.0	1	3:FE=140
068	met06_master011	CCV				10/04/23 11:56	1.0	10 1	
069	met06_master011	CCB				10/04/23 11:59	1.0	1	
070	met06_master011	SAMPLE	493257-006	Soil	323723	10/04/23 12:02	1.0	1	2:FE=130
071	met06_master011	SAMPLE	493257-007	Soil	323723	10/04/23 12:06	1.0	1	2:FE=140
072	met06_master011	SAMPLE	493257-008	Soil	323723	10/04/23 12:09	1.0	1	2:FE=100
073	met06_master011	SAMPLE	493257-009	Soil	323723	10/04/23 12:12	1.0	1	3:FE=140
074	met06_master011	SAMPLE	493257-010	Soil	323723	10/04/23 12:15	1.0	1	3:FE=150
075	met06_master011	SAMPLE	493257-011	Soil	323723	10/04/23 12:19	1.0	1	2:FE=140
076	met06_master011	SAMPLE	493257-012	Soil	323723	10/04/23 12:22	1.0	1	3:FE=150
077	met06_master011	SAMPLE	493257-013	Soil	323723	10/04/23 12:25	1.0	1	2:FE=130
078	met06_master011	SAMPLE	493257-014	Soil	323723	10/04/23 12:28	1.0	1	2:FE=120

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
079	met06_master011	SAMPLE	493257-015	Soil	323723	10/04/23 12:32	1.0	1	2:FE=140
080	met06_master011	XCCV				10/04/23 12:35	1.0	10 1	
081	met06_master011	CCV				10/04/23 12:40	1.0	10 1	
082	met06_master011	CCB				10/04/23 12:43	1.0	1	
083	met06_master011	SAMPLE	493257-016	Soil	323723	10/04/23 12:47	1.0	1	3:FE=150
084	met06_master011	SAMPLE	493257-017	Soil	323723	10/04/23 12:50	1.0	1	1:FE=87
085	met06_master011	SAMPLE	493257-018	Soil	323723	10/04/23 12:53	1.0	1	2:FE=91
086	met06_master011	SAMPLE	493257-019	Soil	323723	10/04/23 12:56	1.0	1	3:FE=110
087	met06_master011	LCS	QC1097696	Filtrate	323670	10/04/23 13:00	1.0	1	
088	met06_master011	SAMPLE	493148-001	Filtrate	323670	10/04/23 13:03	1.0	1	
089	met06_master011	MSS	493187-001	Filtrate	323670	10/04/23 13:06	1.0	1	1:CAASCACO3=520
090	met06_master011	MS	QC1097697	Filtrate	323670	10/04/23 13:09	1.0	1	1:CAASCACO3=570
091	met06_master011	MSD	QC1097698	Filtrate	323670	10/04/23 13:13	1.0	1	1:CAASCACO3=560
092	met06_master011	MSS	493187-002	Filtrate	323670	10/04/23 13:16	1.0	1	1:CAASCACO3=550
093	met06_master011	CCV				10/04/23 13:19	1.0	10 1	
094	met06_master011	CCB				10/04/23 13:22	1.0	1	
095	met06_master011	MS	QC1097699	Filtrate	323670	10/04/23 13:25	1.0	1	1:CAASCACO3=590
096	met06_master011	MSD	QC1097700	Filtrate	323670	10/04/23 13:29	1.0	1	1:CAASCACO3=580
097	met06_master011	BLANK	QC1097881	Soil	323734	10/04/23 13:32	1.0	1	
098	met06_master011	LCS	QC1097882	Soil	323734	10/04/23 13:35	1.0	1	
099	met06_master011	MSS	493175-002	Soil	323734	10/04/23 13:38	1.0	1	7:ALASAL2O3=390
100	met06_master011	MS	QC1097883	Soil	323734	10/04/23 13:42	1.0	1	7:ALASAL2O3=480
101	met06_master011	MSD	QC1097884	Soil	323734	10/04/23 13:45	1.0	1	7:ALASAL2O3=470
102	met06_master011	PDS	QC1097885	Soil	323734	10/04/23 13:48	1.0	1	7:ALASAL2O3=380
103	met06_master011	LCS	QC1097919	TCLP Leachate	323741	10/04/23 13:52	1.0	1	
104	met06_master011	CCV				10/04/23 13:55	1.0	10 1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
105	met06_master011	CCB				10/04/23 13:58	1.0	1	
106	met06_master011	SAMPLE	493175-004	Soil	323734	10/04/23 14:01	1.0	1	3:AL=190
107	met06_master011	SAMPLE	493175-006	Soil	323734	10/04/23 14:05	1.0	1	3:AL=220
108	met06_master011	SAMPLE	493175-008	Soil	323734	10/04/23 14:08	1.0	1	3:AL=200
109	met06_master011	SAMPLE	493201-001	Soil	323734	10/04/23 14:11	1.0	1	2:FE=150
110	met06_master011	SAMPLE	493223-001	Soil	323734	10/04/23 14:14	1.0	1	2:AL=200
111	met06_master011	SAMPLE	493223-002	Soil	323734	10/04/23 14:18	1.0	1	2:AL=220
112	met06_master011	SAMPLE	493223-003	Soil	323734	10/04/23 14:21	1.0	1	2:AL=170
113	met06_master011	SAMPLE	493223-004	Soil	323734	10/04/23 14:24	1.0	1	2:AL=220
114	met06_master011	SAMPLE	493259-001	Soil	323734	10/04/23 14:27	1.0	1	2:FE=110
115	met06_master011	SAMPLE	493261-001	Soil	323734	10/04/23 14:31	1.0	1	2:CA=2700
116	met06_master011	CCV				10/04/23 14:34	1.0	10 1	
117	met06_master011	CCB				10/04/23 14:37	1.0	1	
118	met06_master011	SAMPLE	493279-001	Soil	323734	10/04/23 14:40	1.0	1	3:AL=220
119	met06_master011	SAMPLE	493279-002	Soil	323734	10/04/23 14:44	1.0	1	3:AL=230
120	met06_master011	SAMPLE	493279-003	Soil	323734	10/04/23 14:47	1.0	1	3:AL=240
121	met06_master011	SAMPLE	493325-001	Miscell.	323734	10/04/23 14:50	1.0	1	4:FE=120
122	met06_master011	BLANK	QC1097645	TCLP Leachate	323657	10/04/23 14:53	1.0	1	
123	met06_master011	LCS	QC1097646	TCLP Leachate	323657	10/04/23 14:56	1.0	1	
124	met06_master011	MSS	492731-001	TCLP Leachate	323657	10/04/23 15:00	1.0	1	1:CAASCACO3=1300
125	met06_master011	MS	QC1097647	TCLP Leachate	323657	10/04/23 15:04	1.0	1	1:CAASCACO3=1300
126	met06_master011	MSD	QC1097648	TCLP Leachate	323657	10/04/23 15:07	1.0	1	1:CAASCACO3=1300
127	met06_master011	CCV				10/04/23 15:10	1.0	10 1	
128	met06_master011	CCB				10/04/23 15:13	1.0	1	
129	met06_master011	BLANK	QC1097933	WET Leachate	323745	10/04/23 15:17	1.0	1	
130	met06_master011	BS	QC1097934	WET Leachate	323745	10/04/23 15:20	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
131	met06_master011	BSD	QC1097935	WET Leachate	323745	10/04/23 15:23	1.0	1	
132	met06_master011	SAMPLE	492731-001	WET Leachate	323745	10/04/23 15:26	1.0	1	
133	met06_master011	SAMPLE	492978-001	WET Leachate	323745	10/04/23 15:30	1.0	1	
134	met06_master011	SAMPLE	492978-002	WET Leachate	323745	10/04/23 15:33	1.0	1	
135	met06_master011	CCV				10/04/23 15:36	1.0	10 1	
136	met06_master011	CCB				10/04/23 15:39	1.0	1	
137	met06_master011	BLANK	QC1097753	Water	323686	10/04/23 15:43	1.0	1	
138	met06_master011	LCS	QC1097754	Water	323686	10/04/23 15:46	1.0	1	
139	met06_master011	MSS	493216-001	Water	323686	10/04/23 15:49	1.0	1	2:CAASCACO3=780
140	met06_master011	MS	QC1097755	Water	323686	10/04/23 15:53	1.0	1	2:CAASCACO3=830
141	met06_master011	MSD	QC1097756	Water	323686	10/04/23 15:56	1.0	1	2:CAASCACO3=810
142	met06_master011	MSS	493221-001	Water	323686	10/04/23 16:00	1.0	1	
143	met06_master011	MS	QC1097757	Water	323686	10/04/23 16:03	1.0	1	
144	met06_master011	MSD	QC1097758	Water	323686	10/04/23 16:06	1.0	1	
145	met06_master011	CCV				10/04/23 16:10	1.0	10 1	
146	met06_master011	CCB				10/04/23 16:13	1.0	1	
147	met06_master011	BLANK	QC1097830	Water	323716	10/04/23 16:16	1.0	1	
148	met06_master011	LCS	QC1097831	Water	323716	10/04/23 16:19	1.0	1	
149	met06_master011	MSS	493263-001	Water	323716	10/04/23 16:23	1.0	1	1:CAASCACO3=960
150	met06_master011	MS	QC1097832	Water	323716	10/04/23 16:26	1.0	1	1:CAASCACO3=1000
151	met06_master011	MSD	QC1097833	Water	323716	10/04/23 16:29	1.0	1	1:CAASCACO3=1000
152	met06_master011	SAMPLE	493313-001	Water	323716	10/04/23 16:32	1.0	1	
153	met06_master011	SAMPLE	493327-002	Sea Water	323716	10/04/23 16:36	25.0	1	
154	met06_master011	BLANK	QC1097958	Water	323755	10/04/23 16:39	1.0	1	
155	met06_master011	LCS	QC1097959	Water	323755	10/04/23 16:42	1.0	1	
156	met06_master011	MSS	493105-002	Water	323755	10/04/23 16:45	1.0	1	6:CAASCACO3=620

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
157	met06_master011	CCV				10/04/23 16:48	1.0	10 1	
158	met06_master011	CCB				10/04/23 16:52	1.0	1	
159	met06_master011	MS	QC1097960	Water	323755	10/04/23 16:55	1.0	1	6:CAASCACO3=690
160	met06_master011	MSD	QC1097961	Water	323755	10/04/23 16:58	1.0	1	6:CAASCACO3=700
161	met06_master011	CCV				10/04/23 17:01	1.0	10 1	
162	met06_master011	CCB				10/04/23 17:05	1.0	1	
163	met06_master011	BLANK	QC1098178	Filtrate	323832	10/04/23 20:40	1.0	1	
164	met06_master011	LCS	QC1098179	Filtrate	323832	10/04/23 20:43	1.0	1	
165	met06_master011	MSS	493308-001	Filtrate	323832	10/04/23 20:49	1.0	1	
166	met06_master011	MS	QC1098180	Filtrate	323832	10/04/23 20:53	1.0	1	
167	met06_master011	MSD	QC1098181	Filtrate	323832	10/04/23 20:56	1.0	1	
168	met06_master011	SAMPLE	493308-002	Filtrate	323832	10/04/23 20:59	5.0	1	
169	met06_master011	SAMPLE	493308-003	Filtrate	323832	10/04/23 21:02	5.0	1	
170	met06_master011	SAMPLE	493308-004	Filtrate	323832	10/04/23 21:06	5.0	1	
171	met06_master011	SAMPLE	493308-005	Filtrate	323832	10/04/23 21:09	5.0	1	
172	met06_master011	SAMPLE	493308-006	Filtrate	323832	10/04/23 21:12	5.0	1	
173	met06_master011	CCV				10/04/23 21:15	1.0	10 1	
174	met06_master011	CCB				10/04/23 21:19	1.0	1	
175	met06_master011	SAMPLE	493308-007	Filtrate	323832	10/04/23 21:22	5.0	1	
176	met06_master011	SAMPLE	493308-008	Filtrate	323832	10/04/23 21:25	5.0	1	
177	met06_master011	SAMPLE	493308-009	Filtrate	323832	10/04/23 21:28	5.0	1	
178	met06_master011	CCV				10/04/23 21:32	1.0	10 1	
179	met06_master011	CCB				10/04/23 21:35	1.0	1	
180	met06_master011	BLANK	QC1097962	Wipe	323756	10/04/23 22:35	1.0	1	
181	met06_master011	BS	QC1097963	Wipe	323756	10/04/23 22:38	1.0	1	
182	met06_master011	BSD	QC1097964	Wipe	323756	10/04/23 22:42	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
183	met06_master011	SAMPLE	493300-002	Wipe	323756	10/04/23 22:45	1.0	1	1:FE=110
184	met06_master011	SAMPLE	493300-003	Wipe	323756	10/04/23 22:48	1.0	1	1:FE=130
185	met06_master011	SAMPLE	493300-006	Wipe	323756	10/04/23 22:51	1.0	1	1:FE=140
186	met06_master011	SAMPLE	493300-009	Wipe	323756	10/04/23 22:55	1.0	1	2:ZN=110
187	met06_master011	SAMPLE	493300-011	Wipe	323756	10/04/23 22:58	1.0	1	1:FE=110
188	met06_master011	SAMPLE	493300-012	Wipe	323756	10/04/23 23:01	1.0	1	2:FE=140
189	met06_master011	SAMPLE	493300-020	Wipe	323756	10/04/23 23:04	1.0	1	1:FE=86
190	met06_master011	CCV				10/04/23 23:08	1.0	10 1	
191	met06_master011	CCB				10/04/23 23:11	1.0	1	
192	met06_master011	SAMPLE	493300-022	Wipe	323756	10/04/23 23:14	1.0	1	1:FE=59
193	met06_master011	SAMPLE	493300-024	Wipe	323756	10/04/23 23:17	1.0	1	2:ZN=51
194	met06_master011	SAMPLE	493321-004	Wipe	323756	10/04/23 23:21	1.0	1	2:FE=64
195	met06_master011	SAMPLE	493321-005	Wipe	323756	10/04/23 23:24	1.0	1	2:FE=83
196	met06_master011	SAMPLE	493321-008	Wipe	323756	10/04/23 23:27	1.0	1	1:FE=46
197	met06_master011	SAMPLE	493321-010	Wipe	323756	10/04/23 23:30	1.0	1	1:FE=63
198	met06_master011	SAMPLE	493321-013	Wipe	323756	10/04/23 23:33	1.0	1	2:ZN=110
199	met06_master011	SAMPLE	493321-015	Wipe	323756	10/04/23 23:37	1.0	1	2:ZN=96
200	met06_master011	SAMPLE	493321-017	Wipe	323756	10/04/23 23:40	1.0	1	1:FE=60
201	met06_master011	SAMPLE	493321-019	Wipe	323756	10/04/23 23:43	1.0	1	1:FE=45
202	met06_master011	CCV				10/04/23 23:46	1.0	10 1	
203	met06_master011	CCB				10/04/23 23:50	1.0	1	
204	met06_master011	SAMPLE	493321-021	Wipe	323756	10/04/23 23:53	1.0	1	1:FE=73
205	met06_master011	SAMPLE	493321-023	Wipe	323756	10/04/23 23:56	1.0	1	
206	met06_master011	SAMPLE	493321-024	Wipe	323756	10/04/23 23:59	1.0	1	
207	met06_master011	BLANK	QC1097965	Wipe	323757	10/05/23 00:03	1.0	1	
208	met06_master011	BS	QC1097966	Wipe	323757	10/05/23 00:06	1.0	1	

Instrument: MET06 Method: EPA 6010B									
Begun: 10/04/23 08:17									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
209	met06_master011	BSD	QC1097967	Wipe	323757	10/05/23 00:09	1.0	1	
210	met06_master011	SAMPLE	493300-014	Wipe	323757	10/05/23 00:12	1.0	1	2:FE=100
211	met06_master011	SAMPLE	493300-016	Wipe	323757	10/05/23 00:16	1.0	1	1:FE=72
212	met06_master011	SAMPLE	493300-018	Wipe	323757	10/05/23 00:19	1.0	1	2:FE=110
213	met06_master011	SAMPLE	493321-002	Wipe	323757	10/05/23 00:22	1.0	1	1:FE=47
214	met06_master011	CCV				10/05/23 00:25	1.0	10 1	
215	met06_master011	CCB				10/05/23 00:29	1.0	1	
216	met06_master011	SAMPLE	493321-011	Wipe	323757	10/05/23 00:32	1.0	1	1:FE=75
217	met06_master011	CCV				10/05/23 00:35	1.0	10 1	
218	met06_master011	CCB				10/05/23 00:38	1.0	1	

SBW 10/04/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 026.

SBW 10/05/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 027 through 218.

Standards Used:

1=S14463 2=S18961 3=S18960 4=S18959 5=S18958 6=S18957 7=S18729 8=S18998 9=S18727 10=S19137 11=S19135 12=S18677 13=S19108

Date: 10/04/23		Reference: met06_master011			
Sequence: MET06 10/04/23		Analyzed: 10/04/23 08:17			
#	Type	Sample ID	Y H	Y A	Y R
		ICALBLK STD	56546100	3744470	1003900
		LOWER LIMIT	16963830	1123341	301170
		UPPER LIMIT	113092200	7488940	2007800
012	ICB		55495600	3710350	973724
013	ICSA		46506600	3188350	917661
014	ICSAB		46292100	3178490	911562
015	LCS	QC1097646	43668800	3177180	924248
016	SAMPLE	493199-005	49908000	3469230	939825
017	BLANK	QC1097585	54106200	3647000	964406
018	LCS	QC1097586	52378900	3583520	950080
019	MSS	493198-001	49693600	3418280	951487
020	MS	QC1097587	48428200	3371160	943114
021	MSD	QC1097588	48678100	3359210	948911
022	PDS	QC1097589	51215100	3414690	963473
023	SAMPLE	493198-002	49525200	3407670	954484
024	SAMPLE	493198-003	49430500	3383740	950861
025	CCV		51118800	3473030	957323
026	CCB		54226000	3624770	959196
027	SAMPLE	493198-011	49328000	3386270	945636
028	SAMPLE	493198-012	49867500	3374920	951731
029	BLANK	QC1097805	53431000	3591630	974854
030	LCS	QC1097806	51702300	3523920	953400
031	MSS	493044-002	51029300	3466490	951549
032	MS	QC1097807	50368100	3432620	940968
033	MSD	QC1097808	51857600	3445290	954614
034	PDS	QC1097809	51004100	3454340	956988
035	SAMPLE	493044-004	49596100	3407120	946513
036	SAMPLE	493044-006	49576100	3383600	947032
037	CCV		50968600	3451810	948467
038	CCB		54226800	3579790	967751
039	SAMPLE	493044-008	49344200	3351970	940582
040	SAMPLE	493044-010	49101300	3369980	946164
041	SAMPLE	493044-012	48746600	3349150	947486
042	SAMPLE	493044-014	48952800	3380030	952653
043	SAMPLE	493044-016	48596700	3354950	935378
044	SAMPLE	493044-018	49118800	3367720	938388
045	SAMPLE	493044-020	49136700	3369920	941838
046	SAMPLE	493044-022	48557100	3371100	931934
047	SAMPLE	493044-024	53033200	3543800	967444
048	SAMPLE	493044-026	49181200	3369240	944942
049	CCV		50891900	3461810	959313
050	CCB		54310600	3588500	969799
051	SAMPLE	493044-028	52710900	3513380	959908
052	SAMPLE	493044-030	48711200	3332300	929270
053	SAMPLE	493044-032	48652800	3318360	924973
056	CCV		50987600	3457450	955455
057	CCB		53768200	3594650	956437
058	BLANK	QC1097849	53364300	3498350	957028
059	LCS	QC1097850	52458200	3511510	946912
060	MSS	493257-001	49679100	3355160	943686
061	MS	QC1097851	49705900	3360680	950656

Date: 10/04/23
Sequence: MET06 10/04/23

Reference: met06_master011
Analyzed: 10/04/23 08:17

#	Type	Sample ID	Y H	Y A	Y R
062	MSD	QC1097852	49026100	3348950	939500
063	PDS	QC1097853	49812600	3371710	946526
064	SAMPLE	493257-002	49887500	3350160	941292
065	SAMPLE	493257-003	49147300	3352810	933149
066	SAMPLE	493257-004	50029400	3384320	945265
067	SAMPLE	493257-005	48788400	3334050	941946
068	CCV		51133500	3471410	952236
069	CCB		54099400	3607550	957680
070	SAMPLE	493257-006	49370800	3331410	935304
071	SAMPLE	493257-007	49272200	3338270	944620
072	SAMPLE	493257-008	49690100	3357790	931495
073	SAMPLE	493257-009	49379200	3362780	941082
074	SAMPLE	493257-010	50011800	3379450	939848
075	SAMPLE	493257-011	50052400	3382700	932435
076	SAMPLE	493257-012	49850700	3361780	941563
077	SAMPLE	493257-013	49819900	3357790	936225
078	SAMPLE	493257-014	50034500	3380490	940707
079	SAMPLE	493257-015	50015400	3358860	939896
081	CCV		50367600	3408170	928187
082	CCB		53523400	3550180	928563
083	SAMPLE	493257-016	48517900	3290470	908964
084	SAMPLE	493257-017	50630200	3423060	921480
085	SAMPLE	493257-018	50394200	3403500	928030
086	SAMPLE	493257-019	50026600	3370960	920428
087	LCS	QC1097696	51815500	3489790	925906
088	SAMPLE	493148-001	54822400	3678080	963130
089	MSS	493187-001	51212300	3478560	948613
090	MS	QC1097697	50333600	3430200	937170
091	MSD	QC1097698	51065900	3413050	931395
092	MSS	493187-002	50585000	3450320	943414
093	CCV		50722800	3437830	919290
094	CCB		54070600	3643110	931386
095	MS	QC1097699	50515600	3436910	946027
096	MSD	QC1097700	50244600	3413770	941130
097	BLANK	QC1097881	53407800	3538970	924176
098	LCS	QC1097882	52127800	3513890	913795
099	MSS	493175-002	48452300	3327000	913378
100	MS	QC1097883	48305500	3319590	920364
101	MSD	QC1097884	48577600	3331740	920226
102	PDS	QC1097885	48612700	3352530	913645
103	LCS	QC1097919	45385200	3233040	917313
104	CCV		51340600	3500850	924010
105	CCB		54699500	3644780	927670
106	SAMPLE	493175-004	48227200	3360950	912773
107	SAMPLE	493175-006	48707200	3374630	915542
108	SAMPLE	493175-008	49354400	3396220	915028
109	SAMPLE	493201-001	49777100	3434090	920322
110	SAMPLE	493223-001	48904100	3376770	914983
111	SAMPLE	493223-002	48879400	3392370	925426
112	SAMPLE	493223-003	49037400	3348030	919690
113	SAMPLE	493223-004	46994300	3239440	903334
114	SAMPLE	493259-001	48047000	3298790	903853

Date: 10/04/23
Sequence: MET06 10/04/23

Reference: met06_master011
Analyzed: 10/04/23 08:17

#	Type	Sample ID	Y H	Y A	Y R
115	SAMPLE	493261-001	42227400	2935100	848933
116	CCV		51846600	3573980	932872
117	CCB		55189000	3738390	939985
118	SAMPLE	493279-001	48335800	3350870	920143
119	SAMPLE	493279-002	48414100	3333270	903110
120	SAMPLE	493279-003	48619500	3380370	872055
121	SAMPLE	493325-001	49904600	3453320	909282
122	BLANK	QC1097645	46190900	3332550	925906
123	LCS	QC1097646	45655800	3305890	917080
124	MSS	492731-001	44085900	3127700	899040
125	MS	QC1097647	44199600	3128230	906845
126	MSD	QC1097648	44061100	3133020	883387
127	CCV		52088500	3588260	932293
128	CCB		55058300	3709600	944866
129	BLANK	QC1097933	52329300	3631960	934224
130	BS	QC1097934	52219200	3607950	932964
131	BSD	QC1097935	51848600	3602460	925513
132	SAMPLE	492731-001	51370800	3570660	926009
133	SAMPLE	492978-001	51847700	3619200	932399
134	SAMPLE	492978-002	51973600	3626030	940132
135	CCV		52051800	3591870	928979
136	CCB		55311100	3722180	929027
137	BLANK	QC1097753	56792300	3824690	952772
138	LCS	QC1097754	53872300	3721210	942799
139	MSS	493216-001	47322200	3361280	914621
140	MS	QC1097755	47041000	3290670	907047
141	MSD	QC1097756	46997100	3295980	911338
142	MSS	493221-001	52457300	3610290	934183
143	MS	QC1097757	51332500	3565930	925378
144	MSD	QC1097758	52070100	3549380	925936
145	CCV		51710400	3574630	923999
146	CCB		54747700	3709380	929757
147	BLANK	QC1097830	56073200	3811630	951298
148	LCS	QC1097831	53633800	3681200	936613
149	MSS	493263-001	49447700	3442470	943521
150	MS	QC1097832	49182600	3416000	923827
151	MSD	QC1097833	49044700	3424610	925995
152	SAMPLE	493313-001	53419200	3681310	937248
153	SAMPLE	493327-002	51628300	3613730	949702
154	BLANK	QC1097958	54043500	3639610	899761
155	LCS	QC1097959	52138800	3573530	915155
156	MSS	493105-002	48022000	3372260	898703
157	CCV		51347000	3569950	919297
158	CCB		55023300	3723990	932659
159	MS	QC1097960	47575600	3331510	901558
160	MSD	QC1097961	47838100	3333540	912548
161	CCV		51957300	3606950	927105
162	CCB		55029900	3735540	919875
165	MSS	493308-001	53045500	3456570	986325
166	MS	QC1098180	51964700	3450690	955750
167	MSD	QC1098181	52452800	3458750	957749
168	SAMPLE	493308-002	50810900	3343090	934114

Date: 10/04/23 Sequence: MET06 10/04/23			Reference: met06_master011 Analyzed: 10/04/23 08:17		
#	Type	Sample ID	Y H	Y A	Y R
169	SAMPLE	493308-003	51916200	3447050	946235
170	SAMPLE	493308-004	52721700	3474180	936113
171	SAMPLE	493308-005	51556800	3443510	942917
172	SAMPLE	493308-006	52308600	3480730	937519
173	CCV		49445000	3383050	926257
174	CCB		52516300	3536170	939656
175	SAMPLE	493308-007	49999800	3395830	920204
176	SAMPLE	493308-008	49876300	3389520	908269
177	SAMPLE	493308-009	49325200	3348650	900613
178	CCV		48325800	3334550	882176
179	CCB		50581400	3414970	856507
180	BLANK	QC1097962	55448100	3682250	1026950
181	BS	QC1097963	53366900	3620450	980942
182	BSD	QC1097964	52420700	3561710	967594
183	SAMPLE	493300-002	52351800	3525670	952453
184	SAMPLE	493300-003	51915500	3485730	947010
185	SAMPLE	493300-006	51252900	3461670	946611
186	SAMPLE	493300-009	51664100	3472490	948685
187	SAMPLE	493300-011	51884400	3492840	948132
188	SAMPLE	493300-012	51465500	3479340	953411
189	SAMPLE	493300-020	51728900	3517950	945264
190	CCV		53911500	3646360	978916
191	CCB		56131900	3775890	981191
192	SAMPLE	493300-022	51809500	3491870	935356
193	SAMPLE	493300-024	52152800	3535970	947996
194	SAMPLE	493321-004	52248800	3545630	939105
195	SAMPLE	493321-005	52898400	3589000	950777
196	SAMPLE	493321-008	52556300	3554780	943902
197	SAMPLE	493321-010	52521800	3551240	934605
198	SAMPLE	493321-013	52004000	3499330	928983
199	SAMPLE	493321-015	52915500	3568430	944520
200	SAMPLE	493321-017	53807000	3618610	949749
201	SAMPLE	493321-019	52640900	3541820	940614
202	CCV		53429700	3636700	967319
203	CCB		56348400	3779810	976797
204	SAMPLE	493321-021	51661100	3486010	928533
205	SAMPLE	493321-023	52567800	3544560	937047
206	SAMPLE	493321-024	54026400	3618970	953539
207	BLANK	QC1097965	53538300	3599280	950196
208	BS	QC1097966	52231900	3565790	938660
209	BSD	QC1097967	52195300	3553770	939147
210	SAMPLE	493300-014	51532300	3499420	932681
211	SAMPLE	493300-016	52381200	3547010	930608
212	SAMPLE	493300-018	51738700	3511200	931419
213	SAMPLE	493321-002	53200600	3578060	938177
214	CCV		53892600	3697180	971745
215	CCB		56312700	3805840	970223
216	SAMPLE	493321-011	51555000	3500070	912935
217	CCV		53883600	3651840	968586
218	CCB		56460600	3807690	967376

Instrument: MET06

Calibration #: 483399377001

Units: mg/L

Date: 04-OCT-2023 08:17

X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master011	483399377002	L1	04-OCT-2023 08:20	S18961, S14463 (100X)
L2	met06_master011	483399377003	L2	04-OCT-2023 08:23	S18960, S14463 (100X)
L3	met06_master011	483399377004	L3	04-OCT-2023 08:27	S18959, S14463 (100X)
L4	met06_master011	483399377005	L4	04-OCT-2023 08:30	S18958, S14463 (100X)
L5	met06_master011	483399377006	L5	04-OCT-2023 08:33	S18957, S14463 (100X)
L6	met06_master011	483399377007	L6	04-OCT-2023 08:36	S18729, S14463 (100X)

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00273	28.2438		0.0323	0.999		7	0.995	

$$\text{Instrument amount} = a0 + (\text{response} \times a1) + (\text{response}^2 \times a2)$$

WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	0.0145	0.0320	0.0382	0.0371	0.0373	0.0349

Spiked Amounts / Drifts	Ch	L1 %D	L2 %D	L3 %D	L4 %D	L5 %D	L6 %D
Lead	A	0.0033 23	0.0100 18	0.1000 11	1.0000 5	5.0000 6	10.000 -1

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 493300 METALS Wipe
EPA 6010B

Inst: MET06
Calnum: 483399377001

Cal Date: 04-OCT-2023

- ICV 483399377010 (04-OCT-2023) stds: S19137, S14463 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	0.9879	mg/l	-1	10	

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377012	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 08:53
Caldate: 04-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	55495600	-1.86
Yttrium	A	3744470	3710350	-0.91
Yttrium	R	1003900	973724	-3.01

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 493300 METALS Wipe
EPA 6010B

Inst: MET06	File: met06_master011	IDF: 1.0
Seqnum: 483399377013	Caldate: 04-OCT-2023	Time: 04-OCT-2023 08:56
Cal: 483399377001		

Standards: S18677, S14463 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.01021]	0.003334	mg/l	a- ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	138.9	mg/l	87	
Aluminum	R	400.0	383.8	mg/l	96	
Calcium	R	400.0	394.4	mg/l	99	
Magnesium	R	400.0	382.2	mg/l	96	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	46506600	-17.75
Yttrium	A	3744470	3188350	-14.85
Yttrium	R	1003900	917661	-8.59

--low bias a=ICSA

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377014	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 08:59
Caldate: 04-OCT-2023	

Standards: S19108, S14463 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9764	mg/l	-2	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	46292100	-18.13
Yttrium	A	3744470	3178490	-15.12
Yttrium	R	1003900	911562	-9.20

ENTHALPY CONTINUING CALIBRATION FOR 493300 METALS Wipe
EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377178	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 21:32
Caldate: 04-OCT-2023	

Standards: S19137, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0323	0.0366	1.000	1.036	mg/l	4	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	48325800	-14.54
Yttrium	A	3744470	3334550	-10.95
Yttrium	R	1003900	882176	-12.13

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377179	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 21:35
Caldate: 04-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	50581400	-10.55
Yttrium	A	3744470	3414970	-8.80
Yttrium	R	1003900	856507	-14.68

ENTHALPY CONTINUING CALIBRATION FOR 493300 METALS Wipe
EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377190	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 23:08
Caldate: 04-OCT-2023	

Standards: S19137, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0323	0.0361	1.000	1.020	mg/l	2	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	53911500	-4.66
Yttrium	A	3744470	3646360	-2.62
Yttrium	R	1003900	978916	-2.49

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377191	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 23:11
Caldate: 04-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	56131900	-0.73
Yttrium	A	3744470	3775890	0.84
Yttrium	R	1003900	981191	-2.26

ENTHALPY CONTINUING CALIBRATION FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377202	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 23:46
Caldate: 04-OCT-2023	

Standards: S19137, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0323	0.0365	1.000	1.033	mg/l	3	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	53429700	-5.51
Yttrium	A	3744470	3636700	-2.88
Yttrium	R	1003900	967319	-3.64

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377203	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 23:50
Caldate: 04-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	56348400	-0.35
Yttrium	A	3744470	3779810	0.94
Yttrium	R	1003900	976797	-2.70

ENTHALPY CONTINUING CALIBRATION FOR 493300 METALS Wipe
EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377214	File: met06_master011
Cal: 483399377001	Time: 05-OCT-2023 00:25
Caldate: 04-OCT-2023	

Standards: S19137, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0323	0.0360	1.000	1.017	mg/l	2	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	53892600	-4.69
Yttrium	A	3744470	3697180	-1.26
Yttrium	R	1003900	971745	-3.20

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	File: met06_master011	IDF: 1.0
Seqnum: 483399377215	Caldate: 04-OCT-2023	Time: 05-OCT-2023 00:29
Cal: 483399377001		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	56312700	-0.41
Yttrium	A	3744470	3805840	1.64
Yttrium	R	1003900	970223	-3.35

SAMPLE PREPARATION SUMMARY

Batch #: 323756
Started By: MTY

Method: 3050B
Prep Date: 04-OCT-2023 17:56

Analysis: ICP
Finished By: MTY

Sample	Matrix	Initial	Final	Prep DF	pH	Spike S18800	Spike S18799	Analysis
493300-002	Wipe	1 ft2	50 mL	50.0				6010
493300-003	Wipe	1 ft2	50 mL	50.0				6010
493300-006	Wipe	1 ft2	50 mL	50.0				6010
493300-009	Wipe	1.02 ft2	50 mL	49.02				6010
493300-011	Wipe	1 ft2	50 mL	50.0				6010
493300-012	Wipe	1 ft2	50 mL	50.0				6010
493300-020	Wipe	1.1104 ft2	50 mL	45.03				6010
493300-022	Wipe	1 ft2	50 mL	50.0				6010
493300-024	Wipe	1.04 ft2	50 mL	48.08				6010
493321-004	Wipe	1 ft2	50 mL	50.0				6010
493321-005	Wipe	1 ft2	50 mL	50.0				6010
493321-008	Wipe	1 ft2	50 mL	50.0				6010
493321-010	Wipe	1 ft2	50 mL	50.0				6010
493321-013	Wipe	1.03 ft2	50 mL	48.54				6010
493321-015	Wipe	1.02 ft2	50 mL	49.02				6010
493321-017	Wipe	1.138 ft2	50 mL	43.94				6010
493321-019	Wipe	1 ft2	50 mL	50.0				6010
493321-021	Wipe	1 ft2	50 mL	50.0				6010
493321-023	Wipe	1 ft2	50 mL	50.0				6010
493321-024	Wipe	1 ft2	50 mL	50.0				6010
QC1097962 BLANK	Wipe	1 ft2	50 mL	50.0				ICP
QC1097963 BS	Wipe	1 ft2	50 mL	50.0		.5 mL	.5 mL	ICP
QC1097964 BSD	Wipe	1 ft2	50 mL	50.0		.5 mL	.5 mL	ICP

Analyst: SBW 10/05/23

Reviewer: MCP 10/05/23

ICP and ICP-MS Prep Log for Soil/Misc.

Initials: PAJ

Prep Method: 3050B / 1420.2 / Other: _____

QC Batch #: 323756

Therm ID/Corr Factor: 1426541 0

Prep Start, Date/Time: 10-4-23 17:56

Prep End, Date/Time: 10-4-23 18:57 HotBlock Temp (Obs/Corr), °C: 92.5 / 92.5

HotBlock ID: 3

Sample ID	Bottle #	Sample pH (Water Only)	Sample Appearance	Initial Weight (g)	Bal. ID	Final Vol (mL)	Digestion Tube Lot#	Comment
Blank								
LCS								
LCSV						50		
493300-2	A		wine	Sample weight in dms				
-3								
-6								
-9								
-11								
-12								
-20								
-22								
-24								
321-4								
-5								
-8								
-10								
-13								
-15								
-17								
-19								
-21								
-23								
-24								

Hydrochloric Acid ID: 10mL 24000043

Nitric Acid ID: 10mL 202305248

H₂O₂ ID: 3mL 227111

LCS Spike ID: 0.5mL 518800, 518799

MS/MSD Spike ID: PAJ 10-4-23

Gold Std ID: _____

SAMPLE PREPARATION SUMMARY

Batch #: 323757
Started By: MTY

Method: 3050B
Prep Date: 04-OCT-2023 17:56

Analysis: ICP
Finished By: MTY

Sample	Matrix	Initial	Final	Prep DF	pH	Spike S18800	Spike S18799	Analysis
493300-014	Wipe	1.02 ft2	50 mL	49.02				6010
493300-016	Wipe	1 ft2	50 mL	50.0				6010
493300-018	Wipe	1.0828 ft2	50 mL	46.18				6010
493321-002	Wipe	1.06 ft2	50 mL	47.17				6010
493321-011	Wipe	1 ft2	50 mL	50.0				6010
QC1097965 BLANK	Wipe	1 ft2	50 mL	50.0				ICP
QC1097966 BS	Wipe	1 ft2	50 mL	50.0		.5 mL	.5 mL	ICP
QC1097967 BSD	Wipe	1 ft2	50 mL	50.0		.5 mL	.5 mL	ICP

Analyst: SBW 10/05/23

Reviewer: MCP 10/05/23

ICP and ICP-MS Prep Log for Soil/Misc.

The same ID/C-_____

Prep Start, Date/Time: 16-04-23 17:56
Prep End, Date/Time: 16-04-23 20:38
HotBlock Temp (Obs/Corr): °C: 92.5 / 92.5

HotBlock ID: 3

[illegible]

Hydrochloric Acid ID: 10 mL 24000043

Nitric Acid ID: 10001 2073089401

205032
3mL 7-27-11
H₂O₂ ID:

LCS Spike ID: 16mat - (518800, 518799)

MS/MSD Spike ID: PAJ 10-4-23 ✓

Gold Std ID:

165 of 175

Enthalpy Analytical, Orange, Logbook # BK1193

ICP & ICP-MS Soil Prep Log, Rev. 0, 06/30/2023

ICP Raw Data

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
001	met06_master011	ICALBLK	CALBLANK			10/04/23 08:17	1.0	1	
002	met06_master011	ICAL	L1			10/04/23 08:20	1.0	2 1	
003	met06_master011	ICAL	L2			10/04/23 08:23	1.0	3 1	
004	met06_master011	ICAL	L3			10/04/23 08:27	1.0	4 1	
005	met06_master011	ICAL	L4			10/04/23 08:30	1.0	5 1	
006	met06_master011	ICAL	L5			10/04/23 08:33	1.0	6 1	
007	met06_master011	ICAL	L6			10/04/23 08:36	1.0	7 1	
008	met06_master011	ICAL	L7			10/04/23 08:40	1.0	8 1	
009	met06_master011	ICAL	L8			10/04/23 08:43	1.0	9 1	
010	met06_master011	ICV				10/04/23 08:46	1.0	10 1	
011	met06_master011	CRI				10/04/23 08:50	1.0	11 1	
012	met06_master011	ICB				10/04/23 08:53	1.0	1	
013	met06_master011	ICSA				10/04/23 08:56	1.0	12 1	6:MGASMGCO3=1300
014	met06_master011	ICSAB				10/04/23 08:59	1.0	13 1	6:MGASMGCO3=1300
015	met06_master011	LCS	QC1097646	TCLP Leachate	323657	10/04/23 09:03	1.0	1	
016	met06_master011	SAMPLE	493199-005	Soil	323641	10/04/23 09:06	1.0	1	2:FE=150
017	met06_master011	BLANK	QC1097585	Soil	323642	10/04/23 09:10	1.0	1	
018	met06_master011	LCS	QC1097586	Soil	323642	10/04/23 09:13	1.0	1	
019	met06_master011	MSS	493198-001	Miscell.	323642	10/04/23 09:16	1.0	1	5:ALASAL2O3=210
020	met06_master011	MS	QC1097587	Miscell.	323642	10/04/23 09:19	1.0	1	5:ALASAL2O3=240
021	met06_master011	MSD	QC1097588	Miscell.	323642	10/04/23 09:23	1.0	1	5:ALASAL2O3=240
022	met06_master011	PDS	QC1097589	Miscell.	323642	10/04/23 09:26	1.0	1	5:ALASAL2O3=210
023	met06_master011	SAMPLE	493198-002	Miscell.	323642	10/04/23 09:29	1.0	1	3:FE=140
024	met06_master011	SAMPLE	493198-003	Miscell.	323642	10/04/23 09:32	1.0	1	3:FE=140
025	met06_master011	CCV				10/04/23 09:36	1.0	10 1	
026	met06_master011	CCB				10/04/23 09:39	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
027	met06_master011	SAMPLE	493198-011	Soil	323642	10/04/23 09:42	1.0	1	3:FE=150
028	met06_master011	SAMPLE	493198-012	Soil	323642	10/04/23 09:45	1.0	1	3:FE=140
029	met06_master011	BLANK	QC1097805	Miscell.	323706	10/04/23 09:49	1.0	1	
030	met06_master011	LCS	QC1097806	Miscell.	323706	10/04/23 09:52	1.0	1	
031	met06_master011	MSS	493044-002	Miscell.	323706	10/04/23 09:55	1.0	1	
032	met06_master011	MS	QC1097807	Miscell.	323706	10/04/23 09:58	1.0	1	
033	met06_master011	MSD	QC1097808	Miscell.	323706	10/04/23 10:02	1.0	1	
034	met06_master011	PDS	QC1097809	Miscell.	323706	10/04/23 10:05	1.0	1	
035	met06_master011	SAMPLE	493044-004	Miscell.	323706	10/04/23 10:08	1.0	1	
036	met06_master011	SAMPLE	493044-006	Miscell.	323706	10/04/23 10:11	1.0	1	
037	met06_master011	CCV				10/04/23 10:14	1.0	10 1	
038	met06_master011	CCB				10/04/23 10:18	1.0	1	
039	met06_master011	SAMPLE	493044-008	Miscell.	323706	10/04/23 10:21	1.0	1	
040	met06_master011	SAMPLE	493044-010	Miscell.	323706	10/04/23 10:24	1.0	1	
041	met06_master011	SAMPLE	493044-012	Miscell.	323706	10/04/23 10:27	1.0	1	
042	met06_master011	SAMPLE	493044-014	Miscell.	323706	10/04/23 10:31	1.0	1	
043	met06_master011	SAMPLE	493044-016	Miscell.	323706	10/04/23 10:34	1.0	1	
044	met06_master011	SAMPLE	493044-018	Miscell.	323706	10/04/23 10:37	1.0	1	
045	met06_master011	SAMPLE	493044-020	Miscell.	323706	10/04/23 10:40	1.0	1	
046	met06_master011	SAMPLE	493044-022	Miscell.	323706	10/04/23 10:44	1.0	1	
047	met06_master011	SAMPLE	493044-024	Miscell.	323706	10/04/23 10:47	1.0	1	
048	met06_master011	SAMPLE	493044-026	Miscell.	323706	10/04/23 10:50	1.0	1	1:FE=21
049	met06_master011	CCV				10/04/23 10:53	1.0	10 1	
050	met06_master011	CCB				10/04/23 10:57	1.0	1	
051	met06_master011	SAMPLE	493044-028	Miscell.	323706	10/04/23 11:00	1.0	1	
052	met06_master011	SAMPLE	493044-030	Miscell.	323706	10/04/23 11:03	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met06_master011	SAMPLE	493044-032	Miscell.	323706	10/04/23 11:07	1.0	1	
054	met06_master011	UNKNOWN	4			10/04/23 11:10	1.0	1	
055	met06_master011	UNKNOWN	5			10/04/23 11:14	1.0	1	
056	met06_master011	CCV				10/04/23 11:17	1.0	10 1	
057	met06_master011	CCB				10/04/23 11:20	1.0	1	
058	met06_master011	BLANK	QC1097849	Soil	323723	10/04/23 11:23	1.0	1	
059	met06_master011	LCS	QC1097850	Soil	323723	10/04/23 11:27	1.0	1	
060	met06_master011	MSS	493257-001	Soil	323723	10/04/23 11:30	1.0	1	5:ALASAL2O3=210
061	met06_master011	MS	QC1097851	Soil	323723	10/04/23 11:33	1.0	1	5:ALASAL2O3=230
062	met06_master011	MSD	QC1097852	Soil	323723	10/04/23 11:36	1.0	1	5:ALASAL2O3=230
063	met06_master011	PDS	QC1097853	Soil	323723	10/04/23 11:40	1.0	1	5:ALASAL2O3=210
064	met06_master011	SAMPLE	493257-002	Soil	323723	10/04/23 11:43	1.0	1	3:FE=150
065	met06_master011	SAMPLE	493257-003	Soil	323723	10/04/23 11:46	1.0	1	3:FE=150
066	met06_master011	SAMPLE	493257-004	Soil	323723	10/04/23 11:49	1.0	1	3:FE=140
067	met06_master011	SAMPLE	493257-005	Soil	323723	10/04/23 11:53	1.0	1	3:FE=140
068	met06_master011	CCV				10/04/23 11:56	1.0	10 1	
069	met06_master011	CCB				10/04/23 11:59	1.0	1	
070	met06_master011	SAMPLE	493257-006	Soil	323723	10/04/23 12:02	1.0	1	2:FE=130
071	met06_master011	SAMPLE	493257-007	Soil	323723	10/04/23 12:06	1.0	1	2:FE=140
072	met06_master011	SAMPLE	493257-008	Soil	323723	10/04/23 12:09	1.0	1	2:FE=100
073	met06_master011	SAMPLE	493257-009	Soil	323723	10/04/23 12:12	1.0	1	3:FE=140
074	met06_master011	SAMPLE	493257-010	Soil	323723	10/04/23 12:15	1.0	1	3:FE=150
075	met06_master011	SAMPLE	493257-011	Soil	323723	10/04/23 12:19	1.0	1	2:FE=140
076	met06_master011	SAMPLE	493257-012	Soil	323723	10/04/23 12:22	1.0	1	3:FE=150
077	met06_master011	SAMPLE	493257-013	Soil	323723	10/04/23 12:25	1.0	1	2:FE=130
078	met06_master011	SAMPLE	493257-014	Soil	323723	10/04/23 12:28	1.0	1	2:FE=120

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
079	met06_master011	SAMPLE	493257-015	Soil	323723	10/04/23 12:32	1.0	1	2:FE=140
080	met06_master011	XCCV				10/04/23 12:35	1.0	10 1	
081	met06_master011	CCV				10/04/23 12:40	1.0	10 1	
082	met06_master011	CCB				10/04/23 12:43	1.0	1	
083	met06_master011	SAMPLE	493257-016	Soil	323723	10/04/23 12:47	1.0	1	3:FE=150
084	met06_master011	SAMPLE	493257-017	Soil	323723	10/04/23 12:50	1.0	1	1:FE=87
085	met06_master011	SAMPLE	493257-018	Soil	323723	10/04/23 12:53	1.0	1	2:FE=91
086	met06_master011	SAMPLE	493257-019	Soil	323723	10/04/23 12:56	1.0	1	3:FE=110
087	met06_master011	LCS	QC1097696	Filtrate	323670	10/04/23 13:00	1.0	1	
088	met06_master011	SAMPLE	493148-001	Filtrate	323670	10/04/23 13:03	1.0	1	
089	met06_master011	MSS	493187-001	Filtrate	323670	10/04/23 13:06	1.0	1	1:CAASCACO3=520
090	met06_master011	MS	QC1097697	Filtrate	323670	10/04/23 13:09	1.0	1	1:CAASCACO3=570
091	met06_master011	MSD	QC1097698	Filtrate	323670	10/04/23 13:13	1.0	1	1:CAASCACO3=560
092	met06_master011	MSS	493187-002	Filtrate	323670	10/04/23 13:16	1.0	1	1:CAASCACO3=550
093	met06_master011	CCV				10/04/23 13:19	1.0	10 1	
094	met06_master011	CCB				10/04/23 13:22	1.0	1	
095	met06_master011	MS	QC1097699	Filtrate	323670	10/04/23 13:25	1.0	1	1:CAASCACO3=590
096	met06_master011	MSD	QC1097700	Filtrate	323670	10/04/23 13:29	1.0	1	1:CAASCACO3=580
097	met06_master011	BLANK	QC1097881	Soil	323734	10/04/23 13:32	1.0	1	
098	met06_master011	LCS	QC1097882	Soil	323734	10/04/23 13:35	1.0	1	
099	met06_master011	MSS	493175-002	Soil	323734	10/04/23 13:38	1.0	1	7:ALASAL2O3=390
100	met06_master011	MS	QC1097883	Soil	323734	10/04/23 13:42	1.0	1	7:ALASAL2O3=480
101	met06_master011	MSD	QC1097884	Soil	323734	10/04/23 13:45	1.0	1	7:ALASAL2O3=470
102	met06_master011	PDS	QC1097885	Soil	323734	10/04/23 13:48	1.0	1	7:ALASAL2O3=380
103	met06_master011	LCS	QC1097919	TCLP Leachate	323741	10/04/23 13:52	1.0	1	
104	met06_master011	CCV				10/04/23 13:55	1.0	10 1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
105	met06_master011	CCB				10/04/23 13:58	1.0	1	
106	met06_master011	SAMPLE	493175-004	Soil	323734	10/04/23 14:01	1.0	1	3:AL=190
107	met06_master011	SAMPLE	493175-006	Soil	323734	10/04/23 14:05	1.0	1	3:AL=220
108	met06_master011	SAMPLE	493175-008	Soil	323734	10/04/23 14:08	1.0	1	3:AL=200
109	met06_master011	SAMPLE	493201-001	Soil	323734	10/04/23 14:11	1.0	1	2:FE=150
110	met06_master011	SAMPLE	493223-001	Soil	323734	10/04/23 14:14	1.0	1	2:AL=200
111	met06_master011	SAMPLE	493223-002	Soil	323734	10/04/23 14:18	1.0	1	2:AL=220
112	met06_master011	SAMPLE	493223-003	Soil	323734	10/04/23 14:21	1.0	1	2:AL=170
113	met06_master011	SAMPLE	493223-004	Soil	323734	10/04/23 14:24	1.0	1	2:AL=220
114	met06_master011	SAMPLE	493259-001	Soil	323734	10/04/23 14:27	1.0	1	2:FE=110
115	met06_master011	SAMPLE	493261-001	Soil	323734	10/04/23 14:31	1.0	1	2:CA=2700
116	met06_master011	CCV				10/04/23 14:34	1.0	10 1	
117	met06_master011	CCB				10/04/23 14:37	1.0	1	
118	met06_master011	SAMPLE	493279-001	Soil	323734	10/04/23 14:40	1.0	1	3:AL=220
119	met06_master011	SAMPLE	493279-002	Soil	323734	10/04/23 14:44	1.0	1	3:AL=230
120	met06_master011	SAMPLE	493279-003	Soil	323734	10/04/23 14:47	1.0	1	3:AL=240
121	met06_master011	SAMPLE	493325-001	Miscell.	323734	10/04/23 14:50	1.0	1	4:FE=120
122	met06_master011	BLANK	QC1097645	TCLP Leachate	323657	10/04/23 14:53	1.0	1	
123	met06_master011	LCS	QC1097646	TCLP Leachate	323657	10/04/23 14:56	1.0	1	
124	met06_master011	MSS	492731-001	TCLP Leachate	323657	10/04/23 15:00	1.0	1	1:CAASCACO3=1300
125	met06_master011	MS	QC1097647	TCLP Leachate	323657	10/04/23 15:04	1.0	1	1:CAASCACO3=1300
126	met06_master011	MSD	QC1097648	TCLP Leachate	323657	10/04/23 15:07	1.0	1	1:CAASCACO3=1300
127	met06_master011	CCV				10/04/23 15:10	1.0	10 1	
128	met06_master011	CCB				10/04/23 15:13	1.0	1	
129	met06_master011	BLANK	QC1097933	WET Leachate	323745	10/04/23 15:17	1.0	1	
130	met06_master011	BS	QC1097934	WET Leachate	323745	10/04/23 15:20	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
131	met06_master011	BSD	QC1097935	WET Leachate	323745	10/04/23 15:23	1.0	1	
132	met06_master011	SAMPLE	492731-001	WET Leachate	323745	10/04/23 15:26	1.0	1	
133	met06_master011	SAMPLE	492978-001	WET Leachate	323745	10/04/23 15:30	1.0	1	
134	met06_master011	SAMPLE	492978-002	WET Leachate	323745	10/04/23 15:33	1.0	1	
135	met06_master011	CCV				10/04/23 15:36	1.0	10 1	
136	met06_master011	CCB				10/04/23 15:39	1.0	1	
137	met06_master011	BLANK	QC1097753	Water	323686	10/04/23 15:43	1.0	1	
138	met06_master011	LCS	QC1097754	Water	323686	10/04/23 15:46	1.0	1	
139	met06_master011	MSS	493216-001	Water	323686	10/04/23 15:49	1.0	1	2:CAASCACO3=780
140	met06_master011	MS	QC1097755	Water	323686	10/04/23 15:53	1.0	1	2:CAASCACO3=830
141	met06_master011	MSD	QC1097756	Water	323686	10/04/23 15:56	1.0	1	2:CAASCACO3=810
142	met06_master011	MSS	493221-001	Water	323686	10/04/23 16:00	1.0	1	
143	met06_master011	MS	QC1097757	Water	323686	10/04/23 16:03	1.0	1	
144	met06_master011	MSD	QC1097758	Water	323686	10/04/23 16:06	1.0	1	
145	met06_master011	CCV				10/04/23 16:10	1.0	10 1	
146	met06_master011	CCB				10/04/23 16:13	1.0	1	
147	met06_master011	BLANK	QC1097830	Water	323716	10/04/23 16:16	1.0	1	
148	met06_master011	LCS	QC1097831	Water	323716	10/04/23 16:19	1.0	1	
149	met06_master011	MSS	493263-001	Water	323716	10/04/23 16:23	1.0	1	1:CAASCACO3=960
150	met06_master011	MS	QC1097832	Water	323716	10/04/23 16:26	1.0	1	1:CAASCACO3=1000
151	met06_master011	MSD	QC1097833	Water	323716	10/04/23 16:29	1.0	1	1:CAASCACO3=1000
152	met06_master011	SAMPLE	493313-001	Water	323716	10/04/23 16:32	1.0	1	
153	met06_master011	SAMPLE	493327-002	Sea Water	323716	10/04/23 16:36	25.0	1	
154	met06_master011	BLANK	QC1097958	Water	323755	10/04/23 16:39	1.0	1	
155	met06_master011	LCS	QC1097959	Water	323755	10/04/23 16:42	1.0	1	
156	met06_master011	MSS	493105-002	Water	323755	10/04/23 16:45	1.0	1	6:CAASCACO3=620

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
157	met06_master011	CCV				10/04/23 16:48	1.0	10 1	
158	met06_master011	CCB				10/04/23 16:52	1.0	1	
159	met06_master011	MS	QC1097960	Water	323755	10/04/23 16:55	1.0	1	6:CAASCACO3=690
160	met06_master011	MSD	QC1097961	Water	323755	10/04/23 16:58	1.0	1	6:CAASCACO3=700
161	met06_master011	CCV				10/04/23 17:01	1.0	10 1	
162	met06_master011	CCB				10/04/23 17:05	1.0	1	
163	met06_master011	BLANK	QC1098178	Filtrate	323832	10/04/23 20:40	1.0	1	
164	met06_master011	LCS	QC1098179	Filtrate	323832	10/04/23 20:43	1.0	1	
165	met06_master011	MSS	493308-001	Filtrate	323832	10/04/23 20:49	1.0	1	
166	met06_master011	MS	QC1098180	Filtrate	323832	10/04/23 20:53	1.0	1	
167	met06_master011	MSD	QC1098181	Filtrate	323832	10/04/23 20:56	1.0	1	
168	met06_master011	SAMPLE	493308-002	Filtrate	323832	10/04/23 20:59	5.0	1	
169	met06_master011	SAMPLE	493308-003	Filtrate	323832	10/04/23 21:02	5.0	1	
170	met06_master011	SAMPLE	493308-004	Filtrate	323832	10/04/23 21:06	5.0	1	
171	met06_master011	SAMPLE	493308-005	Filtrate	323832	10/04/23 21:09	5.0	1	
172	met06_master011	SAMPLE	493308-006	Filtrate	323832	10/04/23 21:12	5.0	1	
173	met06_master011	CCV				10/04/23 21:15	1.0	10 1	
174	met06_master011	CCB				10/04/23 21:19	1.0	1	
175	met06_master011	SAMPLE	493308-007	Filtrate	323832	10/04/23 21:22	5.0	1	
176	met06_master011	SAMPLE	493308-008	Filtrate	323832	10/04/23 21:25	5.0	1	
177	met06_master011	SAMPLE	493308-009	Filtrate	323832	10/04/23 21:28	5.0	1	
178	met06_master011	CCV				10/04/23 21:32	1.0	10 1	
179	met06_master011	CCB				10/04/23 21:35	1.0	1	
180	met06_master011	BLANK	QC1097962	Wipe	323756	10/04/23 22:35	1.0	1	
181	met06_master011	BS	QC1097963	Wipe	323756	10/04/23 22:38	1.0	1	
182	met06_master011	BSD	QC1097964	Wipe	323756	10/04/23 22:42	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/04/23 08:17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
183	met06_master011	SAMPLE	493300-002	Wipe	323756	10/04/23 22:45	1.0	1	1:FE=110
184	met06_master011	SAMPLE	493300-003	Wipe	323756	10/04/23 22:48	1.0	1	1:FE=130
185	met06_master011	SAMPLE	493300-006	Wipe	323756	10/04/23 22:51	1.0	1	1:FE=140
186	met06_master011	SAMPLE	493300-009	Wipe	323756	10/04/23 22:55	1.0	1	2:ZN=110
187	met06_master011	SAMPLE	493300-011	Wipe	323756	10/04/23 22:58	1.0	1	1:FE=110
188	met06_master011	SAMPLE	493300-012	Wipe	323756	10/04/23 23:01	1.0	1	2:FE=140
189	met06_master011	SAMPLE	493300-020	Wipe	323756	10/04/23 23:04	1.0	1	1:FE=86
190	met06_master011	CCV				10/04/23 23:08	1.0	10 1	
191	met06_master011	CCB				10/04/23 23:11	1.0	1	
192	met06_master011	SAMPLE	493300-022	Wipe	323756	10/04/23 23:14	1.0	1	1:FE=59
193	met06_master011	SAMPLE	493300-024	Wipe	323756	10/04/23 23:17	1.0	1	2:ZN=51
194	met06_master011	SAMPLE	493321-004	Wipe	323756	10/04/23 23:21	1.0	1	2:FE=64
195	met06_master011	SAMPLE	493321-005	Wipe	323756	10/04/23 23:24	1.0	1	2:FE=83
196	met06_master011	SAMPLE	493321-008	Wipe	323756	10/04/23 23:27	1.0	1	1:FE=46
197	met06_master011	SAMPLE	493321-010	Wipe	323756	10/04/23 23:30	1.0	1	1:FE=63
198	met06_master011	SAMPLE	493321-013	Wipe	323756	10/04/23 23:33	1.0	1	2:ZN=110
199	met06_master011	SAMPLE	493321-015	Wipe	323756	10/04/23 23:37	1.0	1	2:ZN=96
200	met06_master011	SAMPLE	493321-017	Wipe	323756	10/04/23 23:40	1.0	1	1:FE=60
201	met06_master011	SAMPLE	493321-019	Wipe	323756	10/04/23 23:43	1.0	1	1:FE=45
202	met06_master011	CCV				10/04/23 23:46	1.0	10 1	
203	met06_master011	CCB				10/04/23 23:50	1.0	1	
204	met06_master011	SAMPLE	493321-021	Wipe	323756	10/04/23 23:53	1.0	1	1:FE=73
205	met06_master011	SAMPLE	493321-023	Wipe	323756	10/04/23 23:56	1.0	1	
206	met06_master011	SAMPLE	493321-024	Wipe	323756	10/04/23 23:59	1.0	1	
207	met06_master011	BLANK	QC1097965	Wipe	323757	10/05/23 00:03	1.0	1	
208	met06_master011	BS	QC1097966	Wipe	323757	10/05/23 00:06	1.0	1	

Instrument: MET06 Method: EPA 6010B									
Begun: 10/04/23 08:17									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
209	met06_master011	BSD	QC1097967	Wipe	323757	10/05/23 00:09	1.0	1	
210	met06_master011	SAMPLE	493300-014	Wipe	323757	10/05/23 00:12	1.0	1	2:FE=100
211	met06_master011	SAMPLE	493300-016	Wipe	323757	10/05/23 00:16	1.0	1	1:FE=72
212	met06_master011	SAMPLE	493300-018	Wipe	323757	10/05/23 00:19	1.0	1	2:FE=110
213	met06_master011	SAMPLE	493321-002	Wipe	323757	10/05/23 00:22	1.0	1	1:FE=47
214	met06_master011	CCV				10/05/23 00:25	1.0	10 1	
215	met06_master011	CCB				10/05/23 00:29	1.0	1	
216	met06_master011	SAMPLE	493321-011	Wipe	323757	10/05/23 00:32	1.0	1	1:FE=75
217	met06_master011	CCV				10/05/23 00:35	1.0	10 1	
218	met06_master011	CCB				10/05/23 00:38	1.0	1	

SBW 10/04/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 026.

SBW 10/05/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 027 through 218.

Standards Used:

1=S14463 2=S18961 3=S18960 4=S18959 5=S18958 6=S18957 7=S18729 8=S18998 9=S18727 10=S19137 11=S19135 12=S18677 13=S19108

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-002	Client ID: ARCH-C8E-EXT-1 TO 2-231003-L-WF
Seqnum: 483399377183	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 22:45
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.2176	11	0.50		!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3525670	-5.84

! = warning - = low bias < = opening a = ICSA u = use

Sample Name: 493300-002,323756

Sample Type: Unknown Sample

Measure Date: 2023-10-04 22:45:24

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	118280	26293.6000000	12665.7000000	30615.5000000	29199.2000000	241355	38617.1000000
Int RSD	1.69194285	0.58803663	0.90616389	0.92791560	0.82325886	0.13615090	0.96305523
Int SD	2001.23000000	154.61600000	114.77200000	284.08600000	240.38500000	328.60700000	371.90400000
RelInt Mean	0.00001890	0.00836281	-0.00004616	0.00225513	0.00198372	0.24741400	0.00508079
RelInt RSD	37.26427820	1.40504209	72.97426698	1.54438103	1.80436251	0.40613304	0.94114104
RelInt SD	0.00000704	0.00011750	0.00003368	0.00003483	0.00003579	0.00100483	0.00004782
Conc Mean	<0.00025701[mg/l]	0.82690900[mg/l]	<0.00377781[mg/l]	0.02436070[mg/l]	0.00616579[mg/l]	9.40428000[mg/l]	0.02729100[mg/l]
Conc RSD	121.93753478	1.48588297	51.77417604	2.20547850	1.88927939	0.41314380	0.96784654
Conc SD	0.00031339[mg/l]	0.01228690[mg/l]	0.00195593[mg/l]	0.00053727[mg/l]	0.00011649[mg/l]	0.03885320[mg/l]	0.00026413[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	43117.0000000	683787	112235000	12534.2000000	30004.6000000	3813040	15820.3000000
Int RSD	0.55964469	2.89479034	0.07117316	1.18673709	0.89893216	0.42186025	0.72454378
Int SD	241.30200000	19794.2000000	79881.2000000	148.74800000	269.72100000	16085.7000000	114.62500000
RelInt Mean	0.00638000	0.01102040	32.06410000	0.00423294	0.00839817	1.08194000	0.00027754
RelInt RSD	0.38816458	3.65578382	0.12227101	2.86025788	0.84068910	0.40576095	32.42897548
RelInt SD	0.00002476	0.00040288	0.03920510	0.00012107	0.00007060	0.00439009	0.00009001
Conc Mean	0.04172230[mg/l]	0.37677500[mg/l]	>114.97800000[mg/l]	2.87890000[mg/l]	2.77674000[mg/l]	0.78878400[mg/l]	0.00235919[mg/l]
Conc RSD	0.39147410	3.68793046	0.12254953	3.45969294	0.78030712	0.40595144	29.88674079
Conc SD	0.00016333[mg/l]	0.01389520[mg/l]	0.14090500[mg/l]	0.09960110[mg/l]	0.02166710[mg/l]	0.00320208[mg/l]	0.00070508[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	119057	57438.3000000	48148.1000000	16283.3000000	12932.3000000	32732.4000000	31699.0000000
Int RSD	0.46358299	0.43534192	0.48486648	0.59724257	0.81973817	1.01382728	0.87949147
Int SD	551.92800000	250.05300000	233.45400000	97.25080000	106.01100000	331.85000000	278.79000000
RelInt Mean	0.09132610	0.01003540	0.00773271	0.00021059	-0.00005894	0.00530105	0.01595840
RelInt RSD	0.35788783	0.46948203	0.66176024	13.79094527	23.19915164	1.10020845	1.05182850
RelInt SD	0.00032684	0.00004711	0.00005117	0.00002904	0.00001367	0.00005832	0.00016786
Conc Mean	7.87747000[mg/l]	0.07777550[mg/l]	0.21757500[mg/l]	0.01234090[mg/l]	<-0.00613593[mg/l]	0.09508350[mg/l]	0.01503880[mg/l]
Conc RSD	0.36013212	0.47239941	0.66541193	14.31062564	16.29177647	1.12455894	1.16023220
Conc SD	0.02836930[mg/l]	0.00036741[mg/l]	0.00144777[mg/l]	0.00176606[mg/l]	0.00099965[mg/l]	0.00106927[mg/l]	0.00017449[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	532340	12704.1000000	34978.0000000	3525670	52351800	952453	14626400
Int RSD	4.24458053	0.65460127	0.67375493	0.19082245	1.17219847	0.53168293	0.21625554
Int SD	22595.6000000	83.16120000	235.66600000	6727.77000000	613667	5064.03000000	31630.4000000
RelInt Mean	0.00773094	-0.00017420	0.00006331	---	---	---	4.17515000
RelInt RSD	5.74054384	16.39693219	23.29760483	---	---	---	0.06405207
RelInt SD	0.00044380	0.00002856	0.00001475	---	---	---	0.00267427
Conc Mean	0.06743270[mg/l]	<0.00701302[mg/l]	0.00501981[mg/l]	3499310	52192500	934143	12.31320000[mg/l]
Conc RSD	5.76601560	31.66952326	45.85034095	---	---	---	0.06450906
Conc SD	0.00388818[mg/l]	0.00222099[mg/l]	0.00230160[mg/l]	6575.06000000	613261	5225.91000000	0.00794313[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8997.61000000	31733.0000000	298905	108565	21658.8000000	157142	
Int RSD	1.01068173	1.54553934	0.06570583	0.14908672	0.82396993	0.38598211	
Int SD	90.93720000	490.44600000	196.39800000	161.85600000	178.46200000	606.54000000	
RelInt Mean	-0.00017554	-0.00018140	0.07845760	0.02765750	-0.00017890	0.04142420	
RelInt RSD	39.51811004	162.20425128	0.20393690	0.27402296	10.10911428	0.33765770	
RelInt SD	0.00006937	0.00029425	0.00016000	0.00007579	0.00001808	0.00013987	
Conc Mean	<0.00008124[mg/l]	<0.00055762[mg/l]	1.55777000[mg/l]	1.04772000[mg/l]	<-0.00139738[mg/l]	4.20079000[mg/l]	
Conc RSD	210.47682000	750.13808687	0.20446600	0.27480529	5.47254147	0.33699376	
Conc SD	0.00017099[mg/l]	0.00418292[mg/l]	0.00318511[mg/l]	0.00287919[mg/l]	0.00007647[mg/l]	0.01415640[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-003	Client ID: ARCH-C8E-EXT-1 TO 2-231003-L-DUP-WF
Seqnum: 483399377184	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 22:48
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.2783	14	0.50		!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3485730	-6.91

!=warning -=low bias <=opening a=ICSA u=use

Sample Name: 493300-003,323756

Sample Type: Unknown Sample

Measure Date: 2023-10-04 22:48:38

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	116259	24561.6000000	12956.0000000	30634.0000000	30149.9000000	232715	40826.9000000
Int RSD	1.92728305	0.60045355	1.77033035	0.64916106	0.60501362	0.53678964	0.46434336
Int SD	2240.64000000	147.48100000	229.36400000	198.86400000	182.41100000	1249.19000000	189.57700000
RelInt Mean	0.00001312	0.00653321	0.00000436	0.00219671	0.00227504	0.23944500	0.00579809
RelInt RSD	106.42818494	1.52441755	524.02938813	1.27722822	1.06430656	0.61125102	0.97355164
RelInt SD	0.00001397	0.00009959	0.00002282	0.00002806	0.00002421	0.00146361	0.00005645
Conc Mean	<0.00051426[mg/l]	0.63559100[mg/l]	0.00670793[mg/l]	0.02345950[mg/l]	0.00710167[mg/l]	9.09609000[mg/l]	0.03121720[mg/l]
Conc RSD	120.80706571	1.63853799	19.75900166	1.84506490	1.09257822	0.62239160	0.98308945
Conc SD	0.00062126[mg/l]	0.01041440[mg/l]	0.00132542[mg/l]	0.00043284[mg/l]	0.00007759[mg/l]	0.05661330[mg/l]	0.00030689[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	44969.5000000	757624	121776000	13021.3000000	30630.0000000	4215500	15646.6000000
Int RSD	0.50247390	3.18205337	0.55019051	1.14951656	0.71210251	0.72060017	0.91706824
Int SD	225.96000000	24108.0000000	670000	149.68200000	218.11700000	30376.9000000	143.49000000
RelInt Mean	0.00693802	0.01256110	35.19280000	0.00483204	0.00918405	1.21067000	0.00020392
RelInt RSD	1.10509627	4.59341937	0.37339172	1.17818354	2.05675056	0.67126632	7.11870890
RelInt SD	0.00007667	0.00057698	0.13140700	0.00005693	0.00018889	0.00812682	0.00001452
Conc Mean	0.04540200[mg/l]	0.42991400[mg/l]	>126.19800000[mg/l]	3.37175000[mg/l]	3.01793000[mg/l]	0.88269100[mg/l]	0.00178241[mg/l]
Conc RSD	1.11360292	4.62925143	0.37346551	1.38911544	1.92082984	0.67152832	6.38018189
Conc SD	0.00050560[mg/l]	0.01990180[mg/l]	0.47130600[mg/l]	0.04683750[mg/l]	0.05796930[mg/l]	0.00592752[mg/l]	0.00011372[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	136564	63788.8000000	55309.7000000	16000.5000000	12910.5000000	34351.1000000	32214.8000000
Int RSD	0.94692598	0.42872103	0.45168027	0.38161870	0.67137136	0.70894964	0.26747334
Int SD	1293.16000000	273.47600000	249.82300000	61.06090000	86.67740000	243.53200000	86.16600000
RelInt Mean	0.11066500	0.01201700	0.00989373	0.00012232	-0.00010522	0.00578941	0.01665630
RelInt RSD	0.44381602	0.84679204	1.24281742	41.12785213	11.48479377	0.72682709	0.12458709
RelInt SD	0.00049115	0.00010176	0.00012296	0.00005031	0.00001208	0.00004208	0.00002075
Conc Mean	9.55594000[mg/l]	0.09323890[mg/l]	0.27831500[mg/l]	0.00695276[mg/l]	<-0.00951968[mg/l]	0.10403700[mg/l]	0.01576430[mg/l]
Conc RSD	0.44595403	0.85159306	1.24561738	43.99116322	9.28071112	0.74143238	0.13671143
Conc SD	0.04261510[mg/l]	0.00079402[mg/l]	0.00346674[mg/l]	0.00305860[mg/l]	0.00088349[mg/l]	0.00077136[mg/l]	0.00002155[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	494400	12674.2000000	33874.4000000	3485730	51915500	947010	12288700
Int RSD	0.83919498	0.56666772	1.91804726	0.81589796	1.36134488	1.05153589	0.88762033
Int SD	4148.98000000	71.82060000	649.72700000	28440.0000000	706749	9958.15000000	109077
RelInt Mean	0.00710718	-0.00022986	0.00004192	---	---	---	3.54775000
RelInt RSD	1.54391756	3.18164456	4.24609792	---	---	---	0.50836446
RelInt SD	0.00010973	0.00000731	0.00000178	---	---	---	0.01803550
Conc Mean	0.06196780[mg/l]	<0.01132270[mg/l]	<0.00168178[mg/l]	3459360	51757500	928674	10.46260000[mg/l]
Conc RSD	1.55130729	5.01313291	16.51708309	---	---	---	0.50859920
Conc SD	0.00096131[mg/l]	0.00056762[mg/l]	0.00027778[mg/l]	28343.4000000	707903	10070.4000000	0.05321270[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8999.35000000	31820.9000000	331972	109831	21586.3000000	160088	
Int RSD	0.70230294	0.77055646	1.44576952	0.43022007	1.25804330	0.24558930	
Int SD	63.20270000	245.19800000	4799.55000000	472.51500000	271.56500000	393.15900000	
RelInt Mean	-0.00016190	-0.00004997	0.08885470	0.02829390	-0.00024278	0.04272560	
RelInt RSD	45.00960475	424.13077457	1.11095530	0.95573958	8.33316858	1.07487783	
RelInt SD	0.00007287	0.00021193	0.00098714	0.00027042	0.00002023	0.00045925	
Conc Mean	<0.00011486[mg/l]	<0.00131085[mg/l]	1.76594000[mg/l]	1.07190000[mg/l]	<-0.00167803[mg/l]	4.33249000[mg/l]	
Conc RSD	156.38168205	229.82644849	1.11930756	0.95859688	5.15596265	1.07272723	
Conc SD	0.00017962[mg/l]	0.00301268[mg/l]	0.01976630[mg/l]	0.01027520[mg/l]	0.00008652[mg/l]	0.04647580[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-006	Client ID: ARCH-C9E-EXT-1 TO 2-231003-L-WF
Seqnum: 483399377185	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 22:51
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.2530	13	0.50		!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3461670	-7.55

! = warning - = low bias < = opening a = ICSA u = use

Sample Name: 493300-006,323756

Sample Type: Unknown Sample

Measure Date: 2023-10-04 22:51:51

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	117694	29436.2000000	13662.9000000	31140.2000000	30774.1000000	244632	47930.1000000
Int RSD	1.53202372	0.74280987	1.16210321	0.37849468	0.29999155	0.99088018	0.35428050
Int SD	1803.10000000	218.65500000	158.77700000	117.86400000	92.31970000	2424.01000000	169.80700000
RelInt Mean	0.00000956	0.01194910	0.00003345	0.00220847	0.00238100	0.25242000	0.00782956
RelInt RSD	88.35410903	1.97830799	81.38933561	1.34521637	1.02475430	0.44172015	0.27668732
RelInt SD	0.00000845	0.00023639	0.00002723	0.00002971	0.00002440	0.00111499	0.00002166
Conc Mean	<0.00067253[mg/l]	1.20192000[mg/l]	0.00834164[mg/l]	0.02364090[mg/l]	0.00743922[mg/l]	9.59787000[mg/l]	0.04229220[mg/l]
Conc RSD	55.89535039	2.05698383	18.95610455	1.93878829	1.05210358	0.44927364	0.29787053
Conc SD	0.00037591[mg/l]	0.02472330[mg/l]	0.00158125[mg/l]	0.00045835[mg/l]	0.00007827[mg/l]	0.04312070[mg/l]	0.00012598[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	78132.3000000	711838	131643000	15230.3000000	31518.3000000	4996660	16498.8000000
Int RSD	0.84815243	3.29167592	0.03527442	0.92596338	0.73027416	0.81643938	0.42086273
Int SD	662.68100000	23431.4000000	46436.3000000	141.02700000	230.17000000	40794.7000000	69.43730000
RelInt Mean	0.01655260	0.01180540	38.31710000	0.00724199	0.01018180	1.44647000	0.00027632
RelInt RSD	1.45562027	5.01798330	0.65880769	2.48230114	3.54414740	0.25384972	6.01341203
RelInt SD	0.00024094	0.00059239	0.25243600	0.00017977	0.00036086	0.00367186	0.00001662
Conc Mean	0.10880100[mg/l]	0.40384900[mg/l]	>137.40200000[mg/l]	5.35432000[mg/l]	3.32414000[mg/l]	1.05469000[mg/l]	0.00234958[mg/l]
Conc RSD	1.46020717	5.05956434	0.65896712	2.76199405	3.33147822	0.25385753	5.54026677
Conc SD	0.00158872[mg/l]	0.02043300[mg/l]	0.90543400[mg/l]	0.14788600[mg/l]	0.11074300[mg/l]	0.00267741[mg/l]	0.00013017[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	195157	89303.6000000	52215.2000000	16518.2000000	13318.8000000	23341.9000000	33054.5000000
Int RSD	1.12247063	0.29188073	0.06249751	0.60339928	0.11682509	0.86565789	0.18802160
Int SD	2190.58000000	260.66000000	32.63320000	99.67070000	15.55970000	202.06100000	62.14960000
RelInt Mean	0.17402500	0.01945070	0.00901204	0.00011465	-0.00011039	0.00236793	0.01768730
RelInt RSD	0.76190203	0.81680865	0.47402253	33.89131667	33.79007347	2.51732948	0.75134701
RelInt SD	0.00132590	0.00015888	0.00004272	0.00003885	0.00003730	0.00005961	0.00013289
Conc Mean	15.05500000[mg/l]	0.15124700[mg/l]	0.25295400[mg/l]	0.00611408[mg/l]	<-0.00989779[mg/l]	0.04130950[mg/l]	0.01683610[mg/l]
Conc RSD	0.76441714	0.81965262	0.46513595	38.67041321	27.55322148	2.64534792	0.82071264
Conc SD	0.11508300[mg/l]	0.00123970[mg/l]	0.00117658[mg/l]	0.00236434[mg/l]	0.00272716[mg/l]	0.00109278[mg/l]	0.00013818[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	551053	13340.3000000	35350.1000000	3461670	51252900	946611	17162100
Int RSD	4.56549551	0.94351701	2.07951038	0.61890359	1.48725438	0.65192355	0.35262643
Int SD	25158.3000000	125.86800000	735.10900000	21424.4000000	762261	6171.18000000	60518.1000000
RelInt Mean	0.00828586	-0.00024813	0.00006215	---	---	---	4.99159000
RelInt RSD	6.17279317	7.70039575	9.06088389	---	---	---	0.97637025
RelInt SD	0.00051147	0.00001911	0.00000563	---	---	---	0.04873640
Conc Mean	0.07229440[mg/l]	<-0.01277010[mg/l]	0.00483832[mg/l]	3434800	51094400	928483	14.72140000[mg/l]
Conc RSD	6.19828092	11.54532854	18.16421816	---	---	---	0.97623188
Conc SD	0.00448101[mg/l]	0.00147435[mg/l]	0.00087884[mg/l]	21493.7000000	762455	6101.54000000	0.14371500[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8862.95000000	31640.4000000	506363	125251	21992.2000000	170049	
Int RSD	2.73090788	1.35971100	0.81703245	0.32380819	0.36767081	0.63770443	
Int SD	242.03900000	430.21800000	4137.15000000	405.57300000	80.85890000	1084.41000000	
RelInt Mean	-0.00029974	0.00000142	0.14001900	0.03285540	-0.00026015	0.04582810	
RelInt RSD	91.96734492	28152.1876536	1.35945836	0.77314840	5.18712425	1.25993222	
RelInt SD	0.00027566	0.00040086	0.00190350	0.00025402	0.00001349	0.00057740	
Conc Mean	<-0.00022490[mg/l]	<-0.00204141[mg/l]	2.79031000[mg/l]	1.24522000[mg/l]	<-0.00175735[mg/l]	4.64646000[mg/l]	
Conc RSD	302.12267402	279.14627635	1.36602026	0.77527826	3.36213617	1.25759611	
Conc SD	0.00067949[mg/l]	0.00569852[mg/l]	0.03811620[mg/l]	0.00965392[mg/l]	0.00005908[mg/l]	0.05843370[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-009	Client ID: ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-L-LA
Seqnum: 483399377186	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 22:55
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.02 ft2 ⇒ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	3.436	170	0.50		!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3472490	-7.26

!=warning -=low bias <=opening a=ICSA u=use

Sample Name: 493300-009,323756

Sample Type: Unknown Sample

Measure Date: 2023-10-04 22:55:05

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	120079	42738.1000000	14546.2000000	28495.7000000	36935.9000000	482195	29346.2000000
Int RSD	1.34250785	0.81384760	0.90078508	0.82072032	0.66653852	1.18429059	0.38310241
Int SD	1612.07000000	347.82300000	131.03000000	233.87000000	246.19200000	5710.59000000	112.42600000
RelInt Mean	-0.00011917	0.02563180	0.00036834	0.00194101	0.00416510	0.50694800	0.00235439
RelInt RSD	11.14643909	1.06239515	14.83612877	3.42123946	2.49225709	0.33379952	1.61013681
RelInt SD	0.00001328	0.00027231	0.00005465	0.00006641	0.00010381	0.00169219	0.00003791
Conc Mean	<0.00639930[mg/l]	2.63270000[mg/l]	0.02783950[mg/l]	0.01951480[mg/l]	0.01318620[mg/l]	19.44160000[mg/l]	0.01219910[mg/l]
Conc RSD	9.23393184	1.08151707	11.39937858	5.24965667	2.51603191	0.33662044	1.84493938
Conc SD	0.00059091[mg/l]	0.02847310[mg/l]	0.00317353[mg/l]	0.00102446[mg/l]	0.00033177[mg/l]	0.06544440[mg/l]	0.00022507[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	46840.0000000	660556	65607800	11840.8000000	34170.2000000	2337110	19231.6000000
Int RSD	0.54267720	2.88496358	0.49736007	1.86196879	1.07196622	0.46437267	0.53694960
Int SD	254.19000000	19056.8000000	326307	220.47200000	366.29300000	10852.9000000	103.26400000
RelInt Mean	0.00780329	0.01075530	19.02930000	0.00370148	0.01311090	0.67079500	-0.00071896
RelInt RSD	0.28873847	3.93693342	0.99775609	2.51408356	0.36092564	0.84248988	5.17293754
RelInt SD	0.00002253	0.00042343	0.18986600	0.00009306	0.00004732	0.00565138	0.00003719
Conc Mean	0.05110780[mg/l]	0.36763100[mg/l]	68.23540000[mg/l]	2.44169000[mg/l]	4.22308000[mg/l]	0.48886600[mg/l]	<-0.00544727[mg/l]
Conc RSD	0.29067383	3.97232551	0.99777974	3.13528744	0.34385567	0.84328221	5.34855074
Conc SD	0.00014856[mg/l]	0.01460350[mg/l]	0.68083900[mg/l]	0.07655400[mg/l]	0.01452130[mg/l]	0.00412252[mg/l]	0.00029135[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	104423	81678.2000000	441867	26813.7000000	13009.5000000	25954.7000000	43373.0000000
Int RSD	0.71963744	0.45485087	0.54732080	0.53250764	1.02272186	0.62658786	1.13375602
Int SD	751.46700000	371.51400000	2418.43000000	142.78500000	133.05100000	162.62900000	491.74400000
RelInt Mean	0.07615880	0.01711900	0.12175200	-0.00092840	-0.00012881	0.00324366	0.02879080
RelInt RSD	0.15730815	0.61713885	0.53777515	9.67619421	30.77388300	0.26754561	1.03250344
RelInt SD	0.00011980	0.00010565	0.00065475	0.00008983	0.00003964	0.00000868	0.00029727
Conc Mean	6.56109000[mg/l]	0.13305100[mg/l]	3.43609000[mg/l]	<-0.05696570[mg/l]	<-0.01124400[mg/l]	0.05736470[mg/l]	0.02837850[mg/l]
Conc RSD	0.15845538	0.61945194	0.53750338	9.58929672	25.77374600	0.27742845	1.08863752
Conc SD	0.01039640[mg/l]	0.00082419[mg/l]	0.01846910[mg/l]	0.00546261[mg/l]	0.00289800[mg/l]	0.00015915[mg/l]	0.00030894[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1233110	12988.4000000	35156.8000000	3472490	51664100	948685	134311000
Int RSD	4.69659641	0.59701272	0.42830690	0.83183825	1.34673593	1.51048030	0.09381212
Int SD	57914.2000000	77.54240000	150.57900000	28885.5000000	695779	14329.7000000	126000
RelInt Mean	0.02131740	-0.00022575	0.00008347	---	---	---	38.95080000
RelInt RSD	5.71359547	16.37843585	4.69170677	---	---	---	0.81070735
RelInt SD	0.00121799	0.00003697	0.00000392	---	---	---	0.31577700
Conc Mean	0.18646500[mg/l]	<-0.01129830[mg/l]	0.00816956[mg/l]	3446360	51507300	930461	>114.88900000[mg/l]
Conc RSD	5.72289706	25.30610800	7.48162692	---	---	---	0.81068248
Conc SD	0.01067120[mg/l]	0.00285916[mg/l]	0.00061122[mg/l]	28896.7000000	695232	14440.1000000	0.93138500[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8877.61000000	31755.6000000	1067980	119097	22346.4000000	148853	
Int RSD	1.61217940	1.53536699	0.96252739	0.69164631	0.03996881	0.65201037	
Int SD	143.12300000	487.56500000	10279.6000000	823.73000000	8.93159000	970.53700000	
RelInt Mean	-0.00022096	0.00021437	0.30179700	0.03103280	0.00010045	0.03956230	
RelInt RSD	56.26422762	110.56449393	0.39216096	1.03935191	17.14039681	0.56739623	
RelInt SD	0.00012432	0.00023702	0.00118353	0.00032254	0.00001722	0.00022448	
Conc Mean	<-0.00003072[mg/l]	<-0.00506860[mg/l]	6.02944000[mg/l]	1.17596000[mg/l]	<-0.00030442[mg/l]	4.01236000[mg/l]	
Conc RSD	997.45467565	66.47516079	0.39295689	1.04211878	22.80245320	0.56624530	
Conc SD	0.00030645[mg/l]	0.00336936[mg/l]	0.02369310[mg/l]	0.01225490[mg/l]	0.00006941[mg/l]	0.02271980[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-011	Client ID: ARCH-C10E-DG-1.5 TO 2-231003-L-FB
Seqnum: 483399377187	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 22:58
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.400	70	0.50		!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3492840	-6.72

!=warning -=low bias <=opening a=ICSA u=use

Sample Name: 493300-011,323756

Sample Type: Unknown Sample

Measure Date: 2023-10-04 22:58:19

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	117811	32337.9000000	13057.8000000	29299.3000000	32285.2000000	279476	42400.2000000
Int RSD	1.03935965	0.47542048	1.37608173	0.51928203	1.65417900	0.51824486	0.52598573
Int SD	1224.48000000	153.74100000	179.68600000	152.14600000	534.05500000	1448.37000000	223.01900000
RelInt Mean	0.00000581	0.01481140	0.00006524	0.00195875	0.00293465	0.28943900	0.00627537
RelInt RSD	47.70250715	2.48691548	43.71805916	2.61406509	2.29841037	0.70772080	0.82332994
RelInt SD	0.00000277	0.00036835	0.00002852	0.00005120	0.00006745	0.00204842	0.00005167
Conc Mean	<0.00083945[mg/l]	1.50123000[mg/l]	0.01019690[mg/l]	0.01978840[mg/l]	0.00920896[mg/l]	11.02960000[mg/l]	0.03365250[mg/l]
Conc RSD	14.69169246	2.56616241	16.23395346	3.99199531	2.35405518	0.71827718	0.87276131
Conc SD	0.00012333[mg/l]	0.03852400[mg/l]	0.00165536[mg/l]	0.00078995[mg/l]	0.00021678[mg/l]	0.07922310[mg/l]	0.00029371[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	72334.0000000	660417	102636000	11934.4000000	32274.9000000	3779330	16595.2000000
Int RSD	3.34837006	2.74476581	0.36410811	0.96184140	1.25120450	0.83081393	0.87787433
Int SD	2422.01000000	18126.9000000	373706	114.79000000	403.82500000	31399.2000000	145.68500000
RelInt Mean	0.01491470	0.01067030	29.59520000	0.00367138	0.01095100	1.08238000	0.00044415
RelInt RSD	4.17370782	3.41805760	0.35277004	3.18062963	1.82065565	0.75485135	5.93029382
RelInt SD	0.00062250	0.00036472	0.10440300	0.00011677	0.00019938	0.00817036	0.00002634
Conc Mean	0.09800140[mg/l]	0.36469700[mg/l]	>106.12500000[mg/l]	2.41693000[mg/l]	3.56021000[mg/l]	0.78910100[mg/l]	0.00366434[mg/l]
Conc RSD	4.18834833	3.44943885	0.35304499	3.97457518	1.71887052	0.75522905	5.63094582
Conc SD	0.00410464[mg/l]	0.01258000[mg/l]	0.37466900[mg/l]	0.09606270[mg/l]	0.06119540[mg/l]	0.00595952[mg/l]	0.00020634[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	95516.6000000	131625	193417	16292.2000000	12704.9000000	23269.3000000	34637.2000000
Int RSD	0.34326599	0.69124786	0.66266150	1.48885356	1.43958630	0.97126686	1.54886942
Int SD	327.87600000	909.85500000	1281.70000000	242.56700000	182.89800000	226.00700000	536.48500000
RelInt Mean	0.06639360	0.03157450	0.04964280	0.00009581	-0.00011369	0.00264153	0.01927950
RelInt RSD	1.19150039	0.53304724	0.59265996	36.32897507	10.10229392	1.03704671	0.91931326
RelInt SD	0.00079108	0.00016831	0.00029421	0.00003481	0.00001149	0.00002739	0.00017724
Conc Mean	5.71356000[mg/l]	0.24585200[mg/l]	1.40037000[mg/l]	0.00503228[mg/l]	<-0.01013910[mg/l]	0.04632550[mg/l]	0.01849120[mg/l]
Conc RSD	1.20163261	0.53442315	0.59156294	42.05886795	8.28225385	1.08414804	0.99651726
Conc SD	0.06865600[mg/l]	0.00131389[mg/l]	0.00828407[mg/l]	0.00211652[mg/l]	0.00083975[mg/l]	0.00050224[mg/l]	0.00018427[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1085100	12663.8000000	35392.1000000	3492840	51884400	948132	27495500
Int RSD	4.78471109	0.74723385	0.96864555	0.08703576	1.26331229	1.02800032	0.49114582
Int SD	51918.9000000	94.62820000	342.82400000	3040.02000000	655462	9746.80000000	135043
RelInt Mean	0.01846410	-0.00020797	0.00007266	---	---	---	7.92537000
RelInt RSD	4.48784398	10.12270765	6.22871471	---	---	---	0.49238080
RelInt SD	0.00082864	0.00002105	0.00000453	---	---	---	0.03902300
Conc Mean	0.16146600[mg/l]	<-0.00987858[mg/l]	0.00647861[mg/l]	3466920	51725900	929796	23.37490000[mg/l]
Conc RSD	4.49630882	16.59499645	10.90090313	---	---	---	0.49247697
Conc SD	0.00726001[mg/l]	0.00163935[mg/l]	0.00070623[mg/l]	3008.88000000	656224	9500.45000000	0.11511600[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8908.82000000	31896.4000000	675260	112998	21566.2000000	142275	
Int RSD	2.33520264	1.05334458	0.77664307	0.21160286	1.53338094	0.30276015	
Int SD	208.03900000	335.97900000	5244.36000000	239.10700000	330.69200000	430.75200000	
RelInt Mean	-0.00027695	-0.00006352	0.18767600	0.02919270	-0.00011302	0.03752590	
RelInt RSD	8.23445088	417.75992116	0.86255568	0.11790413	27.04110074	0.42778721	
RelInt SD	0.00002280	0.00026535	0.00161881	0.00003442	0.00003056	0.00016053	
Conc Mean	<-0.00016872[mg/l]	<0.00111821[mg/l]	3.74442000[mg/l]	1.10605000[mg/l]	<-0.00114233[mg/l]	3.80627000[mg/l]	
Conc RSD	33.31701448	337.34450595	0.86573087	0.11852357	11.05267305	0.42687723	
Conc SD	0.00005621[mg/l]	0.00377222[mg/l]	0.03241660[mg/l]	0.00131093[mg/l]	0.00012626[mg/l]	0.01624810[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-012	Client ID: ARCH-C10E-DG-1.5 TO 2-231003-L-DUP-FB
Seqnum: 483399377188	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 23:01
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.587	130	0.50		!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3479340	-7.08

!=warning -=low bias <=opening a=ICSA u=use

Sample Name: 493300-012,323756

Sample Type: Unknown Sample

Measure Date: 2023-10-04 23:01:34

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	118872	34755.8000000	14680.9000000	31921.2000000	33567.1000000	625766	57942.2000000
Int RSD	1.22568814	0.97902221	0.93900238	0.60624287	0.81353766	0.08678452	0.39825723
Int SD	1457.00000000	340.26700000	137.85400000	193.52000000	273.08100000	543.06800000	230.75900000
RelInt Mean	0.00000775	0.01646540	0.00035076	0.00214270	0.00302447	0.65774800	0.01055860
RelInt RSD	137.91269162	1.00612193	11.65556702	0.53602931	1.04370683	0.21891211	0.46267403
RelInt SD	0.00001068	0.00016566	0.00004088	0.00001149	0.00003157	0.00143989	0.00004885
Conc Mean	<0.00075344[mg/l]	1.67418000[mg/l]	0.02672300[mg/l]	0.02262630[mg/l]	0.00948345[mg/l]	25.27350000[mg/l]	0.05709830[mg/l]
Conc RSD	63.06764263	1.03460799	8.88425701	0.78310197	1.04260580	0.22025165	0.46941503
Conc SD	0.00047518[mg/l]	0.01732120[mg/l]	0.00237414[mg/l]	0.00017719[mg/l]	0.00009888[mg/l]	0.05566530[mg/l]	0.00026803[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	105707	993404	139012000	11911.6000000	32021.4000000	6033060	19291.3000000
Int RSD	0.73053913	3.10800037	0.17788824	1.24709527	0.41903227	0.16624897	2.01056953
Int SD	772.23100000	30875.0000000	247286	148.54900000	134.18000000	10029.9000000	387.86500000
RelInt Mean	0.02425080	0.01722070	40.26390000	0.00364467	0.01072430	1.73928000	0.00091095
RelInt RSD	1.27599502	4.36752281	0.55694058	1.96390620	0.07294891	0.33734131	9.65925832
RelInt SD	0.00030944	0.00075212	0.22424600	0.00007158	0.00000782	0.00586731	0.00008799
Conc Mean	0.15956500[mg/l]	0.59063300[mg/l]	>144.38300000[mg/l]	2.39495000[mg/l]	3.49062000[mg/l]	1.26829000[mg/l]	0.00732122[mg/l]
Conc RSD	1.27872654	4.39196591	0.55683356	2.45874027	0.06898230	0.33738419	9.41527505
Conc SD	0.00204040[mg/l]	0.02594040[mg/l]	0.80397300[mg/l]	0.05888560[mg/l]	0.00240791[mg/l]	0.00427901[mg/l]	0.00068931[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	102248	210435	338720	17425.5000000	13519.1000000	27148.2000000	44702.2000000
Int RSD	1.41214498	0.52200442	0.39115198	0.29456716	0.96835588	0.51951142	0.94871393
Int SD	1443.89000000	1098.48000000	1324.91000000	51.32980000	130.91300000	141.03800000	424.09600000
RelInt Mean	0.07349900	0.05426550	0.09174530	0.00010744	-0.00010661	0.00352680	0.02994340
RelInt RSD	1.64896121	0.63637486	0.56560173	29.40010239	58.33585022	0.84576387	1.54170869
RelInt SD	0.00121197	0.00034533	0.00051891	0.00003159	0.00006219	0.00002983	0.00046164
Conc Mean	6.33024000[mg/l]	0.42291700[mg/l]	2.58747000[mg/l]	0.00537794[mg/l]	<-0.00962151[mg/l]	0.06255550[mg/l]	0.02957670[mg/l]
Conc RSD	1.66165896	0.63721487	0.56532056	35.76852847	47.25890219	0.87425087	1.62242576
Conc SD	0.10518700[mg/l]	0.00269489[mg/l]	0.01462750[mg/l]	0.00192361[mg/l]	0.00454702[mg/l]	0.00054689[mg/l]	0.00047986[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	880419	13452.8000000	36465.9000000	3479340	51465500	953411	36477800
Int RSD	3.91019503	0.58946019	1.88120134	0.47563906	1.17839718	0.20224541	0.93813223
Int SD	34426.1000000	79.29890000	685.99700000	16549.1000000	606468	1928.23000000	342210
RelInt Mean	0.01465000	-0.00019430	0.00007456	---	---	---	10.56240000
RelInt RSD	5.33748123	1.47372295	4.21840654	---	---	---	1.05913429
RelInt SD	0.00078194	0.00000286	0.00000315	---	---	---	0.11187000
Conc Mean	0.12805100[mg/l]	<-0.00874103[mg/l]	0.00677400[mg/l]	3451630	51304600	935178	31.15330000[mg/l]
Conc RSD	5.34966537	2.53091455	7.24304694	---	---	---	1.05960203
Conc SD	0.00685030[mg/l]	0.00022123[mg/l]	0.00049064[mg/l]	16240.1000000	607575	1771.79000000	0.33010100[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8823.13000000	31705.4000000	671521	117030	22430.6000000	156208	
Int RSD	1.29995818	0.71641108	1.61871334	0.70947706	1.86146157	0.25096922	
Int SD	114.69700000	227.14100000	10870.0000000	830.30100000	417.53700000	392.03400000	
RelInt Mean	-0.00039104	-0.00003439	0.18679600	0.03031800	-0.00040657	0.04157280	
RelInt RSD	13.48872357	327.28377757	1.26719523	0.76042945	17.36510185	0.73518262	
RelInt SD	0.00005275	0.00011255	0.00236707	0.00023055	0.00007060	0.00030564	
Conc Mean	<-0.00044995[mg/l]	<-0.00153231[mg/l]	3.72670000[mg/l]	1.14880000[mg/l]	<-0.00244298[mg/l]	4.21583000[mg/l]	
Conc RSD	28.89565507	104.41425038	1.27134730	0.76264711	11.95175564	0.73363015	
Conc SD	0.00013002[mg/l]	0.00159995[mg/l]	0.04737930[mg/l]	0.00876129[mg/l]	0.00029198[mg/l]	0.03092860[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-014	Client ID: ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-L-LA
Seqnum: 483399377210	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323757	Time: 05-OCT-2023 00:12
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.02 ft2 ⇒ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.894	93	0.50		!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3499420	-6.54

!=warning -=low bias <=opening a=ICSA u=use

Sample Name: 493300-014,323757

Sample Type: Unknown Sample

Measure Date: 2023-10-05 00:12:54

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	121567	43756.3000000	15355.6000000	29684.4000000	35746.5000000	609225	34960.9000000
Int RSD	0.59497643	1.38215526	0.68039673	0.19515739	0.30040983	0.33542944	1.04352291
Int SD	723.29500000	604.78000000	104.47900000	57.93130000	107.38600000	2043.52000000	364.82500000
RelInt Mean	0.00001540	0.02668110	0.00053154	0.00194171	0.00374513	0.65465900	0.00395663
RelInt RSD	39.17101845	2.83863484	2.15880272	2.29250506	0.79616729	0.17791400	2.12964568
RelInt SD	0.00000603	0.00075738	0.00001147	0.00004451	0.00002982	0.00116473	0.00008426
Conc Mean	<0.00041309[mg/l]	2.74242000[mg/l]	0.03730200[mg/l]	0.01952550[mg/l]	0.01181210[mg/l]	25.15410000[mg/l]	0.02092650[mg/l]
Conc RSD	64.94502462	2.88783994	1.79060640	3.51714937	0.79681005	0.17902052	2.22035696
Conc SD	0.00026828[mg/l]	0.07919670[mg/l]	0.00066793[mg/l]	0.00068674[mg/l]	0.00009412[mg/l]	0.04503100[mg/l]	0.00046464[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	56873.1000000	1329580	99347000	12006.3000000	35105.8000000	2919170	16717.5000000
Int RSD	2.61285212	2.59843710	0.69551169	0.65891823	0.75482399	0.55580525	0.63456857
Int SD	1486.01000000	34548.3000000	690970	79.11170000	264.98700000	16224.9000000	106.08400000
RelInt Mean	0.01032260	0.02368440	28.59830000	0.00372208	0.01407980	0.83282800	0.00025686
RelInt RSD	5.24622673	3.05167959	0.35356297	3.40685853	0.82601315	0.56775589	21.03581314
RelInt SD	0.00054155	0.00072277	0.10111300	0.00012681	0.00011630	0.00472843	0.00005403
Conc Mean	0.06772000[mg/l]	0.81357800[mg/l]	>102.55000000[mg/l]	2.45864000[mg/l]	4.52044000[mg/l]	0.60706300[mg/l]	0.00219715[mg/l]
Conc RSD	5.27309510	3.06431590	0.35350073	4.24287411	0.78959128	0.56820462	19.26541201
Conc SD	0.00357094[mg/l]	0.02493060[mg/l]	0.36251500[mg/l]	0.10431700[mg/l]	0.03569300[mg/l]	0.00344936[mg/l]	0.00042329[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	104165	105705	255216	17873.2000000	13314.2000000	35738.7000000	44976.5000000
Int RSD	0.03548591	0.72323447	0.22536949	0.61695164	0.33700110	0.48989191	0.71955354
Int SD	36.96390000	764.49500000	575.17900000	110.26900000	44.86900000	175.08100000	323.63000000
RelInt Mean	0.07684370	0.02389740	0.06715690	0.00027553	-0.00010296	0.00595360	0.03086010
RelInt RSD	0.12274435	0.45305765	0.83581732	14.38666594	22.05075659	1.47117878	0.98096571
RelInt SD	0.00009432	0.00010827	0.00056131	0.00003964	0.00002270	0.00008759	0.00030273
Conc Mean	6.62053000[mg/l]	0.18594500[mg/l]	1.89437000[mg/l]	0.01613740[mg/l]	<-0.00935459[mg/l]	0.10704700[mg/l]	0.03052970[mg/l]
Conc RSD	0.129366034	0.45434456	0.83680590	15.02268023	17.74412347	1.50037834	1.03073401
Conc SD	0.00818697[mg/l]	0.00084483[mg/l]	0.01585220[mg/l]	0.00242427[mg/l]	0.00165989[mg/l]	0.00160611[mg/l]	0.00031468[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1302740	13293.9000000	37338.7000000	3499420	51532300	932681	38933300
Int RSD	5.10811060	0.63023718	0.94539713	1.02982780	0.63816480	0.28997053	0.67699373
Int SD	66545.4000000	83.78310000	352.99900000	36038.0000000	328861	2704.50000000	263576
RelInt Mean	0.02275800	-0.00021269	0.00010091	---	---	---	11.20500000
RelInt RSD	5.68371562	14.73670600	1.95312701	---	---	---	0.38032842
RelInt SD	0.00129350	0.00003134	0.00000197	---	---	---	0.04261580
Conc Mean	0.19908700[mg/l]	<0.01033620[mg/l]	0.01088780[mg/l]	3472830	51369400	914379	33.04880000[mg/l]
Conc RSD	5.69233551	23.68742865	2.82380279	---	---	---	0.38042228
Conc SD	0.01133270[mg/l]	0.00244838[mg/l]	0.00030745[mg/l]	35964.8000000	329120	2829.32000000	0.12572500[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9099.35000000	32212.5000000	1091150	116361	22257.8000000	144122	
Int RSD	0.51346525	0.69518044	0.96558677	0.21598732	0.61234713	0.30765948	
Int SD	46.72200000	223.93500000	10536.0000000	251.32500000	136.29500000	443.40500000	
RelInt Mean	-0.00006668	0.00007442	0.30706000	0.02992190	-0.00010052	0.03784960	
RelInt RSD	166.15874235	171.28068134	1.29931284	0.86365171	36.54102128	1.36177397	
RelInt SD	0.00011079	0.00012746	0.00398967	0.00025842	0.00003673	0.00051543	
Conc Mean	<0.00034958[mg/l]	<0.00307908[mg/l]	6.13464000[mg/l]	1.13376000[mg/l]	<-0.00118814[mg/l]	3.83904000[mg/l]	
Conc RSD	78.11961851	58.84907180	1.30210412	0.86587108	13.26729173	1.35877459	
Conc SD	0.00027309[mg/l]	0.00181201[mg/l]	0.07987940[mg/l]	0.00981690[mg/l]	0.00015763[mg/l]	0.05216390[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-016	Client ID: ARCH-C11E-INT-1.5 TO 2.5-231003-L-WF
Seqnum: 483399377211	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323757	Time: 05-OCT-2023 00:16
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.286	110	0.50		!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3547010	-5.27

!=warning -=low bias <=opening a=ICSA u=use

Sample Name: 493300-016,323757

Sample Type: Unknown Sample

Measure Date: 2023-10-05 00:16:10

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	121268	30519.7000000	12406.9000000	27756.8000000	32060.7000000	306653	32611.5000000
Int RSD	1.33812712	1.29410184	0.66062352	0.88678090	0.19400918	0.64587009	1.02510157
Int SD	1622.72000000	394.95600000	81.96290000	246.14200000	62.20070000	1980.58000000	334.30100000
RelInt Mean	0.00002620	0.01308770	-0.00012039	0.00159250	0.00281360	0.32482700	0.00336145
RelInt RSD	21.89405419	1.64172467	18.62192134	0.76754160	2.47987276	0.75601782	1.93217808
RelInt SD	0.00000574	0.00021486	0.00002242	0.00001222	0.00006977	0.00245575	0.00006495
Conc Mean	<0.00006745[mg/l]	1.32098000[mg/l]	<-0.00051567[mg/l]	0.01413820[mg/l]	0.00883348[mg/l]	12.39820000[mg/l]	0.01784800[mg/l]
Conc RSD	378.27200100	1.70111584	252.64754192	1.33379780	2.53345227	0.76633382	2.01244397
Conc SD	0.00025516[mg/l]	0.02247140[mg/l]	0.00130282[mg/l]	0.00018858[mg/l]	0.00022379[mg/l]	0.09501160[mg/l]	0.00035918[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	32770.8000000	507148	70374200	11503.4000000	31117.1000000	2365790	14866.3000000
Int RSD	2.27627949	2.60383557	0.85471238	0.70464645	0.40931835	0.69711175	1.26300424
Int SD	745.95500000	13205.3000000	601497	81.05830000	127.36800000	16492.2000000	187.76200000
RelInt Mean	0.00348122	0.00759748	19.97750000	0.00315297	0.00993660	0.66456300	0.00000810
RelInt RSD	4.87920901	3.73719970	0.38602628	1.40909365	1.77158183	1.16846108	121.63804990
RelInt SD	0.00016986	0.00028393	0.07711840	0.00004443	0.00017604	0.00776516	0.00000985
Conc Mean	0.02260750[mg/l]	0.25871100[mg/l]	71.63600000[mg/l]	1.99045000[mg/l]	3.24889000[mg/l]	0.48432000[mg/l]	<0.00024840[mg/l]
Conc RSD	4.95441778	3.78543626	0.38603356	1.83614760	1.66322960	1.16956351	31.07532206
Conc SD	0.00112007[mg/l]	0.00979334[mg/l]	0.27653900[mg/l]	0.03654760[mg/l]	0.05403650[mg/l]	0.00566443[mg/l]	0.00007719[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	88245.9000000	49074.6000000	306877	15953.9000000	12754.6000000	28452.0000000	34836.8000000
Int RSD	0.19201572	0.50375754	0.56760200	0.86034763	2.04795917	0.63805708	0.82056044
Int SD	169.44600000	247.21700000	1741.84000000	137.25900000	261.20900000	181.54000000	285.85700000
RelInt Mean	0.05952570	0.00759657	0.08098380	0.00007251	-0.00010789	0.00409356	0.01992150
RelInt RSD	0.74155365	0.80911253	0.21645440	52.73419561	55.05778874	0.47202679	2.09488241
RelInt SD	0.00044142	0.00006146	0.00017529	0.00003824	0.00005940	0.00001932	0.00041733
Conc Mean	5.11748000[mg/l]	0.05874460[mg/l]	2.28586000[mg/l]	<0.00405808[mg/l]	<-0.00971511[mg/l]	0.07294630[mg/l]	0.01915860[mg/l]
Conc RSD	7.48055984	0.81651420	0.21635489	57.15289004	44.70407437	0.48571758	2.26437736
Conc SD	0.03830740[mg/l]	0.00047966[mg/l]	0.00494557[mg/l]	0.00231931[mg/l]	0.00434305[mg/l]	0.00035431[mg/l]	0.00043382[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	725439	12582.9000000	35110.7000000	3547010	52381200	930608	16766200
Int RSD	7.55251648	0.70359218	1.94609051	0.49442488	0.84178866	0.82044212	0.56450955
Int SD	54788.9000000	88.53230000	683.28600000	17537.3000000	440939	7635.10000000	94646.8000000
RelInt Mean	0.01135400	-0.00021572	0.00005848	---	---	---	4.75669000
RelInt RSD	9.80764488	19.02855103	10.08045073	---	---	---	0.22896174
RelInt SD	0.00111356	0.00004105	0.00000590	---	---	---	0.01089100
Conc Mean	0.09917490[mg/l]	<-0.01031390[mg/l]	0.00426722[mg/l]	3521130	52219500	912387	14.02850000[mg/l]
Conc RSD	9.83688413	30.83974054	21.55979771	---	---	---	0.22901237
Conc SD	0.00975572[mg/l]	0.00318078[mg/l]	0.00092000[mg/l]	17527.0000000	441169	7553.84000000	0.03212700[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8815.78000000	32046.3000000	527036	97263.4000000	21700.0000000	142657	
Int RSD	1.22922759	0.65392885	1.81474510	0.42709488	0.56579263	0.31161107	
Int SD	108.36600000	209.56000000	9564.36000000	415.40700000	122.77700000	444.53500000	
RelInt Mean	-0.00033375	-0.00007405	0.14283700	0.02427130	0.00001585	0.03704010	
RelInt RSD	55.94796152	328.36171589	1.47937159	0.42318294	165.28008174	0.18573600	
RelInt SD	0.00018673	0.00024316	0.00211309	0.00010271	0.00002620	0.00006880	
Conc Mean	<-0.00030875[mg/l]	<0.00096844[mg/l]	2.84676000[mg/l]	0.91905000[mg/l]	<-0.00055876[mg/l]	3.75711000[mg/l]	
Conc RSD	149.07546858	356.93929012	1.48582248	0.42462652	18.97991800	0.18528869	
Conc SD	0.00046027[mg/l]	0.00345675[mg/l]	0.04229780[mg/l]	0.00390253[mg/l]	0.00010605[mg/l]	0.00696150[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-018	Client ID: ARCH-C8E-PS-2.5-231003-L-G
Seqnum: 483399377212	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323757	Time: 05-OCT-2023 00:19
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.08 ft2 ⇒ 50.0 ml = 46.18 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.435	110	0.50		U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3511200	-6.23

U=USE

Sample Name: 493300-018,323757

Sample Type: Unknown Sample

Measure Date: 2023-10-05 00:19:24

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	120936	30805.8000000	14032.0000000	28729.9000000	32818.9000000	293173	33373.2000000
Int RSD	0.26744228	0.23412572	0.92204960	0.48840059	0.97731185	0.81639510	0.73427481
Int SD	323.43400000	72.12430000	129.38200000	140.31700000	320.74300000	2393.45000000	245.05100000
RelInt Mean	0.00001062	0.01345730	0.00036761	0.00161583	0.00289807	0.30976900	0.00345760
RelInt RSD	71.87087542	2.06048762	1.75282164	2.59816317	0.22054540	0.70740455	0.95679951
RelInt SD	0.00000763	0.00027729	0.00000644	0.00004198	0.00000639	0.00219132	0.00003308
Conc Mean	<0.00062546[mg/l]	1.35962000[mg/l]	0.02781260[mg/l]	0.01449810[mg/l]	0.00910168[mg/l]	11.81580000[mg/l]	0.01836480[mg/l]
Conc RSD	54.29926326	2.13256645	1.34463157	4.46691635	0.23350085	0.71718377	1.01169629
Conc SD	0.00033962[mg/l]	0.02899480[mg/l]	0.00037398[mg/l]	0.00064762[mg/l]	0.00002125[mg/l]	0.08474100[mg/l]	0.00018580[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	38927.8000000	469270	106903000	11769.0000000	31468.7000000	3414350	15935.0000000
Int RSD	0.64368909	2.68201675	0.42505823	1.01547285	1.00597101	0.48376118	1.03401318
Int SD	250.57400000	12585.9000000	454400	119.51100000	316.56600000	16517.3000000	164.77000000
RelInt Mean	0.00510145	0.00695324	30.67030000	0.00340939	0.01032060	0.97197600	0.0009622
RelInt RSD	0.88159249	3.83337840	0.45662742	2.46864102	3.65315970	0.22684716	31.78228832
RelInt SD	0.00004497	0.00026654	0.14004900	0.00008417	0.00037703	0.00220490	0.00003058
Conc Mean	0.03329150[mg/l]	0.23649000[mg/l]	>109.98000000[mg/l]	2.20140000[mg/l]	3.36673000[mg/l]	0.70856800[mg/l]	<0.00093870[mg/l]
Conc RSD	0.89065677	3.88747516	0.45669304	3.14533479	3.43680663	0.22699727	25.52053205
Conc SD	0.00029651[mg/l]	0.00919349[mg/l]	0.50227100[mg/l]	0.06924140[mg/l]	0.11570800[mg/l]	0.00160843[mg/l]	0.00023956[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	97457.2000000	53114.9000000	322733	17926.8000000	12965.8000000	22548.9000000	34725.3000000
Int RSD	0.51961887	0.34615146	0.49761568	1.02265323	1.04692344	0.36384923	0.50878178
Int SD	506.40600000	183.85800000	1605.97000000	183.32900000	135.74200000	82.04400000	176.67600000
RelInt Mean	0.06959940	0.00872142	0.08631270	0.00037654	-0.00008271	0.00250388	0.01966740
RelInt RSD	0.43827246	1.02011714	0.36370662	1.32108484	13.45825082	0.88798585	1.43392619
RelInt SD	0.00030504	0.00008897	0.00031393	0.00000497	0.00001113	0.00002223	0.00028202
Conc Mean	5.99179000[mg/l]	0.06752210[mg/l]	2.43519000[mg/l]	0.02248030[mg/l]	<-0.00787401[mg/l]	0.04380200[mg/l]	0.01889450[mg/l]
Conc RSD	0.44183458	1.02816263	0.36369236	1.35313141	10.33563585	0.93077028	1.55161555
Conc SD	0.02647380[mg/l]	0.00069424[mg/l]	0.00885660[mg/l]	0.00030419[mg/l]	0.00081383[mg/l]	0.00040770[mg/l]	0.00029317[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	746319	12709.4000000	38112.5000000	3511200	51738700	931419	35015900
Int RSD	3.00316621	1.03495051	1.56001837	0.70722830	0.71367854	0.54052902	0.58144443
Int SD	22413.2000000	131.53600000	594.56200000	24832.2000000	369248	5034.59000000	203598
RelInt Mean	0.01190630	-0.00016474	0.00010807	---	---	---	10.04330000
RelInt RSD	4.23280952	23.88221154	3.88383240	---	---	---	0.58480778
RelInt SD	0.00050397	0.00003934	0.00000420	---	---	---	0.05873400
Conc Mean	0.10401400[mg/l]	<0.00636663[mg/l]	0.01200520[mg/l]	3484520	51576400	913179	29.62210000[mg/l]
Conc RSD	4.24490934	47.96132334	5.45661880	---	---	---	0.58477286
Conc SD	0.00441530[mg/l]	0.00305352[mg/l]	0.00065508[mg/l]	24775.3000000	370021	5113.45000000	0.17322200[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8862.44000000	32193.1000000	563155	95746.2000000	22062.9000000	142977	
Int RSD	1.90101146	0.49918461	0.90288109	0.37482219	1.02344207	0.26839492	
Int SD	168.47600000	160.70300000	5084.62000000	358.87800000	225.80100000	383.74300000	
RelInt Mean	-0.00027077	0.00005228	0.15433300	0.02410890	-0.00016634	0.03751170	
RelInt RSD	47.78836886	347.28131121	1.62469465	0.37378437	9.96513187	0.60104981	
RelInt SD	0.00012940	0.00018154	0.00250744	0.00009012	0.00001658	0.00022546	
Conc Mean	<0.00015351[mg/l]	<0.00276430[mg/l]	3.07690000[mg/l]	0.91288000[mg/l]	<-0.00143177[mg/l]	3.80484000[mg/l]	
Conc RSD	207.78005055	93.36070615	1.63133349	0.37525852	4.79773986	0.59962837	
Conc SD	0.00031896[mg/l]	0.00258077[mg/l]	0.05019450[mg/l]	0.00342566[mg/l]	0.00006869[mg/l]	0.02281490[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-020	Client ID: ARCH-C10E-PS-2.5-231003-L-G
Seqnum: 483399377189	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 23:04
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.11 ft2 ⇒ 50.0 ml = 45.03 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	4.249	190	0.50		U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3517950	-6.05

U=USE

Sample Name: 493300-020,323756

Sample Type: Unknown Sample

Measure Date: 2023-10-04 23:04:48

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	118593	44636.7000000	13022.2000000	28787.1000000	35740.4000000	333494	30659.7000000
Int RSD	1.17802906	0.27207656	0.93664665	1.27941335	0.38817417	1.36021937	1.02957302
Int SD	1397.06000000	121.44600000	121.97200000	368.30600000	138.73500000	4536.25000000	315.66400000
RelInt Mean	0.00002348	0.02804320	-0.00001672	0.00190539	0.00392630	0.34868500	0.00285401
RelInt RSD	57.14583821	1.61533277	91.31836452	2.22646282	2.81127270	0.30458150	1.84491995
RelInt SD	0.00001342	0.00045299	0.00001527	0.00004242	0.00011038	0.00106203	0.00005265
Conc Mean	<0.00005341[mg/l]	2.88486000[mg/l]	0.00549082[mg/l]	0.01896520[mg/l]	0.01239990[mg/l]	13.32080000[mg/l]	0.01485470[mg/l]
Conc RSD	1117.72955625	1.64178504	16.14656827	3.45060426	2.85193429	0.30821197	1.86231294
Conc SD	0.00059694[mg/l]	0.04736320[mg/l]	0.00088658[mg/l]	0.00065441[mg/l]	0.00035364[mg/l]	0.04105630[mg/l]	0.00027664[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	40570.6000000	319559	83571800	12077.6000000	35511.5000000	2904770	15126.3000000
Int RSD	0.97067827	2.16511818	0.82124951	0.72508280	0.44119792	0.11363206	1.25835135
Int SD	393.81000000	6918.83000000	686333	87.57260000	156.67600000	3300.75000000	190.34200000
RelInt Mean	0.00578681	0.00410840	23.92420000	0.00380404	0.01443680	0.82435100	0.00001147
RelInt RSD	1.54129304	2.52825918	1.50096555	2.39885490	1.02801175	0.58129122	52.40126616
RelInt SD	0.00008919	0.00010387	0.35909400	0.00009125	0.00014841	0.00479188	0.00000601
Conc Mean	0.03781080[mg/l]	0.13836600[mg/l]	85.78870000[mg/l]	2.52605000[mg/l]	4.63003000[mg/l]	0.60088100[mg/l]	<0.00027478[mg/l]
Conc RSD	1.55543654	2.58917653	1.50108348	2.97189683	0.98382732	0.58172084	17.13221995
Conc SD	0.00058812[mg/l]	0.00358254[mg/l]	1.28776000[mg/l]	0.07507160[mg/l]	0.04555150[mg/l]	0.00349545[mg/l]	0.00004708[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	101365	44533.5000000	547577	16268.6000000	12845.8000000	21330.2000000	37632.7000000
Int RSD	0.71655009	0.87879911	0.46208478	0.73292109	0.82597425	0.38269074	0.11232864
Int SD	726.33100000	391.36000000	2530.27000000	119.23600000	106.10300000	81.62870000	42.27230000
RelInt Mean	0.07293110	0.00643833	0.15056400	0.00010342	-0.00010888	0.00193446	0.02255530
RelInt RSD	0.87255780	1.70376480	0.96009670	17.45356090	34.55625052	1.87782120	1.67355344
RelInt SD	0.00063637	0.00010969	0.00144556	0.00001805	0.00003762	0.00003633	0.00037748
Conc Mean	6.28095000[mg/l]	0.04970640[mg/l]	4.24865000[mg/l]	0.00584776[mg/l]	<-0.00978724[mg/l]	0.03336250[mg/l]	0.02189650[mg/l]
Conc RSD	0.87933672	1.72209011	0.95975192	18.72067253	28.10567637	1.99623829	1.79214030
Conc SD	0.05523070[mg/l]	0.00085599[mg/l]	0.04077650[mg/l]	0.00109474[mg/l]	0.00275077[mg/l]	0.00066599[mg/l]	0.00039242[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1479390	13030.1000000	36824.7000000	3517950	51728900	945264	21411200
Int RSD	8.95788129	0.86064574	1.83494774	0.68501542	0.70594194	1.54409773	0.88210843
Int SD	132522	112.14300000	675.71400000	24098.5000000	365176	14595.8000000	188870
RelInt Mean	0.02614250	-0.00019815	0.00010126	---	---	---	6.12635000
RelInt RSD	8.99156546	18.11252195	6.89796563	---	---	---	1.55252149
RelInt SD	0.00235062	0.00003589	0.00000698	---	---	---	0.09511290
Conc Mean	0.22873900[mg/l]	<-0.00927613[mg/l]	0.01094300[mg/l]	3492150	51571000	926931	18.06850000[mg/l]
Conc RSD	9.00318704	30.59519433	9.96180207	---	---	---	1.55271329
Conc SD	0.02059380[mg/l]	0.00283805[mg/l]	0.00109012[mg/l]	24006.3000000	365327	14547.5000000	0.28055200[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8988.63000000	31924.7000000	1070290	116520	21625.0000000	150952	
Int RSD	2.95525570	0.43041595	0.54437956	0.45987041	0.74447630	0.77499470	
Int SD	265.63700000	137.40900000	5826.44000000	535.84100000	160.99300000	1169.87000000	
RelInt Mean	-0.00024299	-0.00001666	0.29963600	0.02990950	-0.00003196	0.03966030	
RelInt RSD	122.13863293	899.69267338	0.68695684	0.86950969	68.04770755	1.26945081	
RelInt SD	0.00029678	0.00014989	0.00205837	0.00026007	0.00002175	0.00050347	
Conc Mean	<-0.00008502[mg/l]	<0.00178433[mg/l]	5.98604000[mg/l]	1.13329000[mg/l]	<-0.00078268[mg/l]	4.02228000[mg/l]	
Conc RSD	860.48390891	119.41513061	0.68849356	0.87195863	11.40853582	1.26674672	
Conc SD	0.00073155[mg/l]	0.00213076[mg/l]	0.04121350[mg/l]	0.00988182[mg/l]	0.00008929[mg/l]	0.05095210[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-022	Client ID: ARCH-C8E-DG-3 TO 3.5-231003-L-FB
Seqnum: 483399377192	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 23:14
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.019	100	0.50		!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3491870	-6.75

!=warning -=low bias <=opening a=ICSA u=use

Sample Name: 493300-022,323756

Sample Type: Unknown Sample

Measure Date: 2023-10-04 23:14:30

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	116717	42063.3000000	12872.8000000	27615.0000000	33382.7000000	274537	30942.4000000
Int RSD	0.63154639	1.48263213	0.72184063	0.57778381	0.33597043	0.07995279	0.85015707
Int SD	737.12200000	623.64400000	92.92110000	159.55500000	112.15600000	219.50000000	263.05900000
RelInt Mean	0.00003306	0.02604390	0.00006243	0.00183068	0.00343034	0.28837400	0.00309737
RelInt RSD	14.08586700	1.12898222	21.05486577	2.07286364	3.27060874	0.46390451	0.10695396
RelInt SD	0.00000466	0.00029403	0.00001314	0.00003795	0.00011219	0.00133778	0.00000331
Conc Mean	<0.00037262[mg/l]	2.67578000[mg/l]	0.01008070[mg/l]	0.01781260[mg/l]	0.01080330[mg/l]	10.98840000[mg/l]	0.01626480[mg/l]
Conc RSD	55.59300837	1.14914156	7.57303560	3.28622997	3.30641563	0.47105584	0.09720624
Conc SD	0.00020715[mg/l]	0.03074850[mg/l]	0.00076341[mg/l]	0.00058536[mg/l]	0.00035720[mg/l]	0.05176150[mg/l]	0.00001581[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	43486.2000000	580673	56876900	11526.8000000	34007.1000000	2782890	14887.9000000
Int RSD	1.93127245	2.74104358	0.79593121	1.80281605	1.69324347	0.93566760	1.06436099
Int SD	839.83700000	15916.5000000	452701	207.80700000	575.82300000	26038.6000000	158.46100000
RelInt Mean	0.00684002	0.00917559	16.39750000	0.00351462	0.01344660	0.79555900	0.00024971
RelInt RSD	2.15130950	3.64294830	0.30004818	0.37644183	2.04629423	0.63359726	34.23711980
RelInt SD	0.00014715	0.00033426	0.04920040	0.00001323	0.00027516	0.00504064	0.00008549
Conc Mean	0.04475580[mg/l]	0.31314200[mg/l]	58.79780000[mg/l]	2.28797000[mg/l]	4.32611000[mg/l]	0.57987800[mg/l]	0.00214109[mg/l]
Conc RSD	2.16799834	3.68181209	0.30018980	0.47586725	1.95234749	0.63415925	31.27976872
Conc SD	0.00097030[mg/l]	0.01152930[mg/l]	0.17650500[mg/l]	0.01088770[mg/l]	0.08446070[mg/l]	0.00367735[mg/l]	0.00066973[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	95611.2000000	80778.1000000	269024	15300.9000000	12337.0000000	27494.5000000	33507.5000000
Int RSD	0.84285732	0.74380309	0.78048799	0.90232601	2.17193807	1.61908745	1.04448556
Int SD	805.86600000	600.83000000	2099.70000000	138.06400000	267.95200000	445.16000000	349.98100000
RelInt Mean	0.06790620	0.01709130	0.07153000	0.00011221	-0.00011729	0.00392188	0.01874390
RelInt RSD	0.89958796	0.15595712	0.66613589	5.87062304	42.06657231	4.95754587	0.96064853
RelInt SD	0.00061088	0.00002666	0.00047649	0.00000659	0.00004934	0.00019443	0.00018006
Conc Mean	5.84483000[mg/l]	0.13283600[mg/l]	2.01900000[mg/l]	0.00634159[mg/l]	<-0.01040180[mg/l]	0.06979870[mg/l]	0.01793440[mg/l]
Conc RSD	0.90705974	0.15640338	0.66594354	6.34951172	34.67842104	5.10681431	1.04356990
Conc SD	0.05301610[mg/l]	0.00020776[mg/l]	0.01344540[mg/l]	0.00040266[mg/l]	0.00360718[mg/l]	0.00356449[mg/l]	0.00018716[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1200210	12447.1000000	35356.6000000	3491870	51809500	935356	2905160
Int RSD	1.75121854	1.33604615	0.82910687	0.87978934	0.84117585	0.55112064	0.93752496
Int SD	21018.3000000	166.29900000	293.14400000	30721.1000000	435809	5154.94000000	27236.6000000
RelInt Mean	0.02074220	-0.00019770	0.00009614	---	---	---	0.83375100
RelInt RSD	2.47163271	7.42311583	5.64146143	---	---	---	0.37821964
RelInt SD	0.00051267	0.00001468	0.00000542	---	---	---	0.00315341
Conc Mean	0.18142600[mg/l]	<-0.00912670[mg/l]	0.01014350[mg/l]	3466940	51653500	917480	2.45725000[mg/l]
Conc RSD	2.47579178	12.37676269	8.34585695	---	---	---	0.37858989
Conc SD	0.00449173[mg/l]	0.00112959[mg/l]	0.00084656[mg/l]	30445.0000000	435770	5104.09000000	0.00930290[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8661.80000000	31404.3000000	1017410	110278	20990.4000000	131673	
Int RSD	1.76095038	0.93239142	0.57735426	0.01735595	1.10297088	0.54356246	
Int SD	152.53000000	292.81100000	5874.06000000	19.13980000	231.51800000	715.72500000	
RelInt Mean	-0.00029410	-0.00003488	0.28659200	0.02844990	0.00002435	0.03450900	
RelInt RSD	17.59717783	194.79899541	0.36868789	0.99157115	146.43515686	0.84991452	
RelInt SD	0.00005175	0.00006795	0.00105663	0.00028210	0.00003566	0.00029330	
Conc Mean	<-0.00021101[mg/l]	<-0.00152533[mg/l]	5.72485000[mg/l]	1.07782000[mg/l]	<-0.00056141[mg/l]	3.50097000[mg/l]	
Conc RSD	60.45666299	63.32373978	0.36926382	0.99426620	27.28007894	0.84790787	
Conc SD	0.00012757[mg/l]	0.00096590[mg/l]	0.02113980[mg/l]	0.01071640[mg/l]	0.00015315[mg/l]	0.02968500[mg/l]	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET06	Lab ID: 493300-024	Client ID: ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-L-LA
Seqnum: 483399377193	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 23:17
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.04 ft2 ⇒ 50.0 ml = 48.08 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.080	52	0.50		U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	3744470	3535970	-5.57

U=USE

Sample Name: 493300-024,323756

Sample Type: Unknown Sample

Measure Date: 2023-10-04 23:17:45

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	118557	29301.6000000	12736.2000000	26649.7000000	31920.0000000	225830	26085.0000000
Int RSD	0.45172955	0.06657145	1.91256419	1.06646229	0.80831140	0.47529115	1.42527506
Int SD	535.55700000	19.50650000	243.58800000	284.20900000	258.01300000	1073.35000000	371.78300000
RelInt Mean	0.00001283	0.01175280	0.00014754	0.00151397	0.00292383	0.23193500	0.00158863
RelInt RSD	40.73816297	1.11569158	16.27287515	1.28809686	0.66849988	0.45722293	0.34055129
RelInt SD	0.00000523	0.00013113	0.00002401	0.00001950	0.00001955	0.00106046	0.00000541
Conc Mean	<0.00052722[mg/l]	1.18140000[mg/l]	0.01504440[mg/l]	0.01292680[mg/l]	0.00918911[mg/l]	8.80564000[mg/l]	0.00817740[mg/l]
Conc RSD	44.10315938	1.16108007	9.26823270	2.32704923	0.67729954	0.46579806	0.36441045
Conc SD	0.00023252[mg/l]	0.01371700[mg/l]	0.00139435[mg/l]	0.00030081[mg/l]	0.00006224[mg/l]	0.04101650[mg/l]	0.00002980[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	31075.1000000	1004070	46357500	11758.0000000	31332.6000000	1355700	14890.7000000
Int RSD	0.62783386	3.14884420	1.10394435	0.64920565	1.02648041	0.76721989	0.89305405
Int SD	195.10000000	31616.6000000	511761	76.33360000	321.62300000	10401.2000000	132.98200000
RelInt Mean	0.00320925	0.01721950	13.19670000	0.00342078	0.01010210	0.37911200	-0.00007246
RelInt RSD	0.98682247	4.25246958	0.80349633	3.26855279	3.13667455	0.19632773	37.51402511
RelInt SD	0.00003167	0.00073225	0.10603500	0.00011181	0.00031687	0.00074430	0.00002718
Conc Mean	0.02081400[mg/l]	0.59059300[mg/l]	47.31980000[mg/l]	2.21077000[mg/l]	3.29969000[mg/l]	0.27609400[mg/l]	<-0.00038270[mg/l]
Conc RSD	1.00319496	4.27636291	0.80371219	4.16073585	2.94708594	0.19660587	55.64300553
Conc SD	0.00020881[mg/l]	0.02525590[mg/l]	0.38031500[mg/l]	0.09198430[mg/l]	0.09724470[mg/l]	0.00054282[mg/l]	0.00021294[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	103899	62194.3000000	155313	16609.6000000	12385.4000000	23311.2000000	31798.7000000
Int RSD	0.33090213	1.03112986	0.55394655	0.50613681	1.61892228	0.59744672	0.77031136
Int SD	343.80400000	641.30400000	860.35100000	84.06730000	200.51000000	139.27200000	244.94900000
RelInt Mean	0.07527160	0.01149080	0.03822390	-0.00004207	-0.00005797	0.00288334	0.01627520
RelInt RSD	0.89500954	0.53783549	0.58592661	134.77694469	5.01623259	2.57730965	1.80761527
RelInt SD	0.00067369	0.00006180	0.00022396	0.00005669	0.00000291	0.00007431	0.00029419
Conc Mean	6.48409000[mg/l]	0.08913210[mg/l]	1.07982000[mg/l]	<-0.00289796[mg/l]	<-0.00606518[mg/l]	0.05075880[mg/l]	0.01536810[mg/l]
Conc RSD	0.90173332	0.54089604	0.58515123	118.92848763	3.50528756	2.68408631	1.98979054
Conc SD	0.05846920[mg/l]	0.00048211[mg/l]	0.00631858[mg/l]	0.00344650[mg/l]	0.00021260[mg/l]	0.00136241[mg/l]	0.00030579[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	686994	11983.7000000	33742.7000000	3535970	52152800	947996	60630300
Int RSD	0.49647013	1.19483966	1.55217277	0.67404135	0.77949218	0.47777944	1.16202295
Int SD	3410.72000000	143.18600000	523.74500000	23833.9000000	406527	4529.33000000	704538
RelInt Mean	0.01070310	-0.00021609	0.00005374	---	---	---	17.26370000
RelInt RSD	0.76022648	6.99770464	2.52544199	---	---	---	0.98964301
RelInt SD	0.00008137	0.00001512	0.00000136	---	---	---	0.17084900
Conc Mean	0.09347200[mg/l]	<-0.01032650[mg/l]	0.00352726[mg/l]	3510690	51994800	929749	>50.91980000[mg/l]
Conc RSD	0.76258773	11.37587760	6.00347012	---	---	---	0.98968574
Conc SD	0.00071281[mg/l]	0.00117473[mg/l]	0.00021176[mg/l]	23631.3000000	406471	4645.75000000	0.50394600[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8959.68000000	31968.7000000	486591	93169.9000000	21206.6000000	139972	
Int RSD	2.20397380	1.53629957	1.16993944	0.69345035	1.88870446	0.72188723	
Int SD	197.46900000	491.13500000	5692.82000000	646.08700000	400.53000000	1010.44000000	
RelInt Mean	-0.00023691	-0.00003008	0.13191300	0.02333230	0.00005326	0.03649320	
RelInt RSD	79.03152279	1081.14154644	1.93758765	0.27245535	42.35104821	0.80109445	
RelInt SD	0.00018723	0.00032523	0.00255593	0.00006357	0.00002256	0.00029235	
Conc Mean	<-0.00007003[mg/l]	<-0.00159353[mg/l]	2.62808000[mg/l]	0.88337200[mg/l]	<-0.00045728[mg/l]	3.70177000[mg/l]	
Conc RSD	659.00731094	290.13448131	1.94675200	0.27353708	20.67898575	0.79926089	
Conc SD	0.00046152[mg/l]	0.00462338[mg/l]	0.05116220[mg/l]	0.00241635[mg/l]	0.00009456[mg/l]	0.02958680[mg/l]	

ENTHALPY BLANK USER REPORT FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	Lab ID: QC1097962	
Seqnum: 483399377180.1	Matrix: Wipe	
File: met06_master011	Batch: 323756	Time: 04-OCT-2023 22:35
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.00 ft2 $\Rightarrow$ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Flags
Lead	A	0.0007115	ND	0.50	!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BLANK Abund	%Drift
Yttrium	A	3744470	3682250	-1.66

!=warning -=low bias <=opening a=ICSA u=use

Sample Name: BLANK,QC1097962,323756 Sample Type: Unknown Sample

Measure Date: 2023-10-04 22:35:36 Recalculation Date: State: Measured Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	119084	20272.4000000	9459.19000000	24880.1000000	20815.6000000	15386.4000000	19927.4000000
Int RSD	1.81327466	1.59897200	0.83914796	0.61964783	0.22780223	3.27276686	0.22763381
Int SD	2159.32000000	324.15000000	79.37660000	154.16900000	47.41840000	503.56100000	45.36150000
RelInt Mean	0.00004818	0.00137384	-0.00014230	0.00131848	0.00004337	0.00477330	0.00003422
RelInt RSD	13.47932399	10.71194608	6.83993198	5.34552667	96.24008835	6.18567867	57.71061838
RelInt SD	0.00000649	0.00014716	0.00000973	0.00007048	0.00004174	0.00029526	0.00001975
Conc Mean	<0.00104518[mg/l]	<0.09608550[mg/l]	<-0.00176874[mg/l]	0.00991089[mg/l]	<-0.00004584[mg/l]	<0.02037420[mg/l]	<-0.00015354[mg/l]
Conc RSD	27.63964102	16.01584006	31.96495811	10.97086135	291.35546636	56.04539074	70.12856752
Conc SD	0.00028888[mg/l]	0.01538890[mg/l]	0.00056538[mg/l]	0.00108731[mg/l]	0.00013357[mg/l]	0.01141880[mg/l]	0.00010767[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	19478.3000000	112759	186980	9994.60000000	22081.8000000	27714.7000000	12602.1000000
Int RSD	0.98386409	1.68087691	0.44509359	3.73632762	2.52867067	0.48181290	0.41593782
Int SD	191.64000000	1895.34000000	832.23600000	373.43100000	558.37600000	133.53300000	52.41690000
RelInt Mean	0.00011242	0.00012912	0.04460080	0.00075340	-0.00088216	0.00132075	0.00001247
RelInt RSD	25.38036613	21.43595105	0.47476278	23.85562574	14.01410854	2.30620481	93.74518799
RelInt SD	0.00002853	0.00002768	0.00021175	0.00017973	0.00012363	0.00003046	0.00001169
Conc Mean	<0.00039313[mg/l]	<0.00111389[mg/l]	0.15609600[mg/l]	<0.01642690[mg/l]	<-0.07142710[mg/l]	0.00050777[mg/l]	<0.00028262[mg/l]
Conc RSD	47.85819305	85.70523122	0.48623027	900.08461730	53.12031428	4.37605363	32.40020098
Conc SD	0.00018814[mg/l]	0.00095466[mg/l]	0.00075899[mg/l]	0.14785600[mg/l]	0.03794230[mg/l]	0.00002222[mg/l]	0.00009157[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	36292.1000000	21300.1000000	20064.9000000	13808.8000000	10919.2000000	15371.4000000	18014.4000000
Int RSD	2.10607818	0.77872874	0.78557082	0.86390563	0.45415873	0.94429915	2.05438427
Int SD	764.34000000	165.87000000	157.62400000	119.29500000	49.59050000	145.15200000	370.08500000
RelInt Mean	0.00120278	0.00011809	-0.00007046	0.00002615	-0.00000488	0.00157406	0.00027557
RelInt RSD	17.11202381	29.07640588	31.61032104	95.14371157	186.55820724	3.37837185	38.46036607
RelInt SD	0.00020582	0.00003434	0.00002227	0.00002488	0.00000910	0.00005318	0.00010599
Conc Mean	<0.05558040[mg/l]	<0.00038756[mg/l]	<0.00071147[mg/l]	<0.00136942[mg/l]	<-0.00218354[mg/l]	0.02675510[mg/l]	<-0.00126401[mg/l]
Conc RSD	32.13992702	69.13641090	88.37317824	110.49349360	30.46662759	3.64394826	8.71614940
Conc SD	0.01786350[mg/l]	0.00026794[mg/l]	0.00062875[mg/l]	0.00151312[mg/l]	0.00066525[mg/l]	0.00097494[mg/l]	0.00011017[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	144497	9955.32000000	31487.9000000	3682250	55448100	1026950	15358.0000000
Int RSD	1.36935715	0.41110683	2.16638455	0.13249019	0.53699045	0.73592872	0.39758237
Int SD	1978.68000000	40.92700000	682.14900000	4878.62000000	297751	7557.62000000	61.06070000
RelInt Mean	0.00027447	-0.00012077	0.00003432	---	---	---	0.00057467
RelInt RSD	4.21126843	5.53311639	1.57595289	---	---	---	5.02072479
RelInt SD	0.00001156	0.00000668	0.00000054	---	---	---	0.00002885
Conc Mean	0.00210550[mg/l]	<-0.00269145[mg/l]	<0.00049623[mg/l]	3658350	55288600	1007580	<-0.00029239[mg/l]
Conc RSD	4.80959392	19.28153969	17.00523552	---	---	---	29.11015804
Conc SD	0.00010127[mg/l]	0.00051895[mg/l]	0.00008438[mg/l]	5003.46000000	300000	7620.80000000	0.00008511[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9450.96000000	33105.7000000	91182.0000000	11251.1000000	20448.2000000	11197.8000000	
Int RSD	3.25901284	1.42687815	5.35612292	0.95829741	0.71091343	0.97054779	
Int SD	308.00800000	472.37800000	4883.82000000	107.81900000	145.36900000	108.68000000	
RelInt Mean	-0.00025742	-0.00035798	0.01912150	0.00068792	0.00020482	0.00028730	
RelInt RSD	77.13222412	24.56172010	6.93873389	2.76734771	15.49105574	12.43323112	
RelInt SD	0.00019855	0.00008793	0.00132679	0.00001904	0.00003173	0.00003572	
Conc Mean	<-0.00012059[mg/l]	<-0.00306777[mg/l]	0.36984500[mg/l]	0.02295450[mg/l]	<0.00024438[mg/l]	0.03769630[mg/l]	
Conc RSD	405.86040186	40.74425397	7.18217091	3.15122089	54.21890857	9.58948226	
Conc SD	0.00048942[mg/l]	0.00124994[mg/l]	0.02656290[mg/l]	0.00072335[mg/l]	0.00013250[mg/l]	0.00361488[mg/l]	

ENTHALPY BLANK USER REPORT FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	Lab ID: QC1097965	
Seqnum: 483399377207.1	Matrix: Wipe	
File: met06_master011	Batch: 323757	Time: 05-OCT-2023 00:03
Cal: 483399377001	Caldate: 04-OCT-2023	
IDF: 1.0	Raw Units: mg/l	Units: ug/ft2

- 1.00 ft2 $\Rightarrow$ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Flags
Lead	A	0.0007200	ND	0.50	!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BLANK Abund	%Drift
Yttrium	A	3744470	3599280	-3.88

!=warning -=low bias <=opening a=ICSA u=use

Sample Name: BLANK,QC1097965,323757					Sample Type: Unknown Sample		
Measure Date: 2023-10-05 00:03:09			Recalculation Date:		State: Measured		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	123733	18663.8000000	9802.80000000	21464.7000000	25903.3000000	14721.3000000	20393.9000000
Int RSD	0.80367081	0.47306229	0.73216836	0.49033529	0.56785429	0.75866262	0.38366423
Int SD	994.40600000	88.29140000	71.77300000	105.24900000	147.09300000	111.68500000	78.24410000
RelInt Mean	0.00004782	0.00031086	-0.00014182	0.00022783	0.00131667	0.00480707	0.00001882
RelInt RSD	14.34376745	20.89751302	5.49630862	7.30705924	2.50952782	2.96082645	60.52916857
RelInt SD	0.00000686	0.00006496	0.00000779	0.00001665	0.00003304	0.00014233	0.00001139
Conc Mean	<0.00102934[mg/l]	<0.01506840[mg/l]	<0.00174064[mg/l]	<0.00691485[mg/l]	0.00403713[mg/l]	<0.02168010[mg/l]	<0.00023465[mg/l]
Conc RSD	29.64433521	45.08089777	26.00572203	3.71407912	2.59528427	25.38950466	26.62213187
Conc SD	0.00030514[mg/l]	0.00679297[mg/l]	0.00045267[mg/l]	0.00025682[mg/l]	0.00010477[mg/l]	0.00550447[mg/l]	0.00006247[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	20061.8000000	117387	48686.7000000	9727.75000000	21537.4000000	41074.2000000	12798.0000000
Int RSD	0.99309633	1.10339305	0.51156887	0.78205649	0.45440211	0.56372370	0.58354509
Int SD	199.23300000	1295.24000000	249.06600000	76.07650000	97.86640000	231.54500000	74.68210000
RelInt Mean	0.00012526	0.00013458	0.00677404	0.00079876	-0.00107610	0.00490873	-0.00004936
RelInt RSD	30.80004790	12.14825493	0.38313178	15.67752315	11.65663042	0.71258961	84.82961474
RelInt SD	0.00003858	0.00001635	0.00002595	0.00012522	0.00012544	0.00003498	0.00004188
Conc Mean	<0.00047778[mg/l]	<0.00130219[mg/l]	0.02044860[mg/l]	<0.05373620[mg/l]	<0.13094700[mg/l]	0.00312508[mg/l]	<0.00020177[mg/l]
Conc RSD	53.24513319	43.30335819	0.45515145	191.70875499	29.39922259	0.81649750	162.58189856
Conc SD	0.00025439[mg/l]	0.00056389[mg/l]	0.00009307[mg/l]	0.10301700[mg/l]	0.03849740[mg/l]	0.00002552[mg/l]	0.00032805[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	35653.3000000	21985.5000000	20613.5000000	14213.5000000	11276.6000000	14176.0000000	17590.1000000
Int RSD	0.46921603	0.24017648	1.05624955	0.18261160	0.77868773	0.50540914	0.56731514
Int SD	167.29100000	52.80400000	217.73000000	25.95550000	87.80950000	71.64680000	99.79130000
RelInt Mean	0.00065608	0.00012784	-0.00007148	-0.00000221	-0.00000654	0.00118071	0.00033868
RelInt RSD	23.91807669	14.84672366	46.94269815	1400.02811383	138.51177191	1.90149148	13.63577848
RelInt SD	0.00015692	0.00001898	0.00003356	0.00003088	0.00000905	0.00002245	0.00004618
Conc Mean	<0.00813155[mg/l]	<0.00046363[mg/l]	<0.00072004[mg/l]	<0.00035509[mg/l]	<0.00230488[mg/l]	0.01954380[mg/l]	<0.00119841[mg/l]
Conc RSD	167.48713345	31.94587040	131.53792631	528.91777647	28.72166881	2.10624853	4.00592452
Conc SD	0.01361930[mg/l]	0.00014811[mg/l]	0.00094713[mg/l]	0.00187815[mg/l]	0.00066200[mg/l]	0.00041164[mg/l]	0.00004801[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	139302	10286.2000000	33129.3000000	3599280	53538300	950196	23763.0000000
Int RSD	0.20744067	0.33454920	0.93945239	0.52878631	0.59817364	0.64364510	0.67019316
Int SD	288.96900000	34.41240000	311.23400000	19032.5000000	320252	6115.89000000	159.25800000
RelInt Mean	0.00007669	-0.00011749	0.00003272	---	---	---	0.00281753
RelInt RSD	23.79550279	7.54612229	17.15325634	---	---	---	2.13566138
RelInt SD	0.00001825	0.00000887	0.00000561	---	---	---	0.00006017
Conc Mean	<0.00037275[mg/l]	<0.00243102[mg/l]	<0.00024719[mg/l]	3574720	53374900	931297	0.00632318[mg/l]
Conc RSD	42.89113766	28.34818307	354.31673740	---	---	---	2.80732163
Conc SD	0.00015988[mg/l]	0.00068915[mg/l]	0.00087583[mg/l]	19034.7000000	320485	6192.61000000	0.00017751[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9207.19000000	33078.0000000	35043.1000000	10998.6000000	21004.8000000	10962.4000000	
Int RSD	1.63387526	1.25997642	0.48806470	1.26822505	0.84746344	0.78178136	
Int SD	150.43400000	416.77500000	171.03300000	139.48700000	178.00800000	85.70200000	
RelInt Mean	-0.00026095	-0.00021015	0.00372123	0.00053431	0.00018668	0.00013301	
RelInt RSD	20.48721231	128.87495182	2.73777756	6.92446764	26.97454413	5.98415204	
RelInt SD	0.00005346	0.00027083	0.00010188	0.00003700	0.00005036	0.00000796	
Conc Mean	<0.00012930[mg/l]	<0.00096628[mg/l]	0.06152560[mg/l]	0.01711810[mg/l]	<0.00016758[mg/l]	0.02208270[mg/l]	
Conc RSD	101.91564066	398.44186595	3.32625769	8.21259369	127.60303849	3.64754763	
Conc SD	0.00013178[mg/l]	0.00385008[mg/l]	0.00204650[mg/l]	0.00140584[mg/l]	0.00021384[mg/l]	0.00080548[mg/l]	

ENTHALPY SPIKE USER REPORT FOR 493300 METALS Wipe
EPA 6010B

Type: BS	Type: BSD
Inst: MET06	Inst: MET06
Seqnum: 483399377181.1	Seqnum: 483399377182.1
File: met06_master011	File: met06_master011
IDF: 1.0	IDF: 1.0
Lab ID: QC1097963	Lab ID: QC1097964
Matrix: Wipe	Matrix: Wipe
Batch: 323756	Batch: 323756
Time: 04-OCT-2023 22:38	Time: 04-OCT-2023 22:42
Cal: 483399377001	Cal: 483399377001
Units: ug/ft2	

- BS: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF
- BSD: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Lead	50.00	0.9931	49.65	A	99	0.9924	49.62	A	99	80-120	0	20	!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BS Abund	%Drift
Yttrium	A	3744470	3620450	-3.31

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BSD Abund	%Drift
Yttrium	A	3744470	3561710	-4.88

!=warning !=low bias <=opening a=ICSA u=use

Sample Name: BS,QC1097963,323756 Sample Type: Unknown Sample

Measure Date: 2023-10-04 22:38:50 Recalculation Date: State: Measured Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	659089	28895.1000000	64577.6000000	221974	1132820	41364.8000000	694130
Int RSD	3.87275467	0.24501213	0.73898380	0.56384532	0.40362988	0.53124154	0.56811404
Int SD	25524.9000000	70.79650000	477.21800000	1251.59000000	4572.40000000	219.74700000	3943.45000000
RelInt Mean	0.01012500	0.01063350	0.01508000	0.05602420	0.30903100	0.03206550	0.18726000
RelInt RSD	4.86724938	1.23907462	1.23590186	0.86903160	0.72885245	1.24528855	0.92012710
RelInt SD	0.00049281	0.00013176	0.00018637	0.00048687	0.00225238	0.00039931	0.00172303
Conc Mean	0.44931700[mg/l]	1.06435000[mg/l]	0.88132600[mg/l]	0.85386700[mg/l]	0.98687600[mg/l]	1.07588000[mg/l]	1.02054000[mg/l]
Conc RSD	4.87911653	1.29449899	1.22716225	0.87964402	0.72883625	1.43571774	0.91738981
Conc SD	0.02192270[mg/l]	0.01377800[mg/l]	0.01081530[mg/l]	0.00751099[mg/l]	0.00719271[mg/l]	0.01544660[mg/l]	0.00936233[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	557893	1557280	1062190	20655.7000000	24597.1000000	5019040	445675
Int RSD	0.58905919	3.55817836	0.41782355	0.37309992	0.36026117	0.28735575	0.46622763
Int SD	3286.32000000	55410.8000000	4438.08000000	77.06640000	88.61380000	14422.5000000	2077.86000000
RelInt Mean	0.14953200	0.02713940	0.28855900	0.01206400	0.00216684	1.38903000	0.12029000
RelInt RSD	0.88867935	4.45820468	0.79615261	1.07056532	5.61218179	0.38880370	0.76890847
RelInt SD	0.00132886	0.00120993	0.00229737	0.00012915	0.00012161	0.00540060	0.00092492
Conc Mean	0.98568300[mg/l]	0.93274600[mg/l]	1.03094000[mg/l]	9.32122000[mg/l]	0.86432300[mg/l]	1.01280000[mg/l]	0.94252000[mg/l]
Conc RSD	0.88907489	4.47402616	0.79909209	1.13963623	4.31799223	0.38895735	0.76887387
Conc SD	0.00876346[mg/l]	0.04173130[mg/l]	0.00823816[mg/l]	0.10622800[mg/l]	0.03732140[mg/l]	0.00393936[mg/l]	0.00724679[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	47756.5000000	476907	147203	68810.6000000	53285.8000000	15410.9000000	997911
Int RSD	0.41037136	0.62647015	0.11851593	0.53931807	0.64617215	1.33132393	0.69952330
Int SD	195.97900000	2987.68000000	174.45900000	371.10800000	344.31800000	205.16900000	6980.62000000
RelInt Mean	0.01345630	0.12655400	0.03510510	0.01517480	0.01167490	0.00156549	1.01911000
RelInt RSD	1.15224839	1.01549536	0.50915964	1.03596094	1.06161081	3.99694026	0.40367281
RelInt SD	0.00015505	0.00128515	0.00017874	0.00015721	0.00012394	0.00006257	0.00411387
Conc Mean	1.11907000[mg/l]	0.98700700[mg/l]	0.99309800[mg/l]	0.91664800[mg/l]	0.85173600[mg/l]	0.02659800[mg/l]	1.05785000[mg/l]
Conc RSD	1.20278445	1.01570708	0.50814119	1.03730876	1.06418890	4.31265509	0.40417072
Conc SD	0.01346000[mg/l]	0.01002510[mg/l]	0.00504634[mg/l]	0.00950847[mg/l]	0.00906408[mg/l]	0.00114708[mg/l]	0.00427552[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	5979780	57506.1000000	354188	3620450	53366900	980942	1236870
Int RSD	3.66861323	0.34134987	4.01391351	0.39581544	0.77974362	0.59836463	0.42648621
Int SD	219375	196.29700000	14216.8000000	14330.3000000	416125	5869.61000000	5275.08000000
RelInt Mean	0.10975100	0.01302880	0.00606402	---	---	---	0.34000700
RelInt RSD	4.45488424	0.70190655	4.74604305	---	---	---	0.61669319
RelInt SD	0.00488928	0.00009145	0.00028780	---	---	---	0.00209680
Conc Mean	0.96124200[mg/l]	1.01408000[mg/l]	0.94112000[mg/l]	3596100	53206000	961919	1.00041000[mg/l]
Conc RSD	4.45615152	0.69430913	4.77213320	---	---	---	0.61771874
Conc SD	0.04283440[mg/l]	0.00704085[mg/l]	0.04491150[mg/l]	14283.7000000	417638	5819.44000000	0.00617972[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	378682	96881.1000000	982335	12405.8000000	788037	11795.3000000	
Int RSD	0.52048949	0.50461648	0.36544152	1.10437054	0.48985390	0.74682713	
Int SD	1971.00000000	488.87800000	3589.86000000	137.00600000	3860.23000000	88.09050000	
RelInt Mean	0.38304900	0.06598390	0.26678200	0.00091859	0.21315600	0.00036135	
RelInt RSD	0.23119392	0.86823452	0.76859383	2.82685112	0.84771247	6.65957294	
RelInt SD	0.00088559	0.00057290	0.00205047	0.00002597	0.00180695	0.00002406	
Conc Mean	0.94470700[mg/l]	0.94003300[mg/l]	5.30707000[mg/l]	0.03171950[mg/l]	0.89695200[mg/l]	0.04519060[mg/l]	
Conc RSD	0.23105153	0.86636427	0.77102620	3.11074891	0.84689593	5.38912960	
Conc SD	0.00218276[mg/l]	0.00814411[mg/l]	0.04091890[mg/l]	0.00098671[mg/l]	0.00759625[mg/l]	0.00243538[mg/l]	

Sample Name: BSD,QC1097964,323756 Sample Type: Unknown Sample

Measure Date: 2023-10-04 22:42:05 Recalculation Date: State: Measured Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	649841	28175.0000000	63749.3000000	220340	1112590	40688.1000000	681471
Int RSD	3.33170729	0.44611890	0.45314851	0.52240174	0.63189944	0.41205660	0.61427706
Int SD	21650.8000000	125.69400000	288.87900000	1151.06000000	7030.45000000	167.65800000	4186.12000000
RelInt Mean	0.01012790	0.01002380	0.01508120	0.05647520	0.30841400	0.03181310	0.18677100
RelInt RSD	3.33643697	1.96703845	0.38417898	0.94486961	1.07240268	1.00856565	1.13779441
RelInt SD	0.00033791	0.00019717	0.00005794	0.00053362	0.00330744	0.00032086	0.00212507
Conc Mean	0.44945000[mg/l]	1.00061000[mg/l]	0.88139300[mg/l]	0.86082600[mg/l]	0.98489400[mg/l]	1.06611000[mg/l]	1.01787000[mg/l]
Conc RSD	3.34459895	2.06096281	0.38071893	0.95633264	1.07201384	1.16396995	1.14281785
Conc SD	0.01503230[mg/l]	0.02062220[mg/l]	0.00335563[mg/l]	0.00823236[mg/l]	0.01055820[mg/l]	0.01240920[mg/l]	0.01163240[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	548676	1527260	1046420	20690.1000000	24813.9000000	4888970	439151
Int RSD	0.65781627	3.31500203	0.54430917	0.06168844	0.64208770	1.08445746	0.62504013
Int SD	3609.28000000	50628.7000000	5695.76000000	12.76340000	159.32700000	53018.8000000	2744.87000000
RelInt Mean	0.14941100	0.02704930	0.28890000	0.01226900	0.00221538	1.37532000	0.12042600
RelInt RSD	0.98352866	3.21290385	1.11339564	1.00881897	10.13767390	0.24437731	1.24782024
RelInt SD	0.00146950	0.00086907	0.00321660	0.00012377	0.00022459	0.00336097	0.00150270
Conc Mean	0.98489000[mg/l]	0.92963700[mg/l]	1.03216000[mg/l]	9.48980000[mg/l]	0.87922000[mg/l]	1.00280000[mg/l]	0.94358400[mg/l]
Conc RSD	0.98374742	3.22440910	1.11747210	1.07287825	7.83957371	0.24467491	1.24747770
Conc SD	0.00968883[mg/l]	0.02997530[mg/l]	0.01153410[mg/l]	0.10181400[mg/l]	0.06892710[mg/l]	0.00245360[mg/l]	0.01177100[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	48537.9000000	468132	145163	68216.5000000	52712.9000000	15649.0000000	974367
Int RSD	0.33412035	0.47547700	0.56921392	0.19786562	0.45711012	1.14046265	0.70375433
Int SD	162.17500000	2225.86000000	826.28800000	134.97700000	240.95600000	178.47100000	6857.15000000
RelInt Mean	0.01434280	0.12617700	0.03507910	0.01524590	0.01169410	0.00162573	1.00856000
RelInt RSD	1.16471679	0.97817352	0.75243664	0.57499000	1.18799224	2.51939129	0.45701892
RelInt SD	0.00016705	0.00123423	0.00026395	0.00008766	0.00013893	0.00004096	0.00460931
Conc Mean	1.19601000[mg/l]	0.98406500[mg/l]	0.99238500[mg/l]	0.92097500[mg/l]	0.85314100[mg/l]	0.02770250[mg/l]	1.04689000[mg/l]
Conc RSD	1.21216378	0.97879002	0.75079228	0.57361600	1.19061210	2.71061818	0.45816466
Conc SD	0.01449760[mg/l]	0.00963193[mg/l]	0.00745075[mg/l]	0.00528286[mg/l]	0.01015760[mg/l]	0.00075091[mg/l]	0.00479648[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	5905200	56671.8000000	350176	3561710	52420700	967594	1257850
Int RSD	3.31343562	0.28615467	3.66081628	0.85237709	0.45160595	0.91596062	0.47016496
Int SD	195665	162.16900000	12819.3000000	30359.2000000	236735	8862.78000000	5913.97000000
RelInt Mean	0.11027900	0.01297970	0.00609476	---	---	---	0.35159500
RelInt RSD	3.16170803	0.80670586	3.61955188	---	---	---	0.82640823
RelInt SD	0.00348670	0.00010471	0.00022060	---	---	---	0.00290561
Conc Mean	0.96587500[mg/l]	1.01024000[mg/l]	0.94591600[mg/l]	3537270	52260400	948485	1.03459000[mg/l]
Conc RSD	3.16244856	0.80912061	3.63994266	---	---	---	0.82814545
Conc SD	0.03054530[mg/l]	0.00817406[mg/l]	0.03443080[mg/l]	30242.1000000	235779	8876.95000000	0.00856791[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	370514	95987.4000000	973674	12350.9000000	772359	12307.8000000	
Int RSD	0.58632872	0.79087464	0.74641512	0.05095912	0.47792024	0.35834268	
Int SD	2172.43000000	759.14000000	7267.65000000	6.29391000	3691.26000000	44.10410000	
RelInt Mean	0.37990000	0.06572820	0.26876600	0.00088383	0.21226600	0.00048962	
RelInt RSD	0.50590419	0.79501797	1.32816279	0.50508694	1.07187680	4.14072983	
RelInt SD	0.00192193	0.00052255	0.00356965	0.00000446	0.00227523	0.00002027	
Conc Mean	0.93694600[mg/l]	0.93639700[mg/l]	5.34676000[mg/l]	0.03039870[mg/l]	0.89319000[mg/l]	0.05817140[mg/l]	
Conc RSD	0.50554461	0.79325863	1.33180281	0.55791860	1.07531544	3.52704250	
Conc SD	0.00473668[mg/l]	0.00742805[mg/l]	0.07120830[mg/l]	0.00016960[mg/l]	0.00960461[mg/l]	0.00205173[mg/l]	

ENTHALPY SPIKE USER REPORT FOR 493300 METALS Wipe
EPA 6010B

Type: BS	Type: BSD
Inst: MET06	Inst: MET06
Seqnum: 483399377208.1	Seqnum: 483399377209.1
File: met06_master011	File: met06_master011
IDF: 1.0	IDF: 1.0
Lab ID: QC1097966	Lab ID: QC1097967
Matrix: Wipe	Matrix: Wipe
Batch: 323757	Batch: 323757
Time: 05-OCT-2023 00:06	Time: 05-OCT-2023 00:09
Cal: 483399377001	Cal: 483399377001
Units: ug/ft2	

- BS: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF
- BSD: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Lead	50.00	0.9837	49.19	A	98	0.9804	49.02	A	98	80-120	0	20	!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BS Abund	%Drift
Yttrium	A	3744470	3565790	-4.77

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BSD Abund	%Drift
Yttrium	A	3744470	3553770	-5.09

!=warning !=low bias <=opening a=ICSA u=use

Sample Name: BS,QC1097966,323757				Sample Type: Unknown Sample			
Measure Date: 2023-10-05 00:06:24			Recalculation Date:		State: Measured		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	646316	27718.6000000	63783.8000000	216472	1105460	39269.2000000	677979
Int RSD	3.21027176	0.51754418	0.97001590	0.19109816	0.37883686	0.75169599	0.41395530
Int SD	20748.5000000	143.45600000	618.71300000	413.67400000	4187.89000000	295.18500000	2806.53000000
RelInt Mean	0.01004660	0.01000940	0.01500150	0.05518490	0.30597200	0.03155850	0.18546600
RelInt RSD	4.28216511	1.31779128	0.78785455	0.38033411	0.09277581	0.83962799	0.25756527
RelInt SD	0.00043021	0.00013190	0.00011819	0.00020989	0.00028387	0.00026497	0.00047770
Conc Mean	0.44583200[mg/l]	0.99908900[mg/l]	0.87677500[mg/l]	0.84091900[mg/l]	0.97709600[mg/l]	1.05626000[mg/l]	1.01079000[mg/l]
Conc RSD	4.29269321	1.38050764	0.78265005	0.38514173	0.09179937	0.97013993	0.25467407
Conc SD	0.01913820[mg/l]	0.01379250[mg/l]	0.00686208[mg/l]	0.00323873[mg/l]	0.00089697[mg/l]	0.01024720[mg/l]	0.00257422[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	544750	1503960	1023990	20227.8000000	24327.0000000	5511630	436279
Int RSD	0.38494906	2.55994840	0.42982744	0.37359080	0.66093641	0.21076524	0.52092812
Int SD	2097.01000000	38500.6000000	4401.39000000	75.56920000	160.78600000	11616.6000000	2272.70000000
RelInt Mean	0.14800000	0.02666300	0.28209000	0.01223560	0.00218754	1.54974000	0.11939200
RelInt RSD	0.20562905	3.19678956	0.22596795	0.78256399	7.93411778	0.49732729	0.35709930
RelInt SD	0.00030433	0.00085236	0.00063743	0.00009575	0.00017356	0.00770728	0.00042635
Conc Mean	0.97558200[mg/l]	0.91631200[mg/l]	1.00774000[mg/l]	9.46229000[mg/l]	0.87067400[mg/l]	1.13003000[mg/l]	0.93548500[mg/l]
Conc RSD	0.20556550	3.20835043	0.22651874	0.83258492	6.11795000	0.49760006	0.35700305
Conc SD	0.00200546[mg/l]	0.02939850[mg/l]	0.00228272[mg/l]	0.07878160[mg/l]	0.05326740[mg/l]	0.00562303[mg/l]	0.00333971[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	46953.8000000	465898	144696	67831.1000000	52837.1000000	14732.0000000	938731
Int RSD	0.58448517	0.25854372	0.41140391	0.93539394	1.11937824	1.75576296	0.78627637
Int SD	274.43800000	1204.55000000	595.28500000	634.48800000	591.44700000	258.65900000	7381.02000000
RelInt Mean	0.01296750	0.12525800	0.03477300	0.01503240	0.01163600	0.00129905	1.00144000
RelInt RSD	1.12132639	0.25216992	0.11027320	0.99628802	1.23673943	3.45748047	0.30524045
RelInt SD	0.00014541	0.00031586	0.00003835	0.00014977	0.00014391	0.00004491	0.00305680
Conc Mean	1.07666000[mg/l]	0.97689300[mg/l]	0.98374700[mg/l]	0.90804600[mg/l]	0.84889300[mg/l]	0.02171340[mg/l]	1.03949000[mg/l]
Conc RSD	1.17247785	0.25213816	0.10971317	1.00173559	1.23941415	3.79224810	0.30566528
Conc SD	0.01262360[mg/l]	0.00246312[mg/l]	0.00107930[mg/l]	0.00909622[mg/l]	0.01052130[mg/l]	0.00082343[mg/l]	0.00317736[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	5721550	56629.4000000	345905	3565790	52231900	938660	1259160
Int RSD	3.02459998	1.00583443	3.24930255	0.34825663	0.52666665	0.72411203	0.38676181
Int SD	173054	569.59800000	11239.5000000	12418.1000000	275088	6796.95000000	4869.95000000
RelInt Mean	0.10712600	0.01288050	0.00602509	---	---	---	0.35150500
RelInt RSD	3.56840543	0.95504833	4.03044602	---	---	---	0.22749093
RelInt SD	0.00382269	0.00012302	0.00024284	---	---	---	0.00079964
Conc Mean	0.93824800[mg/l]	1.00263000[mg/l]	0.93504800[mg/l]	3540670	52068300	919938	1.03433000[mg/l]
Conc RSD	3.56969586	0.94418280	4.05288285	---	---	---	0.22789342
Conc SD	0.03349260[mg/l]	0.00946666[mg/l]	0.03789640[mg/l]	12214.2000000	275902	6870.34000000	0.00235717[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	356617	94323.5000000	929690	12182.0000000	769681	11643.3000000	
Int RSD	1.24082980	0.71112183	0.44365864	1.18056148	0.25876694	1.86028875	
Int SD	4425.01000000	670.75500000	4124.65000000	143.81600000	1991.68000000	216.59900000	
RelInt Mean	0.37682600	0.06608860	0.25595400	0.00078570	0.21115200	0.00023816	
RelInt RSD	1.00639552	1.20956262	0.27258492	5.73574781	0.15983320	24.24614222	
RelInt SD	0.00379236	0.00079938	0.00069769	0.00004507	0.00033749	0.00005774	
Conc Mean	0.92936800[mg/l]	0.94152100[mg/l]	5.09043000[mg/l]	0.02667020[mg/l]	0.88850100[mg/l]	0.03272300[mg/l]	
Conc RSD	1.00588572	1.20701503	0.27276085	6.42057427	0.16060083	17.85798979	
Conc SD	0.00934838[mg/l]	0.01136430[mg/l]	0.01388470[mg/l]	0.00171238[mg/l]	0.00142694[mg/l]	0.00584367[mg/l]	

Sample Name: BSD,QC1097967,323757

Sample Type: Unknown Sample

Measure Date: 2023-10-05 00:09:40

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	639949	28538.2000000	62989.4000000	215566	1091390	39075.7000000	668252
Int RSD	3.20256770	0.59062940	0.29518459	0.32797890	0.30241344	1.09614415	0.41164411
Int SD	20494.8000000	168.55500000	185.93500000	707.01100000	3300.51000000	428.32600000	2750.82000000
RelInt Mean	0.00994470	0.01093140	0.01485030	0.05514670	0.30306300	0.03121540	0.18337400
RelInt RSD	4.63206532	0.92234298	0.79319610	0.88025394	0.56414343	1.29889734	0.49655567
RelInt SD	0.00046065	0.00010083	0.00011779	0.00048543	0.00170971	0.00040546	0.00091055
Conc Mean	0.44129800[mg/l]	1.09551000[mg/l]	0.86800500[mg/l]	0.84033000[mg/l]	0.96780300[mg/l]	1.04300000[mg/l]	0.99934200[mg/l]
Conc RSD	4.64361950	0.96239195	0.78766597	0.89121655	0.56382136	1.50330777	0.50266675
Conc SD	0.02049220[mg/l]	0.01054310[mg/l]	0.00683698[mg/l]	0.00748916[mg/l]	0.00545668[mg/l]	0.01567950[mg/l]	0.00502336[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	536871	1503760	1011830	20088.5000000	24320.0000000	4805050	431096
Int RSD	0.33234799	2.19604192	0.23467974	0.56211265	0.97536184	0.59505520	0.21553111
Int SD	1784.28000000	33023.2000000	2374.56000000	112.92000000	237.20800000	28592.7000000	929.14600000
RelInt Mean	0.14631600	0.02669500	0.27964200	0.01208350	0.00211250	1.35473000	0.11834400
RelInt RSD	0.58579991	3.26876569	0.67308916	1.48759052	2.50893728	0.31047884	0.65067177
RelInt SD	0.00085712	0.00087260	0.00188224	0.00017975	0.00005300	0.00420615	0.00077003
Conc Mean	0.96447500[mg/l]	0.91741700[mg/l]	0.99895600[mg/l]	9.33721000[mg/l]	0.84764400[mg/l]	0.98777500[mg/l]	0.92727300[mg/l]
Conc RSD	0.58591358	3.28058015	0.67567140	1.58398494	1.91894239	0.31051505	0.65037697
Conc SD	0.00565099[mg/l]	0.03009660[mg/l]	0.00674966[mg/l]	0.14790000[mg/l]	0.01626580[mg/l]	0.00306719[mg/l]	0.00603077[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	46804.6000000	459348	143848	67512.5000000	52225.3000000	14965.1000000	935859
Int RSD	0.47283387	0.52614575	0.38691257	0.79816330	0.70889397	1.40609819	0.62484306
Int SD	221.30800000	2416.84000000	556.56600000	538.86000000	370.22200000	210.42400000	5847.65000000
RelInt Mean	0.01289730	0.12385300	0.03465480	0.01502180	0.01152060	0.00138522	0.99779800
RelInt RSD	3.85954425	0.59064132	0.70805199	0.52662930	0.33356075	2.45240467	0.28929403
RelInt SD	0.00049778	0.00073153	0.00024537	0.00007911	0.00003843	0.00003397	0.00288657
Conc Mean	1.07056000[mg/l]	0.96593500[mg/l]	0.98038100[mg/l]	0.90746800[mg/l]	0.84045500[mg/l]	0.02329310[mg/l]	1.03570000[mg/l]
Conc RSD	4.03563556	0.59109878	0.70655184	0.52841423	0.33435580	2.67365872	0.29003283
Conc SD	0.04320390[mg/l]	0.00570963[mg/l]	0.00692690[mg/l]	0.00479519[mg/l]	0.00281011[mg/l]	0.00062278[mg/l]	0.00300387[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	5787280	56033.0000000	342595	3553770	52195300	939147	1237220
Int RSD	2.39402621	0.44482180	3.28913148	0.84676555	1.39205446	0.82339825	0.25883028
Int SD	138549	249.24700000	11268.4000000	30092.1000000	726587	7732.92000000	3202.30000000
RelInt Mean	0.10849200	0.01277950	0.00596484	---	---	---	0.34651700
RelInt RSD	3.39607529	0.58256739	4.37818952	---	---	---	0.72628760
RelInt SD	0.00368447	0.00007445	0.00026115	---	---	---	0.00251671
Conc Mean	0.95021200[mg/l]	0.99477100[mg/l]	0.92564900[mg/l]	3528890	52033900	920366	1.01963000[mg/l]
Conc RSD	3.39692616	0.58578608	4.40319171	---	---	---	0.72787286
Conc SD	0.03227800[mg/l]	0.00582723[mg/l]	0.04075810[mg/l]	29817.3000000	726277	7737.02000000	0.00742161[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	354977	93714.4000000	928682	12231.6000000	758040	11420.5000000	
Int RSD	0.56366187	0.53940910	0.28721780	1.13649073	0.34315999	1.24006830	
Int SD	2000.87000000	505.50400000	2667.34000000	139.01100000	2601.29000000	141.62200000	
RelInt Mean	0.37474300	0.06538960	0.25656700	0.00082090	0.20861900	0.00018349	
RelInt RSD	0.44769082	1.17642255	0.73472426	4.33299712	0.67142974	22.38074217	
RelInt SD	0.00167769	0.00076926	0.00188506	0.00003557	0.00140073	0.00004107	
Conc Mean	0.92423300[mg/l]	0.93158400[mg/l]	5.10291000[mg/l]	0.02800740[mg/l]	0.87782700[mg/l]	0.02719080[mg/l]	
Conc RSD	0.44744020	1.17387160	0.73686583	4.82554611	0.67247988	15.28425056	
Conc SD	0.00413539[mg/l]	0.01093560[mg/l]	0.03760160[mg/l]	0.00135151[mg/l]	0.00590321[mg/l]	0.00415591[mg/l]	

Instrument: MET06

Calibration #: 483399377001

Units: mg/L

Date: 04-OCT-2023 08:17

X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master011	483399377002	L1	04-OCT-2023 08:20	S18961, S14463 (100X)
L2	met06_master011	483399377003	L2	04-OCT-2023 08:23	S18960, S14463 (100X)
L3	met06_master011	483399377004	L3	04-OCT-2023 08:27	S18959, S14463 (100X)
L4	met06_master011	483399377005	L4	04-OCT-2023 08:30	S18958, S14463 (100X)
L5	met06_master011	483399377006	L5	04-OCT-2023 08:33	S18957, S14463 (100X)
L6	met06_master011	483399377007	L6	04-OCT-2023 08:36	S18729, S14463 (100X)

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00273	28.2438		0.0323	0.999		7	0.995	

$$\text{Instrument amount} = a0 + (\text{response} \times a1) + (\text{response}^2 \times a2)$$

WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	0.0145	0.0320	0.0382	0.0371	0.0373	0.0349

Spiked Amounts / Drifts	Ch	L1 %D	L2 %D	L3 %D	L4 %D	L5 %D	L6 %D
Lead	A	0.0033 23	0.0100 18	0.1000 11	1.0000 5	5.0000 6	10.000 -1

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 493300 METALS Wipe
EPA 6010B

Inst: MET06
Calnum: 483399377001

Cal Date: 04-OCT-2023

- ICV 483399377010 (04-OCT-2023) stds: S19137, S14463 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	0.9879	mg/l	-1	10	

Sample Name: ICALBLK,CALBLANK

Sample Type: Calibration Sample

Measure Date: 2023-10-04 08:17:17

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	108751	18145.5000000	8495.88000000	20338.0000000	18441.7000000	14087.5000000	17707.2000000
Int RSD	0.67895284	1.72805930	0.28621285	0.33240191	1.31541018	1.98386513	1.37322106
Int SD	738.36800000	313.56500000	24.31630000	67.60390000	242.58400000	279.47700000	243.15900000
RelInt Mean	0.00002468	0.00045255	-0.00011301	0.00067210	0.00001107	0.00419761	0.00004666
RelInt RSD	54.30921319	34.43810753	7.01950304	6.21631474	510.72364024	2.43152651	118.52898939
RelInt SD	0.00001340	0.00015585	0.00000793	0.00004178	0.00005655	0.00010207	0.00005530

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	17109.6000000	103666	24733.1000000	8838.60000000	20935.6000000	21505.8000000	11101.3000000
Int RSD	0.69953710	0.45921421	0.68274499	2.24242527	2.46535089	0.80692185	1.51747993
Int SD	119.68800000	476.04900000	168.86400000	198.19900000	516.13600000	173.53500000	168.46000000
RelInt Mean	0.00002795	0.00009426	0.00092313	0.00073040	-0.00065615	0.00029471	-0.00003937
RelInt RSD	209.91947514	5.00242408	2.09081691	5.72089457	23.31516670	9.34081185	141.37422110
RelInt SD	0.00005868	0.00000472	0.00001930	0.00004179	0.00015298	0.00002753	0.00005565

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	33253.8000000	18751.7000000	17727.5000000	12253.6000000	9794.90000000	8966.29000000	16652.2000000
Int RSD	1.63622203	0.90975752	0.26942265	2.07382320	0.33571450	0.37869286	2.51138588
Int SD	544.10600000	170.59500000	47.76190000	254.11800000	32.88290000	33.95470000	418.20100000
RelInt Mean	0.00048965	0.00004487	-0.00010349	-0.00000475	0.00002245	0.00010229	0.00023397
RelInt RSD	26.97195769	163.53008828	16.92985592	1727.77886450	39.51708102	4.16408091	97.14112312
RelInt SD	0.00013207	0.00007337	0.00001752	0.00008215	0.00000887	0.00000426	0.00022728

	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	121034	8869.95000000	29361.1000000	3744470	56546100	1003900	13542.6000000
Int RSD	0.96106879	0.26890681	0.30603690	0.99403921	0.61952283	0.66842813	0.93398609
Int SD	1163.22000000	23.85190000	89.85580000	37221.5000000	350316	6710.35000000	126.48600000
RelInt Mean	0.00001993	-0.00009453	0.00003066	---	---	---	0.00047420
RelInt RSD	16.66862367	8.32023940	6.48046314	---	---	---	10.54152599
RelInt SD	0.00000332	0.00000787	0.00000199	---	---	---	0.00004999

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8928.80000000	30507.5000000	21189.6000000	8155.56000000	18041.3000000	8883.29000000	
Int RSD	2.51003494	1.11250348	0.36692576	0.60761370	0.59504027	0.36157325	
Int SD	224.11600000	339.39700000	77.75010000	49.55430000	107.35300000	32.11960000	
RelInt Mean	-0.00024825	-0.00015191	0.00064841	0.00008380	0.00014197	-0.00008519	
RelInt RSD	48.69827229	65.78508752	10.56462558	12.41147150	13.12803753	9.98418877	
RelInt SD	0.00012089	0.00009994	0.00006850	0.00001040	0.00001864	0.00000851	

Sample Name: ICAL,L1,S18961

Sample Type: Calibration Sample

Measure Date: 2023-10-04 08:20:32

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	109105	18025.4000000	8725.0000000	21229.4000000	22905.0000000	15081.3000000	19115.4000000
Int RSD	0.32358462	0.70741287	0.92757479	0.79851056	0.71903515	0.32354969	0.90337110
Int SD	353.04700000	127.51400000	80.93090000	169.51900000	164.69500000	48.79550000	172.68300000
RelInt Mean	0.00003954	0.00034394	-0.00005741	0.00094405	0.00120518	0.00534322	0.00039582
RelInt RSD	25.39785719	43.49630017	26.29278888	4.02753665	1.87852437	1.89157474	7.57673292
RelInt SD	0.00001004	0.00014960	0.00001510	0.00003802	0.00002264	0.00010107	0.00002999

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	19122.4000000	110665	142493	8696.56000000	21040.1000000	42087.9000000	12823.1000000
Int RSD	0.51934328	0.48646907	0.26953675	0.64024396	0.39822149	0.27954353	1.56374824
Int SD	99.31090000	538.35100000	384.07100000	55.67920000	83.78620000	117.65400000	200.52100000
RelInt Mean	0.00055310	0.00021711	0.03327940	0.00065637	-0.00054383	0.00592495	0.00041862
RelInt RSD	6.04673615	3.53745354	0.71310480	6.02703057	23.81834129	0.61828707	13.74638696
RelInt SD	0.00003344	0.00000768	0.00023732	0.00003956	0.00012953	0.00003663	0.00005755

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	34349.9000000	20798.5000000	18381.6000000	13004.5000000	10290.5000000	9792.13000000	34960.0000000
Int RSD	1.12477474	0.61832344	0.80399421	0.69311469	0.45799427	0.33371493	0.40490847
Int SD	386.35900000	128.60200000	147.78700000	90.13610000	47.12990000	32.67780000	141.55600000
RelInt Mean	0.00163717	0.00057662	0.00004850	0.00018846	0.00015067	0.00033140	0.01898030
RelInt RSD	16.93855861	4.45117912	44.82720229	16.64885573	16.29570388	6.97793294	1.04028387
RelInt SD	0.00027731	0.00002567	0.00002174	0.00003138	0.00002455	0.00002312	0.00019745

	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	144507	9428.20000000	30288.0000000	3662580	55320900	992645	27736.2000000
Int RSD	1.58056703	0.61640080	0.81646197	0.31996844	0.70588873	0.41400299	0.31837779
Int SD	2284.03000000	58.11550000	247.29000000	11719.1000000	390504	4109.58000000	88.30590000
RelInt Mean	0.00045006	0.00005471	0.00004522	---	---	---	0.00434920
RelInt RSD	9.96393806	16.56943899	6.31577551	---	---	---	0.97568058
RelInt SD	0.00004484	0.00000907	0.00000286	---	---	---	0.00004243

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9409.33000000	30718.0000000	21978.1000000	8200.73000000	19638.6000000	8994.81000000	
Int RSD	1.05693392	0.83292532	1.75527457	0.73304572	0.72735327	1.15842358	
Int SD	99.45040000	255.85800000	385.77600000	60.11510000	142.84200000	104.19800000	
RelInt Mean	0.00017413	0.00008393	0.00087948	0.00007154	0.00055919	-0.00006670	
RelInt RSD	107.25943537	183.83037128	14.18039171	14.36856886	11.28974744	29.91238355	
RelInt SD	0.00018677	0.00015430	0.00012471	0.00001028	0.00006313	0.00001995	

Sample Name: ICAL,L2,S18960

Sample Type: Calibration Sample

Measure Date: 2023-10-04 08:23:49

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	109750	18318.3000000	9253.83000000	22884.7000000	31439.0000000	17240.1000000	21696.8000000
Int RSD	0.97292938	1.54334736	0.67566943	0.20874602	0.58647540	1.90454812	0.38016943
Int SD	1067.79000000	282.71500000	62.52530000	47.77090000	184.38200000	328.34600000	82.48460000
RelInt Mean	0.00003293	0.00052408	0.00006174	0.00131138	0.00345617	0.00739824	0.00103255
RelInt RSD	69.58476079	4.45118007	32.23572324	1.93054645	1.48018182	3.49926469	3.26641809
RelInt SD	0.00002291	0.00002333	0.00001990	0.00002532	0.00005116	0.00025888	0.00003373

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	23494.7000000	121295	47945.5000000	9008.66000000	21248.3000000	78629.3000000	16194.3000000
Int RSD	0.33061201	0.80141061	0.57912839	2.00914453	1.21095805	0.12564604	0.40303564
Int SD	77.67630000	972.07100000	277.66600000	180.99700000	257.30800000	98.79460000	65.26880000
RelInt Mean	0.00168401	0.00039840	0.00719830	0.00086629	-0.00041411	0.01578430	0.00129779
RelInt RSD	1.05404362	3.59513955	1.54689302	5.08165251	12.31828028	0.13673397	1.61858236
RelInt SD	0.00001775	0.00001432	0.00011135	0.00004402	0.00005101	0.00002158	0.00002101

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	36002.7000000	24333.1000000	19498.0000000	14395.7000000	11291.3000000	11236.4000000	71152.9000000
Int RSD	1.27068803	0.51429123	0.56434506	0.86172954	0.32461275	0.69364565	0.74590916
Int SD	457.48200000	125.14300000	110.03600000	124.05200000	36.65300000	77.94080000	530.73600000
RelInt Mean	0.00316680	0.00147695	0.00031970	0.00052178	0.00039466	0.00068978	0.05586840
RelInt RSD	10.33911204	0.77582857	5.08298457	3.22532423	2.00726185	3.00724727	0.26776317
RelInt SD	0.00032742	0.00001146	0.00001625	0.00001683	0.00000792	0.00002074	0.00014960

	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	187361	10481.4000000	31536.4000000	3688840	55626300	996751	55732.0000000
Int RSD	0.79725236	0.20167344	1.38104222	0.26776548	0.18237596	1.05077396	0.13654669
Int SD	1493.74000000	21.13820000	435.53100000	9877.44000000	101449	10473.6000000	76.10020000
RelInt Mean	0.00120494	0.00030253	0.00006736	---	---	---	0.01192970
RelInt RSD	1.59113317	3.74861170	4.28664321	---	---	---	0.27308817
RelInt SD	0.00001917	0.00001134	0.00000289	---	---	---	0.00003258

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	10351.3000000	31409.2000000	21605.2000000	8287.73000000	22882.8000000	9050.21000000	
Int RSD	2.04356941	1.55906550	0.50191621	0.90685025	1.05416295	0.21995291	
Int SD	211.53600000	489.69000000	108.44000000	75.15730000	241.22200000	19.90620000	
RelInt Mean	0.00119014	0.00061615	0.00068551	0.00008343	0.00137229	-0.00006750	
RelInt RSD	0.61380174	22.25841477	2.24747195	17.54274516	2.26913408	10.82078131	
RelInt SD	0.00000731	0.00013715	0.00001541	0.00001464	0.00003114	0.00000730	

Method Name: Met06_Master011923

Method Autor:

Operator

Sample Name: ICAL,L3,S18959

Sample Type: Calibration Sample

Measure Date: 2023-10-04 08:27:04

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	111048	20475.8000000	14921.6000000	43816.5000000	134943	42427.7000000	54551.6000000
Int RSD	1.21722138	1.93556296	1.25796831	0.45288191	0.44479743	0.72690011	0.65412930
Int SD	1351.70000000	396.32200000	187.70900000	198.43700000	600.22300000	308.40700000	356.83800000
RelInt Mean	0.00004160	0.00238274	0.00159654	0.00702623	0.03183790	0.03333490	0.01001440
RelInt RSD	57.92146918	8.40091659	3.81010811	0.76579474	0.52968318	0.79811249	0.99537166
RelInt SD	0.00002410	0.00020017	0.00006083	0.00005381	0.00016864	0.00026605	0.00009968
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	78628.2000000	267331	243252	11261.2000000	24699.7000000	574189	60950.5000000
Int RSD	0.30145673	0.99893391	0.22863861	1.18907399	1.56218497	0.22302935	0.36174765
Int SD	237.03000000	2670.46000000	556.16800000	133.90400000	385.85500000	1280.61000000	220.48700000
RelInt Mean	0.01678350	0.00301931	0.06077700	0.00319335	0.00290779	0.15179700	0.01357550
RelInt RSD	0.25832395	1.30960385	0.22939105	3.33245651	2.61936729	0.22796300	0.61433096
RelInt SD	0.00004336	0.00003954	0.00013942	0.00010642	0.00007617	0.00034604	0.00008340
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	59962.6000000	69797.5000000	32379.0000000	30839.9000000	24149.6000000	30176.6000000	534821
Int RSD	0.80559215	0.19349833	0.43861762	0.61186969	0.60844486	0.92433210	0.69777178
Int SD	483.05400000	135.05700000	142.02000000	188.70000000	146.93700000	278.93200000	3731.83000000
RelInt Mean	0.02777390	0.01390740	0.00381889	0.00500016	0.00389230	0.00587032	0.53572500
RelInt RSD	0.29564879	0.39715763	0.43892335	0.69113788	1.28854919	1.42654404	0.27353026
RelInt SD	0.00008211	0.00005523	0.00001676	0.00003456	0.00005015	0.00008374	0.00146537
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	768324	24549.9000000	47788.5000000	3665840	55378600	985603	405640
Int RSD	1.87669525	0.61594956	1.66204212	0.10009684	0.12593384	0.51456925	0.47673553
Int SD	14419.1000000	151.21500000	794.26500000	3669.39000000	69740.4000000	5071.61000000	1933.83000000
RelInt Mean	0.01169860	0.00413501	0.00035425	---	---	---	0.10797300
RelInt RSD	2.25746671	1.04412807	3.06421381	---	---	---	0.56254990
RelInt SD	0.00026409	0.00004317	0.00001086	---	---	---	0.00060740
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	21821.7000000	38114.9000000	21991.5000000	8423.39000000	61710.6000000	9161.94000000	
Int RSD	0.84584152	1.00741180	0.65325239	1.80320512	0.35258934	0.13018749	
Int SD	184.57700000	383.97400000	143.66000000	151.89100000	217.58500000	11.92770000	
RelInt Mean	0.01288760	0.00733319	0.00078436	0.00009203	0.01199000	-0.00006341	
RelInt RSD	1.68260964	0.62870592	8.85618303	37.06404414	0.43395663	6.71506947	
RelInt SD	0.00021685	0.00004610	0.00006946	0.00003411	0.00005203	0.00000426	

Method Name: Met06_Master011923

Method Autor:

Operator

Sample Name: ICAL,L4,S18958

Sample Type: Calibration Sample

Measure Date: 2023-10-04 08:30:21

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	112472	38881.7000000	71071.7000000	252969	1190650	282088	369225
Int RSD	0.18329718	0.65321990	0.34310844	0.45691369	0.25740058	0.32452107	0.20560932
Int SD	206.15800000	253.98300000	243.85300000	1155.85000000	3064.74000000	915.43500000	759.16100000
RelInt Mean	0.00003775	0.02107780	0.01730360	0.06586950	0.32918700	0.28249200	0.09853450
RelInt RSD	37.12545663	0.67819697	0.40836358	0.29567250	0.50326410	0.49593263	0.63120430
RelInt SD	0.00001401	0.00014295	0.00007066	0.00019476	0.00165668	0.00140097	0.00062195
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	603213	1674780	2165790	33161.9000000	55275.7000000	5319810	493206
Int RSD	0.34760358	2.12328783	0.55101372	1.00417950	1.41854377	0.49674894	0.46504300
Int SD	2096.79000000	35560.4000000	11933.8000000	333.00500000	784.11000000	26426.1000000	2293.62000000
RelInt Mean	0.16439100	0.02945340	0.60243700	0.02597830	0.03475060	1.48924000	0.13526500
RelInt RSD	0.53383336	2.50828767	0.15077925	1.36437719	2.05811698	0.27773227	0.64358555
RelInt SD	0.00087757	0.00073878	0.00090835	0.00035444	0.00071521	0.00413610	0.00087055
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	286570	510960	151156	188488	153245	214712	5138970
Int RSD	0.43481872	0.38141733	0.39013999	0.49938988	0.68271069	0.11381059	1.15510696
Int SD	1246.06000000	1948.89000000	589.72000000	941.29000000	1046.22000000	244.36500000	59360.6000000
RelInt Mean	0.26307500	0.13805100	0.03712540	0.04929130	0.04017440	0.05783090	5.32230000
RelInt RSD	0.38588235	0.80195725	1.16321171	0.51655769	0.50884643	0.82713740	1.21600248
RelInt SD	0.00101516	0.00110711	0.00043185	0.00025462	0.00020443	0.00047834	0.06471930
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	6478870	158526	205270	3579770	53417500	980495	3925580
Int RSD	2.32690269	0.34815677	1.75333463	0.70288873	0.26144054	0.16447611	0.30146628
Int SD	150757	551.91900000	3599.07000000	25161.8000000	139655	1612.68000000	11834.3000000
RelInt Mean	0.11914000	0.04182110	0.00330549	---	---	---	1.09971000
RelInt RSD	2.63352359	0.71861572	2.30717080	---	---	---	0.40582790
RelInt SD	0.00313758	0.00030053	0.00007626	---	---	---	0.00446293
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	131036	102289	26641.2000000	9530.49000000	445774	10055.0000000	
Int RSD	0.56780274	0.42624329	0.53288140	0.62470555	0.41367150	0.43771556	
Int SD	744.02600000	436.00000000	141.96600000	59.53750000	1844.04000000	44.01230000	
RelInt Mean	0.12638700	0.07395550	0.00199419	0.00031655	0.11995000	0.00007175	
RelInt RSD	0.56644671	0.54338893	2.21656412	6.42280172	0.85609004	4.47469320	
RelInt SD	0.00071592	0.00040187	0.00004420	0.00002033	0.00102688	0.00000321	

Method Name: Met06_Master011923

Method Autor:

Operator

Sample Name: ICAL,L5,S18957

Sample Type: Calibration Sample

Measure Date: 2023-10-04 08:33:37

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	117114	114848	312525	1159830	5587790	1292990	1648750
Int RSD	1.06594429	0.83814781	0.37524038	0.26945414	0.28700792	0.30031709	0.28912752
Int SD	1248.37000000	962.59600000	1172.72000000	3125.21000000	16037.40000000	3883.07000000	4766.99000000
RelInt Mean	-0.00000097	0.09853110	0.08805950	0.33241900	1.62335000	1.35520000	0.47467900
RelInt RSD	1908.19334273	0.65266601	0.30894452	0.04743742	0.04377288	0.96892710	0.04535844
RelInt SD	0.00001844	0.00064308	0.00027206	0.00015769	0.00071059	0.01313090	0.00021531
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	2707220	7647860	10147800	128791	180880	25101600	2285870
Int RSD	0.29320521	1.60206908	0.30565049	1.34859579	0.53561588	0.79375020	0.34910472
Int SD	7937.71000000	122524	31016.80000000	1736.87000000	968.82200000	199244	7980.08000000
RelInt Mean	0.78313900	0.14959400	2.95235000	0.12744000	0.16783400	7.31348000	0.66255600
RelInt RSD	0.06060916	1.79402249	0.12623232	0.34877197	0.56709487	0.62606857	0.10392012
RelInt SD	0.00047465	0.00268375	0.00372682	0.00044448	0.00095178	0.04578740	0.00068853
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1208720	2318450	661499	924455	741055	1015770	24318000
Int RSD	0.54044196	0.25754922	0.27352422	0.05481543	0.24840936	0.39686839	0.58772925
Int SD	6532.43000000	5971.15000000	1809.36000000	506.74400000	1840.85000000	4031.27000000	142924
RelInt Mean	1.24110000	0.66967200	0.18668400	0.26505100	0.21279300	0.29326700	25.68460000
RelInt RSD	1.55012489	0.01953971	0.26552034	0.29865498	0.39050110	0.24569215	1.41832071
RelInt SD	0.01923860	0.00013085	0.00049568	0.00079159	0.00083096	0.00072053	0.36429000
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	29857500	711863	882934	3452250	50415900	964057	18335000
Int RSD	1.73128360	0.03208778	2.09363327	0.24509088	0.44102357	1.08514331	0.50359913
Int SD	516918	228.42100000	18485.40000000	8461.15000000	222346	10461.40000000	92334.90000000
RelInt Mean	0.59053900	0.20423400	0.01692290	---	---	---	5.34218000
RelInt RSD	1.95258908	0.27601526	2.33679216	---	---	---	0.44155944
RelInt SD	0.01153080	0.00056372	0.00039545	---	---	---	0.02358890
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	631265	379280	47931.60000000	14038.60000000	2087760	13337.80000000	
Int RSD	1.09728244	1.43952489	0.67328652	1.50799937	0.33446948	0.75023617	
Int SD	6926.76000000	5459.83000000	322.71700000	211.70200000	6982.92000000	100.06500000	
RelInt Mean	0.65642300	0.36687600	0.00789831	0.00125517	0.60225800	0.00073538	
RelInt RSD	0.15543331	0.50918839	0.92708567	3.46535529	0.09157155	4.63355199	
RelInt SD	0.00102030	0.00186809	0.00007322	0.00004350	0.00055150	0.00003407	

Sample Name: ICAL,L6,S18729

Sample Type: Calibration Sample

Measure Date: 2023-10-04 08:36:52

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	120870	202768	583449	2177260	10336200	2402550	3052150
Int RSD	0.55917101	0.22817802	0.27584588	0.44606340	0.18581781	0.46739090	0.21828449
Int SD	675.87000000	462.67200000	1609.42000000	9711.96000000	19206.50000000	11229.30000000	6662.37000000
RelInt Mean	-0.00003992	0.19029200	0.17100700	0.64491100	3.08480000	2.55703000	0.90618300
RelInt RSD	25.50883653	0.89004267	0.23043910	0.60236994	0.35188991	0.45745650	0.31782101
RelInt SD	0.00001018	0.00169368	0.00039407	0.00388475	0.01085510	0.01169730	0.00288004
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	5047070	14040900	18365700	233626	323434	44980000	4237870
Int RSD	0.26222937	2.21220862	0.07774874	0.44134643	0.71693143	0.27265229	0.20231791
Int SD	13234.90000000	310614	14279.10000000	1031.10000000	2318.80000000	122639	8573.97000000
RelInt Mean	1.50220000	0.28762600	5.48575000	0.24103400	0.32195300	13.44670000	1.26290000
RelInt RSD	0.44458661	1.74507520	0.20769813	0.02417717	0.54466956	0.34272870	0.41211735
RelInt SD	0.00667858	0.00501929	0.01139380	0.00005828	0.00175358	0.04608570	0.00520463
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2142810	4254520	1189860	1633500	1371200	1796470	44110300
Int RSD	0.58071878	0.19003742	0.21496142	0.36521641	0.49599256	0.21089303	1.11533134
Int SD	12443.70000000	8085.18000000	2557.74000000	5965.81000000	6801.05000000	3788.63000000	491976
RelInt Mean	2.25249000	1.26522000	0.34890300	0.48336100	0.40647000	0.53400500	47.15160000
RelInt RSD	0.43735599	0.37307899	0.39392897	0.52532786	0.65787635	0.32993511	1.52898311
RelInt SD	0.00985140	0.00472027	0.00137443	0.00253923	0.00267407	0.00176187	0.72094000
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	54812000	1282440	1561000	3367690	48439800	952748	33537900
Int RSD	2.13422243	0.18658573	1.73684177	0.22178615	0.49496488	0.51144059	0.11852263
Int SD	1169810	2392.85000000	27112.10000000	7469.07000000	239760	4872.74000000	39750.00000000
RelInt Mean	1.13057000	0.37959200	0.03159600	---	---	---	10.02590000
RelInt RSD	1.64727527	0.37189667	1.26128307	---	---	---	0.24372575
RelInt SD	0.01862360	0.00141169	0.00039852	---	---	---	0.02443570
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	1124050	682919	69991.70000000	18801.50000000	3964330	16537.60000000	
Int RSD	0.65296473	0.50015302	0.55396140	0.93701034	0.28273126	1.54945699	
Int SD	7339.65000000	3415.64000000	387.72700000	176.17200000	11208.40000000	256.24300000	
RelInt Mean	1.18978000	0.69481700	0.01435280	0.00237974	1.17778000	0.00138513	
RelInt RSD	0.43002152	0.06757851	0.45233265	2.95325960	0.42463448	7.17838759	
RelInt SD	0.00511631	0.00046955	0.00006492	0.00007028	0.00500126	0.00009943	

Sample Name: ICAL,L7,S18998

Sample Type: Calibration Sample

Measure Date: 2023-10-04 08:40:09

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	2633370	18064.2000000	9025.52000000	24558.0000000	19759.8000000	13973.9000000	18538.2000000
Int RSD	1.15839779	2.71576378	0.51377538	1.36306295	1.00536949	1.87412247	0.82527430
Int SD	30504.9000000	490.58100000	46.37090000	334.74100000	198.65900000	261.88800000	152.99100000
RelInt Mean	0.04498300	0.00032851	-0.00007334	0.00161817	0.00014486	0.00404060	0.00003199
RelInt RSD	0.93954605	91.12391633	16.41351891	9.25965751	40.13102306	1.82590952	73.33493824
RelInt SD	0.00042264	0.00029935	0.00001204	0.00014984	0.00005813	0.00007378	0.00002346
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	17871.3000000	110657	50050.8000000	8962.11000000	20897.8000000	23038.9000000	18577.2000000
Int RSD	1.53693352	1.88635152	25.34025430	2.10714887	1.09958943	0.89611049	16.85749198
Int SD	274.67000000	2087.38000000	12683.0000000	188.84500000	229.79000000	206.45400000	3131.65000000
RelInt Mean	0.00004751	0.00013562	0.00758649	0.00094768	-0.00086538	0.00050168	0.00187308
RelInt RSD	70.11098226	29.51887982	46.68338059	1.10376804	8.57548129	17.55838336	47.26712153
RelInt SD	0.00003331	0.00004003	0.00354163	0.00001046	0.00007421	0.00008809	0.00088535
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	33901.2000000	19646.8000000	18663.9000000	14117.4000000	10661.8000000	13175.5000000	17134.4000000
Int RSD	1.14664378	1.55345400	1.15734118	1.47355745	0.89621546	12.35854427	1.48997922
Int SD	388.72600000	305.20400000	216.00500000	208.02800000	95.55270000	1628.30000000	255.29900000
RelInt Mean	0.00087632	0.00004155	-0.00004272	0.00035062	0.00013930	0.00114142	0.00071702
RelInt RSD	1.79234431	94.76905378	32.00426948	27.58618231	21.96081810	39.83800880	38.33533235
RelInt SD	0.00001571	0.00003938	0.00001367	0.00009672	0.00003059	0.00045472	0.00027487
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	407804	9890.18000000	31957.6000000	3705990	56108300	981884	15025.7000000
Int RSD	14.53933752	4.00347618	2.50316357	0.17102906	0.27445316	0.03509977	1.33277651
Int SD	59292.0000000	395.95100000	799.95100000	6338.32000000	153991	344.63900000	200.25900000
RelInt Mean	0.00505770	0.00007039	0.00005107	---	---	---	0.00071723
RelInt RSD	21.52243114	153.83719311	21.65853410	---	---	---	10.49262931
RelInt SD	0.00108854	0.00010829	0.00001106	---	---	---	0.00007526
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8967.96000000	30673.7000000	23470.5000000	8402.88000000	19126.6000000	9313.75000000	
Int RSD	1.42875303	1.05129476	6.26880552	1.29842387	0.78752627	0.19365240	
Int SD	128.13000000	322.47100000	1471.32000000	109.10500000	150.62700000	18.03630000	
RelInt Mean	-0.00034265	-0.00025111	0.00106164	0.00005418	0.00020866	-0.00007932	
RelInt RSD	26.15307614	26.82161930	36.23130251	36.54664654	12.85952544	23.82318232	
RelInt SD	0.00008961	0.00006735	0.00038465	0.00001980	0.00002683	0.00001890	

Sample Name: ICAL,L8,S18727

Sample Type: Calibration Sample

Measure Date: 2023-10-04 08:43:24

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	114258	18285.8000000	9001.74000000	23064.6000000	19637.8000000	14312.9000000	18726.9000000
Int RSD	0.56888533	1.18296711	0.11600979	0.44282580	0.52746234	1.67818541	1.06985673
Int SD	649.99700000	216.31500000	10.44290000	102.13600000	103.58200000	240.19700000	200.35100000
RelInt Mean	0.00003019	0.00031770	-0.00010074	0.00111910	0.00003980	0.00423766	0.00002730
RelInt RSD	15.74930445	38.71547505	5.73945067	2.19135913	38.95043380	3.40076835	75.12105252
RelInt SD	0.00000476	0.00012300	0.00000578	0.00002452	0.00001550	0.00014411	0.00002051
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	18016.4000000	108849	28778.4000000	9157.62000000	21269.3000000	22793.6000000	12647.1000000
Int RSD	1.18711840	0.21775579	2.14082089	1.25946480	1.36681508	0.64010073	1.04827984
Int SD	213.87600000	237.02500000	616.09400000	115.33700000	290.71200000	145.90200000	132.57700000
RelInt Mean	0.00003844	0.00009832	0.00170133	0.00094011	-0.00057329	0.00031173	0.00024414
RelInt RSD	58.58487842	5.82224831	11.13011585	6.24850815	26.28914713	10.98764323	29.47632291
RelInt SD	0.00002252	0.00000572	0.00018936	0.00005874	0.00015071	0.00003425	0.00007196
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	33965.5000000	19884.2000000	18732.4000000	13159.9000000	10448.2000000	9967.42000000	17058.8000000
Int RSD	0.88318441	0.69192625	1.12840853	0.86887438	0.19834326	2.08748101	1.08241494
Int SD	299.97800000	137.58400000	211.37800000	114.34300000	20.72330000	208.06800000	184.64700000
RelInt Mean	0.00059834	0.00005512	-0.00008985	0.00005474	0.00005699	0.00024120	0.00043151
RelInt RSD	15.58194143	76.96204277	69.84436317	16.57217752	17.57058380	28.41105454	24.36107789
RelInt SD	0.00009323	0.00004242	0.00006276	0.00000907	0.00001001	0.00006853	0.00010512
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	201753	9471.21000000	30956.7000000	3804510	57525100	1008730	14528.6000000
Int RSD	2.00528865	0.38076972	1.00542370	0.60504769	0.11410428	0.46532472	0.53488843
Int SD	4045.73000000	36.06350000	311.24600000	23019.1000000	65638.6000000	4693.87000000	77.71180000
RelInt Mean	0.00132964	-0.00007036	0.00003337	---	---	---	0.00056405
RelInt RSD	4.37029572	23.92092491	5.11164982	---	---	---	1.85458736
RelInt SD	0.00005811	0.00001683	0.00000171	---	---	---	0.00001046
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9075.31000000	30997.4000000	1912950	1004650	19103.0000000	383304	
Int RSD	1.72163816	0.42463239	0.66440837	0.33901259	0.74056954	0.42647872	
Int SD	156.24400000	131.62500000	12709.8000000	3405.89000000	141.47100000	1634.71000000	
RelInt Mean	-0.00028313	-0.00014646	0.50012200	0.26326300	0.00015029	0.09872820	
RelInt RSD	32.40562706	64.50786541	0.40738460	0.85531959	24.13125204	0.84458544	
RelInt SD	0.00009175	0.00009448	0.00203742	0.00225174	0.00003627	0.00083384	

Sample Name: ICV,S19137

Sample Type: Control Sample

Measure Date: 2023-10-04 08:46:52

Recalculation Date:

State: Check failed

Quality: Failed

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	690572	31066.5000000	68106.1000000	240164	1128640	1237080	684267
Int RSD	1.60653777	1.09788035	0.72638134	0.46355824	0.11535388	0.67085556	0.08383058
Int SD	11094.3000000	341.07300000	494.71000000	1113.30000000	1301.93000000	8299.02000000	573.62500000
RelInt Mean	0.01108090	0.00992779	0.01659750	0.06286540	0.31580900	1.29778000	0.18938200
RelInt RSD	2.49102510	4.35720337	0.77139931	0.65414839	0.25981020	0.83450200	0.26871720
RelInt SD	0.00027603	0.00043257	0.00012803	0.00041123	0.00082050	0.01083000	0.00050890
Conc Mean	0.49184100[mg/l]	0.99055700[mg/l]	0.96943700[mg/l]	0.95940800[mg/l]	1.00845000[mg/l]	50.02630000[mg/l]	1.03207000[mg/l]
Conc RSD	2.49627420	4.56666300	0.76697712	0.66120670	0.26030839	0.83737954	0.26896141
Conc SD	0.01227770[mg/l]	0.04523540[mg/l]	0.00743536[mg/l]	0.00634367[mg/l]	0.00262508[mg/l]	0.41891000[mg/l]	0.00277587[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	550422	1551340	1022510	75973.6000000	172175	4882860	453118
Int RSD	0.15341974	1.71145590	0.17373229	1.04768104	0.38029447	0.24974503	0.21949647
Int SD	844.45600000	26550.5000000	1776.43000000	795.96100000	654.77200000	12194.7000000	994.57800000
RelInt Mean	0.15131400	0.02774070	0.28469000	0.07168760	0.15856700	1.38485000	0.12558400
RelInt RSD	0.35055051	2.44163630	0.13096034	1.28631172	0.53359589	0.09185832	0.31822366
RelInt SD	0.00053043	0.00067733	0.00037283	0.00092213	0.00084611	0.00127210	0.00039964
Conc Mean	0.99743300[mg/l]	0.95348400[mg/l]	1.01706000[mg/l]	58.37110000[mg/l]	48.86410000[mg/l]	1.00974000[mg/l]	0.98399400[mg/l]
Conc RSD	0.35047166	2.45015123	0.13152616	1.29956777	0.53161114	0.09154396	0.31794096
Conc SD	0.00349572[mg/l]	0.02336180[mg/l]	0.00133770[mg/l]	0.75857200[mg/l]	0.25976700[mg/l]	0.00092436[mg/l]	0.00312852[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	620230	470178	142270	72549.1000000	55902.9000000	981567	975250
Int RSD	0.41710333	0.17571622	0.10267238	0.31000522	0.18124104	0.07533546	0.39239169
Int SD	2587.00000000	826.17900000	146.07200000	224.90600000	101.31900000	739.46800000	3826.80000000
RelInt Mean	0.62020100	0.12806200	0.03491870	0.01686450	0.01292150	0.27701100	1.01477000
RelInt RSD	0.54819970	0.42608658	0.27080504	0.24258591	0.36653639	0.22439181	0.10312090
RelInt SD	0.00339994	0.00054566	0.00009456	0.00004091	0.00004736	0.00062159	0.00104644
Conc Mean	53.77900000[mg/l]	0.99877400[mg/l]	0.98786200[mg/l]	1.01931000[mg/l]	0.94288000[mg/l]	5.07646000[mg/l]	1.05334000[mg/l]
Conc RSD	0.54867699	0.42625058	0.26890193	0.24568188	0.36709549	0.22453048	0.10329713
Conc SD	0.29507300[mg/l]	0.00425728[mg/l]	0.00265638[mg/l]	0.00250426[mg/l]	0.00346127[mg/l]	0.01139820[mg/l]	0.00108807[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	6021230	57181.1000000	363000	3532420	52181700	963056	1247320
Int RSD	2.41279606	0.09304193	2.19568044	0.29409017	0.69030139	0.31450611	0.12636773
Int SD	145280	53.20240000	7970.32000000	10388.5000000	360211	3028.87000000	1576.21000000
RelInt Mean	0.11314000	0.01345370	0.00638285	---	---	---	0.35159900
RelInt RSD	3.04442284	0.24494377	2.79516204	---	---	---	0.17784436
RelInt SD	0.00344446	0.00003295	0.00017841	---	---	---	0.00062530
Conc Mean	0.99093900[mg/l]	1.04690000[mg/l]	0.99085700[mg/l]	3509510	52023800	944616	1.03460000[mg/l]
Conc RSD	3.04537414	0.24257236	2.80960825	---	---	---	0.17762324
Conc SD	0.03017780[mg/l]	0.00253949[mg/l]	0.02783920[mg/l]	10460.7000000	359990	3243.72000000	0.00183769[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	390067	97170.8000000	1049910	511741	830492	202992	
Int RSD	0.61145393	0.59605046	0.19798649	0.04165994	0.00671318	0.19930736	
Int SD	2385.08000000	579.18700000	2078.68000000	213.19100000	55.75240000	404.57800000	
RelInt Mean	0.40244800	0.06993760	0.29296800	0.14322500	0.23076800	0.05492460	
RelInt RSD	0.33363068	0.70393465	0.09580637	0.27246081	0.28069706	0.24435317	
RelInt SD	0.00134269	0.00049232	0.00028068	0.00039023	0.00064776	0.00013421	
Conc Mean	0.99252500[mg/l]	0.99623800[mg/l]	5.83041000[mg/l]	5.43891000[mg/l]	0.97105900[mg/l]	5.56704000[mg/l]	
Conc RSD	0.33346767	0.70257107	0.09574352	0.27250865	0.28190975	0.24400579	
Conc SD	0.00330975[mg/l]	0.00699928[mg/l]	0.00558224[mg/l]	0.01482150[mg/l]	0.00273751[mg/l]	0.01358390[mg/l]	

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377012	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 08:53
Caldate: 04-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	55495600	-1.86
Yttrium	A	3744470	3710350	-0.91
Yttrium	R	1003900	973724	-3.01

Sample Name: ICB,1				Sample Type: Control Sample			
Measure Date: 2023-10-04 08:53:23			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	113625	18114.7000000	8821.02000000	21197.2000000	19300.5000000	14087.9000000	18691.5000000
Int RSD	0.33961452	0.25073559	0.41480917	0.23869426	0.86506567	1.28540805	0.49596769
Int SD	385.88700000	45.42000000	36.59040000	50.59650000	166.96200000	181.08700000	92.70380000
RelInt Mean	0.00002671	0.00012227	-0.00010777	0.00070581	0.00000248	0.00418981	0.00008854
RelInt RSD	42.59733453	76.46421357	7.84659924	1.62464403	2092.29827127	6.88570603	25.80940645
RelInt SD	0.00001138	0.00009349	0.00000846	0.00001147	0.00005193	0.00028850	0.00002285
Conc Mean	<0.00009031[mg/l]	<0.03478900[mg/l]	<0.00023720[mg/l]	<0.00045906[mg/l]	<0.00017805[mg/l]	<0.00219187[mg/l]	<0.00014472[mg/l]
Conc RSD	560.51069673	28.10132513	206.98985249	38.53466416	93.39211997	509.04478824	86.25791205
Conc SD	0.00050619[mg/l]	0.00977617[mg/l]	0.00049098[mg/l]	0.00017690[mg/l]	0.00016628[mg/l]	0.01115760[mg/l]	0.00012483[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	17726.2000000	108038	25190.5000000	8983.41000000	21229.6000000	22145.7000000	11844.0000000
Int RSD	0.38416412	0.39414280	0.88329727	0.14372493	0.65786449	0.79260985	0.64851908
Int SD	68.09770000	425.82400000	222.50700000	12.91140000	139.66200000	175.52900000	76.81060000
RelInt Mean	-0.00000130	0.00009207	0.00081920	0.00071761	-0.00069864	0.00023813	0.00005232
RelInt RSD	1078.96847430	8.69525977	6.05864775	14.47501355	9.07525149	12.76627822	33.85239666
RelInt SD	0.00001399	0.00000801	0.00004963	0.00010387	0.00006340	0.00003040	0.00001771
Conc Mean	<0.00035672[mg/l]	<0.00016388[mg/l]	<0.00090560[mg/l]	<0.01301930[mg/l]	<0.01510450[mg/l]	<0.00028197[mg/l]	<0.00059479[mg/l]
Conc RSD	25.86339426	168.50847271	19.65335536	656.35172398	128.82783277	7.86461824	23.32669239
Conc SD	0.00009226[mg/l]	0.00027615[mg/l]	0.00017798[mg/l]	0.08545240[mg/l]	0.01945880[mg/l]	0.00002218[mg/l]	0.00013875[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	33769.0000000	19672.6000000	18501.0000000	12908.8000000	10200.4000000	10095.1000000	16962.2000000
Int RSD	0.26845124	0.25949392	0.14196584	0.91151772	0.30851437	1.31636140	0.79783283
Int SD	90.65330000	51.04920000	26.26510000	117.66600000	31.46970000	132.88800000	135.33000000
RelInt Mean	0.00052584	0.00005786	-0.00009452	0.00003716	0.00002587	0.00032467	0.00030602
RelInt RSD	38.39693902	26.88225006	12.36956009	82.18944705	19.73607299	11.07780208	21.14995000
RelInt SD	0.00020191	0.00001555	0.00001169	0.00003054	0.00000511	0.00003597	0.00006472
Conc Mean	<0.00317149[mg/l]	<0.00008245[mg/l]	<0.00007663[mg/l]	<0.00204299[mg/l]	<0.00006422[mg/l]	0.00384962[mg/l]	<0.00123236[mg/l]
Conc RSD	552.53839678	147.21910572	427.40251605	90.90303917	581.16989787	17.12862568	5.45967899
Conc SD	0.01752370[mg/l]	0.00012138[mg/l]	0.00032751[mg/l]	0.00185714[mg/l]	0.00037324[mg/l]	0.00065939[mg/l]	0.00006728[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	134048	9274.67000000	30993.5000000	3710350	55495600	973724	13417.8000000
Int RSD	0.10037598	0.41902839	0.43645603	0.34780816	0.50709966	0.66160740	0.61937203
Int SD	134.55200000	38.86350000	135.27300000	12904.9000000	281418	6442.23000000	83.10610000
RelInt Mean	0.00016536	-0.00008018	0.00003461	---	---	---	0.00029811
RelInt RSD	7.15348331	22.29596075	4.90089242	---	---	---	12.05811317
RelInt SD	0.00001183	0.00001788	0.00000170	---	---	---	0.00003595
Conc Mean	0.00114962[mg/l]	<0.00046415[mg/l]	<0.00054208[mg/l]	3688020	55341400	955116	<0.00110778[mg/l]
Conc RSD	9.01515283	299.19702509	48.84759558	---	---	---	9.56769395
Conc SD	0.00010364[mg/l]	0.00138872[mg/l]	0.00026479[mg/l]	12931.4000000	281372	6409.84000000	0.00010599[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9104.87000000	30937.4000000	21379.6000000	8518.28000000	18825.0000000	9147.96000000	
Int RSD	2.45502682	0.95118853	0.31740865	0.06752596	1.26373440	0.24064163	
Int SD	223.52700000	294.27300000	67.86070000	5.75205000	237.89800000	22.01380000	
RelInt Mean	-0.00024687	-0.00028116	0.00049303	0.00009855	0.00013815	-0.00008581	
RelInt RSD	66.62224293	26.34039208	9.13622765	18.96271989	36.52722785	3.12570359	
RelInt SD	0.00016447	0.00007406	0.00004504	0.00001869	0.00005046	0.00000268	
Conc Mean	<0.00009458[mg/l]	<0.00197580[mg/l]	<0.00312419[mg/l]	<0.00056058[mg/l]	<0.00004469[mg/l]	<0.00006246[mg/l]	
Conc RSD	428.64680201	53.28575767	28.77648286	126.67420649	479.27450125	434.59618359	
Conc SD	0.00040540[mg/l]	0.00105282[mg/l]	0.00089903[mg/l]	0.00071011[mg/l]	0.00021417[mg/l]	0.00027143[mg/l]	

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 493300 METALS Wipe
EPA 6010B

Inst: MET06	File: met06_master011	IDF: 1.0
Seqnum: 483399377013	Caldate: 04-OCT-2023	Time: 04-OCT-2023 08:56
Cal: 483399377001		

Standards: S18677, S14463 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.01021]	0.003334	mg/l	a- ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	138.9	mg/l	87	
Aluminum	R	400.0	383.8	mg/l	96	
Calcium	R	400.0	394.4	mg/l	99	
Magnesium	R	400.0	382.2	mg/l	96	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	46506600	-17.75
Yttrium	A	3744470	3188350	-14.85
Yttrium	R	1003900	917661	-8.59

--low bias a=ICSA

Sample Name: ICSA,S18677					Sample Type: Control Sample		
Measure Date: 2023-10-04 08:56:38			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	108637	3344430	22037.0000000	26726.2000000	26129.3000000	9198740	21419.6000000
Int RSD	0.68772978	0.37104081	0.22719971	0.66139219	0.68056932	0.48003313	0.85568358
Int SD	747.12900000	12409.2000000	50.06800000	176.76500000	177.82800000	44157.0000000	183.28400000
RelInt Mean	0.00001937	3.67113000	-0.00011203	0.00102066	0.00143609	10.20250000	0.00017190
RelInt RSD	80.39211638	1.45067867	12.38554712	3.80033508	3.39989834	1.50993384	17.75138600
RelInt SD	0.00001557	0.05325630	0.00001388	0.00003879	0.00004883	0.15405100	0.00003051
Conc Mean	<0.00023622[mg/l]	>383.83600000[mg/l]	<-0.00000911[mg/l]	0.00531634[mg/l]	0.00441952[mg/l]	>394.40800000[mg/l]	<0.00059621[mg/l]
Conc RSD	293.27632554	1.45104420	8846.76835770	11.25563828	3.55233147	1.51093791	27.92077315
Conc SD	0.00069279[mg/l]	5.56963000[mg/l]	0.00080565[mg/l]	0.00059839[mg/l]	0.00015700[mg/l]	5.95926000[mg/l]	0.00016647[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	20986.6000000	109513	122527000	8122.72000000	1146470	44057.5000000	32326.1000000
Int RSD	0.25353321	0.97090756	0.20024566	2.95924272	0.29525500	1.09343699	0.19481688
Int SD	53.20800000	1063.27000000	245355	240.37100000	3385.01000000	481.74100000	62.97670000
RelInt Mean	-0.00021423	0.00016210	38.73210000	0.00073821	1.24471000	0.00458366	-0.00003635
RelInt RSD	11.12420180	5.26593008	0.43828762	23.09272010	1.22275068	2.45066170	47.70464024
RelInt SD	0.00002383	0.00000854	0.16975800	0.00017047	0.01521970	0.00011233	0.00001734
Conc Mean	<0.00176084[mg/l]	0.00225143[mg/l]	>138.89000000[mg/l]	<0.00392953[mg/l]	>382.20400000[mg/l]	0.00288795[mg/l]	<-0.00009983[mg/l]
Conc RSD	8.92466096	13.07671125	0.43857441	3568.92554580	1.22230275	2.83734137	136.07779423
Conc SD	0.00015715[mg/l]	0.00029441[mg/l]	0.60913600[mg/l]	0.14024200[mg/l]	4.67169000[mg/l]	0.00008194[mg/l]	0.00013585[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	31942.0000000	22347.8000000	52309.5000000	36662.1000000	26945.2000000	22563.3000000	18158.4000000
Int RSD	1.52050592	0.72470668	0.75557212	0.58341448	0.34948748	0.49771088	1.72462331
Int SD	485.68000000	161.95600000	395.23600000	213.89200000	94.17010000	112.30000000	313.16400000
RelInt Mean	0.00212801	0.00014568	0.00381739	0.00002325	0.00019884	0.00014569	0.00270662
RelInt RSD	9.66889253	31.21844903	3.26401023	241.79347779	6.88342386	42.72060842	3.64600129
RelInt SD	0.00020576	0.00004548	0.00012460	0.00005622	0.00001369	0.00006224	0.00009868
Conc Mean	<0.13588200[mg/l]	<0.00060280[mg/l]	<-0.01021330[mg/l]	<0.00120575[mg/l]	0.01271050[mg/l]	<0.00056828[mg/l]	<0.00126315[mg/l]
Conc RSD	13.14228522	58.87163800	20.65796559	283.54385237	7.87286102	200.78975014	8.12120492
Conc SD	0.01785800[mg/l]	0.00035488[mg/l]	0.00210986[mg/l]	0.00341883[mg/l]	0.00100068[mg/l]	0.00114105[mg/l]	0.00010258[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	144339	22913.6000000	34464.7000000	3188350	46506600	917661	38337.4000000
Int RSD	0.96346795	0.38360973	0.48218032	0.60237113	0.46277518	1.05119320	0.26994006
Int SD	1390.66000000	87.89880000	166.18200000	19205.7000000	215221	9646.39000000	103.48800000
RelInt Mean	0.00041044	-0.00007358	0.00002700	---	---	---	0.00111713
RelInt RSD	2.49200250	47.86108031	18.18502650	---	---	---	0.95891257
RelInt SD	0.00001023	0.00003522	0.00000491	---	---	---	0.00001071
Conc Mean	0.00329680[mg/l]	<0.00097329[mg/l]	<-0.00064529[mg/l]	3162620	46334800	899874	0.00130875[mg/l]
Conc RSD	2.71809330	281.14112281	118.76585530	---	---	---	2.41507545
Conc SD	0.00008961[mg/l]	0.00273631[mg/l]	0.00076638[mg/l]	19364.4000000	216475	9893.40000000	0.00003161[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	8441.68000000	28234.3000000	28301.1000000	17202.0000000	21817.6000000	23505.0000000	
Int RSD	1.49604107	1.29118484	0.91449096	0.78219974	0.82723123	0.14364348	
Int SD	126.29100000	364.55700000	258.81100000	134.55400000	180.48200000	33.76340000	
RelInt Mean	-0.00027051	-0.00027052	0.00116425	0.00010491	-0.00035304	0.00092592	
RelInt RSD	68.52500832	33.19112678	8.25707537	54.22353558	4.94197591	3.05590626	
RelInt SD	0.00018537	0.00008979	0.00009613	0.00005688	0.00001745	0.00002830	
Conc Mean	<-0.00015286[mg/l]	<-0.00182451[mg/l]	0.01032980[mg/l]	<0.00080189[mg/l]	<-0.00211954[mg/l]	0.10232600[mg/l]	
Conc RSD	298.91534028	69.95960559	18.65970300	269.53629666	3.46719571	2.79876082	
Conc SD	0.00045692[mg/l]	0.00127642[mg/l]	0.00192751[mg/l]	0.00216139[mg/l]	0.00007349[mg/l]	0.00286386[mg/l]	

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377014	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 08:59
Caldate: 04-OCT-2023	

Standards: S19108, S14463 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9764	mg/l	-2	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	46292100	-18.13
Yttrium	A	3744470	3178490	-15.12
Yttrium	R	1003900	911562	-9.20

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICSAB,S19108				Sample Type: Control Sample			
Measure Date: 2023-10-04 08:59:57			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	1228370	3373770	22127.4000000	26599.3000000	527845	9309940	302412
Int RSD	1.25401955	0.60299013	0.80398059	0.50637047	0.22646989	0.20637297	0.11874661
Int SD	15404.0000000	20343.5000000	177.90000000	134.69100000	1195.41000000	19213.2000000	359.10400000
RelInt Mean	0.02424250	3.72878000	-0.00013841	0.00102981	0.16052500	10.39490000	0.08923950
RelInt RSD	1.35388264	1.31601757	19.76259112	1.67706664	0.07838966	0.87506277	0.04066002
RelInt SD	0.00032821	0.04907140	0.00002735	0.00001727	0.00012584	0.09096190	0.00003628
Conc Mean	1.07734000[mg/l]	>389.86400000[mg/l]	<-0.00197467[mg/l]	0.00545759[mg/l]	0.51433700[mg/l]	>401.84900000[mg/l]	0.48694800[mg/l]
Conc RSD	1.35545882	1.31615384	80.47015451	4.88197171	0.07835096	0.87518944	0.04067252
Conc SD	0.01460290[mg/l]	5.13121000[mg/l]	0.00158902[mg/l]	0.00026644[mg/l]	0.00040299[mg/l]	3.51694000[mg/l]	0.00019805[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	255967	799138	123476000	8106.64000000	1153930	2270210	32487.4000000
Int RSD	0.32675931	1.59012586	0.31239593	0.84624826	0.64597246	0.09716546	0.39416204
Int SD	836.39600000	12707.3000000	385734	68.60230000	7454.07000000	2205.86000000	128.05300000
RelInt Mean	0.07425630	0.01506880	39.15130000	0.00074557	1.26134000	0.71062200	-0.00007825
RelInt RSD	0.21203453	1.90344288	0.47559085	14.90275187	1.35738976	0.25021460	124.76767961
RelInt SD	0.00015745	0.00028683	0.18620000	0.00011111	0.01712130	0.00177808	0.00009764
Conc Mean	0.48930700[mg/l]	0.51641100[mg/l]	>140.39300000[mg/l]	<0.00998107[mg/l]	>387.30800000[mg/l]	0.51791900[mg/l]	<-0.00042809[mg/l]
Conc RSD	0.21218785	1.91579575	0.47556716	915.79159349	1.35651988	0.25046388	178.66873788
Conc SD	0.00103825[mg/l]	0.00989338[mg/l]	0.66766300[mg/l]	0.09140580[mg/l]	5.25391000[mg/l]	0.00129720[mg/l]	0.00076486[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	31643.2000000	413525	162823	37379.4000000	27083.0000000	22548.2000000	17988.5000000
Int RSD	0.23963822	0.11893815	0.10659059	0.58262037	0.20703430	1.02455185	0.63720155
Int SD	75.82920000	491.83900000	173.55400000	217.78000000	56.07110000	231.01800000	114.62300000
RelInt Mean	0.00201536	0.12415500	0.03884440	0.00013427	0.00019554	0.00009474	0.00258681
RelInt RSD	2.25346340	0.12791350	0.12077751	66.62893063	19.91311285	51.79497302	7.42799046
RelInt SD	0.00004542	0.00015881	0.00004692	0.00008946	0.00003894	0.00004907	0.00019215
Conc Mean	<0.12610500[mg/l]	0.96828800[mg/l]	0.97642300[mg/l]	<0.00507501[mg/l]	0.01246930[mg/l]	<-0.00036584[mg/l]	<0.00113860[mg/l]
Conc RSD	3.12560168	0.12776777	0.12081956	107.26540440	22.83039144	245.89755715	17.54321096
Conc SD	0.00394154[mg/l]	0.00123716[mg/l]	0.00117971[mg/l]	0.00544373[mg/l]	0.00284679[mg/l]	0.00089960[mg/l]	0.00019975[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	145075	23438.3000000	179846	3178490	46292100	911562	1167110
Int RSD	0.79538170	0.14168690	1.29120470	0.17669648	0.19849154	0.69044015	0.14117007
Int SD	1153.90000000	33.20900000	2322.18000000	5616.28000000	91885.9000000	6293.79000000	1647.61000000
RelInt Mean	0.00041828	0.00003328	0.00316957	---	---	---	0.35893600
RelInt RSD	3.45430551	42.37272858	1.51177289	---	---	---	0.18377622
RelInt SD	0.00001445	0.00001410	0.00004792	---	---	---	0.00065964
Conc Mean	0.00336546[mg/l]	0.00927699[mg/l]	0.48978300[mg/l]	3152980	46120300	893848	1.05650000[mg/l]
Conc RSD	3.76126889	11.81051181	1.52695173	---	---	---	0.18401798
Conc SD	0.00012658[mg/l]	0.00109566[mg/l]	0.00747875[mg/l]	5782.87000000	93219.9000000	6408.78000000	0.00194415[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	195098	28067.6000000	27731.4000000	17774.6000000	791684	23859.5000000	
Int RSD	0.47100944	0.09643432	0.83358215	0.28303028	0.13091966	0.46611622	
Int SD	918.93000000	27.06680000	231.16400000	50.30750000	1036.47000000	111.21300000	
RelInt Mean	0.20826400	-0.00034524	0.00100962	0.00027926	0.24346800	0.00102991	
RelInt RSD	0.23976587	14.71161923	9.04632436	13.65966848	0.25605172	1.14811974	
RelInt SD	0.00049935	0.00005079	0.00009133	0.00003815	0.00062340	0.00001182	
Conc Mean	0.51387200[mg/l]	<-0.00288666[mg/l]	0.00724131[mg/l]	0.00742698[mg/l]	1.02826000[mg/l]	0.11284900[mg/l]	
Conc RSD	0.23956744	25.01222867	25.15152645	19.51600785	0.25560559	1.06048791	
Conc SD	0.00123107[mg/l]	0.00072202[mg/l]	0.00182130[mg/l]	0.00144945[mg/l]	0.00262829[mg/l]	0.00119675[mg/l]	

ENTHALPY CONTINUING CALIBRATION FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377178	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 21:32
Caldate: 04-OCT-2023	

Standards: S19137, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0323	0.0366	1.000	1.036	mg/l	4	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	48325800	-14.54
Yttrium	A	3744470	3334550	-10.95
Yttrium	R	1003900	882176	-12.13

Sample Name: CCV,S19137 Sample Type: Control Sample

Measure Date: 2023-10-04 21:32:05 Recalculation Date: State: Check failed Quality: Failed

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	656167	30425.4000000	65450.2000000	227959	1051390	1175490	655887
Int RSD	2.93512170	0.60565843	0.43763655	0.12502906	0.31888072	1.35568997	0.27813633
Int SD	19259.3000000	184.27400000	286.43400000	285.01500000	3352.68000000	15936.0000000	1824.26000000
RelInt Mean	0.01105540	0.00992357	0.01660530	0.06244030	0.31098300	1.34835000	0.19174700
RelInt RSD	5.42707636	3.66450783	0.53038909	0.07953181	0.39696061	0.52000297	0.35463762
RelInt SD	0.00059999	0.00036365	0.00008807	0.00004966	0.00123448	0.00701146	0.00068001
Conc Mean	0.49071000[mg/l]	0.99011400[mg/l]	0.96988000[mg/l]	0.95284900[mg/l]	0.99299800[mg/l]	51.98170000[mg/l]	1.04500000[mg/l]
Conc RSD	5.43926148	3.84064865	0.52751062	0.08036887	0.39553554	0.52171245	0.34796651
Conc SD	0.02669100[mg/l]	0.03802680[mg/l]	0.00511622[mg/l]	0.00076579[mg/l]	0.00392766[mg/l]	0.27119500[mg/l]	0.00363625[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	524164	1461170	976494	69170.0000000	159732	4638320	426773
Int RSD	0.45204554	2.44530068	0.45269300	0.79105103	0.86221296	0.12976961	0.66218810
Int SD	2369.46000000	35730.0000000	4420.52000000	547.17000000	1377.23000000	6019.13000000	2826.04000000
RelInt Mean	0.15201900	0.02792970	0.28732600	0.06982410	0.15848800	1.39384000	0.12493800
RelInt RSD	0.54741052	4.40910572	0.53077341	1.67339071	0.62433875	0.14556979	0.77519490
RelInt SD	0.00083217	0.00123145	0.00152505	0.00116843	0.00098950	0.00202901	0.00096851
Conc Mean	1.00208000[mg/l]	0.96000400[mg/l]	1.02651000[mg/l]	56.83810000[mg/l]	48.84000000[mg/l]	1.01630000[mg/l]	0.97893200[mg/l]
Conc RSD	0.54743733	4.42454406	0.53274980	1.69110157	0.62188780	0.14555446	0.77511717
Conc SD	0.00548576[mg/l]	0.04247580[mg/l]	0.00546873[mg/l]	0.96119000[mg/l]	0.30373000[mg/l]	0.00147927[mg/l]	0.00758787[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	551250	451539	142589	68605.3000000	53805.3000000	951770	912379
Int RSD	0.96108481	0.24140993	0.41628457	0.82009990	0.41976162	0.44576841	0.85438946
Int SD	5297.98000000	1090.06000000	593.57600000	562.63200000	225.85400000	4242.69000000	7795.27000000
RelInt Mean	0.59758200	0.12964600	0.03664090	0.01637040	0.01282850	0.28451300	1.03654000
RelInt RSD	0.34194972	0.33090338	0.40708880	0.99784978	0.52132595	0.51562846	0.20852934
RelInt SD	0.00204343	0.00042900	0.00014916	0.00016335	0.00006688	0.00146703	0.00216149
Conc Mean	51.81590000[mg/l]	1.01114000[mg/l]	1.03646000[mg/l]	0.98924300[mg/l]	0.93607500[mg/l]	5.21399000[mg/l]	1.07597000[mg/l]
Conc RSD	0.34225981	0.33075539	0.40708952	1.00075209	0.52251155	0.51594460	0.20940547
Conc SD	0.17734500[mg/l]	0.00334440[mg/l]	0.00421932[mg/l]	0.00989987[mg/l]	0.00489110[mg/l]	0.02690130[mg/l]	0.00225314[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	5571820	55701.6000000	340472	3334550	48325800	882176	1242040
Int RSD	3.33557078	0.13887590	2.89317771	0.10209863	1.81518154	0.85378655	0.41681266
Int SD	185852	77.35610000	9850.46000000	3404.53000000	877201	7531.90000000	5176.98000000
RelInt Mean	0.11273600	0.01360600	0.00638106	---	---	---	0.37090900
RelInt RSD	5.20873545	0.32436499	5.00097163	---	---	---	0.49210453
RelInt SD	0.00587212	0.00004413	0.00031911	---	---	---	0.00182526
Conc Mean	0.98739900[mg/l]	1.05876000[mg/l]	0.99058100[mg/l]	3310070	48160600	863391	1.09155000[mg/l]
Conc RSD	5.21010250	0.30946390	5.02705988	---	---	---	0.49301177
Conc SD	0.05144450[mg/l]	0.00327648[mg/l]	0.04979710[mg/l]	3486.12000000	876586	7547.41000000	0.00538147[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	355623	88357.2000000	1072280	481825	780255	200897	
Int RSD	1.16853522	0.50486435	0.43448633	0.34946090	0.45199454	0.40710165	
Int SD	4155.58000000	446.08400000	4658.91000000	1683.79000000	3526.71000000	817.85500000	
RelInt Mean	0.40037800	0.06475710	0.31707900	0.14266000	0.22906300	0.05744860	
RelInt RSD	0.31729516	1.43480946	0.52652809	0.37613977	0.54307767	0.42523055	
RelInt SD	0.00127038	0.00092914	0.00166951	0.00053660	0.00124399	0.00024429	
Conc Mean	0.98742300[mg/l]	0.92259300[mg/l]	6.31325000[mg/l]	5.41748000[mg/l]	0.96385600[mg/l]	5.82247000[mg/l]	
Conc RSD	0.31713663	1.43166055	0.52680157	0.37640010	0.54587822	0.42447621	
Conc SD	0.00313148[mg/l]	0.01320840[mg/l]	0.03325830[mg/l]	0.02039140[mg/l]	0.00526148[mg/l]	0.02471500[mg/l]	

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377179	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 21:35
Caldate: 04-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	50581400	-10.55
Yttrium	A	3744470	3414970	-8.80
Yttrium	R	1003900	856507	-14.68

Sample Name: CCB,1				Sample Type: Control Sample			
Measure Date: 2023-10-04 21:35:20			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	127531	18507.8000000	9771.37000000	23357.0000000	21952.8000000	13735.2000000	20968.4000000
Int RSD	0.97931483	1.68829358	0.78500251	0.42566425	0.75906946	1.49234085	0.25351338
Int SD	1248.93000000	312.46600000	76.70550000	99.42240000	166.63700000	204.97600000	53.15770000
RelInt Mean	0.00004996	0.00048168	-0.00011151	0.00067546	0.00006353	0.00442994	0.00005827
RelInt RSD	18.74694507	52.58978453	6.48991579	3.08672608	39.63923692	1.48814657	53.99179314
RelInt SD	0.00000937	0.00025332	0.00000724	0.00002085	0.00002518	0.00006592	0.00003146
Conc Mean	<0.00112452[mg/l]	<0.00279422[mg/l]	<0.00001985[mg/l]	<-0.00000915[mg/l]	<0.00000858[mg/l]	<0.00709497[mg/l]	<-0.00003999[mg/l]
Conc RSD	37.05198663	947.98190550	2116.17059644	3516.99766119	1006.44160093	35.93475378	423.09606147
Conc SD	0.00041666[mg/l]	0.02648870[mg/l]	0.00042012[mg/l]	0.00032165[mg/l]	0.00008639[mg/l]	0.00254956[mg/l]	0.00016921[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	20209.9000000	123289	32639.4000000	9323.12000000	21199.1000000	24953.6000000	14357.6000000
Int RSD	0.25164845	1.30533949	6.95971740	4.43231450	2.58399177	0.77450548	4.44974090
Int SD	50.85790000	1609.34000000	2271.61000000	413.23000000	547.78300000	193.26700000	638.87600000
RelInt Mean	0.00001246	0.00017869	0.00224317	0.00083993	-0.00080958	0.00027928	0.00036764
RelInt RSD	317.10297104	16.38992887	30.57200301	15.54006753	23.86384972	2.23581605	61.74524940
RelInt SD	0.00003950	0.00002929	0.00068578	0.00013053	0.00019320	0.00000624	0.00022700
Conc Mean	<-0.00026603[mg/l]	0.00282363[mg/l]	0.00420081[mg/l]	<0.08761040[mg/l]	<-0.04915020[mg/l]	<-0.00025195[mg/l]	0.00306496[mg/l]
Conc RSD	97.91336970	35.77557966	58.54180503	122.56307470	120.63552132	1.80774268	58.01968052
Conc SD	0.00026048[mg/l]	0.00101017[mg/l]	0.00245923[mg/l]	0.10737800[mg/l]	0.05929260[mg/l]	0.00000455[mg/l]	0.00177828[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	34554.3000000	22256.9000000	20896.5000000	14575.9000000	11221.6000000	14280.1000000	17190.4000000
Int RSD	2.25710838	0.76484596	1.29983012	0.78135827	0.87214925	10.28921366	3.35375558
Int SD	779.92800000	170.23100000	271.61900000	113.89000000	97.86910000	1469.31000000	576.52400000
RelInt Mean	0.00056264	0.00007001	-0.00005744	0.00007534	-0.00002429	0.00129158	0.00032378
RelInt RSD	19.37828807	3.81998512	85.63293035	58.88190728	154.13060841	33.68478917	86.05984236
RelInt SD	0.00010903	0.00000267	0.00004919	0.00004436	0.00003744	0.00043507	0.00027865
Conc Mean	<0.00002197[mg/l]	<0.00001238[mg/l]	<0.00111148[mg/l]	<0.00436417[mg/l]	<-0.00360277[mg/l]	0.02157630[mg/l]	<-0.00121390[mg/l]
Conc RSD	43065.0380234	168.63611755	124.41789326	61.78013230	75.97182168	36.96732062	23.86226213
Conc SD	0.00946281[mg/l]	0.00002087[mg/l]	0.00138288[mg/l]	0.00269619[mg/l]	0.00273709[mg/l]	0.00797618[mg/l]	0.00028966[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	213157	10196.1000000	35541.2000000	3414970	50581400	856507	14508.0000000
Int RSD	4.29200542	0.52415237	1.43998233	0.84049347	1.45600754	1.21676764	0.29895023
Int SD	9148.71000000	53.44310000	511.78700000	28702.6000000	736469	10421.7000000	43.37170000
RelInt Mean	0.00145666	-0.00008898	0.00005855	---	---	---	0.00020696
RelInt RSD	12.31330578	7.33199373	15.94069586	---	---	---	20.98517574
RelInt SD	0.00017936	0.00000652	0.00000933	---	---	---	0.00004343
Conc Mean	0.01246290[mg/l]	<-0.00025505[mg/l]	0.00427694[mg/l]	3390460	50415500	837969	<-0.00137668[mg/l]
Conc RSD	12.60878287	196.04581134	34.04162789	---	---	---	9.29802133
Conc SD	0.00157142[mg/l]	0.00050001[mg/l]	0.00145594[mg/l]	28831.1000000	735683	10274.8000000	0.00012800[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9018.72000000	31822.2000000	29043.7000000	9066.24000000	21412.0000000	10819.1000000	
Int RSD	1.58205377	1.82976036	0.30532852	0.29591981	1.30460956	0.65423372	
Int SD	142.68100000	582.27000000	88.67870000	26.82880000	279.34300000	70.78220000	
RelInt Mean	-0.00020358	-0.00036776	0.000202399	0.00002311	0.00018597	0.00014639	
RelInt RSD	63.42585998	25.59917119	1.39015015	94.90471492	26.59436149	8.09093766	
RelInt SD	0.000012912	0.00009414	0.00002814	0.00002193	0.00004946	0.00001184	
Conc Mean	<0.00001212[mg/l]	<-0.00320679[mg/l]	0.02747150[mg/l]	<-0.00230608[mg/l]	<0.00015820[mg/l]	0.02343600[mg/l]	
Conc RSD	2626.48434986	41.73394578	1.91109331	36.13716783	133.08322482	5.11426865	
Conc SD	0.00031828[mg/l]	0.00133832[mg/l]	0.00052501[mg/l]	0.00083335[mg/l]	0.00021054[mg/l]	0.00119858[mg/l]	

ENTHALPY CONTINUING CALIBRATION FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377190	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 23:08
Caldate: 04-OCT-2023	

Standards: S19137, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0323	0.0361	1.000	1.020	mg/l	2	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	53911500	-4.66
Yttrium	A	3744470	3646360	-2.62
Yttrium	R	1003900	978916	-2.49

Sample Name: CCV,S19137 Sample Type: Control Sample

Measure Date: 2023-10-04 23:08:03 Recalculation Date: State: Check failed Quality: Failed

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	716067	32166.0000000	70973.8000000	244378	1157370	1237170	710687
Int RSD	2.64004625	1.62930423	0.16125105	0.43114765	0.32524258	1.14099113	0.42700936
Int SD	18904.5000000	524.08200000	114.44600000	1053.63000000	3764.26000000	14116.0000000	3034.70000000
RelInt Mean	0.01093860	0.01010450	0.01661580	0.06146270	0.31334500	1.27694000	0.19022500
RelInt RSD	4.80882380	3.08909892	0.54293624	0.82892551	0.72366561	1.39443513	0.77823630
RelInt SD	0.00052602	0.00031214	0.00009021	0.00050948	0.00226757	0.01780610	0.00148040
Conc Mean	0.48551300[mg/l]	1.00904000[mg/l]	0.97049400[mg/l]	0.93776800[mg/l]	1.00056000[mg/l]	49.22020000[mg/l]	1.03669000[mg/l]
Conc RSD	4.81962378	3.23444066	0.53933049	0.83810281	0.72336092	1.39937465	0.77939114
Conc SD	0.02339990[mg/l]	0.03263680[mg/l]	0.00523417[mg/l]	0.00785946[mg/l]	0.00723766[mg/l]	0.68877500[mg/l]	0.00807987[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	571284	1588770	1096130	76399.5000000	172816	5024610	468049
Int RSD	0.34613782	2.49258861	0.88055249	0.34987271	0.61065526	0.47348749	0.45177108
Int SD	1977.43000000	39601.5000000	9652.00000000	267.30100000	1055.31000000	23790.9000000	2114.51000000
RelInt Mean	0.15178700	0.02731690	0.29548300	0.07005260	0.15576600	1.38060000	0.12547200
RelInt RSD	0.69025015	4.28496645	0.87653097	0.40353963	0.71952801	0.25459945	0.92681236
RelInt SD	0.00104771	0.00117052	0.00259000	0.00028269	0.00112078	0.00351500	0.00116289
Conc Mean	1.00056000[mg/l]	0.93886600[mg/l]	1.05576000[mg/l]	57.02600000[mg/l]	48.00450000[mg/l]	1.00664000[mg/l]	0.98310900[mg/l]
Conc RSD	0.69050332	4.30025158	0.87993578	0.40778417	0.71630785	0.25502066	0.92639778
Conc SD	0.00690890[mg/l]	0.04037360[mg/l]	0.00929001[mg/l]	0.23254300[mg/l]	0.34386000[mg/l]	0.00256714[mg/l]	0.00910750[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	613951	489007	152629	74345.8000000	58100.9000000	1036340	1006810
Int RSD	0.78343549	0.26853603	0.46175563	0.39076182	0.35401001	0.30486037	0.80836603
Int SD	4809.91000000	1313.16000000	704.77300000	290.51500000	205.68300000	3159.39000000	8138.71000000
RelInt Mean	0.60162200	0.12867800	0.03607200	0.01642030	0.01280980	0.28333300	1.03060000
RelInt RSD	0.34503392	0.65175166	0.70883788	0.26153115	0.52906134	0.71815143	0.38898021
RelInt SD	0.00207580	0.00083866	0.00025569	0.00004294	0.00006777	0.00203476	0.00400883
Conc Mean	52.16660000[mg/l]	1.00358000[mg/l]	1.02040000[mg/l]	0.99228900[mg/l]	0.93471200[mg/l]	5.19236000[mg/l]	1.06980000[mg/l]
Conc RSD	0.34540683	0.65189023	0.70712858	0.26412063	0.53011944	0.71842669	0.38977005
Conc SD	0.18018700[mg/l]	0.00654224[mg/l]	0.00721554[mg/l]	0.00262084[mg/l]	0.00495509[mg/l]	0.03730330[mg/l]	0.00416976[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	6202340	59843.5000000	380088	3646360	53911500	978916	1279580
Int RSD	2.82565935	0.21349186	2.54808097	0.45029838	1.78023613	0.45643344	0.47824208
Int SD	175257	127.76100000	9684.95000000	16419.5000000	959752	4468.10000000	6119.49000000
RelInt Mean	0.11264900	0.01347880	0.00642866	---	---	---	0.34928100
RelInt RSD	4.43288445	0.17737781	4.32542707	---	---	---	0.18219800
RelInt SD	0.00499360	0.00002391	0.00027807	---	---	---	0.00063638
Conc Mean	0.98663600[mg/l]	1.04886000[mg/l]	0.99801000[mg/l]	3621110	53737100	959720	1.02776000[mg/l]
Conc RSD	4.43431012	0.17285624	4.34804260	---	---	---	0.18282868
Conc SD	0.04375050[mg/l]	0.00181302[mg/l]	0.04339390[mg/l]	16233.8000000	959648	4072.99000000	0.00187904[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	389493	97045.5000000	1174090	529480	851413	215552	
Int RSD	0.92540046	0.15139806	0.58709298	0.21965702	0.28440369	0.46736750	
Int SD	3604.37000000	146.92500000	6893.00000000	1163.04000000	2421.45000000	1007.42000000	
RelInt Mean	0.39521700	0.06619220	0.31788800	0.14349800	0.22904100	0.05648850	
RelInt RSD	0.52824904	1.55195023	0.80984498	0.58422487	0.69702368	0.86161785	
RelInt SD	0.00208773	0.00102727	0.00257440	0.00083835	0.00159647	0.00048672	
Conc Mean	0.97470000[mg/l]	0.94299500[mg/l]	6.32934000[mg/l]	5.44929000[mg/l]	0.96375900[mg/l]	5.72531000[mg/l]	
Conc RSD	0.52801990	1.54859782	0.81232166	0.58481931	0.69795872	0.86024163	
Conc SD	0.00514661[mg/l]	0.01460320[mg/l]	0.05141460[mg/l]	0.03186850[mg/l]	0.00672664[mg/l]	0.04925150[mg/l]	

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377191	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 23:11
Caldate: 04-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	56131900	-0.73
Yttrium	A	3744470	3775890	0.84
Yttrium	R	1003900	981191	-2.26

Sample Name: CCB,1				Sample Type: Control Sample			
Measure Date: 2023-10-04 23:11:16			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	127084	18595.1000000	9810.65000000	22307.6000000	21693.1000000	14565.7000000	20770.6000000
Int RSD	1.12352460	0.94176423	0.12393470	0.39195252	0.19897940	1.40030345	0.62118090
Int SD	1427.82000000	175.12200000	12.15880000	87.43520000	43.16480000	203.96400000	129.02300000
RelInt Mean	0.00004541	0.00025776	-0.00008692	0.00039636	0.00008158	0.00449391	0.00005638
RelInt RSD	31.59965911	36.04361455	10.87371157	2.98420892	7.94894552	3.50452056	44.41277465
RelInt SD	0.00001435	0.00009291	0.00000945	0.00001183	0.00000648	0.00015749	0.00002504
Conc Mean	<0.00092211[mg/l]	<0.02062100[mg/l]	<0.00144808[mg/l]	<0.00431485[mg/l]	<0.00006400[mg/l]	<0.00956915[mg/l]	<0.00005110[mg/l]
Conc RSD	69.22663156	47.11173076	37.90149715	4.22899985	30.15833579	63.64912244	261.05385931
Conc SD	0.00063835[mg/l]	0.00971491[mg/l]	0.00054884[mg/l]	0.00018248[mg/l]	0.00001930[mg/l]	0.00609068[mg/l]	0.00013340[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	19962.5000000	123092	46722.6000000	9728.76000000	21484.8000000	25240.9000000	14567.0000000
Int RSD	0.61767815	2.18427680	10.14008210	2.03524396	0.76355842	0.63606686	5.36161186
Int SD	123.30400000	2688.67000000	4737.71000000	198.00400000	164.04900000	160.54900000	781.02600000
RelInt Mean	-0.00000093	0.00016327	0.00585152	0.00087832	-0.00076772	0.00039625	0.00045196
RelInt RSD	252.76113221	26.29784341	20.97010691	8.49146269	16.90861654	7.66217543	38.86904920
RelInt SD	0.00000235	0.00004294	0.00122707	0.00007458	0.00012981	0.00003036	0.00017567
Conc Mean	<0.00035430[mg/l]	0.00229171[mg/l]	0.01714040[mg/l]	<0.11919200[mg/l]	<0.03630450[mg/l]	<0.00016663[mg/l]	0.00372549[mg/l]
Conc RSD	4.37277554	64.62117807	25.67203799	51.47660917	109.73625859	13.29200300	36.93957037
Conc SD	0.00001549[mg/l]	0.00148093[mg/l]	0.00440029[mg/l]	0.06135600[mg/l]	0.03983920[mg/l]	0.00002215[mg/l]	0.00137618[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	35873.5000000	22043.8000000	20632.5000000	14474.6000000	11225.4000000	14675.1000000	17571.7000000
Int RSD	0.33149261	0.73620701	1.10473282	2.14195902	0.33052007	11.59310669	1.48537706
Int SD	118.91800000	162.28800000	227.93400000	310.04000000	37.10220000	1701.30000000	261.00600000
RelInt Mean	0.00099816	0.00009600	-0.00008158	0.00006071	0.00001277	0.00128747	0.00034281
RelInt RSD	12.34368770	49.18146515	78.19849039	114.83126929	74.89325878	35.38521286	42.48887852
RelInt SD	0.00012321	0.00004721	0.00006380	0.00006971	0.00000956	0.00045557	0.00014565
Conc Mean	<0.03782130[mg/l]	<0.00021517[mg/l]	<0.00043681[mg/l]	<0.00347489[mg/l]	<0.00089337[mg/l]	0.02150110[mg/l]	<0.00119412[mg/l]
Conc RSD	28.27375051	171.23058476	411.62936576	121.97450855	78.26294280	38.84540791	12.67963019
Conc SD	0.01069350[mg/l]	0.00036843[mg/l]	0.00179803[mg/l]	0.00423848[mg/l]	0.00069918[mg/l]	0.00835219[mg/l]	0.00015141[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	223225	10186.4000000	35542.7000000	3775890	56131900	981191	26026.6000000
Int RSD	5.70993392	0.24060708	1.85168262	0.22904401	0.17327580	0.99537909	4.15736208
Int SD	12746.0000000	24.50920000	658.13800000	8648.45000000	97263.0000000	9766.57000000	1082.02000000
RelInt Mean	0.00150977	-0.00007780	0.00005256	---	---	---	0.00329644
RelInt RSD	14.77052796	16.18839395	28.74425366	---	---	---	7.84958925
RelInt SD	0.00022300	0.00001259	0.00001511	---	---	---	0.00025876
Conc Mean	0.01292820[mg/l]	<0.00061077[mg/l]	<0.00334076[mg/l]	3751460	55963200	962248	0.00773621[mg/l]
Conc RSD	15.11262202	158.96831361	70.55370634	---	---	---	9.86587748
Conc SD	0.00195379[mg/l]	0.00097093[mg/l]	0.00235703[mg/l]	8606.95000000	97823.3000000	9740.77000000	0.00076324[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9253.73000000	32725.0000000	25794.5000000	9236.73000000	21123.3000000	10562.9000000	
Int RSD	1.26557615	0.77986249	1.34886507	1.09305999	0.38545398	0.50460385	
Int SD	117.11300000	255.21000000	347.93300000	100.96300000	81.42060000	53.30080000	
RelInt Mean	-0.00016644	-0.00025085	0.00102147	0.00010216	0.00016554	0.00006143	
RelInt RSD	35.81954950	63.49607530	7.08092259	26.41891561	11.96768250	23.88235850	
RelInt SD	0.00005962	0.00015928	0.00002233	0.00002699	0.00001981	0.00001467	
Conc Mean	<0.00010367[mg/l]	<0.00154480[mg/l]	0.00738529[mg/l]	<0.00069755[mg/l]	<0.00006668[mg/l]	0.01483840[mg/l]	
Conc RSD	141.75404412	146.57301916	19.18976777	147.01678582	123.74189079	10.00593056	
Conc SD	0.00014695[mg/l]	0.00226426[mg/l]	0.00141722[mg/l]	0.00102552[mg/l]	0.00008252[mg/l]	0.00148472[mg/l]	

ENTHALPY CONTINUING CALIBRATION FOR 493300 METALS Wipe
EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377202	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 23:46
Caldate: 04-OCT-2023	

Standards: S19137, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0323	0.0365	1.000	1.033	mg/l	3	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	53429700	-5.51
Yttrium	A	3744470	3636700	-2.88
Yttrium	R	1003900	967319	-3.64

Sample Name: CCV,S19137				Sample Type: Control Sample			
Measure Date: 2023-10-04 23:46:54			Recalculation Date:		State: Check failed		Quality: Failed
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	714350	31918.6000000	71447.7000000	245745	1161750	1247200	714568
Int RSD	2.50665640	0.46421836	0.33522003	0.57085190	0.51876307	1.30831462	0.34523376
Int SD	17906.3000000	148.17200000	239.50700000	1402.84000000	6026.73000000	16317.3000000	2466.93000000
RelInt Mean	0.01096060	0.01001660	0.01676080	0.06192510	0.31535900	1.30313000	0.19173900
RelInt RSD	4.33752714	0.97921450	0.50910696	0.11929492	0.16579200	1.74869737	0.16164630
RelInt SD	0.00047542	0.00009808	0.00008533	0.00007387	0.00052284	0.02278780	0.00030994
Conc Mean	0.48649000[mg/l]	0.99984900[mg/l]	0.97890900[mg/l]	0.94490200[mg/l]	1.00698000[mg/l]	50.23310000[mg/l]	1.04495000[mg/l]
Conc RSD	4.34732471	1.02598492	0.50631264	0.12061674	0.16722576	1.75456621	0.15478731
Conc SD	0.02114930[mg/l]	0.01025830[mg/l]	0.00495634[mg/l]	0.00113971[mg/l]	0.00168393[mg/l]	0.88137300[mg/l]	0.00161745[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	574240	1587850	1081460	76320.9000000	171305	5003290	470195
Int RSD	0.45594525	2.15092106	0.73942448	0.89293496	0.57325997	0.38092735	0.18500409
Int SD	2618.22000000	34153.4000000	7996.58000000	681.49600000	982.02300000	19058.9000000	869.88000000
RelInt Mean	0.15295700	0.02751400	0.29217900	0.07078150	0.15613000	1.37843000	0.12638000
RelInt RSD	0.08922115	3.65105037	0.25981915	1.47148619	0.55368091	0.60267478	0.33664504
RelInt SD	0.00013647	0.00100455	0.00075914	0.00104154	0.00086446	0.00830745	0.00042545
Conc Mean	1.00827000[mg/l]	0.94566600[mg/l]	1.04392000[mg/l]	57.62570000[mg/l]	48.11600000[mg/l]	1.00506000[mg/l]	0.99022600[mg/l]
Conc RSD	0.08912950	3.66399976	0.26086003	1.48696849	0.55136753	0.60327244	0.33670091
Conc SD	0.00089867[mg/l]	0.03464920[mg/l]	0.00272317[mg/l]	0.85687600[mg/l]	0.26529600[mg/l]	0.00606325[mg/l]	0.00333410[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	611827	492789	154014	74674.5000000	58678.8000000	1043940	996903
Int RSD	0.66172300	0.36443184	0.56258912	0.21601752	0.27185628	0.41507079	0.41549479
Int SD	4048.60000000	1795.88000000	866.46600000	161.31000000	159.52200000	4333.09000000	4142.08000000
RelInt Mean	0.60651500	0.13002100	0.03650200	0.01652100	0.01298530	0.28619200	1.03260000
RelInt RSD	0.78783212	0.27375116	0.35123555	0.78992192	0.96946547	0.10657600	0.42172574
RelInt SD	0.00477832	0.00035593	0.00012821	0.00013050	0.00012589	0.00030501	0.00435474
Conc Mean	52.59130000[mg/l]	1.01406000[mg/l]	1.03254000[mg/l]	0.99836200[mg/l]	0.94754200[mg/l]	5.24477000[mg/l]	1.07187000[mg/l]
Conc RSD	0.78850494	0.27439501	0.35000968	0.79445131	0.97156221	0.10653966	0.42265667
Conc SD	0.41468500[mg/l]	0.00278253[mg/l]	0.00361399[mg/l]	0.00793150[mg/l]	0.00920596[mg/l]	0.00558776[mg/l]	0.00453033[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	6163510	60089.4000000	377775	3636700	53429700	967319	1283080
Int RSD	2.96834109	0.22037830	2.25430481	0.49464075	1.44456735	0.71995484	0.66204134
Int SD	182954	132.42400000	8516.20000000	17988.6000000	771828	6964.26000000	8494.52000000
RelInt Mean	0.11289400	0.01358410	0.00643583	---	---	---	0.35118600
RelInt RSD	4.39235920	0.49065746	3.84823713	---	---	---	0.92369286
RelInt SD	0.00495871	0.00006665	0.00024767	---	---	---	0.00324388
Conc Mean	0.98877900[mg/l]	1.05703000[mg/l]	0.99912300[mg/l]	3611180	53252800	948267	1.03337000[mg/l]
Conc RSD	4.39361071	0.47984825	3.86802226	---	---	---	0.92568683
Conc SD	0.04344310[mg/l]	0.00507214[mg/l]	0.03864630[mg/l]	17989.8000000	771249	6848.82000000	0.00956577[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	386085	97155.0000000	1167220	532932	856825	217116	
Int RSD	0.49213774	0.65649529	0.73741197	0.64518363	0.76254078	0.82994805	
Int SD	1900.07000000	637.81800000	8607.22000000	3438.39000000	6533.64000000	1801.95000000	
RelInt Mean	0.39639800	0.06702550	0.31675700	0.14481100	0.23113100	0.05705530	
RelInt RSD	0.21184290	1.88013517	0.32979540	0.37733390	0.29728898	0.35388649	
RelInt SD	0.00083974	0.00126017	0.00104465	0.00054642	0.00068713	0.00020191	
Conc Mean	0.97761300[mg/l]	0.95483900[mg/l]	6.30656000[mg/l]	5.49919000[mg/l]	0.97256100[mg/l]	5.78267000[mg/l]	
Conc RSD	0.21175353	1.87610686	0.33270119	0.37760652	0.29942595	0.35341114	
Conc SD	0.00207013[mg/l]	0.01791380[mg/l]	0.02098200[mg/l]	0.02076530[mg/l]	0.00291210[mg/l]	0.02043660[mg/l]	

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377203	File: met06_master011
Cal: 483399377001	Time: 04-OCT-2023 23:50
Caldate: 04-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	56348400	-0.35
Yttrium	A	3744470	3779810	0.94
Yttrium	R	1003900	976797	-2.70

Sample Name: CCB,1				Sample Type: Control Sample			
Measure Date: 2023-10-04 23:50:10			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	128579	18537.2000000	9873.31000000	22313.1000000	21758.0000000	14541.0000000	20971.6000000
Int RSD	0.24648426	1.88850528	0.44203616	1.00602785	0.87152771	0.64776700	0.81525968
Int SD	316.92700000	350.07600000	43.64360000	224.47600000	189.62700000	94.19180000	170.97300000
RelInt Mean	0.00004375	0.00014896	-0.00010756	0.00036728	0.00003732	0.00450140	0.00005951
RelInt RSD	22.79873833	193.80378889	6.74610199	14.04370022	63.36905346	2.19085174	68.91601935
RelInt SD	0.00000997	0.00028869	0.00000726	0.00005158	0.00002365	0.00009862	0.00004102
Conc Mean	<0.00084832[mg/l]	<0.03199760[mg/l]	<0.00024959[mg/l]	<0.00476360[mg/l]	<0.00008003[mg/l]	<0.00985876[mg/l]	<0.00003436[mg/l]
Conc RSD	52.30750733	94.34520089	168.76888066	16.70419431	97.05574369	38.68610251	659.45055489
Conc SD	0.00044373[mg/l]	0.03018820[mg/l]	0.00042124[mg/l]	0.00079572[mg/l]	0.00007767[mg/l]	0.00381397[mg/l]	0.00022658[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	20132.2000000	124532	40307.4000000	9704.22000000	21382.4000000	25292.3000000	14983.8000000
Int RSD	1.27015925	1.78247358	10.32130577	2.06678126	0.79876908	1.17848515	5.81429944
Int SD	255.71100000	2219.75000000	4160.25000000	200.56500000	170.79600000	298.06600000	871.20300000
RelInt Mean	0.00001250	0.00016411	0.00410169	0.00080837	-0.00090629	0.00036734	0.00052750
RelInt RSD	153.85415583	24.57473646	26.39863081	16.38511382	13.04465363	3.00090652	44.98993361
RelInt SD	0.00001923	0.00004033	0.00108279	0.00013245	0.00011822	0.00001102	0.00023732
Conc Mean	<0.00026576[mg/l]	0.00232079[mg/l]	0.01086550[mg/l]	<0.06164900[mg/l]	<0.07883090[mg/l]	<0.00018772[mg/l]	0.00431728[mg/l]
Conc RSD	47.70623561	59.93821070	35.73650545	176.74901458	46.02598727	4.28368919	43.06276174
Conc SD	0.00012679[mg/l]	0.00139104[mg/l]	0.00388295[mg/l]	0.10896400[mg/l]	0.03628270[mg/l]	0.00000804[mg/l]	0.00185914[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	35792.0000000	22211.1000000	20996.0000000	14795.6000000	11322.0000000	14891.1000000	17428.6000000
Int RSD	0.74771178	0.54045950	1.13586874	0.69649761	0.23761703	12.63190765	0.99957541
Int SD	267.62100000	120.04200000	238.48700000	103.05100000	26.90300000	1881.03000000	174.21200000
RelInt Mean	0.00068872	0.00008763	-0.00005263	0.00012360	-0.00001243	0.00130920	0.00019527
RelInt RSD	13.84603881	35.92498591	49.07012053	20.56126866	124.99819029	38.12022609	43.14801633
RelInt SD	0.00009536	0.00003148	0.00002582	0.00002541	0.00001554	0.00049907	0.00008425
Conc Mean	<0.01096460[mg/l]	<0.00014982[mg/l]	<0.00125770[mg/l]	0.00729806[mg/l]	<0.00273592[mg/l]	0.02189940[mg/l]	<0.00134749[mg/l]
Conc RSD	75.48291775	163.96403612	58.04007315	21.17329811	41.52935758	41.78045974	6.50033340
Conc SD	0.00827640[mg/l]	0.00024565[mg/l]	0.00072997[mg/l]	0.00154524[mg/l]	0.00113621[mg/l]	0.00914967[mg/l]	0.00008759[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	226747	10320.2000000	35941.1000000	3779810	56348400	976797	29936.4000000
Int RSD	5.32836157	0.29332183	1.90050110	0.42852419	1.12897793	0.61415832	5.79568686
Int SD	12081.9000000	30.27140000	683.06100000	16197.4000000	636161	5999.08000000	1735.02000000
RelInt Mean	0.00153466	-0.00007769	0.00005431	---	---	---	0.00429696
RelInt RSD	13.02972645	10.64001442	18.69125836	---	---	---	10.92109305
RelInt SD	0.00019996	0.00000827	0.00001015	---	---	---	0.00046928
Conc Mean	0.01314620[mg/l]	<0.00061709[mg/l]	0.00361370[mg/l]	3755130	56176800	957913	0.01068740[mg/l]
Conc RSD	13.32636047	104.73364631	43.81492653	---	---	---	12.95085802
Conc SD	0.00175191[mg/l]	0.00064630[mg/l]	0.00158334[mg/l]	16340.3000000	635473	6170.16000000	0.00138411[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9289.12000000	32896.8000000	25361.3000000	9472.43000000	21342.8000000	10564.1000000	
Int RSD	1.41011205	0.57770361	0.51666121	1.17869438	0.77393782	0.19412823	
Int SD	130.98700000	190.04600000	131.03200000	111.65100000	165.18000000	20.50790000	
RelInt Mean	-0.00015071	-0.00025990	0.00087734	0.00011440	0.00018638	0.00001815	
RelInt RSD	52.53763926	12.87906304	2.07826639	23.67403846	6.21192529	80.36947048	
RelInt SD	0.00007918	0.00003347	0.00001823	0.00002708	0.00001158	0.00001459	
Conc Mean	<0.00014245[mg/l]	<0.00167357[mg/l]	0.00448617[mg/l]	<0.00116269[mg/l]	<0.00015908[mg/l]	0.01045840[mg/l]	
Conc RSD	137.00999663	28.43322956	8.51115762	88.50768477	30.05267856	14.11535225	
Conc SD	0.00019517[mg/l]	0.00047585[mg/l]	0.00038182[mg/l]	0.00102907[mg/l]	0.00004781[mg/l]	0.00147624[mg/l]	

ENTHALPY CONTINUING CALIBRATION FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377214	File: met06_master011
Cal: 483399377001	Time: 05-OCT-2023 00:25
Caldate: 04-OCT-2023	

Standards: S19137, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0323	0.0360	1.000	1.017	mg/l	2	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	53892600	-4.69
Yttrium	A	3744470	3697180	-1.26
Yttrium	R	1003900	971745	-3.20

Sample Name: CCV,S19137 Sample Type: Control Sample

Measure Date: 2023-10-05 00:25:53 Recalculation Date: State: Check failed Quality: Failed

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	712456	31710.8000000	71398.6000000	244913	1160770	1247540	714945
Int RSD	2.77385551	0.62898129	0.54945755	0.41204019	0.48354282	0.68205108	0.41802376
Int SD	19762.5000000	199.45500000	392.30500000	1009.14000000	5612.82000000	8508.86000000	2988.64000000
RelInt Mean	0.01079530	0.00966349	0.01645270	0.06060670	0.30984500	1.29741000	0.18863900
RelInt RSD	5.26633813	0.89033672	1.25585466	0.27972155	0.50805080	0.60672879	0.30815791
RelInt SD	0.00056852	0.00008604	0.00020662	0.00016953	0.00157417	0.00787176	0.00058131
Conc Mean	0.47913900[mg/l]	0.96291900[mg/l]	0.96103300[mg/l]	0.92456200[mg/l]	0.98936500[mg/l]	50.01210000[mg/l]	1.02804000[mg/l]
Conc RSD	5.27817606	0.93435066	1.24860437	0.28284853	0.50984217	0.60888265	0.30825552
Conc SD	0.02528980[mg/l]	0.00899704[mg/l]	0.01199950[mg/l]	0.00261511[mg/l]	0.00504420[mg/l]	0.30451500[mg/l]	0.00316899[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	574453	1584850	1086140	76001.3000000	170443	5046240	470887
Int RSD	0.35685426	2.63089882	0.77746976	0.78809836	0.56434644	0.96181513	0.42855929
Int SD	2049.96000000	41695.80000000	8444.41000000	598.96500000	961.88900000	48535.50000000	2018.03000000
RelInt Mean	0.15042700	0.02719760	0.28855100	0.07001400	0.15444700	1.36741000	0.12445800
RelInt RSD	0.47185146	4.68192046	0.65574890	0.86949467	0.71478889	0.51486094	0.39226566
RelInt SD	0.00070979	0.00127337	0.00189217	0.00060877	0.00110397	0.00704026	0.00048821
Conc Mean	0.99158800[mg/l]	0.93475400[mg/l]	1.03091000[mg/l]	56.99420000[mg/l]	47.59980000[mg/l]	0.99702200[mg/l]	0.97517500[mg/l]
Conc RSD	0.47197828	4.69862659	0.65853566	0.87868064	0.71150299	0.51504982	0.39228241
Conc SD	0.00468008[mg/l]	0.04392060[mg/l]	0.00678891[mg/l]	0.50079700[mg/l]	0.33867400[mg/l]	0.00513516[mg/l]	0.00382544[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	604311	491909	154509	74904.4000000	58600.7000000	1045280	996184
Int RSD	0.34853246	0.42467611	0.61103431	0.24222209	0.53483661	0.39755185	0.64936899
Int SD	2106.22000000	2089.02000000	944.10300000	181.43500000	313.41800000	4155.53000000	6468.91000000
RelInt Mean	0.59588100	0.12756900	0.03595400	0.01626450	0.01270260	0.28184200	1.02714000
RelInt RSD	0.34158330	0.36387680	0.16481059	0.81451013	0.57578606	0.35440282	0.63851276
RelInt SD	0.00203543	0.00046419	0.00005926	0.00013248	0.00007314	0.00099886	0.00655842
Conc Mean	51.66830000[mg/l]	0.99492400[mg/l]	1.01709000[mg/l]	0.98286600[mg/l]	0.92686900[mg/l]	5.16502000[mg/l]	1.06620000[mg/l]
Conc RSD	0.34190790	0.36372828	0.16443284	0.81767708	0.57697690	0.35446717	0.63971863
Conc SD	0.17665800[mg/l]	0.00361882[mg/l]	0.00167243[mg/l]	0.00803667[mg/l]	0.00534782[mg/l]	0.01830830[mg/l]	0.00682068[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	6161180	60187.7000000	377305	3697180	53892600	971745	1283060
Int RSD	3.25957041	0.30755453	2.73219279	0.69469704	1.82373647	0.07311877	0.87539944
Int SD	200828	185.11000000	10308.7000000	25684.2000000	982859	710.52800000	11231.9000000
RelInt Mean	0.11187100	0.01333480	0.00636483	---	---	---	0.34535100
RelInt RSD	5.13360031	0.60336638	4.76121122	---	---	---	0.34457118
RelInt SD	0.00574301	0.00008046	0.00030304	---	---	---	0.00118998
Conc Mean	0.97981400[mg/l]	1.03771000[mg/l]	0.98805200[mg/l]	3671450	53714500	952527	1.01617000[mg/l]
Conc RSD	5.13517872	0.59082692	4.78644849	---	---	---	0.34531427
Conc SD	0.05031520[mg/l]	0.00613107[mg/l]	0.04729260[mg/l]	25656.1000000	981786	837.03400000	0.00350898[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	384750	97128.6000000	1162280	531876	853851	216285	
Int RSD	0.51966992	0.34124449	0.67729291	0.50156991	0.55132453	0.63223062	
Int SD	1999.43000000	331.44600000	7872.04000000	2667.73000000	4707.49000000	1367.42000000	
RelInt Mean	0.39314500	0.06646660	0.31011300	0.14213300	0.22645200	0.05586090	
RelInt RSD	0.52601966	0.47725625	0.56885393	0.21377653	0.24843455	0.23989767	
RelInt SD	0.00206802	0.00031722	0.00176409	0.00030385	0.00056258	0.00013401	
Conc Mean	0.96959400[mg/l]	0.94689500[mg/l]	6.17386000[mg/l]	5.39744000[mg/l]	0.95285100[mg/l]	5.66179000[mg/l]	
Conc RSD	0.52577264	0.47624077	0.57236316	0.21399404	0.24965183	0.23946137	
Conc SD	0.00509786[mg/l]	0.00450950[mg/l]	0.03533690[mg/l]	0.01155020[mg/l]	0.00237881[mg/l]	0.01355780[mg/l]	

ENTHALPY INSTRUMENT BLANK FOR 493300 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483399377215	File: met06_master011
Cal: 483399377001	Time: 05-OCT-2023 00:29
Caldate: 04-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003334	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	56546100	56312700	-0.41
Yttrium	A	3744470	3805840	1.64
Yttrium	R	1003900	970223	-3.35

Sample Name: CCB,1				Sample Type: Control Sample			
Measure Date: 2023-10-05 00:29:07			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	129803	18925.4000000	9988.52000000	22550.3000000	21995.5000000	14915.9000000	21170.4000000
Int RSD	0.48008598	0.85910470	0.84907874	0.55465781	0.53104044	1.02564378	0.25196406
Int SD	623.16600000	162.58900000	84.81040000	125.07700000	116.80500000	152.98400000	53.34180000
RelInt Mean	0.00003450	0.00021021	-0.00009486	0.00033519	0.00003369	0.00461891	0.00005015
RelInt RSD	29.52187412	59.21115852	13.99136174	6.87634999	47.90465731	1.30281603	21.88359244
RelInt SD	0.00001018	0.00012447	0.00001327	0.00002305	0.00001614	0.00006018	0.00001098
Conc Mean	<0.00043654[mg/l]	<0.02559330[mg/l]	<0.00098698[mg/l]	<0.00525860[mg/l]	<0.00009083[mg/l]	<0.01440310[mg/l]	<0.00008569[mg/l]
Conc RSD	103.77581945	50.85393443	78.09616830	6.76187578	62.82675997	16.15791045	66.48340748
Conc SD	0.00045302[mg/l]	0.01301520[mg/l]	0.00077079[mg/l]	0.00035558[mg/l]	0.00005707[mg/l]	0.00232724[mg/l]	0.00005697[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	20360.2000000	126243	43061.2000000	9881.00000000	21905.3000000	25485.3000000	15016.6000000
Int RSD	0.46170224	2.11282210	9.86521509	0.48549843	0.66325045	0.67681369	6.00686574
Int SD	94.00350000	2667.29000000	4248.08000000	47.97210000	145.28700000	172.48800000	902.02700000
RelInt Mean	0.00001007	0.00016450	0.00471936	0.00074584	-0.00083408	0.00036342	0.00049867
RelInt RSD	171.98360151	25.37519757	23.55849098	1.58455746	7.97341010	11.68055781	43.82081280
RelInt SD	0.00001733	0.00004174	0.00111181	0.00001182	0.00006650	0.00004245	0.00021852
Conc Mean	<0.00028174[mg/l]	0.00233423[mg/l]	0.01308040[mg/l]	<0.01020190[mg/l]	<0.05666930[mg/l]	<0.00019058[mg/l]	0.00409147[mg/l]
Conc RSD	40.55121743	61.68029714	30.48026054	95.29724855	36.01667922	16.24877345	41.83997439
Conc SD	0.00011425[mg/l]	0.00143976[mg/l]	0.00398694[mg/l]	0.00972213[mg/l]	0.02041040[mg/l]	0.00003097[mg/l]	0.00171187[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	36380.0000000	22466.4000000	21181.9000000	14757.7000000	11382.9000000	14974.8000000	17844.9000000
Int RSD	0.68927708	0.56500374	0.54632021	0.84608035	0.31743317	12.22620669	1.55404065
Int SD	250.75900000	126.93600000	115.72100000	124.86200000	36.13310000	1830.85000000	277.31700000
RelInt Mean	0.00070601	0.00007706	-0.00005632	0.00008827	-0.00002107	0.00129499	0.00029164
RelInt RSD	13.60130762	24.05465061	93.28445534	30.22610358	90.93998595	35.98074116	53.69206450
RelInt SD	0.00009603	0.00001854	0.00005254	0.00002668	0.00001916	0.00046595	0.00015659
Conc Mean	<0.01246550[mg/l]	<0.00006740[mg/l]	<0.00115150[mg/l]	0.00515060[mg/l]	<0.00336728[mg/l]	0.02163890[mg/l]	<0.00124731[mg/l]
Conc RSD	66.85877021	214.63036821	128.40382110	31.49419485	41.60004514	39.47714533	13.05008378
Conc SD	0.00833428[mg/l]	0.00014465[mg/l]	0.00147857[mg/l]	0.00162214[mg/l]	0.00140079[mg/l]	0.00854242[mg/l]	0.00016278[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	229213	10429.2000000	36343.2000000	3805840	56312700	970223	22680.8000000
Int RSD	5.36069071	0.67912112	1.44327137	0.79614224	1.26038709	0.77450030	3.84421625
Int SD	12287.4000000	70.82690000	524.53100000	30299.9000000	709758	7514.38000000	871.89900000
RelInt Mean	0.00154869	-0.00006142	0.00005730	---	---	---	0.00232800
RelInt RSD	13.28948983	12.37418248	16.43100464	---	---	---	9.11301546
RelInt SD	0.00020581	0.00000760	0.00000942	---	---	---	0.00021215
Conc Mean	0.01326920[mg/l]	<0.00188166[mg/l]	0.00408146[mg/l]	3780850	56139800	950956	0.00487962[mg/l]
Conc RSD	13.58906339	31.48677232	35.98442714	---	---	---	12.82358052
Conc SD	0.00180316[mg/l]	0.00059247[mg/l]	0.00146869[mg/l]	30194.1000000	709244	7692.47000000	0.00062574[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	9531.67000000	33543.9000000	25339.9000000	9419.04000000	21612.1000000	10588.9000000	
Int RSD	1.95598463	0.95202108	1.12510704	0.29746131	0.69661440	0.57469992	
Int SD	186.43800000	319.34500000	285.10100000	28.01800000	150.55300000	60.85440000	
RelInt Mean	-0.00015831	-0.00013569	0.00080255	0.00009450	0.00018407	0.00001700	
RelInt RSD	128.80199615	80.29892105	10.28044463	7.19593790	14.16272803	60.86687998	
RelInt SD	0.000202390	0.00010896	0.00008251	0.00000680	0.00002607	0.00001035	
Conc Mean	<0.00012372[mg/l]	<0.00009225[mg/l]	0.00299387[mg/l]	<0.00040665[mg/l]	<0.00014666[mg/l]	0.01034210[mg/l]	
Conc RSD	406.23661302	1678.93885081	55.20580386	63.54070351	76.62123371	10.12589319	
Conc SD	0.00050260[mg/l]	0.00154890[mg/l]	0.00165279[mg/l]	0.00025839[mg/l]	0.00011237[mg/l]	0.00104723[mg/l]	



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 493321
Report Level: II
Report Date: 10/11/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 493321
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 10/03/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C9E-PS-3.5-231003-P-G	493321-001	10/03/23 08:30	Wipe
ARCH-C9E-PS-3.5-231003-L-G	493321-002	10/03/23 08:30	Wipe
ARCH-C10E-INT-2.5 TO 3.5-231003-P-WF	493321-003	10/03/23 08:15	Wipe
ARCH-C10E-INT-2.5 TO 3.5-231003-L-WF	493321-004	10/03/23 08:15	Wipe
ARCH-C10E-INT-2.5 TO 3.5-231003-L-DUP-WF	493321-005	10/03/23 08:15	Wipe
ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-P-LA	493321-006	10/03/23 08:45	Wipe
ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-P-DUP-LA	493321-007	10/03/23 08:45	Wipe
ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-L-LA	493321-008	10/03/23 08:45	Wipe
ARCH-C9E-DG-4 TO 4.5-231003-P-FB	493321-009	10/03/23 09:10	Wipe
ARCH-C9E-DG-4 TO 4.5-231003-L-FB	493321-010	10/03/23 09:10	Wipe
ARCH-C9E-DG-4 TO 4.5-231003-L-DUP-FB	493321-011	10/03/23 09:10	Wipe
ARCH-C9E-DG-4 TO 4.5-DN-C9.4-VS-231003-P-LA	493321-012	10/03/23 09:00	Wipe
ARCH-C9E-DG-4 TO 4.5-DN-C9.4-VS-231003-L-LA	493321-013	10/03/23 09:00	Wipe
ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231003-P-LA	493321-014	10/03/23 09:40	Wipe
ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231003-L-LA	493321-015	10/03/23 09:40	Wipe

Sample Summary

Austin Moore	Lab Job #:	493321
Rincon Consultants	Project No:	20-10491
449 15th Street	Location:	Hangar 1 NTCRA
#303	Date Received:	10/03/23
Oakland, CA 94612		

Sample ID	Lab ID	Collected	Matrix
ARCH-C11E-PS-4.5-231003-P-G	493321-016	10/03/23 09:25	Wipe
ARCH-C11E-PS-4.5-231003-L-G	493321-017	10/03/23 09:25	Wipe
ARCH-C9E-INT-4.5 TO 5.5-231003-P-WF	493321-018	10/03/23 10:10	Wipe
ARCH-C9E-INT-4.5 TO 5.5-231003-L-WF	493321-019	10/03/23 10:10	Wipe
ARCH-C9E-DG-5 TO 5.5-UP-C9.5-DG-231003-P-LA	493321-020	10/03/23 09:55	Wipe
ARCH-C9E-DG-5 TO 5.5-UP-C9.5-DG-231003-L-LA	493321-021	10/03/23 09:55	Wipe
231003-P-FIELDBLANK1-LO	493321-022	10/03/23 07:30	Wipe
231003-L-FIELDBLANK1-LO	493321-023	10/03/23 07:30	Wipe
231003-L-MEDBLANK1	493321-024	10/03/23 10:30	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 493321
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 10/03/23

This data package contains sample and QC results for twenty four wipe samples, requested for the above referenced project on 10/04/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

493321

Chain of Custody Record		Turn Around Time (rush by advanced notice only)			
COC ID:		Standard:	5 Day:	1 Day:	3 Day:
Page: 2 of 2		X (PCBs)	2 Day:	X (Pb)	Custom TAT:
ENIHALPY ANALYTICAL Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92868 Phone 714-771-6900		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Report: Level II data validation (lab use only)			
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721	Test Instructions / Comments	
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP	Confirmation Wipe Samples - Level II	
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491	Report/Stage 2A Validation	
Address:	449 15th Street, Suite 303	P.O. #:		Report PCB concentrations on a µg/100cm2 basis	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA	Report lead concentrations on a µg/l2 basis	
Phone:	(651) 890-9556	Global ID:		Report Aroclor 1268 concentrations in addition to the standard Aroclors	
Fax:		Sampled By:	M. Kim & T. Smolt	Wipe samples collected from Zone 5 Enclosure A/B (Low Occupancy)	
Sample ID		Sampling Date	Sampling Time	Matrix	Container No. / Size
16	ARCH-C11E-PS-4.5-231003-P-G	10/3/2023	0915	WP	1 -- X
17	ARCH-C11E-PS-4.5-231003-L-G	10/3/2023	0915	WP	1 -- X
18	ARCH-C9E-INT-4.5 TO 5.5-231003-P-WF	10/3/2023	1010	WP	1 -- X
19	ARCH-C9E-INT-4.5 TO 5.5-231003-L-WF	10/3/2023	1010	WP	1 -- X
20	ARCH-C9E-DG-5 TO 5.5-UP-C9-5-DG-231003-P-LA	10/3/2023	0955	WP	1 -- X
21	ARCH-C9E-DG-5 TO 5.5-UP-C9-5-DG-231003-L-LA	10/3/2023	0955	WP	1 -- X
22	231003-P-FIELDBLANK1-L0	10/3/2023	0730	WP	1 -- X
23	231003-L-FIELDBLANK1-L0	10/3/2023	0730	WP	1 -- X
24	231003-L-MEDBLANK1	10/3/2023	1030	WP	1 -- X
25					
26					
27					
28					
29					
30					
Signature		Print Name		Company / Title	
1 Relinquished By: T. Smolt		Tyler Smolt		Rincon / Envi. Scientist	
2 Received By: Audrey Anderson		Audrey Anderson		ENIHALPY	
3 Relinquished By: Audrey Anderson		"		"	
4 Received By: [Signature]		"		"	
5 Relinquished By: [Signature]		"		"	
6 Received By: [Signature]		"		"	
7 Relinquished By: [Signature]		"		"	
8 Received By: [Signature]		"		"	
9 Relinquished By: [Signature]		"		"	
10 Received By: [Signature]		"		"	
11 Relinquished By: [Signature]		"		"	
12 Received By: [Signature]		"		"	
13 Relinquished By: [Signature]		"		"	
14 Received By: [Signature]		"		"	
15 Relinquished By: [Signature]		"		"	
16 Received By: [Signature]		"		"	
17 Relinquished By: [Signature]		"		"	
18 Received By: [Signature]		"		"	
19 Relinquished By: [Signature]		"		"	
20 Received By: [Signature]		"		"	
21 Relinquished By: [Signature]		"		"	
22 Received By: [Signature]		"		"	
23 Relinquished By: [Signature]		"		"	
24 Received By: [Signature]		"		"	
25 Relinquished By: [Signature]		"		"	
26 Received By: [Signature]		"		"	
27 Relinquished By: [Signature]		"		"	
28 Received By: [Signature]		"		"	
29 Relinquished By: [Signature]		"		"	
30 Received By: [Signature]		"		"	
31 Relinquished By: [Signature]		"		"	
32 Received By: [Signature]		"		"	
33 Relinquished By: [Signature]		"		"	
34 Received By: [Signature]		"		"	
35 Relinquished By: [Signature]		"		"	
36 Received By: [Signature]		"		"	
37 Relinquished By: [Signature]		"		"	
38 Received By: [Signature]		"		"	
39 Relinquished By: [Signature]		"		"	
40 Received By: [Signature]		"		"	
41 Relinquished By: [Signature]		"		"	
42 Received By: [Signature]		"		"	
43 Relinquished By: [Signature]		"		"	
44 Received By: [Signature]		"		"	
45 Relinquished By: [Signature]		"		"	
46 Received By: [Signature]		"		"	
47 Relinquished By: [Signature]		"		"	
48 Received By: [Signature]		"		"	
49 Relinquished By: [Signature]		"		"	
50 Received By: [Signature]		"		"	
51 Relinquished By: [Signature]		"		"	
52 Received By: [Signature]		"		"	
53 Relinquished By: [Signature]		"		"	
54 Received By: [Signature]		"		"	
55 Relinquished By: [Signature]		"		"	
56 Received By: [Signature]		"		"	
57 Relinquished By: [Signature]		"		"	
58 Received By: [Signature]		"		"	
59 Relinquished By: [Signature]		"		"	
60 Received By: [Signature]		"		"	
61 Relinquished By: [Signature]		"		"	
62 Received By: [Signature]		"		"	
63 Relinquished By: [Signature]		"		"	
64 Received By: [Signature]		"		"	
65 Relinquished By: [Signature]		"		"	
66 Received By: [Signature]		"		"	
67 Relinquished By: [Signature]		"		"	
68 Received By: [Signature]		"		"	
69 Relinquished By: [Signature]		"		"	
70 Received By: [Signature]		"		"	
71 Relinquished By: [Signature]		"		"	
72 Received By: [Signature]		"		"	
73 Relinquished By: [Signature]		"		"	
74 Received By: [Signature]		"		"	
75 Relinquished By: [Signature]		"		"	
76 Received By: [Signature]		"		"	
77 Relinquished By: [Signature]		"		"	
78 Received By: [Signature]		"		"	
79 Relinquished By: [Signature]		"		"	
80 Received By: [Signature]		"		"	
81 Relinquished By: [Signature]		"		"	
82 Received By: [Signature]		"		"	
83 Relinquished By: [Signature]		"		"	
84 Received By: [Signature]		"		"	
85 Relinquished By: [Signature]		"		"	
86 Received By: [Signature]		"		"	
87 Relinquished By: [Signature]		"		"	
88 Received By: [Signature]		"		"	
89 Relinquished By: [Signature]		"		"	
90 Received By: [Signature]		"		"	
91 Relinquished By: [Signature]		"		"	
92 Received By: [Signature]		"		"	
93 Relinquished By: [Signature]		"		"	
94 Received By: [Signature]		"		"	
95 Relinquished By: [Signature]		"		"	
96 Received By: [Signature]		"		"	
97 Relinquished By: [Signature]		"		"	
98 Received By: [Signature]		"		"	
99 Relinquished By: [Signature]		"		"	
100 Received By: [Signature]		"		"	
101 Relinquished By: [Signature]		"		"	
102 Received By: [Signature]		"		"	
103 Relinquished By: [Signature]		"		"	
104 Received By: [Signature]		"		"	
105 Relinquished By: [Signature]		"		"	
106 Received By: [Signature]		"		"	
107 Relinquished By: [Signature]		"		"	
108 Received By: [Signature]		"		"	
109 Relinquished By: [Signature]		"		"	
110 Received By: [Signature]		"		"	
111 Relinquished By: [Signature]		"		"	
112 Received By: [Signature]		"		"	
113 Relinquished By: [Signature]		"		"	
114 Received By: [Signature]		"		"	
115 Relinquished By: [Signature]		"		"	
116 Received By: [Signature]		"		"	
117 Relinquished By: [Signature]		"		"	
118 Received By: [Signature]		"		"	
119 Relinquished By: [Signature]		"		"	
120 Received By: [Signature]		"		"	
121 Relinquished By: [Signature]		"		"	
122 Received By: [Signature]		"		"	
123 Relinquished By: [Signature]		"		"	
124 Received By: [Signature]		"		"	
125 Relinquished By: [Signature]		"		"	
126 Received By: [Signature]		"		"	
127 Relinquished By: [Signature]		"		"	
128 Received By: [Signature]		"		"	
129 Relinquished By: [Signature]		"		"	
130 Received By: [Signature]		"		"	
131 Relinquished By: [Signature]		"		"	
132 Received By: [Signature]		"		"	
133 Relinquished By: [Signature]		"		"	
134 Received By: [Signature]		"		"	
135 Relinquished By: [Signature]		"		"	
136 Received By: [Signature]		"		"	
137 Relinquished By: [Signature]		"		"	
138 Received By: [Signature]		"		"	
139 Relinquished By: [Signature]		"		"	
140 Received By: [Signature]		"		"	
141 Relinquished By: [Signature]		"		"	
142 Received By: [Signature]		"		"	
143 Relinquished By: [Signature]		"		"	
144 Received By: [Signature]		"		"	
145 Relinquished By: [Signature]		"		"	
146 Received By: [Signature]		"		"	
147 Relinquished By: [Signature]		"		"	
148 Received By: [Signature]		"		"	
149 Relinquished By: [Signature]		"		"	
150 Received By: [Signature]		"		"	
151 Relinquished By: [Signature]		"		"	
152 Received By: [Signature]		"		"	
153 Relinquished By: [Signature]		"		"	
154 Received By: [Signature]		"		"	
155 Relinquished By: [Signature]		"		"	
156 Received By: [Signature]		"		"	
157 Relinquished By: [Signature]		"		"	
158 Received By: [Signature]		"		"	
159 Relinquished By: [Signature]		"		"	
160 Received By: [Signature]		"		"	
161 Relinquished By: [Signature]		"		"	
162 Received By: [Signature]		"		"	
163 Relinquished By: [Signature]		"		"	
164 Received By: [Signature]		"		"	
165 Relinquished By: [Signature]		"		"	
166 Received By: [Signature]		"		"	
167 Relinquished By: [Signature]		"		"	
168 Received By: [Signature]		"		"	
169 Relinquished By: [Signature]		"		"	
170 Received By: [Signature]		"		"	
171 Relinquished By: [Signature]		"		"	
172 Received By: [Signature]		"		"	
173 Relinquished By: [Signature]		"		"	
174 Received By: [Signature]		"		"	
175 Relinquished By: [Signature]		"		"	
176 Received By: [Signature]		"		"	
177 Relinquished By: [Signature]		"		"	
178 Received By: [Signature]		"		"	
179 Relinquished By: [Signature]		"		"	
180 Received By: [Signature]		"		"	
181 Relinquished By: [Signature]		"		"	
182 Received By: [Signature]		"		"	
183 Relinquished By: [Signature]		"		"	
184 Received By: [Signature]		"		"	
185 Relinquished By: [Signature]		"		"	
186 Received By: [Signature]		"		"	
187 Relinquished By: [Signature]		"		"	
188 Received By: [Signature]		"		"	
189 Relinquished By: [Signature]		"		"	
190 Received By: [Signature]		"		"	
191 Relinquished By: [Signature]		"		"	
192 Received By: [Signature]		"		"	
193 Relinquished By: [Signature]		"		"	
194 Received By: [Signature]		"		"	
195 Relinquished By: [Signature]		"		"	
196 Received By: [Signature]		"		"	
197 Relinquished By: [Signature]		"		"	
198 Received By: [Signature]		"		"	
199 Relinquished By: [Signature]		"		"	
200 Received By: [Signature]		"		"	
201 Relinquished By: [Signature]		"		"	
202 Received By: [Signature]		"		"	
203 Relinquished By: [Signature]		"		"	
204 Received By: [Signature]		"		"	
205 Relinquished By: [Signature]		"		"	
206 Received By: [Signature]		"		"	
207 Relinquished By: [Signature]		"		"	
208 Received By: [Signature]		"		"	
209 Relinquished By: [Signature]		"		"	
210 Received By: [Signature]		"		"	
211 Relinquished By: [Signature]		"		"	
212 Received By: [Signature]		"		"	
213 Relinquished By: [Signature]		"		"	
214 Received By: [Signature]		"		"	
215 Relinquished By: [Signature]		"		"	
216 Received By: [Signature]		"		"	
217 Relinquished By: [Signature]		"		"	
218 Received By: [Signature]		"		"	
219 Relinquished By: [Signature]		"		"	
220 Received By: [Signature]		"		"	
221 Relinquished By: [Signature]		"		"	
222 Received By: [Signature]		"		"	
223 Relinquished By: [Signature]		"		"	
224 Received By: [Signature]		"		"	
225 Relinquished By: [Signature]		"		"	
226 Received By: [Signature]		"		"	
227 Relinquished By: [Signature]		"		"	
228 Received By: [Signature]		"		"	
229 Relinquished By: [Signature]		"		"	
230 Received By: [Signature]		"		"	
231 Relinquished By: [Signature]		"		"	
232 Received By: [Signature]		"		"	
233 Relinquished By: [Signature]		"		"	
234 Received By: [Signature]		"		"	
235 Relinquished By: [Signature]		"		"	
236 Received By: [Signature]		"		"	
237 Relinquished By: [Signature]		"		"	
238 Received By: [Signature]		"		"	
239 Relinquished By: [Signature]		"		"	
240 Received By: [Signature]		"		"	
241 Relinquished By: [Signature]		"		"	
242 Received By: [Signature]		"		"	
243 Relinquished By: [Signature]		"		"	
244 Received By: [Signature]		"		"	

8 of 20

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants

Project: Hangar 1 NTCRA

Date Received: 10/4/23

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C)
(No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 5.2 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 4.2 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?	✓		
If custody seals are present, were they intact?	✓		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

493321

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: _____

Date: OCT 04 2023

Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal
Sample Acceptance Checklist – Rev 4, 8/8/2017

SOUTHWEST AIRLINES

Printed on:
03 OCT 19:50

526 OAK 9402 7592



SNA		PC#		
		2 of 8		
		DG		
		G		
		LOT WT		
		350 LB		
		(158.7 KG)		
OAK	WN 2648	04 OCT	07:25	
STN	FLT	DATE	ETD	LOT 01



PC ID: 0002
PC WT: 44LB

526 94027592 0002

S

42/5.2

Enthalpy Analytical - Orange Analytical Report

Lab #: 493321

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C9E-PS-3.5-231003-P-G

Batch#: 323848

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493321-001

Received: 10/03/23

Analyst: MES

Matrix: Wipe

Prepared: 10/05/23

Diln Fac: 1.000

Analyzed: 10/05/23

493321-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-001 Surrogate		%REC	Limits
TCMX (PCB)		79	19-121
Decachlorobiphenyl (PCB)		87	19-121

Field ID: ARCH-C10E-INT-2.5 TO 3.5-231003-P-WF

Batch#: 323848

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493321-003

Received: 10/03/23

Analyst: MES

Matrix: Wipe

Prepared: 10/05/23

Diln Fac: 1.000

Analyzed: 10/05/23

493321-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-003 Surrogate		%REC	Limits
TCMX (PCB)		68	19-121
Decachlorobiphenyl (PCB)		73	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493321

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-P-LA

Batch#: 323848

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493321-006

Received: 10/03/23

Analyst: MES

Matrix: Wipe

Prepared: 10/05/23

Diln Fac: 1.000

Analyzed: 10/05/23

493321-006 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-006 Surrogate		%REC	Limits
TCMX (PCB)		74	19-121
Decachlorobiphenyl (PCB)		75	19-121

Field ID: ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-P-DUP-LA

Batch#: 323848

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493321-007

Received: 10/03/23

Analyst: MES

Matrix: Wipe

Prepared: 10/05/23

Diln Fac: 1.000

Analyzed: 10/05/23

493321-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-007 Surrogate		%REC	Limits
TCMX (PCB)		73	19-121
Decachlorobiphenyl (PCB)		76	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493321	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C9E-DG-4 TO 4.5-231003-P-FB	Batch#: 323848	Prep: EPA 3546
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 8082
Lab ID: 493321-009	Received: 10/03/23	Analyst: MES
Matrix: Wipe	Prepared: 10/05/23	
Diln Fac: 1.000	Analyzed: 10/05/23	

493321-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-009 Surrogate		%REC	Limits
TCMX (PCB)		70	19-121
Decachlorobiphenyl (PCB)		71	19-121

Field ID: ARCH-C9E-DG-4 TO 4.5-DN-C9.4-VS-231003-P-LA	Batch#: 323848	Prep: EPA 3546
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 8082
Lab ID: 493321-012	Received: 10/03/23	Analyst: MES
Matrix: Wipe	Prepared: 10/05/23	
Diln Fac: 1.000	Analyzed: 10/05/23	

493321-012 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-012 Surrogate		%REC	Limits
TCMX (PCB)		72	19-121
Decachlorobiphenyl (PCB)		73	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493321

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231003-P-LA

Batch#: 323848

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493321-014

Received: 10/03/23

Analyst: MES

Matrix: Wipe

Prepared: 10/05/23

Diln Fac: 1.000

Analyzed: 10/05/23

493321-014 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-014 Surrogate		%REC	Limits
TCMX (PCB)		69	19-121
Decachlorobiphenyl (PCB)		72	19-121

Field ID: ARCH-C11E-PS-4.5-231003-P-G

Batch#: 323848

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493321-016

Received: 10/03/23

Analyst: MES

Matrix: Wipe

Prepared: 10/05/23

Diln Fac: 1.000

Analyzed: 10/05/23

493321-016 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-016 Surrogate		%REC	Limits
TCMX (PCB)		72	19-121
Decachlorobiphenyl (PCB)		75	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493321	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C9E-INT-4.5 TO 5.5-231003-P-WF	Batch#: 323848	Prep: EPA 3546
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 8082
Lab ID: 493321-018	Received: 10/03/23	Analyst: MES
Matrix: Wipe	Prepared: 10/05/23	
Diln Fac: 1.000	Analyzed: 10/05/23	

493321-018 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-018 Surrogate		%REC	Limits
TCMX (PCB)		70	19-121
Decachlorobiphenyl (PCB)		74	19-121

Field ID: ARCH-C9E-DG-5 TO 5.5-UP-C9.5-DG-231003-P-LA	Batch#: 323848	Prep: EPA 3546
Type: SAMPLE	Sampled: 10/03/23	Analysis: EPA 8082
Lab ID: 493321-020	Received: 10/03/23	Analyst: MES
Matrix: Wipe	Prepared: 10/05/23	
Diln Fac: 1.000	Analyzed: 10/05/23	

493321-020 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-020 Surrogate		%REC	Limits
TCMX (PCB)		74	19-121
Decachlorobiphenyl (PCB)		76	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 493321

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: 231003-P-FIELDBLANK1-LO

Batch#: 323848

Prep: EPA 3546

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 8082

Lab ID: 493321-022

Received: 10/03/23

Analyst: MES

Matrix: Wipe

Prepared: 10/05/23

Diln Fac: 1.000

Analyzed: 10/05/23

493321-022 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
493321-022 Surrogate		%REC	Limits
TCMX (PCB)		66	19-121
Decachlorobiphenyl (PCB)		71	19-121

Type: BLANK

Batch#: 323848

Analysis: EPA 8082

Lab ID: QC1098232

Prepared: 10/05/23

Analyst: MES

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1098232 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
QC1098232 Surrogate		%REC	Limits
TCMX (PCB)		69	19-121
Decachlorobiphenyl (PCB)		74	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 493321

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 323848

Analysis: EPA 8082

Lab ID: QC1098233

Prepared: 10/05/23

Analyst: MES

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1098233 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.100	82	60-140	ug/100 cm2
Aroclor-1260	5.000	4.354	87	60-140	ug/100 cm2
QC1098233 Surrogate			%REC	Limits	
TCMX (PCB)			72	19-121	
Decachlorobiphenyl (PCB)			80	19-121	

Type: BSD

Batch#: 323848

Analysis: EPA 8082

Lab ID: QC1098234

Prepared: 10/05/23

Analyst: MES

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1098234 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.016	80	60-140	ug/100 cm2	2	20
Aroclor-1260	5.000	4.291	86	60-140	ug/100 cm2	1	20
QC1098234 Surrogate			%REC	Limits			
TCMX (PCB)			70	19-121			
Decachlorobiphenyl (PCB)			79	19-121			

Legend

RPD: Relative Percent Difference

Lead

Lab #: 493321

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: ARCH-C9E-PS-3.5-231003-L-G

Type: SAMPLE

Lab ID: 493321-002

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323757

Sampled: 10/03/23

Received: 10/03/23

Prepared: 10/04/23

Analyzed: 10/05/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

493321-002 Analyte	Result	RL	Units
Lead	44	0.50	ug/ft2

Field ID: ARCH-C10E-INT-2.5 TO 3.5-231003-L-WF

Type: SAMPLE

Lab ID: 493321-004

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323756

Sampled: 10/03/23

Received: 10/03/23

Prepared: 10/04/23

Analyzed: 10/04/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

493321-004 Analyte	Result	RL	Units
Lead	94	0.50	ug/ft2

Field ID: ARCH-C10E-INT-2.5 TO 3.5-231003-L-DUP-WF

Type: SAMPLE

Lab ID: 493321-005

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323756

Sampled: 10/03/23

Received: 10/03/23

Prepared: 10/04/23

Analyzed: 10/04/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

493321-005 Analyte	Result	RL	Units
Lead	96	0.50	ug/ft2

Field ID: ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-L-LA

Type: SAMPLE

Lab ID: 493321-008

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323756

Sampled: 10/03/23

Received: 10/03/23

Prepared: 10/04/23

Analyzed: 10/04/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

493321-008 Analyte	Result	RL	Units
Lead	14	0.50	ug/ft2

Field ID: ARCH-C9E-DG-4 TO 4.5-231003-L-FB

Type: SAMPLE

Lab ID: 493321-010

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323756

Sampled: 10/03/23

Received: 10/03/23

Prepared: 10/04/23

Analyzed: 10/04/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

493321-010 Analyte	Result	RL	Units
Lead	61	0.50	ug/ft2

Lead

Lab #: 493321		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C9E-DG-4 TO 4.5-231003-L-DUP-FB		Batch#: 323757	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493321-011		Received: 10/03/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/04/23	
Diln Fac: 1.000		Analyzed: 10/05/23	
493321-011 Analyte		Result	RL Units
Lead		41	0.50 ug/ft2
Field ID: ARCH-C9E-DG-4 TO 4.5-DN-C9.4-VS-231003-L-LA		Batch#: 323756	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493321-013		Received: 10/03/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/04/23	
Diln Fac: 1.000		Analyzed: 10/04/23	
493321-013 Analyte		Result	RL Units
Lead		88	0.50 ug/ft2
Field ID: ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231003-L-LA		Batch#: 323756	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493321-015		Received: 10/03/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/04/23	
Diln Fac: 1.000		Analyzed: 10/04/23	
493321-015 Analyte		Result	RL Units
Lead		59	0.50 ug/ft2
Field ID: ARCH-C11E-PS-4.5-231003-L-G		Batch#: 323756	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493321-017		Received: 10/03/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/04/23	
Diln Fac: 1.000		Analyzed: 10/04/23	
493321-017 Analyte		Result	RL Units
Lead		97	0.50 ug/ft2
Field ID: ARCH-C9E-INT-4.5 TO 5.5-231003-L-WF		Batch#: 323756	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/03/23	Analysis: EPA 6010B
Lab ID: 493321-019		Received: 10/03/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/04/23	
Diln Fac: 1.000		Analyzed: 10/04/23	
493321-019 Analyte		Result	RL Units
Lead		58	0.50 ug/ft2

Lead

Lab #: 493321

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C9E-DG-5 TO 5.5-UP-C9.5-DG-231003-L-LA

Batch#: 323756

Prep: EPA 3050B

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 6010B

Lab ID: 493321-021

Received: 10/03/23

Analyst: SBW

Matrix: Wipe

Prepared: 10/04/23

Diln Fac: 1.000

Analyzed: 10/04/23

493321-021 Analyte	Result	RL	Units
Lead	95	0.50	ug/ft2

Field ID: 231003-L-FIELDBLANK1-LO

Batch#: 323756

Prep: EPA 3050B

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 6010B

Lab ID: 493321-023

Received: 10/03/23

Analyst: SBW

Matrix: Wipe

Prepared: 10/04/23

Diln Fac: 1.000

Analyzed: 10/04/23

493321-023 Analyte	Result	RL	Units
Lead	1.1	0.50	ug/ft2

Field ID: 231003-L-MEDBLANK1

Batch#: 323756

Prep: EPA 3050B

Type: SAMPLE

Sampled: 10/03/23

Analysis: EPA 6010B

Lab ID: 493321-024

Received: 10/03/23

Analyst: SBW

Matrix: Wipe

Prepared: 10/04/23

Diln Fac: 1.000

Analyzed: 10/04/23

493321-024 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK

Batch#: 323756

Analysis: EPA 6010B

Lab ID: QC1097962

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/04/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097962 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK

Batch#: 323757

Analysis: EPA 6010B

Lab ID: QC1097965

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097965 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 493321

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 323756

Analysis: EPA 6010B

Lab ID: QC1097963

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/04/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097963 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	49.65	99	80-120	ug/ft2

Type: BS

Batch#: 323757

Analysis: EPA 6010B

Lab ID: QC1097966

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097966 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	49.19	98	80-120	ug/ft2

Type: BSD

Batch#: 323756

Analysis: EPA 6010B

Lab ID: QC1097964

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/04/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097964 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	49.62	99	80-120	ug/ft2	0	20

Type: BSD

Batch#: 323757

Analysis: EPA 6010B

Lab ID: QC1097967

Prepared: 10/04/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/05/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1097967 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	49.02	98	80-120	ug/ft2	0	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 494421
Report Level: IV
Report Date: 10/25/2023

Metals

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 494421
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 10/23/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C8E-DG-5 TO 5.5-UP-C8.3-DG-231023-L-LA	494421-001	10/23/23 07:30	Wipe
ARCH-C10E-DG-5 TO 5.5-231023-L-FB	494421-002	10/23/23 07:40	Wipe
ARCH-C8E-PS-5.5-231023-L-G	494421-003	10/23/23 07:50	Wipe
ARCH-C10E-PS-5.5-231023-L-G	494421-004	10/23/23 08:00	Wipe
ARCH-C9E-DG-5.5 TO 6-231023-L-FB	494421-005	10/23/23 08:10	Wipe
ARCH-C9E-DG-5.5 TO 6-DN-C9.6-DG-231023-L-LA	494421-006	10/23/23 08:20	Wipe
ARCH-C8E-EXT-6 TO 7-231023-L-WF	494421-007	10/23/23 08:30	Wipe
ARCH-C8E-DG-6 TO 6.5-UP-C8.1-HS-231023-L-LA	494421-008	10/23/23 08:40	Wipe
ARCH-C9E-DG-6 TO 6.5-DN-C9.7-VS-231023-L-LA	494421-009	10/23/23 08:50	Wipe
ARCH-C11E-DG-6 TO 6.5-231023-L-FB	494421-010	10/23/23 09:05	Wipe
ARCH-C9E-PS-6.5-231023-L-G	494421-011	10/23/23 09:15	Wipe
ARCH-C11E-PS-6.5-231023-L-G	494421-012	10/23/23 09:30	Wipe
ARCH-C8E-INT-6.5 TO 7-231023-L-WF	494421-013	10/23/23 09:40	Wipe
ARCH-C8E-DG-7 TO 7.5-UP-C8.7-DG-231023-L-LA	494421-014	10/23/23 09:45	Wipe
ARCH-C9E-DG-7 TO 7.5-231023-L-FB	494421-015	10/23/23 09:55	Wipe
ARCH-C9E-DG-7 TO 7.5-DN-C9.2-VS-231023-L-LA	494421-016	10/23/23 10:00	Wipe
ARCH-C8E-DG-7.5 TO 8-DN-C8.6-VS-231023-L-LA	494421-017	10/23/23 10:15	Wipe
ARCH-C9E-DG-7.5 TO 8-DN-C9.3-VS-231023-L-LA	494421-018	10/23/23 10:20	Wipe

Sample Summary

Austin Moore	Lab Job #:	494421
Rincon Consultants	Project No:	20-10491
449 15th Street	Location:	Hangar 1 NTCRA
#303	Date Received:	10/23/23
Oakland, CA 94612		

Sample ID	Lab ID	Collected	Matrix
ARCH-C8E-DG-8 TO 9-DN-C8.6-VS-231023-L-LA	494421-019	10/23/23 10:30	Wipe
231023-L-FIELDBLANK2-LO	494421-020	10/23/23 10:25	Wipe
231023-L-MEDBLANK2-LO	494421-021	10/23/23 11:40	Wipe

Case Narrative

METALS (EPA 6010B)

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 494421
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 10/23/23

This data package contains sample and QC results for twenty one wipe samples, requested for the above referenced project on 10/24/23. See attached cooler receipt form for any sample receipt problems or discrepancies.

Metals (EPA 6010B):

No analytical problems were encountered.

Chain of Custody

494421

Enthalpy Analytical - Orange		Chain of Custody Record		Turn Around Time (rush by advanced notice only)			
931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900		COC ID:		Standard:		3 Day:	
Page: 1 of 2		2 Day:		X (PCBs)		Custom TAT:	
Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe - O = Other		Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other		X (Pb)		Sample Receipt Temp:	
Report: Level II data validation		Report: Level II data validation				(lab use only)	
CUSTOMER INFORMATION Company: Rincon Consultants, Inc. Report To: Lindsey Parker Email: lparker@rinconconsultants.com Address: 449 15th Street, Suite 303 Oakland, California 94612 Phone: (510) 890-9556 Fax:		PROJECT INFORMATION Quote #: RIN031721 Proj. Name: Hangar 1 - NCTRA WP Proj. #: 20-10491 P.O. #: 158 Cody Road, Mountain View, CA Address: Global ID: Sampled By: D. Welsh		ANALYSIS REQUEST PCBs - EPA Method 8082 Lead - EPA Method 3050/60108		TEST INSTRUCTIONS / COMMENTS Confirmation Wipe Samples - Level II Report/Stage 2A Validation Report PCB concentrations on a µg/100cm ² basis Report lead concentrations on a µg/lit basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 5 Enclosure A/B (Low Occupancy)	
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.		
1 ARCH-C8E-DG-5 TO 5.5-UP-C8.3-DG-23 1023-L-LA	10/23/2023	0730	WP	1	-		
2 ARCH-C10E-DG-5 TO 5.5-23 1023-L-FB	10/23/2023	0740	WP	1	-		
3 ARCH-C8E-PS-5.5-23 1023-L-G	10/23/2023	0750	WP	1	-		
4 ARCH-C10E-PS-5.5-23 1023-L-G	10/23/2023	0800	WP	1	-		
5 ARCH-C9E-DG-5.5 TO 6-23 1023-L-FB	10/23/2023	0810	WP	1	-		
6 ARCH-C9E-DG-5.5 TO 6-DN-C9.6-DG-23 1023-L-LA	10/23/2023	0820	WP	1	-		
7 ARCH-C8E-EXT-6 TO 7-23 1023-L-WF	10/23/2023	0830	WP	1	-		
8 ARCH-C8E-DG-6 TO 6.5-UP-C8.1-HS-23 1023-L-LA	10/23/2023	0840	WP	1	-		
9 ARCH-C9E-DG-6 TO 6.5-DN-C9.7-VS-23 1023-L-LA	10/23/2023	0850	WP	1	-		
10 ARCH-C11E-DG-6 TO 6.5-23 1023-L-FB	10/23/2023	0905	WP	1	-		
11 ARCH-C9E-PS-6.5-23 1023-L-G	10/23/2023	0915	WP	1	-		
12 ARCH-C11E-PS-6.5-23 1023-L-G	10/23/2023	0930	WP	1	-		
13 ARCH-C8E-INT-6.5 TO 7-23 1023-L-WF	10/23/2023	0940	WP	1	-		
14 ARCH-C8E-DG-7 TO 7.5-UP-C8.7-DG-23 1023-L-LA	10/23/2023	0945	WP	1	-		
15 ARCH-C9E-DG-7 TO 7.5-23 1023-L-FB	10/23/2023	0955	WP	1	-		
Signature 1 Relinquished By: [Signature] 1 Received By: Audrey Hudson 2 Relinquished By: [Signature] 2 Received By: [Signature] 3 Relinquished By: [Signature] 3 Received By: [Signature]		Print Name Michaela Kim Audrey Hudson Jada Peterson Non-Verbal Supp FPOUW		Company / Title Rincon/Env Scientist ENTHALPY ENTHALPY R4 EN		Date / Time 10/23/23 0940 10/23/23 14:07 10/23/23 16:25 10/23/23 16:25 10/23/23 17:15 10/24/23 0911	

Chain of Custody Record				Turn Around Time (rush by advanced notice only)			
COC ID:				Standard:			
Page: 2 of 2				X (PCBs) 5 Day: 3 Day:			
Matrix: A = Air S = Soil/Solid				1 Day: X (Ph)			
W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water				Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other			
SW = Swab T = Tissue WP = Wipe O = Other				Report: Level II data validation			
(lab use only)				Sample Receipt Temp:			
PROJECT INFORMATION				Analysis Request			
Quote #:				Test Instructions / Comments			
Proj. Name:				Confirmation Wipe Samples - Level II			
Proj. #:				Report/Stage 2A Validation			
P.O. #:				Report PCB concentrations on a µg/100cm ² basis			
Address:				Report lead concentrations on a µg/ft ² basis			
Global ID:				Report Aroclor 1268 concentrations in addition to the standard Aroclors			
Sampled By:				Wipe samples collected from Zone 5 Enclosure A/B (Low Occupancy)			
Sample ID				PCBs - EPA Method 8082			
Sampling Date				Lead - EPA Method 3050/6010B			
Sampling Time				Matrix			
Container No. / Size				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			
Sample ID				Matrix			
Sampling Date				Sampling Time			
Sampling Time				Container No. / Size			
Sample ID				Pres.			

The below sample checklist was completed after delivery of the samples by the laboratory provided courier or Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST			
Section 1: General Info Date Received: <u>10/23/23</u> Login # <u>494421</u> Client: <u>Rincon</u> 			
Section 2: Shipping / Custody Shipping Info: _____ Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials			
Section 3: Condition / Packaging Important: Notify PM if temperature exceeds 6°C or arrive frozen Date Opened <u>10/23/23</u> By (print) _____ (sign) _____ ☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures) If no cooler: Sample Temp (°C): _____ How many coolers? <u>1</u> Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No			
Section 4: Containers / Labels / Samples	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable?	/		
Were Method 5035 sampling containers present? Transferred to freezer @: _____		/	
Did all containers arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm present in VOA samples?			/
Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____		/	
Section 5: Preservatives	YES	NO	N/A
Are the samples appropriately preserved? (if yes, skip the rest of section 5)			
Did any samples / containers require preservation upon receipt?			
Did you document your preservative check in the bench book?			
Preservative added: ☐ H2SO4 lot# _____ added to samples _____ Date/Time _____ ☐ HCL lot# _____ added to samples _____ Date/Time _____ ☐ HNO3 lot# _____ added to samples _____ Date/Time _____ ☐ CrVI Buffer lot# _____ added to samples _____ Date/Time _____			
Section 6: Explanations / Comments <u>No custody seal attached.</u> _____ _____ _____ _____ _____ _____ _____ _____ _____			
Date Logged <u>10/23/23</u> By (print) <u>my</u> (sign) _____ Date Labeled <u>10/23/23</u> By (print) <u>my</u> (sign) _____			

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants

Project: Hangar 1 NTCRA

Date Received: 10/24/23

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C)
(No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 4.4 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.7 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5

494421

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____

Date: **OCT 24 2023**

Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal
Sample Acceptance Checklist – Rev 4, 8/8/2017

526 | OAK | 94759195

526 - 94759195

Shipper's Name and Address ENTHALPY ANALYTICAL, LLC 931 W BARKLEY AVE ORANGE, CA 92868 US +1 (714) 771-6900			Shipper's Account Number 103977 - 1			Not Negotiable / Issued by  52694759195 swacargo.com (800) 533-1222			Southwest Cargo		
Consignee's Name and Address ENTHALPY ANALYTICAL, LLC 931 W BARKLEY AVE ORANGE, CA 92868 US +1 (714) 771-6900			Consignee's Account Number 103977 - 1			Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage subject to Southwest Airlines' Contract of Carriage which is www.swacargo.com and any location where air waybills are available. Shipper's attention is drawn to the terms of the contract which includes, among other things; (1) Limits on Carriers' liability for loss, damage, or delay of goods, including fragile or perishable goods; (2) Claim restrictions, including time within which shippers or consignees must file a claim or bring an action against the carrier for its acts or omissions or those of its agents; (3) Right of the carrier to change the terms of the contract; (4) Rules about refusal to carry; and (5) Rights of the carrier and limitations, concerning delay or failure to perform service, including schedule changes, rerouting, substitution of an alternate carrier or aircraft, or means of carriage including road unless specific contrary instructions are given hereon by shipper, and shipper agrees the shipment may be carried via intermediate stopping places the carrier deems appropriate. Shipper may increase liability limits by declaring a higher value for carriage and paying a supplemental charge if required.					
Issuing Carrier's Agent Name and City						Accounting Information Billed on 10/23/2023 18:57 PDT SWA ACCOUNT 103977					
Agent's IATA Code			Account No.			Service Level - S					
Airport of Departure (Addr. of First Carrier) and Requested Routing OAKLAND									Declared Value for Customs		
To	By First Carrier	To	By	To	By	Currency	CHGS Code	WT.VAL	Other	Declared Value for Carriage	Declared Value for Customs
SNA	SOUTHWEST AIRLINES					USD	PP	PPD X	COLL X	NVD	
Airport of Destination SNA		Flight Date WN2937 / 23OCT		For Carrier Use Only		Amount of Insurance		INSURANCE - If carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance".			
HANDLING INFORMATION -											
SCI											
No. of Pieces RCP	Gross Weight	kg lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate / Charge	Total	Nature and Quantity of Goods (Inc. Dimensions or Volume)			
5	200	L	N	0000	200	As Agreed	*****	SOIL/WATER/AIR SAMPLES DIMS IN INCHES: 2 = 24 X 15 X 14 1 = 20 X 20 X 17 1 = 9 X 9 X 13 1 = 18 X 10 X 13 <i>Berk</i> <i>@ 9:11</i>			
5	200						*****				
Prepaid			Weight Charge			Collect			Other Charges and Description MYC 0.00 SCC 0.00		
*****			Valuation Charge			*****			Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations. I consent that this shipment shall be subject to search by the Carrier.		
*****			Tax			*****			REBECCA BETANCOURT		
Total Other Charges Due Agent			Total Other Charges Due Carrier			Signature of Shipper or his Agent			Signature of Issuing Carrier or its Agent		
*****			Total Prepaid			Total Collect			10/23/2023 18:57 PDT OAK E39474		
Currency Conversion Rates			CC Charges in Dest. Currency			Executed on (date and time)			At (place)		
For Carriers Use only at Destination			Charges at Destination			Total Collect Charges			526 - 94759195		

ORIGINAL 1 (FOR ISSUING CARRIER)

2.7 / 4.4

Results & QC Summary

Lead

Lab #: 494421		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C8E-DG-5 TO 5.5-UP-C8.3-DG-231023-L-LA		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-001		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-001 Analyte		Result	RL Units
Lead		64	0.50 ug/ft2
Field ID: ARCH-C10E-DG-5 TO 5.5-231023-L-FB		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-002		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-002 Analyte		Result	RL Units
Lead		25	0.50 ug/ft2
Field ID: ARCH-C8E-PS-5.5-231023-L-G		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-003		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-003 Analyte		Result	RL Units
Lead		69	0.50 ug/ft2
Field ID: ARCH-C10E-PS-5.5-231023-L-G		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-004		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-004 Analyte		Result	RL Units
Lead		71	0.50 ug/ft2
Field ID: ARCH-C9E-DG-5.5 TO 6-231023-L-FB		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-005		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-005 Analyte		Result	RL Units
Lead		38	0.50 ug/ft2

Lead

Lab #: 494421		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C9E-DG-5.5 TO 6-DN-C9.6-DG-231023-L-LA	Batch#: 325072	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/23/23	Analysis: EPA 6010B	
Lab ID: 494421-006	Received: 10/23/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/24/23		
Diln Fac: 1.000	Analyzed: 10/24/23		
494421-006 Analyte		Result	RL Units
Lead		88	0.50 ug/ft2
Field ID: ARCH-C8E-EXT-6 TO 7-231023-L-WF		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-007		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-007 Analyte		Result	RL Units
Lead		84	0.50 ug/ft2
Field ID: ARCH-C8E-DG-6 TO 6.5-UP-C8.1-HS-231023-L-LA		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-008		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-008 Analyte		Result	RL Units
Lead		220	0.50 ug/ft2
Field ID: ARCH-C9E-DG-6 TO 6.5-DN-C9.7-VS-231023-L-LA		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-009		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-009 Analyte		Result	RL Units
Lead		92	0.50 ug/ft2
Field ID: ARCH-C11E-DG-6 TO 6.5-231023-L-FB		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-010		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-010 Analyte		Result	RL Units
Lead		56	0.50 ug/ft2

Lead

Lab #: 494421		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C9E-PS-6.5-231023-L-G	Batch#: 325072	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/23/23	Analysis: EPA 6010B	
Lab ID: 494421-011	Received: 10/23/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/24/23		
Diln Fac: 1.000	Analyzed: 10/24/23		
494421-011 Analyte		Result	RL Units
Lead		54	0.50 ug/ft2
Field ID: ARCH-C11E-PS-6.5-231023-L-G		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-012		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-012 Analyte		Result	RL Units
Lead		73	0.50 ug/ft2
Field ID: ARCH-C8E-INT-6.5 TO 7-231023-L-WF		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-013		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-013 Analyte		Result	RL Units
Lead		27	0.50 ug/ft2
Field ID: ARCH-C8E-DG-7 TO 7.5-UP-C8.7-DG-231023-L-LA		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-014		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-014 Analyte		Result	RL Units
Lead		110	0.50 ug/ft2
Field ID: ARCH-C9E-DG-7 TO 7.5-231023-L-FB		Batch#: 325072	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/23/23	Analysis: EPA 6010B
Lab ID: 494421-015		Received: 10/23/23	Analyst: SBW
Matrix: Wipe		Prepared: 10/24/23	
Diln Fac: 1.000		Analyzed: 10/24/23	
494421-015 Analyte		Result	RL Units
Lead		26	0.50 ug/ft2

Lead

Lab #: 494421		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C9E-DG-7 TO 7.5-DN-C9.2-VS-231023-L-LA	Batch#: 325072	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/23/23	Analysis: EPA 6010B	
Lab ID: 494421-016	Received: 10/23/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/24/23		
Diln Fac: 1.000	Analyzed: 10/24/23		
494421-016 Analyte		Result	RL Units
Lead		99	0.50 ug/ft2
Field ID: ARCH-C8E-DG-7.5 TO 8-DN-C8.6-VS-231023-L-LA	Batch#: 325072	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/23/23	Analysis: EPA 6010B	
Lab ID: 494421-017	Received: 10/23/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/24/23		
Diln Fac: 1.000	Analyzed: 10/24/23		
494421-017 Analyte		Result	RL Units
Lead		50	0.50 ug/ft2
Field ID: ARCH-C9E-DG-7.5 TO 8-DN-C9.3-VS-231023-L-LA	Batch#: 325072	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/23/23	Analysis: EPA 6010B	
Lab ID: 494421-018	Received: 10/23/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/24/23		
Diln Fac: 1.000	Analyzed: 10/24/23		
494421-018 Analyte		Result	RL Units
Lead		110	0.50 ug/ft2
Field ID: ARCH-C8E-DG-8 TO 9-DN-C8.6-VS-231023-L-LA	Batch#: 325072	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/23/23	Analysis: EPA 6010B	
Lab ID: 494421-019	Received: 10/23/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/24/23		
Diln Fac: 1.000	Analyzed: 10/24/23		
494421-019 Analyte		Result	RL Units
Lead		82	0.50 ug/ft2
Field ID: 231023-L-FIELDBLANK2-LO	Batch#: 325072	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/23/23	Analysis: EPA 6010B	
Lab ID: 494421-020	Received: 10/23/23	Analyst: SBW	
Matrix: Wipe	Prepared: 10/24/23		
Diln Fac: 1.000	Analyzed: 10/24/23		
494421-020 Analyte		Result	RL Units
Lead		ND	0.50 ug/ft2

Lead

Lab #: 494421

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: 231023-L-MEDBLANK2-LO

Batch#: 325074

Prep: EPA 3050B

Type: SAMPLE

Sampled: 10/23/23

Analysis: EPA 6010B

Lab ID: 494421-021

Received: 10/23/23

Analyst: SBW

Matrix: Wipe

Prepared: 10/24/23

Diln Fac: 1.000

Analyzed: 10/24/23

494421-021 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK

Batch#: 325072

Analysis: EPA 6010B

Lab ID: QC1102274

Prepared: 10/24/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/24/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1102274 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK

Batch#: 325074

Analysis: EPA 6010B

Lab ID: QC1102278

Prepared: 10/24/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/24/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1102278 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 494421

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 325072

Analysis: EPA 6010B

Lab ID: QC1102275

Prepared: 10/24/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/24/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1102275 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	110.5	111	80-120	ug/ft2

Type: BS

Batch#: 325074

Analysis: EPA 6010B

Lab ID: QC1102279

Prepared: 10/24/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/24/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1102279 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	111.3	111	80-120	ug/ft2

Type: BSD

Batch#: 325072

Analysis: EPA 6010B

Lab ID: QC1102276

Prepared: 10/24/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/24/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1102276 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	112.7	113	80-120	ug/ft2	2	20

Type: BSD

Batch#: 325074

Analysis: EPA 6010B

Lab ID: QC1102280

Prepared: 10/24/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/24/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1102280 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	116.4	116	80-120	ug/ft2	4	20

Legend

RPD: Relative Percent Difference

REPORTING SUMMARY FOR 494421 METALS Wipe
Enthalpy Analytical - Orange

Lab ID	Inst ID	Analyzed	IDF	P B
494421-001	MET09	10/24/23 14:08	1.0	✓
494421-002	MET09	10/24/23 14:11	1.0	✓
494421-003	MET09	10/24/23 14:15	1.0	✓
494421-004	MET09	10/24/23 14:18	1.0	✓
494421-005	MET09	10/24/23 14:21	1.0	✓
494421-006	MET09	10/24/23 14:24	1.0	✓
494421-007	MET09	10/24/23 14:27	1.0	✓
494421-008	MET09	10/24/23 14:30	1.0	✓
494421-009	MET09	10/24/23 14:40	1.0	✓
494421-010	MET09	10/24/23 14:43	1.0	✓
494421-011	MET09	10/24/23 14:46	1.0	✓
494421-012	MET09	10/24/23 14:49	1.0	✓
494421-013	MET09	10/24/23 14:52	1.0	✓
494421-014	MET09	10/24/23 14:55	1.0	✓
494421-015	MET09	10/24/23 14:58	1.0	✓
494421-016	MET09	10/24/23 15:01	1.0	✓
494421-017	MET09	10/24/23 15:04	1.0	✓
494421-018	MET09	10/24/23 15:08	1.0	✓
494421-019	MET09	10/24/23 15:17	1.0	✓
494421-020	MET09	10/24/23 15:20	1.0	✓
494421-021	MET09	10/24/23 15:54	1.0	✓

Lab ID	Inst ID	Analyzed	IDF	P B
QC1102274	MET09	10/24/23 13:53	1.0	✓
QC1102275	MET09	10/24/23 14:02	1.0	✓
QC1102276	MET09	10/24/23 14:05	1.0	✓
QC1102278	MET09	10/24/23 15:45	1.0	✓
QC1102279	MET09	10/24/23 15:48	1.0	
QC1102279	MET06	10/24/23 16:35	1.0	✓
QC1102280	MET09	10/24/23 15:51	1.0	
QC1102280	MET06	10/24/23 16:39	1.0	✓

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
001	met06_master011	ICALBLK	CALBLANK			10/24/23 09:16	1.0	1	
002	met06_master011	ICAL	L1			10/24/23 09:20	1.0	2 1	
003	met06_master011	ICAL	L2			10/24/23 09:23	1.0	3 1	
004	met06_master011	ICAL	L3			10/24/23 09:26	1.0	4 1	
005	met06_master011	ICAL	L4			10/24/23 09:29	1.0	5 1	
006	met06_master011	ICAL	L5			10/24/23 09:33	1.0	6 1	
007	met06_master011	ICAL	L6			10/24/23 09:36	1.0	7 1	
008	met06_master011	ICAL	L7			10/24/23 09:39	1.0	8 1	
009	met06_master011	ICAL	L8			10/24/23 09:42	1.0	9 1	
010	met06_master011	ICV				10/24/23 09:46	1.0	10 1	
011	met06_master011	CRI				10/24/23 09:49	1.0	11 1	
012	met06_master011	ICB				10/24/23 09:52	1.0	1	
013	met06_master011	ICSA				10/24/23 09:56	1.0	12 1	6:MGASMGCO3=1400
014	met06_master011	ICSAB				10/24/23 09:59	1.0	13 1	6:MGASMGCO3=1400
015	met06_master011	BLANK	QC1100361	Water	324479	10/24/23 10:03	1.0	1	
016	met06_master011	BLANK	QC1102252	Drinking Water	325063	10/24/23 10:06	1.0	1	
017	met06_master011	LCS	QC1102253	Drinking Water	325063	10/24/23 10:09	1.0	1	
018	met06_master011	SAMPLE	494312-001	Drinking Water	325063	10/24/23 10:13	1.0	1	
019	met06_master011	SAMPLE	494487-001	Drinking Water	325063	10/24/23 10:16	1.0	1	
020	met06_master011	MSS	494489-001	Drinking Water	325063	10/24/23 10:19	1.0	1	
021	met06_master011	MS	QC1102254	Drinking Water	325063	10/24/23 10:22	1.0	1	
022	met06_master011	MSD	QC1102255	Drinking Water	325063	10/24/23 10:26	1.0	1	
023	met06_master011	XCCV				10/24/23 10:29	1.0	10 1	
024	met06_master011	CCV				10/24/23 10:35	1.0	10 1	
025	met06_master011	CCB				10/24/23 10:38	1.0	1	
026	met06_master011	BLANK	QC1102162	Soil	325041	10/24/23 11:20	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
027	met06_master011	LCS	QC1102163	Soil	325041	10/24/23 11:23	1.0	1	
028	met06_master011	MSS	494412-001	Soil	325041	10/24/23 11:26	1.0	1	4:FEASFE2O3=200
029	met06_master011	MS	QC1102164	Soil	325041	10/24/23 11:29	1.0	1	5:ALASAL2O3=230
030	met06_master011	MSD	QC1102165	Soil	325041	10/24/23 11:33	1.0	1	5:ALASAL2O3=220
031	met06_master011	PDS	QC1102166	Soil	325041	10/24/23 11:36	1.0	1	4:FEASFE2O3=200
032	met06_master011	SAMPLE	494412-002	Soil	325041	10/24/23 11:39	1.0	1	2:FE=160
033	met06_master011	SAMPLE	494293-021	Soil	325041	10/24/23 11:42	1.0	1	2:FE=120
034	met06_master011	SAMPLE	494293-022	Soil	325041	10/24/23 11:46	1.0	1	2:FE=110
035	met06_master011	SAMPLE	494293-023	Soil	325041	10/24/23 11:49	1.0	1	3:FE=180
036	met06_master011	CCV				10/24/23 11:52	1.0	10 1	
037	met06_master011	CCB				10/24/23 11:55	1.0	1	
038	met06_master011	SAMPLE	494293-024	Soil	325041	10/24/23 11:59	1.0	1	2:FE=150
039	met06_master011	SAMPLE	494376-001	Soil	325041	10/24/23 12:02	1.0	1	3:FE=180
040	met06_master011	SAMPLE	494376-002	Soil	325041	10/24/23 12:05	1.0	1	2:FE=140
041	met06_master011	SAMPLE	494376-003	Soil	325041	10/24/23 12:08	1.0	1	2:FE=110
042	met06_master011	SAMPLE	494376-004	Soil	325041	10/24/23 12:12	1.0	1	3:FE=160
043	met06_master011	SAMPLE	494376-005	Soil	325041	10/24/23 12:15	1.0	1	3:FE=220
044	met06_master011	SAMPLE	494376-006	Soil	325041	10/24/23 12:18	1.0	1	3:FE=180
045	met06_master011	SAMPLE	494376-007	Soil	325041	10/24/23 12:21	1.0	1	3:AL=210
046	met06_master011	SAMPLE	494376-008	Soil	325041	10/24/23 12:25	1.0	1	3:FE=130
047	met06_master011	SAMPLE	494449-003	Soil	325041	10/24/23 12:28	1.0	1	3:FE=180
048	met06_master011	CCV				10/24/23 12:31	1.0	10 1	
049	met06_master011	CCB				10/24/23 12:34	1.0	1	
050	met06_master011	SAMPLE	494469-001	Soil	325041	10/24/23 12:38	1.0	1	3:FE=240
051	met06_master011	SAMPLE	494470-001	Soil	325041	10/24/23 12:41	1.0	1	3:FE=160
052	met06_master011	SAMPLE	494470-002	Soil	325041	10/24/23 12:44	1.0	1	3:FE=180

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
053	met06_master011	SAMPLE	494470-003	Soil	325041	10/24/23 12:47	1.0	1	3:FE=150
054	met06_master011	SAMPLE	494470-004	Soil	325041	10/24/23 12:51	1.0	1	3:FE=190
055	met06_master011	CCV				10/24/23 12:54	1.0	10 1	
056	met06_master011	CCB				10/24/23 12:57	1.0	1	
057	met06_master011	BLANK	QC1102167	Soil	325042	10/24/23 13:00	1.0	1	
058	met06_master011	LCS	QC1102168	Soil	325042	10/24/23 13:04	1.0	1	
059	met06_master011	MSS	494325-002	Soil	325042	10/24/23 13:07	1.0	1	4:FEASFE2O3=190
060	met06_master011	MS	QC1102169	Soil	325042	10/24/23 13:10	1.0	1	4:ALASAL2O3=210
061	met06_master011	MSD	QC1102170	Soil	325042	10/24/23 13:13	1.0	1	4:ALASAL2O3=200
062	met06_master011	PDS	QC1102171	Soil	325042	10/24/23 13:17	1.0	1	4:FEASFE2O3=180
063	met06_master011	SAMPLE	494325-003	Soil	325042	10/24/23 13:20	1.0	1	2:FE=130
064	met06_master011	SAMPLE	494325-004	Soil	325042	10/24/23 13:23	1.0	1	2:FE=100
065	met06_master011	SAMPLE	494325-005	Soil	325042	10/24/23 13:26	1.0	1	2:FE=110
066	met06_master011	SAMPLE	494325-006	Soil	325042	10/24/23 13:30	1.0	1	2:FE=100
067	met06_master011	CCV				10/24/23 13:33	1.0	10 1	
068	met06_master011	CCB				10/24/23 13:36	1.0	1	
069	met06_master011	SAMPLE	494325-007	Soil	325042	10/24/23 13:39	1.0	1	2:FE=140
070	met06_master011	SAMPLE	494325-008	Soil	325042	10/24/23 13:43	1.0	1	2:FE=120
071	met06_master011	SAMPLE	494325-009	Soil	325042	10/24/23 13:46	1.0	1	2:FE=110
072	met06_master011	SAMPLE	494325-010	Soil	325042	10/24/23 13:49	1.0	1	2:FE=100
073	met06_master011	SAMPLE	494325-011	Soil	325042	10/24/23 13:52	1.0	1	2:FE=100
074	met06_master011	SAMPLE	494325-012	Soil	325042	10/24/23 13:56	1.0	1	2:FE=130
075	met06_master011	SAMPLE	494325-013	Soil	325042	10/24/23 13:59	1.0	1	3:FE=220
076	met06_master011	SAMPLE	494325-014	Soil	325042	10/24/23 14:02	1.0	1	2:FE=150
077	met06_master011	SAMPLE	494325-015	Soil	325042	10/24/23 14:05	1.0	1	2:FE=130
078	met06_master011	SAMPLE	494325-016	Soil	325042	10/24/23 14:09	1.0	1	3:FE=200

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
079	met06_master011	CCV				10/24/23 14:12	1.0	10 1	
080	met06_master011	CCB				10/24/23 14:15	1.0	1	
081	met06_master011	SAMPLE	494325-017	Soil	325042	10/24/23 14:18	1.0	1	2:FE=130
082	met06_master011	BLANK	QC1102261	Soil	325069	10/24/23 14:22	1.0	1	
083	met06_master011	LCS	QC1102262	Soil	325069	10/24/23 14:26	1.0	1	
084	met06_master011	MSS	494370-001	Miscell.	325069	10/24/23 14:29	1.0	1	5:FEASFE2O3=290
085	met06_master011	MS	QC1102263	Miscell.	325069	10/24/23 14:32	1.0	1	5:ALASAL2O3=310
086	met06_master011	MSD	QC1102264	Miscell.	325069	10/24/23 14:35	1.0	1	5:ALASAL2O3=300
087	met06_master011	PDS	QC1102265	Miscell.	325069	10/24/23 14:39	1.0	1	5:FEASFE2O3=280
088	met06_master011	SAMPLE	494439-001	Soil	325069	10/24/23 14:42	1.0	1	2:FE=200
089	met06_master011	XBLANK	QC1102278	Wipe	325074	10/24/23 14:45	1.0	1	
090	met06_master011	CCV				10/24/23 14:49	1.0	10 1	
091	met06_master011	CCB				10/24/23 14:53	1.0	1	
092	met06_master011	SAMPLE	494325-018	Soil	325042	10/24/23 14:57	1.0	1	2:FE=150
093	met06_master011	SAMPLE	494325-019	Soil	325042	10/24/23 15:00	1.0	1	2:FE=160
094	met06_master011	SAMPLE	494325-020	Soil	325042	10/24/23 15:03	1.0	1	2:FE=110
095	met06_master011	SAMPLE	494460-005	Filtrate	325029	10/24/23 15:07	100.0	1	1:MN=10
096	met06_master011	SAMPLE	494460-007	Filtrate	325029	10/24/23 15:10	100.0	1	1:MN=9.9
097	met06_master011	SAMPLE	494370-002	Miscell.	325069	10/24/23 15:13	1.0	1	3:FE=180
098	met06_master011	SAMPLE	494370-003	Miscell.	325069	10/24/23 15:16	1.0	1	3:FE=200
099	met06_master011	SAMPLE	494370-016	Soil	325069	10/24/23 15:20	1.0	1	3:FE=180
100	met06_master011	SAMPLE	494451-001	Miscell.	325069	10/24/23 15:23	1.0	1	2:FE=110
101	met06_master011	SAMPLE	494452-001	Miscell.	325069	10/24/23 15:26	1.0	1	
102	met06_master011	CCV				10/24/23 15:29	1.0	10 1	
103	met06_master011	CCB				10/24/23 15:33	1.0	1	
104	met06_master011	SAMPLE	494480-001	Soil	325069	10/24/23 15:36	1.0	1	3:FE=220

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met06_master011	SAMPLE	494480-003	Soil	325069	10/24/23 15:39	1.0	1	3:FE=220
106	met06_master011	SAMPLE	494480-005	Soil	325069	10/24/23 15:42	1.0	1	3:FE=200
107	met06_master011	SAMPLE	494480-007	Soil	325069	10/24/23 15:46	1.0	1	3:FE=210
108	met06_master011	CCV				10/24/23 15:50	1.0	10 1	
109	met06_master011	CCB				10/24/23 15:53	1.0	1	
110	met06_master011	SAMPLE	494459-001	Wipe	325074	10/24/23 15:56	1.0	1	1:FE=73
111	met06_master011	SAMPLE	494459-002	Wipe	325074	10/24/23 16:00	1.0	1	2:FE=86
112	met06_master011	SAMPLE	494459-004	Wipe	325074	10/24/23 16:03	1.0	1	3:FE=130
113	met06_master011	SAMPLE	494459-005	Wipe	325074	10/24/23 16:06	1.0	1	2:FE=120
114	met06_master011	SAMPLE	494459-006	Wipe	325074	10/24/23 16:09	1.0	1	1:FE=130
115	met06_master011	SAMPLE	494459-007	Wipe	325074	10/24/23 16:13	1.0	1	1:FE=100
116	met06_master011	SAMPLE	494459-008	Wipe	325074	10/24/23 16:16	1.0	1	1:FE=120
117	met06_master011	SAMPLE	494459-009	Wipe	325074	10/24/23 16:20	1.0	1	1:FE=120
118	met06_master011	SAMPLE	494459-010	Wipe	325074	10/24/23 16:23	1.0	1	2:ZN=230
119	met06_master011	CCV				10/24/23 16:27	1.0	10 1	
120	met06_master011	CCB				10/24/23 16:30	1.0	1	
121	met06_master011	BS	QC1102279	Wipe	325074	10/24/23 16:35	1.0	1	
122	met06_master011	BSD	QC1102280	Wipe	325074	10/24/23 16:39	1.0	1	
123	met06_master011	SAMPLE	494459-004	Wipe	325074	10/24/23 16:42	10.0	1	
124	met06_master011	SAMPLE	494459-017	Wipe	325074	10/24/23 16:45	10.0	1	
125	met06_master011	SAMPLE	494459-018	Wipe	325074	10/24/23 16:48	10.0	1	
126	met06_master011	SAMPLE	494459-019	Wipe	325074	10/24/23 16:52	10.0	1	
127	met06_master011	SAMPLE	494459-021	Wipe	325074	10/24/23 16:59	10.0	1	
128	met06_master011	SAMPLE	494459-022	Wipe	325074	10/24/23 17:02	10.0	1	1:ZN=47
129	met06_master011	BLANK	QC1102289	Water	325078	10/24/23 17:06	1.0	1	
130	met06_master011	LCS	QC1102290	Water	325078	10/24/23 17:09	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
131	met06_master011	CCV				10/24/23 17:12	1.0	10 1	
132	met06_master011	CCB				10/24/23 17:15	1.0	1	
133	met06_master011	MSS	493975-003	Water	325078	10/24/23 17:19	1.0	1	
134	met06_master011	MS	QC1102291	Water	325078	10/24/23 17:22	1.0	1	1:CAASCACO3=270
135	met06_master011	MSD	QC1102292	Water	325078	10/24/23 17:25	1.0	1	1:CAASCACO3=270
136	met06_master011	SAMPLE	494095-001	Water	325078	10/24/23 17:28	10.0	1	1:CU=73
137	met06_master011	SAMPLE	494095-001	Water	325078	10/24/23 17:31	100.0	1	
138	met06_master011	SAMPLE	494460-005	Filtrate	325029	10/24/23 17:35	500.0	1	
139	met06_master011	SAMPLE	494460-007	Filtrate	325029	10/24/23 17:38	500.0	1	
140	met06_master011	BLANK	QC1102329	Air	325092	10/24/23 17:41	1.0	1	
141	met06_master011	BS	QC1102330	Air	325092	10/24/23 17:44	1.0	1	
142	met06_master011	BSD	QC1102331	Air	325092	10/24/23 17:48	1.0	1	
143	met06_master011	CCV				10/24/23 17:51	1.0	10 1	
144	met06_master011	CCB				10/24/23 17:54	1.0	1	
145	met06_master011	SAMPLE	494441-001	Air	325092	10/24/23 17:57	1.0	1	
146	met06_master011	SAMPLE	494441-002	Air	325092	10/24/23 18:01	1.0	1	
147	met06_master011	SAMPLE	494441-004	Air	325092	10/24/23 18:04	1.0	1	
148	met06_master011	SAMPLE	494441-005	Air	325092	10/24/23 18:07	1.0	1	
149	met06_master011	SAMPLE	494441-006	Air	325092	10/24/23 18:10	1.0	1	
150	met06_master011	SAMPLE	494441-007	Air	325092	10/24/23 18:14	1.0	1	
151	met06_master011	SAMPLE	494481-001	Air	325092	10/24/23 18:17	1.0	1	
152	met06_master011	SAMPLE	494481-003	Air	325092	10/24/23 18:20	1.0	1	
153	met06_master011	SAMPLE	494481-004	Air	325092	10/24/23 18:23	1.0	1	
154	met06_master011	BLANK	QC1102302	Soil	325083	10/24/23 18:26	1.0	1	
155	met06_master011	CCV				10/24/23 18:32	1.0	10 1	
156	met06_master011	CCB				10/24/23 18:35	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
157	met06_master011	LCS	QC1102303	Soil	325083	10/24/23 18:38	1.0	1	
158	met06_master011	SAMPLE	494370-017	Soil	325083	10/24/23 18:42	1.0	1	3:FE=180
159	met06_master011	SAMPLE	494370-018	Soil	325083	10/24/23 18:45	1.0	1	3:FE=170
160	met06_master011	SAMPLE	494475-001	Soil	325083	10/24/23 18:48	1.0	1	2:AL=220
161	met06_master011	SAMPLE	494475-002	Soil	325083	10/24/23 18:51	1.0	1	2:FE=230
162	met06_master011	SAMPLE	494475-003	Soil	325083	10/24/23 18:55	1.0	1	2:FE=210
163	met06_master011	SAMPLE	494475-004	Soil	325083	10/24/23 18:58	1.0	1	2:FE=220
164	met06_master011	SAMPLE	494475-005	Soil	325083	10/24/23 19:01	1.0	1	2:FE=200
165	met06_master011	SAMPLE	494475-006	Soil	325083	10/24/23 19:04	1.0	1	2:FE=180
166	met06_master011	SAMPLE	494475-007	Soil	325083	10/24/23 19:07	1.0	1	2:FE=160
167	met06_master011	CCV				10/24/23 19:11	1.0	10 1	
168	met06_master011	CCB				10/24/23 19:14	1.0	1	
169	met06_master011	SAMPLE	494475-008	Soil	325083	10/24/23 19:17	1.0	1	2:FE=150
170	met06_master011	BLANK	QC1102420	Drinking Water	325134	10/24/23 19:26	1.0	1	
171	met06_master011	LCS	QC1102421	Drinking Water	325134	10/24/23 19:29	1.0	1	
172	met06_master011	MSS	494425-001	Drinking Water	325134	10/24/23 19:32	1.0	1	
173	met06_master011	MS	QC1102422	Drinking Water	325134	10/24/23 19:35	1.0	1	
174	met06_master011	MSD	QC1102423	Drinking Water	325134	10/24/23 19:39	1.0	1	
175	met06_master011	SAMPLE	494577-001	Drinking Water	325134	10/24/23 19:42	1.0	1	
176	met06_master011	BLANK	QC1102379	Sea Water	325110	10/24/23 19:45	1.0	1	
177	met06_master011	LCS	QC1102380	Sea Water	325110	10/24/23 19:48	1.0	1	
178	met06_master011	SAMPLE	494221-007	Filtrate	325110	10/24/23 19:52	1.0	1	
179	met06_master011	CCV				10/24/23 19:55	1.0	10 1	
180	met06_master011	CCB				10/24/23 19:58	1.0	1	
181	met06_master011	SAMPLE	494487-002	Sea Water	325110	10/24/23 20:01	1.0	1	2:MG=1200
182	met06_master011	MSS	494517-001	Water	325110	10/24/23 20:05	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
183	met06_master011	MS	QC1102387	Water	325110	10/24/23 20:08	1.0	1	
184	met06_master011	MSD	QC1102388	Water	325110	10/24/23 20:11	1.0	1	
185	met06_master011	SAMPLE	494517-002	Water	325110	10/24/23 20:15	1.0	1	
186	met06_master011	SAMPLE	494538-001	Water	325110	10/24/23 20:18	1.0	1	
187	met06_master011	SAMPLE	494475-015	Soil	325083	10/24/23 20:21	1.0	1	3:AL=230
188	met06_master011	SAMPLE	494475-016	Soil	325083	10/24/23 20:24	1.0	1	2:FE=270
189	met06_master011	MSS	494477-001	Soil	325083	10/24/23 20:27	1.0	1	6:CAASCACO3=1100
190	met06_master011	MS	QC1102304	Soil	325083	10/24/23 20:31	1.0	1	6:CAASCACO3=1200
191	met06_master011	CCV				10/24/23 20:34	1.0	10 1	
192	met06_master011	CCB				10/24/23 20:37	1.0	1	
193	met06_master011	MSD	QC1102305	Soil	325083	10/24/23 20:40	1.0	1	6:CAASCACO3=1300
194	met06_master011	PDS	QC1102306	Soil	325083	10/24/23 20:44	1.0	1	6:CAASCACO3=1100
195	met06_master011	SAMPLE	494477-003	Soil	325083	10/24/23 20:47	1.0	1	3:AL=220
196	met06_master011	SAMPLE	494477-004	Soil	325083	10/24/23 20:50	1.0	1	2:FE=170
197	met06_master011	SAMPLE	494477-005	Soil	325083	10/24/23 20:53	1.0	1	2:AL=440
198	met06_master011	SAMPLE	494477-006	Soil	325083	10/24/23 20:57	1.0	1	2:FE=150
199	met06_master011	SAMPLE	494477-007	Soil	325083	10/24/23 21:00	1.0	1	2:AL=220
200	met06_master011	SAMPLE	494477-008	Soil	325083	10/24/23 21:03	1.0	1	2:FE=170
201	met06_master011	BLANK	QC1102416	Filtrate	325127	10/24/23 21:06	1.0	1	
202	met06_master011	LCS	QC1102417	Filtrate	325127	10/24/23 21:10	1.0	1	
203	met06_master011	CCV				10/24/23 21:13	1.0	10 1	
204	met06_master011	CCB				10/24/23 21:16	1.0	1	
205	met06_master011	MSS	494541-001	Filtrate	325127	10/24/23 21:19	1.0	1	
206	met06_master011	MS	QC1102418	Filtrate	325127	10/24/23 21:22	1.0	1	
207	met06_master011	MSD	QC1102419	Filtrate	325127	10/24/23 21:26	1.0	1	
208	met06_master011	SAMPLE	494541-002	Filtrate	325127	10/24/23 21:29	1.0	1	

Instrument: MET06 Method: EPA 6010B									
Begun: 10/24/23 09:16									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
209	met06_master011	SAMPLE	494541-003	Filtrate	325127	10/24/23 21:32	5.0	1	1:MN=90
210	met06_master011	SAMPLE	494541-004	Filtrate	325127	10/24/23 21:35	1.0	1	
211	met06_master011	SAMPLE	494541-006	Filtrate	325127	10/24/23 21:39	1.0	1	
212	met06_master011	SAMPLE	494541-007	Filtrate	325127	10/24/23 21:42	1.0	1	
213	met06_master011	SAMPLE	494541-008	Filtrate	325127	10/24/23 21:45	1.0	1	
214	met06_master011	SAMPLE	494541-009	Filtrate	325127	10/24/23 21:48	1.0	1	
215	met06_master011	CCV				10/24/23 21:52	1.0	10 1	
216	met06_master011	CCB				10/24/23 21:55	1.0	1	
217	met06_master011	CCV				10/24/23 21:58	1.0	10 1	
218	met06_master011	CCB				10/24/23 22:01	1.0	1	

SBW 10/24/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 025.

SBW 10/25/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 026 through 218.

Standards Used:

1=S14463 2=S19164 3=S19163 4=S19162 5=S19161 6=S19156 7=S19112 8=S19241 9=S18727 10=S19239 11=S19135 12=S19107 13=S19108

Date: 10/24/23
Sequence: MET06 10/24/23

Reference: met06_master011
Analyzed: 10/24/23 09:16

#	Type	Sample ID	Y H	Y A	Y R
		ICALBLK STD	33390100	2031070	719619
		LOWER LIMIT	10017030	609321	215886
		UPPER LIMIT	66780200	4062140	1439238
012	ICB		33053400	2000310	712478
013	ICSA		28990200	1803050	673511
014	ICSAB		29144700	1788980	664749
015	BLANK	QC1100361	32917000	2003300	703186
016	BLANK	QC1102252	33311200	2018660	710539
017	LCS	QC1102253	31875400	1950290	690212
018	SAMPLE	494312-001	32038500	1999910	702969
019	SAMPLE	494487-001	32858500	2018360	700436
020	MSS	494489-001	32751300	1998300	707333
021	MS	QC1102254	32341200	1977770	703000
022	MSD	QC1102255	31875300	1970430	702218
024	CCV		30863700	1909390	682262
025	CCB		33042800	1998730	694041
026	BLANK	QC1102162	32647700	1977450	701690
027	LCS	QC1102163	32258900	1935300	685571
028	MSS	494412-001	31755300	1914850	685866
029	MS	QC1102164	31669700	1932530	692316
030	MSD	QC1102165	31561400	1911150	676850
031	PDS	QC1102166	31420700	1930030	686365
032	SAMPLE	494412-002	31243100	1952870	682255
033	SAMPLE	494293-021	31225700	1910960	676496
034	SAMPLE	494293-022	31636300	1926260	683334
035	SAMPLE	494293-023	30697500	1903170	671941
036	CCV		31488700	1916670	682683
037	CCB		32729100	1979180	684739
038	SAMPLE	494293-024	31111600	1905330	675467
039	SAMPLE	494376-001	30688600	1873450	678149
040	SAMPLE	494376-002	31492600	1941220	677623
041	SAMPLE	494376-003	31697900	1940780	674582
042	SAMPLE	494376-004	31358300	1927660	686756
043	SAMPLE	494376-005	31025400	1919850	682850
044	SAMPLE	494376-006	31209700	1928860	681679
045	SAMPLE	494376-007	31130100	1929910	671266
046	SAMPLE	494376-008	31469700	1959960	676961
047	SAMPLE	494449-003	31035800	1921880	678502
048	CCV		31837500	1958350	674610
049	CCB		33637300	2024820	685208
050	SAMPLE	494469-001	30427000	1874350	674563
051	SAMPLE	494470-001	31404200	1944300	680226
052	SAMPLE	494470-002	31292400	1939630	680719
053	SAMPLE	494470-003	31478200	1953960	679464
054	SAMPLE	494470-004	31170200	1928280	678444
055	CCV		31619500	1949520	667494
056	CCB		33598700	2025520	691606
057	BLANK	QC1102167	33384200	2025610	693879
058	LCS	QC1102168	33169400	1996620	674396
059	MSS	494325-002	32119400	1964740	668094
060	MS	QC1102169	31460700	1964410	669517

Date: 10/24/23
Sequence: MET06 10/24/23

Reference: met06_master011
Analyzed: 10/24/23 09:16

#	Type	Sample ID	Y H	Y A	Y R
061	MSD	QC1102170	31899600	1962400	680374
062	PDS	QC1102171	32226300	1988780	678660
063	SAMPLE	494325-003	32069100	1985900	683155
064	SAMPLE	494325-004	32227800	1993860	679520
065	SAMPLE	494325-005	32352400	1999630	670973
066	SAMPLE	494325-006	32388800	1994480	675561
067	CCV		31672600	1951820	667546
068	CCB		33731300	2036770	681050
069	SAMPLE	494325-007	31936700	1971800	669894
070	SAMPLE	494325-008	31922600	1985780	671011
071	SAMPLE	494325-009	32025400	1973140	672904
072	SAMPLE	494325-010	32181400	1983190	668705
073	SAMPLE	494325-011	32312800	1995930	673702
074	SAMPLE	494325-012	31994900	1996450	671763
075	SAMPLE	494325-013	32053100	1989850	683202
076	SAMPLE	494325-014	32323800	1998860	675169
077	SAMPLE	494325-015	32323700	1987850	678840
078	SAMPLE	494325-016	32106500	1972390	678898
079	CCV		31489300	1975100	674695
080	CCB		33583400	2024520	682854
081	SAMPLE	494325-017	32518700	2004970	678543
082	BLANK	QC1102261	33520500	2019200	677286
083	LCS	QC1102262	32794800	1999520	678645
084	MSS	494370-001	31783800	1982700	683264
085	MS	QC1102263	31113000	1967900	688254
086	MSD	QC1102264	31520100	1971580	685982
087	PDS	QC1102265	31752300	1990410	685056
088	SAMPLE	494439-001	31817000	1980710	680603
090	CCV		31722600	1962300	663070
091	CCB		34245200	2041980	679622
092	SAMPLE	494325-018	32006900	1974510	657640
093	SAMPLE	494325-019	32137500	1968420	673835
094	SAMPLE	494325-020	32466800	1989980	668921
095	SAMPLE	494460-005	35874200	2209860	726467
096	SAMPLE	494460-007	35969500	2188900	713015
097	SAMPLE	494370-002	31392200	1961170	683607
098	SAMPLE	494370-003	31479800	1961330	680889
099	SAMPLE	494370-016	31916100	1963570	669499
100	SAMPLE	494451-001	32381600	1980980	676835
101	SAMPLE	494452-001	33416500	2032850	678654
102	CCV		32645400	1992470	673411
103	CCB		34220300	2071830	680628
104	SAMPLE	494480-001	31582700	1967350	672296
105	SAMPLE	494480-003	31393500	1964970	673906
106	SAMPLE	494480-005	31727400	1962530	666665
107	SAMPLE	494480-007	31511800	1953680	678116
108	CCV		32562300	1983570	669277
109	CCB		34558200	2071840	688382
110	SAMPLE	494459-001	32552000	1967310	676684
111	SAMPLE	494459-002	32916000	1991670	674990
112	SAMPLE	494459-004	32188500	1959420	673579
113	SAMPLE	494459-005	32266500	1969810	672393

Date: 10/24/23
Sequence: MET06 10/24/23

Reference: met06_master011
Analyzed: 10/24/23 09:16

#	Type	Sample ID	Y H	Y A	Y R
114	SAMPLE	494459-006	32498200	1984230	673494
115	SAMPLE	494459-007	32607600	1984970	683782
116	SAMPLE	494459-008	33404500	2028340	686222
117	SAMPLE	494459-009	33341100	2009950	687994
118	SAMPLE	494459-010	32685200	1964440	676164
119	CCV		32832500	2004890	670719
120	CCB		34733300	2097590	685927
121	BS	QC1102279	31986500	1976680	662157
122	BSD	QC1102280	32166100	1982070	668422
123	SAMPLE	494459-004	36543800	2164210	704515
124	SAMPLE	494459-017	36278500	2163840	706350
125	SAMPLE	494459-018	35850200	2171660	708966
126	SAMPLE	494459-019	35419900	2143690	709659
127	SAMPLE	494459-021	35567800	2137450	698332
128	SAMPLE	494459-022	35288100	2131370	702460
129	BLANK	QC1102289	33400100	2023510	675497
130	LCS	QC1102290	32481600	1984190	667269
131	CCV		32093900	1963540	668492
132	CCB		34087600	2046590	673282
133	MSS	493975-003	31141500	1927930	649893
134	MS	QC1102291	30416500	1909410	652335
135	MSD	QC1102292	30526900	1920840	640571
136	SAMPLE	494095-001	34881100	2314480	721469
137	SAMPLE	494095-001	35859800	2207270	722678
138	SAMPLE	494460-005	34661500	2142390	690206
139	SAMPLE	494460-007	34228600	2139110	678869
140	BLANK	QC1102329	31156700	1933690	640401
141	BS	QC1102330	31098800	1933150	637312
142	BSD	QC1102331	31200400	1931110	648133
143	CCV		32698200	1999200	652667
144	CCB		33867900	2080110	662791
145	SAMPLE	494441-001	31431100	1939540	655851
146	SAMPLE	494441-002	31911000	1957750	652999
147	SAMPLE	494441-004	31955700	1978380	653199
148	SAMPLE	494441-005	32294600	1969270	650661
149	SAMPLE	494441-006	32180400	1962390	652329
150	SAMPLE	494441-007	32303300	1962570	648783
151	SAMPLE	494481-001	31891500	1978890	649316
152	SAMPLE	494481-003	32174200	1967820	659332
153	SAMPLE	494481-004	32358500	1982630	652761
154	BLANK	QC1102302	33821200	2061900	667045
155	CCV		32366300	1999680	653486
156	CCB		33909100	2061700	665291
157	LCS	QC1102303	32028200	1987190	650839
158	SAMPLE	494370-017	30813200	1948150	652778
159	SAMPLE	494370-018	30777300	1950110	641880
160	SAMPLE	494475-001	30304800	1917760	651248
161	SAMPLE	494475-002	30131600	1932710	654156
162	SAMPLE	494475-003	30175500	1913870	642905
163	SAMPLE	494475-004	30706200	1943900	640575
164	SAMPLE	494475-005	31015400	1952520	651154
165	SAMPLE	494475-006	30578100	1927120	650285

Date: 10/24/23
Sequence: MET06 10/24/23

Reference: met06_master011
Analyzed: 10/24/23 09:16

#	Type	Sample ID	Y H	Y A	Y R
166	SAMPLE	494475-007	31060800	1951800	642817
167	CCV		31486900	1961390	632201
168	CCB		32974300	2018340	650230
169	SAMPLE	494475-008	30526600	1919650	631158
170	BLANK	QC1102420	33704300	2062410	660983
171	LCS	QC1102421	31712100	1975690	644387
172	MSS	494425-001	34472200	2103920	675021
173	MS	QC1102422	33216500	2027150	657456
174	MSD	QC1102423	33166200	2020700	662990
175	SAMPLE	494577-001	32932200	2024560	653807
176	BLANK	QC1102379	33454200	2034380	662881
177	LCS	QC1102380	32142200	2000390	648876
179	CCV		30328800	1910750	630947
180	CCB		32276800	1977400	636408
181	SAMPLE	494487-002	29425000	1883540	625601
182	MSS	494517-001	30023400	1887750	630997
183	MS	QC1102387	29318200	1864600	628883
184	MSD	QC1102388	29405600	1865180	631984
185	SAMPLE	494517-002	29703800	1895010	622649
186	SAMPLE	494538-001	30062100	1910840	647077
187	SAMPLE	494475-015	29249800	1853520	648288
188	SAMPLE	494475-016	28080500	1758410	617776
189	MSS	494477-001	28849600	1824890	637887
190	MS	QC1102304	28859400	1824650	637744
191	CCV		30595100	1891870	637557
192	CCB		32363700	1981680	642060
193	MSD	QC1102305	28447400	1804910	632821
194	PDS	QC1102306	29094300	1822490	632723
195	SAMPLE	494477-003	28235500	1806500	624742
196	SAMPLE	494477-004	29615100	1857670	635511
197	SAMPLE	494477-005	27820500	1736200	617984
198	SAMPLE	494477-006	30392400	1884290	635791
199	SAMPLE	494477-007	28650800	1811310	625506
200	SAMPLE	494477-008	29419800	1833040	619013
201	BLANK	QC1102416	32304300	1984720	650002
202	LCS	QC1102417	31352400	1933800	629234
203	CCV		30247300	1885710	617799
204	CCB		32202100	1947040	642459
205	MSS	494541-001	31528300	1946370	646841
206	MS	QC1102418	31137100	1913150	647600
207	MSD	QC1102419	30782900	1901130	644211
208	SAMPLE	494541-002	30738400	1911710	642513
209	SAMPLE	494541-003	30890000	1900350	636282
210	SAMPLE	494541-004	30877900	1897210	634982
211	SAMPLE	494541-006	30566200	1889000	642706
212	SAMPLE	494541-007	30756700	1905480	635598
213	SAMPLE	494541-008	30594700	1908970	641485
214	SAMPLE	494541-009	30917100	1912390	644549
215	CCV		29787100	1838860	621572
216	CCB		31602400	1924040	634462
217	CCV		30113400	1853480	615640
218	CCB		31340800	1903580	630415

Instrument: MET06

Calibration #: 483428236001

Units: mg/L

Date: 24-OCT-2023 09:16

X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master011	483428236002	L1	24-OCT-2023 09:20	S19164, S14463 (100X)
L2	met06_master011	483428236003	L2	24-OCT-2023 09:23	S19163, S14463 (100X)
L3	met06_master011	483428236004	L3	24-OCT-2023 09:26	S19162, S14463 (100X)
L4	met06_master011	483428236005	L4	24-OCT-2023 09:29	S19161, S14463 (100X)
L5	met06_master011	483428236006	L5	24-OCT-2023 09:33	S19156, S14463 (100X)
L6	met06_master011	483428236007	L6	24-OCT-2023 09:36	S19112, S14463 (100X)

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00274	30.1522		0.0296	1.000		7	0.995	

$$\text{Instrument amount} = a0 + (\text{response} \times a1) + (\text{response}^2 \times a2)$$

WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	0.0137	0.0289	0.0344	0.0349	0.0328	0.0332

Spiked Amounts / Drifts	Ch	L1 %D	L2 %D	L3 %D	L4 %D	L5 %D	L6 %D
Lead	A	0.0033 24	0.0100 14	0.1000 6	1.0000 6	5.0000 -1	10.000 0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 494421 METALS Wipe
EPA 6010B

Inst: MET06
Calnum: 483428236001

Cal Date: 24-OCT-2023

- ICV 483428236010 (24-OCT-2023) stds: S19239, S14463 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.068	mg/l	7	10	

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET06	File: met06_master011	IDF: 1.0
Seqnum: 483428236012	Caldate: 24-OCT-2023	Time: 24-OCT-2023 09:52
Cal: 483428236001		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	33053400	-1.01
Yttrium	A	2031070	2000310	-1.51
Yttrium	R	719619	712478	-0.99

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 494421 METALS Wipe
EPA 6010B

Inst: MET06	File: met06_master011	IDF: 1.0
Seqnum: 483428236013	Caldate: 24-OCT-2023	Time: 24-OCT-2023 09:56
Cal: 483428236001		

Standards: S19107, S14463 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.01152]	0.003333	mg/l	a- ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	145.3	mg/l	91	
Aluminum	R	400.0	390.2	mg/l	98	
Calcium	R	400.0	403.6	mg/l	101	
Magnesium	R	400.0	413.9	mg/l	103	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	28990200	-13.18
Yttrium	A	2031070	1803050	-11.23
Yttrium	R	719619	673511	-6.41

--low bias a=ICSA

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 494421 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483428236014	File: met06_master011
Cal: 483428236001	Time: 24-OCT-2023 09:59
Caldate: 24-OCT-2023	

Standards: S19108, S14463 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	1.026	mg/l	3	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	29144700	-12.71
Yttrium	A	2031070	1788980	-11.92
Yttrium	R	719619	664749	-7.62

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483428236119	File: met06_master011
Cal: 483428236001	Time: 24-OCT-2023 16:27
Caldate: 24-OCT-2023	

Standards: S19239, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0296	0.0358	1.000	1.083	mg/l	8	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	32832500	-1.67
Yttrium	A	2031070	2004890	-1.29
Yttrium	R	719619	670719	-6.80

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET06	File: met06_master011	IDF: 1.0
Seqnum: 483428236120	Caldate: 24-OCT-2023	Time: 24-OCT-2023 16:30
Cal: 483428236001		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	34733300	4.02
Yttrium	A	2031070	2097590	3.28
Yttrium	R	719619	685927	-4.68

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe
EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483428236131	File: met06_master011
Cal: 483428236001	Time: 24-OCT-2023 17:12
Caldate: 24-OCT-2023	

Standards: S19239, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0296	0.0359	1.000	1.086	mg/l	9	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	32093900	-3.88
Yttrium	A	2031070	1963540	-3.32
Yttrium	R	719619	668492	-7.10

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483428236132	File: met06_master011
Cal: 483428236001	Time: 24-OCT-2023 17:15
Caldate: 24-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	34087600	2.09
Yttrium	A	2031070	2046590	0.76
Yttrium	R	719619	673282	-6.44

Instrument: MET09
Method: EPA 6010B

Begun: 10/24/23 11:13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
001	icp data	ICALBLK				10/24/23 11:13	1.0		
002	icp data	ICAL	L1			10/24/23 11:16	1.0	1	
003	icp data	ICAL	L2			10/24/23 11:19	1.0	2	
004	icp data	ICAL	L3			10/24/23 11:22	1.0	3	
005	icp data	ICAL	L4			10/24/23 11:25	1.0	4	
006	icp data	ICAL	L5			10/24/23 11:28	1.0	5	
007	icp data	ICAL	L6			10/24/23 11:32	1.0	6	
008	icp data	ICAL	L7			10/24/23 11:35	1.0	7	
009	icp data	ICAL	L8			10/24/23 11:38	1.0	8	
010	icp data	ICV				10/24/23 11:41	1.0	9	
011	icp data	ICB				10/24/23 11:44	1.0		
012	icp data	CRI				10/24/23 11:47	1.0	10	
013	icp data	ICV				10/24/23 11:50	1.0	11	
014	icp data	ICB				10/24/23 11:53	1.0		
015	icp data	ICSA				10/24/23 11:57	1.0	12	5:MGASMGCO3=1400
016	icp data	ICSAB				10/24/23 12:00	1.0	13	5:MGASMGCO3=1400
017	icp data	BLANK	QC1101917	Filtrate	324964	10/24/23 12:03	1.0	14	
018	icp data	LCS	QC1101918	Filtrate	324964	10/24/23 12:06	1.0	14	
019	icp data	SAMPLE	494166-001	Filtrate	324964	10/24/23 12:09	1.0	14	1:MG=1500
020	icp data	SAMPLE	494166-002	Filtrate	324964	10/24/23 12:12	1.0	14	1:MG=1700
021	icp data	MSS	494166-003	Filtrate	324964	10/24/23 12:15	1.0	14	3:MGASMGCO3=3700
022	icp data	MS	QC1101919	Filtrate	324964	10/24/23 12:19	1.0	14	3:MGASMGCO3=3700
023	icp data	MSD	QC1101920	Filtrate	324964	10/24/23 12:22	1.0	14	3:MGASMGCO3=3600
024	icp data	CCV				10/24/23 12:25	1.0	11	
025	icp data	CCB				10/24/23 12:28	1.0		
026	icp data	CCV				10/24/23 12:31	1.0	9	
027	icp data	CCB				10/24/23 12:34	1.0		
028	icp data	SAMPLE	494460-005	Filtrate	325029	10/24/23 12:37	100.0	14	
029	icp data	SAMPLE	494460-007	Filtrate	325029	10/24/23 12:40	100.0	14	
030	icp data	BLANK	QC1102289	Water	325078	10/24/23 12:53	1.0	14	
031	icp data	LCS	QC1102290	Water	325078	10/24/23 12:57	1.0	14	
032	icp data	MSS	493975-003	Water	325078	10/24/23 13:00	1.0	14	
033	icp data	MS	QC1102291	Water	325078	10/24/23 13:03	1.0	14	1:CAASCACO3=270
034	icp data	MSD	QC1102292	Water	325078	10/24/23 13:06	1.0	14	1:CAASCACO3=270
035	icp data	SAMPLE	493975-004	Water	325078	10/24/23 13:09	1.0	14	
036	icp data	SAMPLE	493975-005	Water	325078	10/24/23 13:12	1.0	14	
037	icp data	SAMPLE	493975-006	Water	325078	10/24/23 13:15	1.0	14	
038	icp data	CCV				10/24/23 13:18	1.0	9	
039	icp data	CCB				10/24/23 13:21	1.0		
040	icp data	SAMPLE	494095-001	Water	325078	10/24/23 13:25	10.0	14	1:CU=82
041	icp data	BLANK	QC1102285	TCLP Leachate	325077	10/24/23 13:28	1.0	14	1:NA=1100
042	icp data	LCS	QC1102286	TCLP Leachate	325077	10/24/23 13:31	1.0	14	1:NA=1000
043	icp data	MSS	493732-001	TCLP Leachate	325077	10/24/23 13:34	1.0	14	1:NA=1200
044	icp data	MS	QC1102287	TCLP Leachate	325077	10/24/23 13:37	1.0	14	2:NA=1100
045	icp data	MSD	QC1102288	TCLP Leachate	325077	10/24/23 13:40	1.0	14	2:NA=1100
046	icp data	SAMPLE	493853-001	TCLP Leachate	325077	10/24/23 13:43	1.0	14	1:NA=1100
047	icp data	SAMPLE	494016-002	TCLP Leachate	325077	10/24/23 13:46	1.0	14	1:NA=1100
048	icp data	SAMPLE	494416-001	TCLP Leachate	325077	10/24/23 13:50	1.0	14	1:NA=1100
049	icp data	BLANK	QC1102274	Wipe	325072	10/24/23 13:53	1.0	14	
050	icp data	CCV				10/24/23 13:56	1.0	9	

Instrument: MET09
Method: EPA 6010B

Begun: 10/24/23 11:13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	StdS Used	
051	icp data	CCB				10/24/23 13:59	1.0		
052	icp data	BS	QC1102275	Wipe	325072	10/24/23 14:02	1.0	14	
053	icp data	BSD	QC1102276	Wipe	325072	10/24/23 14:05	1.0	14	
054	icp data	SAMPLE	494421-001	Wipe	325072	10/24/23 14:08	1.0	14	
055	icp data	SAMPLE	494421-002	Wipe	325072	10/24/23 14:11	1.0	14	
056	icp data	SAMPLE	494421-003	Wipe	325072	10/24/23 14:15	1.0	14	1:ZN=57
057	icp data	SAMPLE	494421-004	Wipe	325072	10/24/23 14:18	1.0	14	
058	icp data	SAMPLE	494421-005	Wipe	325072	10/24/23 14:21	1.0	14	1:ZN=41
059	icp data	SAMPLE	494421-006	Wipe	325072	10/24/23 14:24	1.0	14	1:ZN=490
060	icp data	SAMPLE	494421-007	Wipe	325072	10/24/23 14:27	1.0	14	1:ZN=53
061	icp data	SAMPLE	494421-008	Wipe	325072	10/24/23 14:30	1.0	14	
062	icp data	CCV				10/24/23 14:33	1.0	9	
063	icp data	CCB				10/24/23 14:36	1.0		
064	icp data	SAMPLE	494421-009	Wipe	325072	10/24/23 14:40	1.0	14	
065	icp data	SAMPLE	494421-010	Wipe	325072	10/24/23 14:43	1.0	14	
066	icp data	SAMPLE	494421-011	Wipe	325072	10/24/23 14:46	1.0	14	
067	icp data	SAMPLE	494421-012	Wipe	325072	10/24/23 14:49	1.0	14	
068	icp data	SAMPLE	494421-013	Wipe	325072	10/24/23 14:52	1.0	14	
069	icp data	SAMPLE	494421-014	Wipe	325072	10/24/23 14:55	1.0	14	1:ZN=290
070	icp data	SAMPLE	494421-015	Wipe	325072	10/24/23 14:58	1.0	14	
071	icp data	SAMPLE	494421-016	Wipe	325072	10/24/23 15:01	1.0	14	1:ZN=290
072	icp data	SAMPLE	494421-017	Wipe	325072	10/24/23 15:04	1.0	14	1:ZN=62
073	icp data	SAMPLE	494421-018	Wipe	325072	10/24/23 15:08	1.0	14	
074	icp data	CCV				10/24/23 15:11	1.0	9	
075	icp data	CCB				10/24/23 15:14	1.0		
076	icp data	SAMPLE	494421-019	Wipe	325072	10/24/23 15:17	1.0	14	1:ZN=240
077	icp data	SAMPLE	494421-020	Wipe	325072	10/24/23 15:20	1.0	14	
078	icp data	BLANK	QC1102281	Wipe	325075	10/24/23 15:23	1.0	14	
079	icp data	BS	QC1102282	Wipe	325075	10/24/23 15:26	1.0	14	
080	icp data	BSD	QC1102283	Wipe	325075	10/24/23 15:29	1.0	14	
081	icp data	SAMPLE	494459-024	Wipe	325075	10/24/23 15:33	1.0	14	
082	icp data	SAMPLE	494459-025	Wipe	325075	10/24/23 15:36	1.0	14	
083	icp data	CCV				10/24/23 15:39	1.0	9	
084	icp data	CCB				10/24/23 15:42	1.0		
085	icp data	BLANK	QC1102278	Wipe	325074	10/24/23 15:45	1.0	14	
086	icp data	BS	QC1102279	Wipe	325074	10/24/23 15:48	1.0	14	
087	icp data	BSD	QC1102280	Wipe	325074	10/24/23 15:51	1.0	14	
088	icp data	SAMPLE	494421-021	Wipe	325074	10/24/23 15:54	1.0	14	
089	icp data	CCV				10/24/23 15:58	1.0	9	
090	icp data	CCB				10/24/23 16:01	1.0		
091	icp data	SAMPLE	494459-012	Wipe	325074	10/24/23 16:04	1.0	14	
092	icp data	SAMPLE	494459-013	Wipe	325074	10/24/23 16:07	1.0	14	1:ZN=41
093	icp data	SAMPLE	494459-014	Wipe	325074	10/24/23 16:10	1.0	14	
094	icp data	SAMPLE	494459-016	Wipe	325074	10/24/23 16:13	1.0	14	
095	icp data	SAMPLE	494459-017	Wipe	325074	10/24/23 16:16	1.0	14	1:PB=11
096	icp data	SAMPLE	494459-018	Wipe	325074	10/24/23 16:19	1.0	14	1:PB=11
097	icp data	SAMPLE	494459-019	Wipe	325074	10/24/23 16:22	1.0	14	1:PB=12
098	icp data	SAMPLE	494459-020	Wipe	325074	10/24/23 16:26	1.0	14	1:ZN=60
099	icp data	SAMPLE	494459-021	Wipe	325074	10/24/23 16:29	1.0	14	1:PB=12
100	icp data	SAMPLE	494459-022	Wipe	325074	10/24/23 16:32	1.0	14	2:ZN=280

Instrument: MET09					Begun: 10/24/23 11:13				
Method: EPA 6010B									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
101	icp data	CCV				10/24/23 16:37	1.0	9	
102	icp data	CCB				10/24/23 16:40	1.0		

SBW 10/24/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 029.

SBW 10/25/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 030 through 102.

Standards Used:

1=S19164 2=S19163 3=S19162 4=S19161 5=S19156 6=S19112 7=S19241 8=S18727 9=S19239 10=S19135 11=S16826 12=S19107 13=S19108 14=S14463

Date: 10/24/23
Sequence: MET09 10/24/23

Reference: icp data
Analyzed: 10/24/23 11:13

#	Type	Sample ID	Y A	Y R
		ICALBLK STD	518823	125677
		LOWER LIMIT	155647	37703
		UPPER LIMIT	1037646	251355
011	ICB		514924	126738
014	ICB		514259	125556
015	ICSA		470181	117276
016	ICSAB		475489	118730
017	BLANK	QC1101917	524507	123899
018	LCS	QC1101918	515225	124959
019	SAMPLE	494166-001	438664	103660
020	SAMPLE	494166-002	426091	105912
021	MSS	494166-003	453636	111083
022	MS	QC1101919	452462	110024
023	MSD	QC1101920	450851	114953
024	CCV		498546	128150
025	CCB		499237	133117
026	CCV		482804	127578
027	CCB		496658	128317
028	SAMPLE	494460-005	502452	126850
029	SAMPLE	494460-007	502895	129170
030	BLANK	QC1102289	503858	134182
031	LCS	QC1102290	482917	125206
032	MSS	493975-003	473154	124726
033	MS	QC1102291	471978	127213
034	MSD	QC1102292	474346	125945
035	SAMPLE	493975-004	485046	128738
036	SAMPLE	493975-005	477067	127308
037	SAMPLE	493975-006	473753	127095
038	CCV		481566	124871
039	CCB		498318	128176
040	SAMPLE	494095-001	478500	119746
041	BLANK	QC1102285	477823	122445
042	LCS	QC1102286	481375	125609
043	MSS	493732-001	479066	121916
044	MS	QC1102287	471520	120436
045	MSD	QC1102288	465370	121625
046	SAMPLE	493853-001	484942	125884
047	SAMPLE	494016-002	475315	122149
048	SAMPLE	494416-001	455010	119886
049	BLANK	QC1102274	465630	129232
050	CCV		469293	120566
051	CCB		485201	123082
052	BS	QC1102275	462546	130394
053	BSD	QC1102276	466851	132034
054	SAMPLE	494421-001	464951	127612
055	SAMPLE	494421-002	465896	130370
056	SAMPLE	494421-003	463443	130010
057	SAMPLE	494421-004	462238	129210
058	SAMPLE	494421-005	462029	128354
059	SAMPLE	494421-006	452600	124500
060	SAMPLE	494421-007	462847	129071

Date: 10/24/23		Reference: icp data		
Sequence: MET09 10/24/23		Analyzed: 10/24/23 11:13		
#	Type	Sample ID	Y A	Y R
061	SAMPLE	494421-008	463703	129709
062	CCV		470902	121073
063	CCB		486162	124676
064	SAMPLE	494421-009	462875	129175
065	SAMPLE	494421-010	465108	128687
066	SAMPLE	494421-011	463933	129537
067	SAMPLE	494421-012	461914	128450
068	SAMPLE	494421-013	467482	129942
069	SAMPLE	494421-014	459895	126374
070	SAMPLE	494421-015	464290	127816
071	SAMPLE	494421-016	463057	128356
072	SAMPLE	494421-017	461910	128151
073	SAMPLE	494421-018	458210	127506
074	CCV		473124	121492
075	CCB		486753	124833
076	SAMPLE	494421-019	455209	127267
077	SAMPLE	494421-020	463701	130782
078	BLANK	QC1102281	471404	131130
079	BS	QC1102282	467286	132527
080	BSD	QC1102283	469058	133087
081	SAMPLE	494459-024	469714	130928
082	SAMPLE	494459-025	468745	132121
083	CCV		477125	120995
084	CCB		481485	122533
085	BLANK	QC1102278	468943	130357
086	BS	QC1102279	461842	129692
087	BSD	QC1102280	458266	129127
088	SAMPLE	494421-021	459586	129393
089	CCV		467281	120428
090	CCB		480425	122507
091	SAMPLE	494459-012	449745	126189
092	SAMPLE	494459-013	450325	125821
093	SAMPLE	494459-014	455426	128349
094	SAMPLE	494459-016	449290	125203
095	SAMPLE	494459-017	455133	125740
096	SAMPLE	494459-018	454804	127176
097	SAMPLE	494459-019	448334	125084
098	SAMPLE	494459-020	452631	124430
099	SAMPLE	494459-021	449740	124756
100	SAMPLE	494459-022	452162	123869
101	CCV		481273	121500
102	CCB		475120	121955

Instrument: MET09
 Calibration #: 673428353001
 Units: mg/L

Date: 24-OCT-2023 11:13
 X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	icp data	673428353002	L1	24-OCT-2023 11:16	S19164
L2	icp data	673428353003	L2	24-OCT-2023 11:19	S19163
L3	icp data	673428353004	L3	24-OCT-2023 11:22	S19162
L4	icp data	673428353005	L4	24-OCT-2023 11:25	S19161
L5	icp data	673428353006	L5	24-OCT-2023 11:28	S19156
L6	icp data	673428353007	L6	24-OCT-2023 11:32	S19112

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00157	1.30E-4		6442.5	1.000		7	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)

WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	1242.3	6408.5	7773.6	7910.0	7622.2	7698.2

Spiked Amounts / Drifts	Ch	L1 %D	L2 %D	L3 %D	L4 %D	L5 %D	L6 %D
Lead	A	0.0033 -37	0.0100 -1	0.1000 3	1.0000 3	5.0000 -1	10.000 0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09
Calnum: 673428353001

Cal Date: 24-OCT-2023

- ICV 673428353010 (24-OCT-2023) stds: S19239

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.026	mg/L	3	10	

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	File: icp data	IDF: 1.0
Seqnum: 673428353014	Caldate: 24-OCT-2023	Time: 24-OCT-2023 11:53
Cal: 673428353002		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	514259	-0.88
Yttrium	R	125677	125556	-0.10

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	File: icp data	IDF: 1.0
Seqnum: 673428353015	Caldate: 24-OCT-2023	Time: 24-OCT-2023 11:57
Cal: 673428353002		

Standards: S19107

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	0.006729	0.003333	mg/L	a+ ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Aluminum	A	400.0	401.8	mg/L	100	
Aluminum as Al ₂ O ₃	A	755.8	759.2	mg/L	100	
Iron as Fe ₂ O ₃	A	228.8	215.3	mg/L	94	
Calcium	R	400.0	400.3	mg/L	100	
Calcium as CaCO ₃	R	998.9	999.6	mg/L	100	
Magnesium	R	400.0	410.5	mg/L	103	
Magnesium as MgCO ₃	R	1388	1424	mg/L	103	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	470181	-9.38
Yttrium	R	125677	117276	-6.68

+ = high bias a = ICSA

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353016	File: icp data
Cal: 673428353002	Time: 24-OCT-2023 12:00
Caldate: 24-OCT-2023	

Standards: S19108

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	1.029	mg/L	3	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	475489	-8.35
Yttrium	R	125677	118730	-5.53

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353038	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 13:18
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8274.5	1.000	1.064	mg/L	6	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	481566	-7.18
Yttrium	R	125677	124871	-0.64

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353039	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 13:21
Caldate: 24-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	498318	-3.95
Yttrium	R	125677	128176	1.99

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353050	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 13:56
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8325.4	1.000	1.071	mg/L	7	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	469293	-9.55
Yttrium	R	125677	120566	-4.07

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353051	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 13:59
	Caldate: 24-OCT-2023

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	485201	-6.48
Yttrium	R	125677	123082	-2.06

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353062	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 14:33
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8442.9	1.000	1.086	mg/L	9	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	470902	-9.24
Yttrium	R	125677	121073	-3.66

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	File: icp data	IDF: 1.0
Seqnum: 673428353063	Caldate: 24-OCT-2023	Time: 24-OCT-2023 14:36
Cal: 673428353001		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	486162	-6.30
Yttrium	R	125677	124676	-0.80

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353074	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 15:11
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8387.9	1.000	1.079	mg/L	8	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	473124	-8.81
Yttrium	R	125677	121492	-3.33

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353075	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 15:14
	Caldate: 24-OCT-2023

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	486753	-6.18
Yttrium	R	125677	124833	-0.67

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353083	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 15:39
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8358.8	1.000	1.075	mg/L	7	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	477125	-8.04
Yttrium	R	125677	120995	-3.73

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353084	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 15:42
	Caldate: 24-OCT-2023

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	[0.001836]	0.003333	---	mg/L	!CCB

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	481485	-7.20
Yttrium	R	125677	122533	-2.50

!=warning CCB=instrument blank

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353089	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 15:58
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8539.0	1.000	1.098	mg/L	10	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	467281	-9.93
Yttrium	R	125677	120428	-4.18

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353090	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 16:01
	Caldate: 24-OCT-2023

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	480425	-7.40
Yttrium	R	125677	122507	-2.52

SAMPLE PREPARATION SUMMARY

Batch #: 325072
Started By: SBW

Method: 3050B
Prep Date: 24-OCT-2023 11:25

Analysis: ICP
Finished By: TNN

Sample	Matrix	Initial	Final	Prep DF	pH	Spike S18799	Spike S18800	Analysis
494421-001	Wipe	1 ft2	50 mL	50.0				6010
494421-002	Wipe	1 ft2	50 mL	50.0				6010
494421-003	Wipe	1.0828 ft2	50 mL	46.18				6010
494421-004	Wipe	1.1104 ft2	50 mL	45.03				6010
494421-005	Wipe	1 ft2	50 mL	50.0				6010
494421-006	Wipe	1 ft2	50 mL	50.0				6010
494421-007	Wipe	1 ft2	50 mL	50.0				6010
494421-008	Wipe	1.02 ft2	50 mL	49.02				6010
494421-009	Wipe	1 ft2	50 mL	50.0				6010
494421-010	Wipe	1 ft2	50 mL	50.0				6010
494421-011	Wipe	1.0552 ft2	50 mL	47.38				6010
494421-012	Wipe	1.0828 ft2	50 mL	46.18				6010
494421-013	Wipe	1 ft2	50 mL	50.0				6010
494421-014	Wipe	1.02 ft2	50 mL	49.02				6010
494421-015	Wipe	1 ft2	50 mL	50.0				6010
494421-016	Wipe	1 ft2	50 mL	50.0				6010
494421-017	Wipe	1 ft2	50 mL	50.0				6010
494421-018	Wipe	1.02 ft2	50 mL	49.02				6010
494421-019	Wipe	1.02 ft2	50 mL	49.02				6010
494421-020	Wipe	1 ft2	50 mL	50.0				6010
QC1102274 BLANK	Wipe	1 ft2	50 mL	50.0				ICP
QC1102275 BS	Wipe	1 ft2	50 mL	50.0		1 mL	1 mL	ICP
QC1102276 BSD	Wipe	1 ft2	50 mL	50.0		1 mL	1 mL	ICP

Analyst: SBW 10/24/23

Reviewer: MCP 10/24/23

ICP and ICP-MS Prep Log for Soil/Misc.

Initials: KLN/TMY Prep Method: 3050B / 1420.2 / Other: QC Batch #: 325072 Therm ID/Corr Factor: 942650 / 6
 Prep Start, Date/Time: 10/24/23 11:25 Prep End, Date/Time: 10/24/23 11:40 HotBlock Temp (Obs/Corr), °C: 90 / 90

HotBlock ID: 3

Sample ID	Bottle #	Sample pH (Water Only)	Sample Appearance	Initial Weight (g)	Bal. ID	Final Vol (mL)	Digestion Tube Lot#	Comment
Blank	---	---	---	/	NA	1000	TM 1024192	10/24/23
LCS	---	---	---	/	---	---	---	---
USD	---	NA	white mix	/	---	---	---	---
40444	A	1		1				Initial weight in bag in
-2								
-3								
-4								
-5								
-6								
-7								
-8								
-9								
-10								
-11								
-12								
-13								
-14								
-15								
-16								
-17								
-18								
-19								
-20								

Hydrochloric Acid ID: 10w2 20002692
 Nitric Acid ID: 10w2 2002052481
 H₂O₂ ID: 3w2 2008111

LCS Spike ID: 10w2 518800 884999 / 518499
 MS/MSD Spike ID: ↓
 Gold Std ID:

SAMPLE PREPARATION SUMMARY

Batch #: 325074
Started By: SBW

Method: 3050B
Prep Date: 24-OCT-2023 13:30

Analysis: ICP
Finished By: TNN

Sample	Matrix	Initial	Final	Prep DF	pH	Spike S18799	Spike S18800	Analysis
494421-021	Wipe	1 ft2	50 mL	50.0				6010
494459-001	Wipe	1 ft2	50 mL	50.0				6010
494459-002	Wipe	1 ft2	50 mL	50.0				6010
494459-004	Wipe	1 ft2	50 mL	50.0				6010
494459-005	Wipe	1 ft2	50 mL	50.0				6010
494459-006	Wipe	1 ft2	50 mL	50.0				6010
494459-007	Wipe	1 ft2	50 mL	50.0				6010
494459-008	Wipe	1 ft2	50 mL	50.0				6010
494459-009	Wipe	1 ft2	50 mL	50.0				6010
494459-010	Wipe	1 ft2	50 mL	50.0				6010
494459-012	Wipe	1 ft2	50 mL	50.0				6010
494459-013	Wipe	1 ft2	50 mL	50.0				6010
494459-014	Wipe	1 ft2	50 mL	50.0				6010
494459-016	Wipe	1 ft2	50 mL	50.0				6010
494459-017	Wipe	1 ft2	50 mL	50.0				6010
494459-018	Wipe	1 ft2	50 mL	50.0				6010
494459-019	Wipe	1 ft2	50 mL	50.0				6010
494459-020	Wipe	1 ft2	50 mL	50.0				6010
494459-021	Wipe	1 ft2	50 mL	50.0				6010
494459-022	Wipe	1 ft2	50 mL	50.0				6010
QC1102278 BLANK	Wipe	1 ft2	50 mL	50.0				ICP
QC1102279 BS	Wipe	1 ft2	50 mL	50.0		1 mL	1 mL	ICP
QC1102280 BSD	Wipe	1 ft2	50 mL	50.0		1 mL	1 mL	ICP

Analyst: SBW 10/24/23

Reviewer: MCP 10/24/23

ICP and ICP-MS Prep Log for Soil/Misc.

Initials: KL Prep Method: 3050B / 1420.2 / Other: Therm ID/Corr Factor: 992650 / 0
 Prep Start, Date/Time: 10/24/23 13:30 Prep End, Date/Time: 10/24/23 15:35 HotBlock Temp (Obs/Corr), °C: 90 / 90
 HotBlock ID: 3

Sample ID	Bottle #	Sample pH (Water Only)	Sample Appearance	Initial Weight (g)	Bal. ID	Final Vol (mL)	Digestion Tube Lot#	Comment
Blank								
LCS								
494421-m1	A	NA	Whole wip					Initial weight in log in
459-1								
-2								
-4								
-5								
-6								
-7								
-8								
-9								
-10								
-12								
-13								
-14								
-15								
-17								
-18								
-19								
-20								
-21								
-22								
LCS								

Hydrochloric Acid ID: 10ml 240022692 LCS Spike ID: 1ml 518800 / 518799
 Nitric Acid ID: 10ml 2023059481 MS/MSD Spike ID:
 H₂O₂ ID: 3ml 2027111 Gold Std ID:

ICP Raw Data

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
001	met06_master011	ICALBLK	CALBLANK			10/24/23 09:16	1.0	1	
002	met06_master011	ICAL	L1			10/24/23 09:20	1.0	2 1	
003	met06_master011	ICAL	L2			10/24/23 09:23	1.0	3 1	
004	met06_master011	ICAL	L3			10/24/23 09:26	1.0	4 1	
005	met06_master011	ICAL	L4			10/24/23 09:29	1.0	5 1	
006	met06_master011	ICAL	L5			10/24/23 09:33	1.0	6 1	
007	met06_master011	ICAL	L6			10/24/23 09:36	1.0	7 1	
008	met06_master011	ICAL	L7			10/24/23 09:39	1.0	8 1	
009	met06_master011	ICAL	L8			10/24/23 09:42	1.0	9 1	
010	met06_master011	ICV				10/24/23 09:46	1.0	10 1	
011	met06_master011	CRI				10/24/23 09:49	1.0	11 1	
012	met06_master011	ICB				10/24/23 09:52	1.0	1	
013	met06_master011	ICSA				10/24/23 09:56	1.0	12 1	6:MGASMGCO3=1400
014	met06_master011	ICSAB				10/24/23 09:59	1.0	13 1	6:MGASMGCO3=1400
015	met06_master011	BLANK	QC1100361	Water	324479	10/24/23 10:03	1.0	1	
016	met06_master011	BLANK	QC1102252	Drinking Water	325063	10/24/23 10:06	1.0	1	
017	met06_master011	LCS	QC1102253	Drinking Water	325063	10/24/23 10:09	1.0	1	
018	met06_master011	SAMPLE	494312-001	Drinking Water	325063	10/24/23 10:13	1.0	1	
019	met06_master011	SAMPLE	494487-001	Drinking Water	325063	10/24/23 10:16	1.0	1	
020	met06_master011	MSS	494489-001	Drinking Water	325063	10/24/23 10:19	1.0	1	
021	met06_master011	MS	QC1102254	Drinking Water	325063	10/24/23 10:22	1.0	1	
022	met06_master011	MSD	QC1102255	Drinking Water	325063	10/24/23 10:26	1.0	1	
023	met06_master011	XCCV				10/24/23 10:29	1.0	10 1	
024	met06_master011	CCV				10/24/23 10:35	1.0	10 1	
025	met06_master011	CCB				10/24/23 10:38	1.0	1	
026	met06_master011	BLANK	QC1102162	Soil	325041	10/24/23 11:20	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
027	met06_master011	LCS	QC1102163	Soil	325041	10/24/23 11:23	1.0	1	
028	met06_master011	MSS	494412-001	Soil	325041	10/24/23 11:26	1.0	1	4:FEASFE2O3=200
029	met06_master011	MS	QC1102164	Soil	325041	10/24/23 11:29	1.0	1	5:ALASAL2O3=230
030	met06_master011	MSD	QC1102165	Soil	325041	10/24/23 11:33	1.0	1	5:ALASAL2O3=220
031	met06_master011	PDS	QC1102166	Soil	325041	10/24/23 11:36	1.0	1	4:FEASFE2O3=200
032	met06_master011	SAMPLE	494412-002	Soil	325041	10/24/23 11:39	1.0	1	2:FE=160
033	met06_master011	SAMPLE	494293-021	Soil	325041	10/24/23 11:42	1.0	1	2:FE=120
034	met06_master011	SAMPLE	494293-022	Soil	325041	10/24/23 11:46	1.0	1	2:FE=110
035	met06_master011	SAMPLE	494293-023	Soil	325041	10/24/23 11:49	1.0	1	3:FE=180
036	met06_master011	CCV				10/24/23 11:52	1.0	10 1	
037	met06_master011	CCB				10/24/23 11:55	1.0	1	
038	met06_master011	SAMPLE	494293-024	Soil	325041	10/24/23 11:59	1.0	1	2:FE=150
039	met06_master011	SAMPLE	494376-001	Soil	325041	10/24/23 12:02	1.0	1	3:FE=180
040	met06_master011	SAMPLE	494376-002	Soil	325041	10/24/23 12:05	1.0	1	2:FE=140
041	met06_master011	SAMPLE	494376-003	Soil	325041	10/24/23 12:08	1.0	1	2:FE=110
042	met06_master011	SAMPLE	494376-004	Soil	325041	10/24/23 12:12	1.0	1	3:FE=160
043	met06_master011	SAMPLE	494376-005	Soil	325041	10/24/23 12:15	1.0	1	3:FE=220
044	met06_master011	SAMPLE	494376-006	Soil	325041	10/24/23 12:18	1.0	1	3:FE=180
045	met06_master011	SAMPLE	494376-007	Soil	325041	10/24/23 12:21	1.0	1	3:AL=210
046	met06_master011	SAMPLE	494376-008	Soil	325041	10/24/23 12:25	1.0	1	3:FE=130
047	met06_master011	SAMPLE	494449-003	Soil	325041	10/24/23 12:28	1.0	1	3:FE=180
048	met06_master011	CCV				10/24/23 12:31	1.0	10 1	
049	met06_master011	CCB				10/24/23 12:34	1.0	1	
050	met06_master011	SAMPLE	494469-001	Soil	325041	10/24/23 12:38	1.0	1	3:FE=240
051	met06_master011	SAMPLE	494470-001	Soil	325041	10/24/23 12:41	1.0	1	3:FE=160
052	met06_master011	SAMPLE	494470-002	Soil	325041	10/24/23 12:44	1.0	1	3:FE=180

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
053	met06_master011	SAMPLE	494470-003	Soil	325041	10/24/23 12:47	1.0	1	3:FE=150
054	met06_master011	SAMPLE	494470-004	Soil	325041	10/24/23 12:51	1.0	1	3:FE=190
055	met06_master011	CCV				10/24/23 12:54	1.0	10 1	
056	met06_master011	CCB				10/24/23 12:57	1.0	1	
057	met06_master011	BLANK	QC1102167	Soil	325042	10/24/23 13:00	1.0	1	
058	met06_master011	LCS	QC1102168	Soil	325042	10/24/23 13:04	1.0	1	
059	met06_master011	MSS	494325-002	Soil	325042	10/24/23 13:07	1.0	1	4:FEASFE2O3=190
060	met06_master011	MS	QC1102169	Soil	325042	10/24/23 13:10	1.0	1	4:ALASAL2O3=210
061	met06_master011	MSD	QC1102170	Soil	325042	10/24/23 13:13	1.0	1	4:ALASAL2O3=200
062	met06_master011	PDS	QC1102171	Soil	325042	10/24/23 13:17	1.0	1	4:FEASFE2O3=180
063	met06_master011	SAMPLE	494325-003	Soil	325042	10/24/23 13:20	1.0	1	2:FE=130
064	met06_master011	SAMPLE	494325-004	Soil	325042	10/24/23 13:23	1.0	1	2:FE=100
065	met06_master011	SAMPLE	494325-005	Soil	325042	10/24/23 13:26	1.0	1	2:FE=110
066	met06_master011	SAMPLE	494325-006	Soil	325042	10/24/23 13:30	1.0	1	2:FE=100
067	met06_master011	CCV				10/24/23 13:33	1.0	10 1	
068	met06_master011	CCB				10/24/23 13:36	1.0	1	
069	met06_master011	SAMPLE	494325-007	Soil	325042	10/24/23 13:39	1.0	1	2:FE=140
070	met06_master011	SAMPLE	494325-008	Soil	325042	10/24/23 13:43	1.0	1	2:FE=120
071	met06_master011	SAMPLE	494325-009	Soil	325042	10/24/23 13:46	1.0	1	2:FE=110
072	met06_master011	SAMPLE	494325-010	Soil	325042	10/24/23 13:49	1.0	1	2:FE=100
073	met06_master011	SAMPLE	494325-011	Soil	325042	10/24/23 13:52	1.0	1	2:FE=100
074	met06_master011	SAMPLE	494325-012	Soil	325042	10/24/23 13:56	1.0	1	2:FE=130
075	met06_master011	SAMPLE	494325-013	Soil	325042	10/24/23 13:59	1.0	1	3:FE=220
076	met06_master011	SAMPLE	494325-014	Soil	325042	10/24/23 14:02	1.0	1	2:FE=150
077	met06_master011	SAMPLE	494325-015	Soil	325042	10/24/23 14:05	1.0	1	2:FE=130
078	met06_master011	SAMPLE	494325-016	Soil	325042	10/24/23 14:09	1.0	1	3:FE=200

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
079	met06_master011	CCV				10/24/23 14:12	1.0	10 1	
080	met06_master011	CCB				10/24/23 14:15	1.0	1	
081	met06_master011	SAMPLE	494325-017	Soil	325042	10/24/23 14:18	1.0	1	2:FE=130
082	met06_master011	BLANK	QC1102261	Soil	325069	10/24/23 14:22	1.0	1	
083	met06_master011	LCS	QC1102262	Soil	325069	10/24/23 14:26	1.0	1	
084	met06_master011	MSS	494370-001	Miscell.	325069	10/24/23 14:29	1.0	1	5:FEASFE2O3=290
085	met06_master011	MS	QC1102263	Miscell.	325069	10/24/23 14:32	1.0	1	5:ALASAL2O3=310
086	met06_master011	MSD	QC1102264	Miscell.	325069	10/24/23 14:35	1.0	1	5:ALASAL2O3=300
087	met06_master011	PDS	QC1102265	Miscell.	325069	10/24/23 14:39	1.0	1	5:FEASFE2O3=280
088	met06_master011	SAMPLE	494439-001	Soil	325069	10/24/23 14:42	1.0	1	2:FE=200
089	met06_master011	XBLANK	QC1102278	Wipe	325074	10/24/23 14:45	1.0	1	
090	met06_master011	CCV				10/24/23 14:49	1.0	10 1	
091	met06_master011	CCB				10/24/23 14:53	1.0	1	
092	met06_master011	SAMPLE	494325-018	Soil	325042	10/24/23 14:57	1.0	1	2:FE=150
093	met06_master011	SAMPLE	494325-019	Soil	325042	10/24/23 15:00	1.0	1	2:FE=160
094	met06_master011	SAMPLE	494325-020	Soil	325042	10/24/23 15:03	1.0	1	2:FE=110
095	met06_master011	SAMPLE	494460-005	Filtrate	325029	10/24/23 15:07	100.0	1	1:MN=10
096	met06_master011	SAMPLE	494460-007	Filtrate	325029	10/24/23 15:10	100.0	1	1:MN=9.9
097	met06_master011	SAMPLE	494370-002	Miscell.	325069	10/24/23 15:13	1.0	1	3:FE=180
098	met06_master011	SAMPLE	494370-003	Miscell.	325069	10/24/23 15:16	1.0	1	3:FE=200
099	met06_master011	SAMPLE	494370-016	Soil	325069	10/24/23 15:20	1.0	1	3:FE=180
100	met06_master011	SAMPLE	494451-001	Miscell.	325069	10/24/23 15:23	1.0	1	2:FE=110
101	met06_master011	SAMPLE	494452-001	Miscell.	325069	10/24/23 15:26	1.0	1	
102	met06_master011	CCV				10/24/23 15:29	1.0	10 1	
103	met06_master011	CCB				10/24/23 15:33	1.0	1	
104	met06_master011	SAMPLE	494480-001	Soil	325069	10/24/23 15:36	1.0	1	3:FE=220

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met06_master011	SAMPLE	494480-003	Soil	325069	10/24/23 15:39	1.0	1	3:FE=220
106	met06_master011	SAMPLE	494480-005	Soil	325069	10/24/23 15:42	1.0	1	3:FE=200
107	met06_master011	SAMPLE	494480-007	Soil	325069	10/24/23 15:46	1.0	1	3:FE=210
108	met06_master011	CCV				10/24/23 15:50	1.0	10 1	
109	met06_master011	CCB				10/24/23 15:53	1.0	1	
110	met06_master011	SAMPLE	494459-001	Wipe	325074	10/24/23 15:56	1.0	1	1:FE=73
111	met06_master011	SAMPLE	494459-002	Wipe	325074	10/24/23 16:00	1.0	1	2:FE=86
112	met06_master011	SAMPLE	494459-004	Wipe	325074	10/24/23 16:03	1.0	1	3:FE=130
113	met06_master011	SAMPLE	494459-005	Wipe	325074	10/24/23 16:06	1.0	1	2:FE=120
114	met06_master011	SAMPLE	494459-006	Wipe	325074	10/24/23 16:09	1.0	1	1:FE=130
115	met06_master011	SAMPLE	494459-007	Wipe	325074	10/24/23 16:13	1.0	1	1:FE=100
116	met06_master011	SAMPLE	494459-008	Wipe	325074	10/24/23 16:16	1.0	1	1:FE=120
117	met06_master011	SAMPLE	494459-009	Wipe	325074	10/24/23 16:20	1.0	1	1:FE=120
118	met06_master011	SAMPLE	494459-010	Wipe	325074	10/24/23 16:23	1.0	1	2:ZN=230
119	met06_master011	CCV				10/24/23 16:27	1.0	10 1	
120	met06_master011	CCB				10/24/23 16:30	1.0	1	
121	met06_master011	BS	QC1102279	Wipe	325074	10/24/23 16:35	1.0	1	
122	met06_master011	BSD	QC1102280	Wipe	325074	10/24/23 16:39	1.0	1	
123	met06_master011	SAMPLE	494459-004	Wipe	325074	10/24/23 16:42	10.0	1	
124	met06_master011	SAMPLE	494459-017	Wipe	325074	10/24/23 16:45	10.0	1	
125	met06_master011	SAMPLE	494459-018	Wipe	325074	10/24/23 16:48	10.0	1	
126	met06_master011	SAMPLE	494459-019	Wipe	325074	10/24/23 16:52	10.0	1	
127	met06_master011	SAMPLE	494459-021	Wipe	325074	10/24/23 16:59	10.0	1	
128	met06_master011	SAMPLE	494459-022	Wipe	325074	10/24/23 17:02	10.0	1	1:ZN=47
129	met06_master011	BLANK	QC1102289	Water	325078	10/24/23 17:06	1.0	1	
130	met06_master011	LCS	QC1102290	Water	325078	10/24/23 17:09	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
131	met06_master011	CCV				10/24/23 17:12	1.0	10 1	
132	met06_master011	CCB				10/24/23 17:15	1.0	1	
133	met06_master011	MSS	493975-003	Water	325078	10/24/23 17:19	1.0	1	
134	met06_master011	MS	QC1102291	Water	325078	10/24/23 17:22	1.0	1	1:CAASCACO3=270
135	met06_master011	MSD	QC1102292	Water	325078	10/24/23 17:25	1.0	1	1:CAASCACO3=270
136	met06_master011	SAMPLE	494095-001	Water	325078	10/24/23 17:28	10.0	1	1:CU=73
137	met06_master011	SAMPLE	494095-001	Water	325078	10/24/23 17:31	100.0	1	
138	met06_master011	SAMPLE	494460-005	Filtrate	325029	10/24/23 17:35	500.0	1	
139	met06_master011	SAMPLE	494460-007	Filtrate	325029	10/24/23 17:38	500.0	1	
140	met06_master011	BLANK	QC1102329	Air	325092	10/24/23 17:41	1.0	1	
141	met06_master011	BS	QC1102330	Air	325092	10/24/23 17:44	1.0	1	
142	met06_master011	BSD	QC1102331	Air	325092	10/24/23 17:48	1.0	1	
143	met06_master011	CCV				10/24/23 17:51	1.0	10 1	
144	met06_master011	CCB				10/24/23 17:54	1.0	1	
145	met06_master011	SAMPLE	494441-001	Air	325092	10/24/23 17:57	1.0	1	
146	met06_master011	SAMPLE	494441-002	Air	325092	10/24/23 18:01	1.0	1	
147	met06_master011	SAMPLE	494441-004	Air	325092	10/24/23 18:04	1.0	1	
148	met06_master011	SAMPLE	494441-005	Air	325092	10/24/23 18:07	1.0	1	
149	met06_master011	SAMPLE	494441-006	Air	325092	10/24/23 18:10	1.0	1	
150	met06_master011	SAMPLE	494441-007	Air	325092	10/24/23 18:14	1.0	1	
151	met06_master011	SAMPLE	494481-001	Air	325092	10/24/23 18:17	1.0	1	
152	met06_master011	SAMPLE	494481-003	Air	325092	10/24/23 18:20	1.0	1	
153	met06_master011	SAMPLE	494481-004	Air	325092	10/24/23 18:23	1.0	1	
154	met06_master011	BLANK	QC1102302	Soil	325083	10/24/23 18:26	1.0	1	
155	met06_master011	CCV				10/24/23 18:32	1.0	10 1	
156	met06_master011	CCB				10/24/23 18:35	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
157	met06_master011	LCS	QC1102303	Soil	325083	10/24/23 18:38	1.0	1	
158	met06_master011	SAMPLE	494370-017	Soil	325083	10/24/23 18:42	1.0	1	3:FE=180
159	met06_master011	SAMPLE	494370-018	Soil	325083	10/24/23 18:45	1.0	1	3:FE=170
160	met06_master011	SAMPLE	494475-001	Soil	325083	10/24/23 18:48	1.0	1	2:AL=220
161	met06_master011	SAMPLE	494475-002	Soil	325083	10/24/23 18:51	1.0	1	2:FE=230
162	met06_master011	SAMPLE	494475-003	Soil	325083	10/24/23 18:55	1.0	1	2:FE=210
163	met06_master011	SAMPLE	494475-004	Soil	325083	10/24/23 18:58	1.0	1	2:FE=220
164	met06_master011	SAMPLE	494475-005	Soil	325083	10/24/23 19:01	1.0	1	2:FE=200
165	met06_master011	SAMPLE	494475-006	Soil	325083	10/24/23 19:04	1.0	1	2:FE=180
166	met06_master011	SAMPLE	494475-007	Soil	325083	10/24/23 19:07	1.0	1	2:FE=160
167	met06_master011	CCV				10/24/23 19:11	1.0	10 1	
168	met06_master011	CCB				10/24/23 19:14	1.0	1	
169	met06_master011	SAMPLE	494475-008	Soil	325083	10/24/23 19:17	1.0	1	2:FE=150
170	met06_master011	BLANK	QC1102420	Drinking Water	325134	10/24/23 19:26	1.0	1	
171	met06_master011	LCS	QC1102421	Drinking Water	325134	10/24/23 19:29	1.0	1	
172	met06_master011	MSS	494425-001	Drinking Water	325134	10/24/23 19:32	1.0	1	
173	met06_master011	MS	QC1102422	Drinking Water	325134	10/24/23 19:35	1.0	1	
174	met06_master011	MSD	QC1102423	Drinking Water	325134	10/24/23 19:39	1.0	1	
175	met06_master011	SAMPLE	494577-001	Drinking Water	325134	10/24/23 19:42	1.0	1	
176	met06_master011	BLANK	QC1102379	Sea Water	325110	10/24/23 19:45	1.0	1	
177	met06_master011	LCS	QC1102380	Sea Water	325110	10/24/23 19:48	1.0	1	
178	met06_master011	SAMPLE	494221-007	Filtrate	325110	10/24/23 19:52	1.0	1	
179	met06_master011	CCV				10/24/23 19:55	1.0	10 1	
180	met06_master011	CCB				10/24/23 19:58	1.0	1	
181	met06_master011	SAMPLE	494487-002	Sea Water	325110	10/24/23 20:01	1.0	1	2:MG=1200
182	met06_master011	MSS	494517-001	Water	325110	10/24/23 20:05	1.0	1	

Instrument: MET06
Method: EPA 6010B

Begun: 10/24/23 09:16

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
183	met06_master011	MS	QC1102387	Water	325110	10/24/23 20:08	1.0	1	
184	met06_master011	MSD	QC1102388	Water	325110	10/24/23 20:11	1.0	1	
185	met06_master011	SAMPLE	494517-002	Water	325110	10/24/23 20:15	1.0	1	
186	met06_master011	SAMPLE	494538-001	Water	325110	10/24/23 20:18	1.0	1	
187	met06_master011	SAMPLE	494475-015	Soil	325083	10/24/23 20:21	1.0	1	3:AL=230
188	met06_master011	SAMPLE	494475-016	Soil	325083	10/24/23 20:24	1.0	1	2:FE=270
189	met06_master011	MSS	494477-001	Soil	325083	10/24/23 20:27	1.0	1	6:CAASCACO3=1100
190	met06_master011	MS	QC1102304	Soil	325083	10/24/23 20:31	1.0	1	6:CAASCACO3=1200
191	met06_master011	CCV				10/24/23 20:34	1.0	10 1	
192	met06_master011	CCB				10/24/23 20:37	1.0	1	
193	met06_master011	MSD	QC1102305	Soil	325083	10/24/23 20:40	1.0	1	6:CAASCACO3=1300
194	met06_master011	PDS	QC1102306	Soil	325083	10/24/23 20:44	1.0	1	6:CAASCACO3=1100
195	met06_master011	SAMPLE	494477-003	Soil	325083	10/24/23 20:47	1.0	1	3:AL=220
196	met06_master011	SAMPLE	494477-004	Soil	325083	10/24/23 20:50	1.0	1	2:FE=170
197	met06_master011	SAMPLE	494477-005	Soil	325083	10/24/23 20:53	1.0	1	2:AL=440
198	met06_master011	SAMPLE	494477-006	Soil	325083	10/24/23 20:57	1.0	1	2:FE=150
199	met06_master011	SAMPLE	494477-007	Soil	325083	10/24/23 21:00	1.0	1	2:AL=220
200	met06_master011	SAMPLE	494477-008	Soil	325083	10/24/23 21:03	1.0	1	2:FE=170
201	met06_master011	BLANK	QC1102416	Filtrate	325127	10/24/23 21:06	1.0	1	
202	met06_master011	LCS	QC1102417	Filtrate	325127	10/24/23 21:10	1.0	1	
203	met06_master011	CCV				10/24/23 21:13	1.0	10 1	
204	met06_master011	CCB				10/24/23 21:16	1.0	1	
205	met06_master011	MSS	494541-001	Filtrate	325127	10/24/23 21:19	1.0	1	
206	met06_master011	MS	QC1102418	Filtrate	325127	10/24/23 21:22	1.0	1	
207	met06_master011	MSD	QC1102419	Filtrate	325127	10/24/23 21:26	1.0	1	
208	met06_master011	SAMPLE	494541-002	Filtrate	325127	10/24/23 21:29	1.0	1	

Instrument: MET06 Method: EPA 6010B									
Begun: 10/24/23 09:16									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
209	met06_master011	SAMPLE	494541-003	Filtrate	325127	10/24/23 21:32	5.0	1	1:MN=90
210	met06_master011	SAMPLE	494541-004	Filtrate	325127	10/24/23 21:35	1.0	1	
211	met06_master011	SAMPLE	494541-006	Filtrate	325127	10/24/23 21:39	1.0	1	
212	met06_master011	SAMPLE	494541-007	Filtrate	325127	10/24/23 21:42	1.0	1	
213	met06_master011	SAMPLE	494541-008	Filtrate	325127	10/24/23 21:45	1.0	1	
214	met06_master011	SAMPLE	494541-009	Filtrate	325127	10/24/23 21:48	1.0	1	
215	met06_master011	CCV				10/24/23 21:52	1.0	10 1	
216	met06_master011	CCB				10/24/23 21:55	1.0	1	
217	met06_master011	CCV				10/24/23 21:58	1.0	10 1	
218	met06_master011	CCB				10/24/23 22:01	1.0	1	

SBW 10/24/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 025.

SBW 10/25/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 026 through 218.

Standards Used:

1=S14463 2=S19164 3=S19163 4=S19162 5=S19161 6=S19156 7=S19112 8=S19241 9=S18727 10=S19239 11=S19135 12=S19107 13=S19108

ENTHALPY SPIKE USER REPORT FOR 494421 METALS Wipe
EPA 6010B

Type: BS	Type: BSD
Inst: MET06	Inst: MET06
Seqnum: 483428236121.3	Seqnum: 483428236122.3
File: met06_master011	File: met06_master011
IDF: 1.0	IDF: 1.0
Lab ID: QC1102279	Lab ID: QC1102280
Matrix: Wipe	Matrix: Wipe
Batch: 325074	Batch: 325074
Time: 24-OCT-2023 16:35	Time: 24-OCT-2023 16:39
Cal: 483428236001	Cal: 483428236001
Units: ug/ft2	

- BS: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF
- BSD: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Lead	100.0	2.227	111.3	A	111	2.328	116.4	A	116	80-120	4	20	!<a- u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BS Abund	%Drift
Yttrium	A	2031070	1976680	-2.68

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BSD Abund	%Drift
Yttrium	A	2031070	1982070	-2.41

!=warning !=low bias <=opening a=ICSA u=use

Sample Name: BS, QC1102279, 325074				Sample Type: Unknown Sample			
Measure Date: 2023-10-24 16:35:51			Recalculation Date:		State: Measured		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	796860	30378.7000000	69661.4000000	292468	1351700	52602.5000000	845230
Int RSD	3.14872123	0.58943273	1.12100676	0.11497805	0.17965969	0.20438192	0.11039752
Int SD	25090.9000000	179.06200000	780.90900000	336.27400000	2428.46000000	107.51000000	933.11300000
RelInt Mean	0.02258710	0.02428400	0.03269000	0.14298100	0.68244300	0.06991920	0.42458400
RelInt RSD	2.59650863	1.42514001	1.20745488	0.10456145	0.37383488	1.33811314	0.19455161
RelInt SD	0.00058648	0.00034608	0.00039472	0.00014950	0.00255121	0.00093560	0.00082604
Conc Mean	0.93774000[mg/l]	2.33151000[mg/l]	2.05404000[mg/l]	1.91893000[mg/l]	2.12310000[mg/l]	2.58112000[mg/l]	2.32097000[mg/l]
Conc RSD	2.60044362	1.45413916	1.20548772	0.10558436	0.37488343	1.40983372	0.19096972
Conc SD	0.02438540[mg/l]	0.03390340[mg/l]	0.02476120[mg/l]	0.00202609[mg/l]	0.00795915[mg/l]	0.03638950[mg/l]	0.00443235[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	704816	2039010	1352780	37508.5000000	21608.5000000	6440810	552494
Int RSD	0.30503280	2.99761159	0.40793625	1.43067305	0.37380799	0.11203327	0.15624369
Int SD	2149.92000000	61121.60000000	5518.48000000	536.62400000	80.77430000	7215.85000000	863.23700000
RelInt Mean	0.35285300	0.06164530	0.68176300	0.04643270	0.00813905	3.27440000	0.27777300
RelInt RSD	0.42133693	2.79258922	0.40335571	2.70109212	6.92459194	0.27270859	0.22677654
RelInt SD	0.00148670	0.00172150	0.00274993	0.00125419	0.00056360	0.00892957	0.00062992
Conc Mean	2.28217000[mg/l]	2.11283000[mg/l]	2.31206000[mg/l]	15.47230000[mg/l]	2.23130000[mg/l]	2.22874000[mg/l]	2.16861000[mg/l]
Conc RSD	0.42128807	2.79757482	0.40383122	2.88113597	7.17043876	0.27286583	0.22676092
Conc SD	0.00961451[mg/l]	0.05910800[mg/l]	0.00933682[mg/l]	0.44577800[mg/l]	0.15999400[mg/l]	0.00608147[mg/l]	0.00491756[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	48552.9000000	572200	156807	79021.1000000	54743.1000000	8331.78000000	1543210
Int RSD	0.99165652	0.18520098	0.19714554	1.44981530	0.96964914	1.03352105	1.96430168
Int SD	481.47800000	1059.72000000	309.13800000	1145.66000000	530.81600000	86.11070000	30313.3000000
RelInt Mean	0.03398890	0.28510600	0.07377850	0.03626800	0.02480430	0.00150653	2.35949000
RelInt RSD	4.27107085	0.38633350	0.19170355	1.74281185	0.99159823	2.84545943	1.97355361
RelInt SD	0.00145169	0.00110146	0.00014144	0.00063208	0.00024596	0.00004287	0.04656580
Conc Mean	1.23704000[mg/l]	2.28336000[mg/l]	2.22655000[mg/l]	1.98339000[mg/l]	1.91732000[mg/l]	0.02796800[mg/l]	2.38007000[mg/l]
Conc RSD	8.25834249	0.38649227	0.19173744	1.75172810	0.99209835	3.04682137	1.97371506
Conc SD	0.10215900[mg/l]	0.00882501[mg/l]	0.00426913[mg/l]	0.03474360[mg/l]	0.01902170[mg/l]	0.00085213[mg/l]	0.04697580[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	7699460	62939.6000000	417415	1976680	31986500	662157	1331190
Int RSD	2.95067446	0.25683354	3.19444677	0.20745948	1.32975161	1.06358915	0.27953635
Int SD	227186	161.65000000	13334.1000000	4100.81000000	425341	7042.63000000	3721.16000000
RelInt Mean	0.23853500	0.02917450	0.01248780	---	---	---	0.67421000
RelInt RSD	2.77720670	0.31423675	2.65625651	---	---	---	0.45259786
RelInt SD	0.00662461	0.00009168	0.00033171	---	---	---	0.00305146
Conc Mean	2.22402000[mg/l]	2.25785000[mg/l]	2.08171000[mg/l]	1962500	31885300	647945	2.22775000[mg/l]
Conc RSD	2.77821243	0.31178555	2.66751853	---	---	---	0.45298620
Conc SD	0.06178800[mg/l]	0.00703965[mg/l]	0.05553000[mg/l]	4174.47000000	425517	6953.68000000	0.01009140[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	570045	204786	1089030	7456.59000000	1056220	6455.22000000	
Int RSD	1.35470358	1.44322366	0.02206349	0.41813483	0.20428888	0.39229027	
Int SD	7722.42000000	2955.52000000	240.27800000	31.17860000	2157.74000000	25.32320000	
RelInt Mean	0.86775000	0.27483400	0.54786600	0.00122846	0.53187100	0.00025656	
RelInt RSD	0.40249957	1.67857325	0.21555818	1.22717060	0.40085284	4.31700720	
RelInt SD	0.00349269	0.00461329	0.00118097	0.00001508	0.00213202	0.00001108	
Conc Mean	2.04146000[mg/l]	1.69535000[mg/l]	9.35672000[mg/l]	0.03834830[mg/l]	2.09871000[mg/l]	0.03326010[mg/l]	
Conc RSD	0.40234930	1.68589377	0.21636108	1.42929934	0.40190021	3.19590140	
Conc SD	0.00821380[mg/l]	0.02858180[mg/l]	0.02024430[mg/l]	0.00054811[mg/l]	0.00843472[mg/l]	0.00106296[mg/l]	

Sample Name: BSD,QC1102280,325074					Sample Type: Unknown Sample		
Measure Date: 2023-10-24 16:39:07			Recalculation Date:		State: Measured		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	851025	30461.3000000	73092.8000000	304641	1425720	50451.8000000	886733
Int RSD	2.81019947	0.60067364	0.76630667	0.45120978	0.87104761	0.76065671	0.34643799
Int SD	23915.5000000	182.97300000	560.11500000	1374.57000000	12418.7000000	383.76500000	3071.98000000
RelInt Mean	0.02415070	0.02455190	0.03432060	0.14874300	0.71815000	0.06609890	0.44448700
RelInt RSD	3.11853487	0.44704076	0.45443261	0.65830594	0.28111676	1.02544369	0.82905687
RelInt SD	0.00075315	0.00010976	0.00015596	0.00097918	0.00201884	0.00067781	0.00368505
Conc Mean	1.00276000[mg/l]	2.35776000[mg/l]	2.15623000[mg/l]	1.99687000[mg/l]	2.23420000[mg/l]	2.43252000[mg/l]	2.42973000[mg/l]
Conc RSD	3.12318002	0.45597092	0.45411482	0.66324798	0.28502148	1.08383076	0.83412560
Conc SD	0.03131800[mg/l]	0.01075070[mg/l]	0.00979176[mg/l]	0.01324420[mg/l]	0.00636795[mg/l]	0.02636440[mg/l]	0.02026700[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	742544	2145060	1420860	39139.8000000	21481.7000000	6782950	582685
Int RSD	0.20431921	2.53419951	0.80825697	0.63569308	0.86534120	0.72302612	0.25577284
Int SD	1517.16000000	54360.1000000	11484.2000000	248.80900000	185.89000000	49042.5000000	1490.35000000
RelInt Mean	0.37100500	0.06458780	0.71450200	0.04862880	0.00825992	3.43936000	0.29238200
RelInt RSD	0.66653549	2.94530856	0.29131479	1.21375399	1.60502765	0.20828235	0.80734450
RelInt SD	0.00247288	0.00190231	0.00208145	0.00059023	0.00013257	0.00716358	0.00236053
Conc Mean	2.39958000[mg/l]	2.21386000[mg/l]	2.42326000[mg/l]	16.25300000[mg/l]	2.26561000[mg/l]	2.34106000[mg/l]	2.28270000[mg/l]
Conc RSD	0.66651247	2.95024979	0.29190801	1.29088784	1.66104051	0.20858073	0.80754370
Conc SD	0.01599350[mg/l]	0.06531440[mg/l]	0.00707369[mg/l]	0.20980800[mg/l]	0.03763270[mg/l]	0.00488300[mg/l]	0.01843380[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	49374.3000000	599809	163981	83447.9000000	57342.0000000	8294.21000000	1594830
Int RSD	0.42871089	0.19874994	0.38280715	0.22981285	0.72041087	0.61600924	0.98223635
Int SD	211.67300000	1192.12000000	627.73100000	191.77400000	413.09800000	51.09310000	15665.0000000
RelInt Mean	0.03548090	0.29833100	0.07715200	0.03838860	0.02603560	0.00147639	2.41509000
RelInt RSD	1.49090074	0.73360127	0.88386562	0.47694628	0.20373335	2.33176871	1.71921129
RelInt SD	0.00052899	0.00218856	0.00068192	0.00018309	0.00005304	0.00003443	0.04152050
Conc Mean	1.34203000[mg/l]	2.38931000[mg/l]	2.32825000[mg/l]	2.09945000[mg/l]	2.01255000[mg/l]	0.02736870[mg/l]	2.43617000[mg/l]
Conc RSD	2.77382026	0.73388552	0.88286481	0.47677249	0.20381804	2.50065220	1.71959264
Conc SD	0.03722550[mg/l]	0.01753480[mg/l]	0.02055530[mg/l]	0.01000960[mg/l]	0.00410194[mg/l]	0.00068440[mg/l]	0.04189220[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	8157550	64992.6000000	442148	1982070	32166100	668422	1404910
Int RSD	2.51261715	0.06361493	2.67677339	0.61150212	1.07148520	0.78479314	0.54129446
Int SD	204968	41.34500000	11835.3000000	12120.4000000	344655	5245.73000000	7604.70000000
RelInt Mean	0.25146800	0.03009900	0.01318500	---	---	---	0.70980400
RelInt RSD	2.84822323	0.67258381	2.75861206	---	---	---	0.21699089
RelInt SD	0.00716237	0.00020244	0.00036372	---	---	---	0.00154021
Conc Mean	2.34466000[mg/l]	2.32896000[mg/l]	2.19838000[mg/l]	1967790	32064700	654524	2.34543000[mg/l]
Conc RSD	2.84934276	0.67558910	2.76998062	---	---	---	0.21705700
Conc SD	0.06680740[mg/l]	0.01573420[mg/l]	0.06089470[mg/l]	12120.0000000	344865	5260.47000000	0.00509092[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	608303	215897	1178830	7609.21000000	1104350	6642.57000000	
Int RSD	0.97020728	0.63622005	0.57122486	0.77283713	0.33119210	0.34655864	
Int SD	5901.80000000	1373.58000000	6733.77000000	58.80680000	3657.52000000	23.02040000	
RelInt Mean	0.91754300	0.28945500	0.59238100	0.00128581	0.55490100	0.00034067	
RelInt RSD	0.18791490	0.66999706	0.03465844	1.83039485	0.82714574	7.43101869	
RelInt SD	0.00172420	0.00193934	0.00020531	0.00002354	0.00458984	0.00002532	
Conc Mean	2.15856000[mg/l]	1.78594000[mg/l]	10.12040000[mg/l]	0.04043290[mg/l]	2.18955000[mg/l]	0.04133210[mg/l]	
Conc RSD	0.18766261	0.67265418	0.03166555	2.11586604	0.83114795	5.87799797	
Conc SD	0.00405081[mg/l]	0.01201320[mg/l]	0.00320468[mg/l]	0.00085551[mg/l]	0.01819840[mg/l]	0.00242950[mg/l]	

Instrument: MET06

Calibration #: 483428236001

Units: mg/L

Date: 24-OCT-2023 09:16

X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master011	483428236002	L1	24-OCT-2023 09:20	S19164, S14463 (100X)
L2	met06_master011	483428236003	L2	24-OCT-2023 09:23	S19163, S14463 (100X)
L3	met06_master011	483428236004	L3	24-OCT-2023 09:26	S19162, S14463 (100X)
L4	met06_master011	483428236005	L4	24-OCT-2023 09:29	S19161, S14463 (100X)
L5	met06_master011	483428236006	L5	24-OCT-2023 09:33	S19156, S14463 (100X)
L6	met06_master011	483428236007	L6	24-OCT-2023 09:36	S19112, S14463 (100X)

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00274	30.1522		0.0296	1.000		7	0.995	

$$\text{Instrument amount} = a0 + (\text{response} \times a1) + (\text{response}^2 \times a2)$$

WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	0.0137	0.0289	0.0344	0.0349	0.0328	0.0332

Spiked Amounts / Drifts	Ch	L1 %D	L2 %D	L3 %D	L4 %D	L5 %D	L6 %D
Lead	A	0.0033 24	0.0100 14	0.1000 6	1.0000 6	5.0000 -1	10.000 0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 494421 METALS Wipe
EPA 6010B

Inst: MET06
Calnum: 483428236001

Cal Date: 24-OCT-2023

- ICV 483428236010 (24-OCT-2023) stds: S19239, S14463 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.068	mg/l	7	10	

Method Name: Met06_Master011923

Method Autor:

Operator

Sample Name: ICALBLK,CALBLANK

Sample Type: Calibration Sample

Measure Date: 2023-10-24 09:16:43

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	65420.0000000	14800.6000000	4396.58000000	12376.2000000	10334.5000000	9923.78000000	9688.54000000
Int RSD	0.88783094	0.64902909	0.68193232	0.39231024	0.52358701	1.97725060	0.16405052
Int SD	580.81900000	96.06020000	29.98170000	48.55310000	54.11010000	196.21800000	15.89410000
RelInt Mean	0.00003490	0.00048168	-0.00008316	0.00110984	0.00006939	0.00354785	-0.00002086
RelInt RSD	8.02764687	58.81186680	13.65301894	1.66791610	32.74647481	5.95825641	16.81675433
RelInt SD	0.00000280	0.00028329	0.00001135	0.00001851	0.00002272	0.00021139	0.00000351
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	9929.47000000	61963.3000000	14466.4000000	9034.34000000	16429.8000000	14084.5000000	6120.65000000
Int RSD	0.55156015	0.72977069	0.83673893	2.11914761	1.53213064	0.64633320	0.42597110
Int SD	54.76700000	452.19000000	121.04600000	191.45100000	251.72600000	91.03280000	26.07220000
RelInt Mean	0.00000634	0.00010986	0.00104763	0.00292109	0.00027972	0.00110431	0.00007516
RelInt RSD	691.23629463	0.72692682	7.96549354	3.88416653	71.46069585	3.10339488	7.91278514
RelInt SD	0.00004382	0.00000080	0.00008345	0.00011346	0.00019989	0.00003427	0.00000595
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	36987.0000000	10638.3000000	9726.62000000	6599.32000000	5037.88000000	4633.30000000	14131.0000000
Int RSD	0.55171817	0.06505945	0.26393855	0.90941036	1.03165419	0.93583623	1.25841766
Int SD	204.06400000	6.92122000	25.67230000	60.01490000	51.97350000	43.36010000	177.82700000
RelInt Mean	0.01641000	0.00012272	-0.00009189	0.00000430	0.00001780	0.00010088	0.00021416
RelInt RSD	4.11512492	1.71457790	9.57510184	404.89275034	105.27870768	15.59283895	86.81802051
RelInt SD	0.00067529	0.00000210	0.00000880	0.00001742	0.00001874	0.00001573	0.00018593
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	74790.1000000	4496.57000000	17294.7000000	2031070	33390100	719619	6793.94000000
Int RSD	0.61854443	0.39774762	0.58376266	1.16359850	0.83934160	1.06348081	0.99626579
Int SD	462.61000000	17.88500000	100.96000000	23633.5000000	280257	7653.01000000	67.68570000
RelInt Mean	0.00011235	-0.00007891	0.00004910	---	---	---	0.00024775
RelInt RSD	8.82276183	21.32977470	7.29622667	---	---	---	13.79977881
RelInt SD	0.00000991	0.00001683	0.00000358	---	---	---	0.00003419
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	6555.82000000	25158.8000000	13628.9000000	4595.60000000	9887.03000000	4955.49000000	
Int RSD	0.90136398	0.86330032	1.25437856	1.21659631	0.34933443	0.23648923	
Int SD	59.09180000	217.19600000	170.95800000	55.90990000	34.53880000	11.71920000	
RelInt Mean	-0.00028725	0.00123401	0.00146063	0.00017347	0.00008928	-0.00009001	
RelInt RSD	41.00873452	25.34420305	5.66465155	24.21342680	31.12767773	6.73272937	
RelInt SD	0.00011780	0.00031275	0.00008274	0.00004200	0.00002779	0.00000606	

Method Name: Met06_Master011923

Method Autor:

Operator

Sample Name: ICAL,L1,S19164

Sample Type: Calibration Sample

Measure Date: 2023-10-24 09:20:00

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	66837.3000000	14736.1000000	4583.7500000	12153.9000000	12593.8000000	10418.6000000	10547.4000000
Int RSD	0.15086636	1.43000523	0.42522389	0.79416977	1.73163779	2.55183038	0.18521816
Int SD	100.83500000	210.72700000	19.49120000	96.52260000	218.07900000	265.86500000	19.53570000
RelInt Mean	0.00003765	0.00040533	-0.00004537	0.00089136	0.00108380	0.00441945	0.00030314
RelInt RSD	24.46496435	68.86495235	59.64722814	4.21766861	10.42194132	3.81558791	11.27545870
RelInt SD	0.00000921	0.00027913	0.00002706	0.00003759	0.00011295	0.00016863	0.00003418
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	11200.2000000	66457.9000000	17340.3000000	9269.8600000	16501.7000000	23838.5000000	7111.5100000
Int RSD	0.16963983	0.28843975	0.30162685	0.55026397	0.83544726	0.44308157	0.61820204
Int SD	19.00000000	191.69100000	52.30300000	51.00870000	137.86300000	105.62400000	43.96350000
RelInt Mean	0.00054020	0.00020470	0.00237723	0.00335531	0.00044917	0.00586655	0.00052449
RelInt RSD	3.82620109	1.85083953	0.69970933	3.27802796	40.21591031	0.35444853	1.84632222
RelInt SD	0.00002067	0.00000379	0.00001663	0.00010999	0.00018064	0.00002079	0.00000968
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	40800.8000000	11545.4000000	10172.6000000	7100.2800000	5381.1100000	4945.6800000	27173.5000000
Int RSD	0.13411502	0.43996224	0.16658376	0.67375512	1.08154823	0.45916638	0.70969143
Int SD	54.72000000	50.79540000	16.94590000	47.83850000	58.19930000	22.70890000	192.84800000
RelInt Mean	0.02192770	0.00047391	0.00004576	0.00018187	0.00013415	0.00020667	0.01877710
RelInt RSD	2.59599958	11.59946404	36.55918209	6.64218085	10.93597418	5.78815195	1.05037519
RelInt SD	0.00056924	0.00005497	0.00001673	0.00001208	0.00001467	0.00001196	0.00019723
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	85445.5000000	4897.83000000	18203.8000000	2017540	33210900	720294	12898.2000000
Int RSD	0.80526886	0.35045316	0.44730716	0.03438395	0.38145609	1.12567507	1.31495092
Int SD	688.06600000	17.16460000	81.42690000	693.71000000	126685	8108.17000000	169.60500000
RelInt Mean	0.00038638	0.00007010	0.00006236	---	---	---	0.00322241
RelInt RSD	6.23960868	8.27844519	7.78847742	---	---	---	2.43470260
RelInt SD	0.00002411	0.00000580	0.00000486	---	---	---	0.00007846
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	6725.46000000	25401.1000000	12365.8000000	4578.28000000	10986.4000000	5013.97000000	
Int RSD	0.33096175	0.88288696	0.68935613	1.14750081	0.23367618	0.64680084	
Int SD	22.25870000	224.26300000	85.24440000	52.53580000	25.67260000	32.43040000	
RelInt Mean	-0.00001044	0.00179054	0.00070780	0.00012360	0.00053723	-0.00011653	
RelInt RSD	167.77889544	13.72306678	7.49515049	33.41710088	2.98319156	18.47735425	
RelInt SD	0.00001751	0.00024572	0.00005305	0.00004130	0.00001603	0.00002153	

Sample Name: ICAL,L2,S19163

Sample Type: Calibration Sample

Measure Date: 2023-10-24 09:23:16

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	67234.3000000	15145.2000000	4816.4700000	12908.1000000	16967.7000000	11894.9000000	11945.4000000
Int RSD	0.33855785	2.10468663	0.38011033	0.13623384	1.28198283	3.29372252	0.95335443
Int SD	227.62700000	318.75900000	18.30790000	17.58520000	217.52300000	391.78500000	113.88200000
RelInt Mean	0.00003909	0.00067406	0.00006615	0.00128325	0.00327352	0.00639659	0.00101126
RelInt RSD	13.39712417	29.87603514	11.61490880	0.79773232	3.04864794	5.10579856	5.74770089
RelInt SD	0.00000524	0.00020138	0.00000768	0.00001024	0.00009980	0.00032660	0.00005812
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	13250.2000000	72726.0000000	25576.0000000	9532.3000000	16710.3000000	44796.6000000	8877.5500000
Int RSD	0.61999517	0.15333856	0.21138098	2.63454780	2.48136778	0.12654443	0.04674938
Int SD	82.15060000	111.51700000	54.06280000	251.13300000	414.64400000	56.68760000	4.15020000
RelInt Mean	0.00155283	0.00037941	0.00645729	0.00354756	0.00037299	0.01627410	0.00140809
RelInt RSD	2.84129621	2.84031607	0.22147991	3.02117512	78.15818612	0.57202918	0.40691149
RelInt SD	0.00004412	0.00001078	0.00001430	0.00010718	0.00029152	0.00009309	0.00000573
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	42556.7000000	13131.7000000	10651.4000000	7788.7000000	5882.1800000	5661.7900000	53084.9000000
Int RSD	0.96730950	0.49275494	0.34334548	0.98322570	0.64707132	0.45384587	1.22477767
Int SD	411.65500000	64.70710000	36.57110000	76.58050000	38.06190000	25.69580000	650.17200000
RelInt Mean	0.02407000	0.00128314	0.00028852	0.00053187	0.00038082	0.00055707	0.05576770
RelInt RSD	1.36725384	1.83476472	5.37077538	6.25809872	2.34015378	2.18748710	1.69627401
RelInt SD	0.00032910	0.00002354	0.00001550	0.00003329	0.00000891	0.00001219	0.00094597
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	109395	5426.07000000	18952.8000000	2018560	33502200	711478	25989.5000000
Int RSD	0.62239956	0.16768600	0.76865687	0.50067870	0.32150127	0.72978785	0.82172416
Int SD	680.87400000	9.09876000	145.68200000	10106.5000000	107710	5192.28000000	213.56200000
RelInt Mean	0.00109077	0.00033550	0.00008299	---	---	---	0.00975346
RelInt RSD	2.75892260	3.47187448	3.23484013	---	---	---	1.00621215
RelInt SD	0.00003009	0.00001165	0.00000268	---	---	---	0.00009814
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	7503.34000000	26658.7000000	12279.9000000	4609.88000000	12693.6000000	4978.36000000	
Int RSD	1.92542255	1.92607667	0.32994813	1.46598610	0.98451976	0.35517520	
Int SD	144.47100000	513.46700000	40.51730000	67.58020000	124.97100000	17.68190000	
RelInt Mean	0.00090356	0.00305456	0.00068570	0.00013571	0.00139506	-0.00013599	
RelInt RSD	8.31414440	3.45797758	0.77175375	32.98747329	5.05568219	11.93364316	
RelInt SD	0.00007512	0.00010563	0.00000529	0.00004477	0.00007053	0.00001623	

Sample Name: ICAL,L3,S19162

Sample Type: Calibration Sample

Measure Date: 2023-10-24 09:26:33

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	66565.1000000	16403.5000000	7629.25000000	25744.3000000	77406.0000000	29244.5000000	29385.5000000
Int RSD	0.72290434	2.38009571	0.87031491	0.50084096	0.18812366	1.68840637	0.43460210
Int SD	481.20200000	390.41900000	66.39850000	128.93800000	145.61900000	493.76600000	127.71000000
RelInt Mean	0.00003476	0.00239470	0.00146771	0.00763440	0.03316890	0.03134370	0.00962399
RelInt RSD	16.31145253	16.29548586	2.01620211	0.94890496	0.51256147	2.15969716	0.34150077
RelInt SD	0.00000567	0.00039023	0.00002959	0.00007244	0.00017001	0.00067693	0.00003287

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	43156.3000000	156135	140315	11784.4000000	18959.3000000	324733	32059.5000000
Int RSD	0.11751703	1.13142473	6.05941631	2.33215098	1.80824187	0.69863241	0.53196089
Int SD	50.71600000	1766.55000000	8502.27000000	274.83000000	342.83000000	2268.69000000	170.54400000
RelInt Mean	0.01634480	0.00289898	0.06320250	0.00687259	0.00375938	0.15468300	0.01287370
RelInt RSD	0.30648341	1.76597631	6.30106404	3.70359646	6.30659843	0.52015994	1.09992465
RelInt SD	0.00005009	0.00005120	0.00398243	0.00025453	0.00023709	0.00080460	0.00014160

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	59835.1000000	37460.3000000	16994.3000000	16936.2000000	12269.2000000	14385.9000000	387870
Int RSD	0.57238310	0.35633724	0.66112167	1.01642045	0.95558798	1.06867836	1.05765592
Int SD	342.48600000	133.48500000	112.35300000	172.14300000	117.24300000	153.73900000	4102.33000000
RelInt Mean	0.04917460	0.01331370	0.00343864	0.00505422	0.00353736	0.00488708	0.53774900
RelInt RSD	2.12615863	0.33664496	1.13012994	2.28814733	1.66899891	1.63103735	0.24150115
RelInt SD	0.00104553	0.00004482	0.00003886	0.00011565	0.00005904	0.00007971	0.00129867

	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	420647	12734.6000000	27260.3000000	2032940	33327400	709083	193076
Int RSD	1.90320387	0.62335527	0.75717068	0.47481726	0.45104329	1.04711155	0.70092088
Int SD	8005.77000000	79.38180000	206.40700000	9652.75000000	150321	7424.89000000	1353.31000000
RelInt Mean	0.01045970	0.00395159	0.00033684	---	---	---	0.09235140
RelInt RSD	2.07949559	1.41298566	2.02746400	---	---	---	0.55444963
RelInt SD	0.00021751	0.00005584	0.00000683	---	---	---	0.00051204

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	15635.4000000	34708.1000000	12558.5000000	4698.18000000	35745.4000000	5007.01000000	
Int RSD	1.20557197	0.96626148	0.08359119	0.71514501	0.13521460	0.67500165	
Int SD	188.49600000	335.37100000	10.49780000	33.59880000	48.33300000	33.79740000	
RelInt Mean	0.01263600	0.01464990	0.00083276	0.00016317	0.01278140	-0.00010652	
RelInt RSD	1.58686293	2.05674441	4.56124867	11.12395357	0.46228191	14.79717614	
RelInt SD	0.00020052	0.00030131	0.00003798	0.00001815	0.00005909	0.00001576	

Sample Name: ICAL,L4,S19161

Sample Type: Calibration Sample

Measure Date: 2023-10-24 09:29:49

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	67623.1000000	30051.2000000	35577.1000000	150825	655161	188907	194050
Int RSD	0.59080255	1.20033476	0.27223017	0.53093121	0.50606187	1.32443477	0.49787890
Int SD	399.51900000	360.71500000	96.85160000	800.77700000	3315.52000000	2501.95000000	966.13400000
RelInt Mean	0.00003376	0.02144990	0.01570390	0.07164300	0.32897800	0.26722400	0.09384510
RelInt RSD	40.53096716	1.22371666	0.42788670	0.80274556	0.76849212	0.78193201	0.68480613
RelInt SD	0.00001369	0.00026249	0.00006719	0.00057511	0.00252817	0.00208951	0.00064266

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	323925	962103	1205130	40102.0000000	41985.3000000	3016720	258942
Int RSD	0.57259551	2.51059398	0.36676209	2.01096703	1.61829021	0.41990307	0.42684848
Int SD	1854.78000000	24154.5000000	4419.96000000	806.43800000	679.44400000	12667.3000000	1105.29000000
RelInt Mean	0.15997400	0.02793890	0.60857900	0.04844150	0.03747490	1.53350000	0.12896400
RelInt RSD	0.85788941	3.26843577	0.53262107	2.19834233	2.09914636	0.49766417	0.70674529
RelInt SD	0.00137240	0.00091317	0.00324142	0.00106491	0.00078665	0.00763168	0.00091145

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	232499	264697	78715.1000000	112253	78881.9000000	105816	3648320
Int RSD	0.66832976	0.41234695	0.47157661	0.53236795	0.39169569	0.46616863	0.35029548
Int SD	1553.86000000	1091.47000000	371.20200000	597.59900000	308.97700000	493.28100000	12779.9000000
RelInt Mean	0.30369300	0.12952600	0.03490610	0.05376430	0.03759440	0.05163160	5.35560000
RelInt RSD	0.31242472	0.64908821	0.66141448	0.76885591	0.30029472	0.43362592	0.93563186
RelInt SD	0.00094881	0.00084074	0.00023087	0.00041337	0.00011289	0.00022389	0.05010870

	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3465560	84340.3000000	109465	1971290	32268700	692844	1841380
Int RSD	1.86224449	0.65501664	1.65548806	0.26523089	0.66020943	0.61390154	0.24677307
Int SD	64537.2000000	552.44300000	1812.18000000	5228.47000000	213041	4253.38000000	4544.03000000
RelInt Mean	0.10524800	0.04058110	0.00288501	---	---	---	0.93643200
RelInt RSD	2.34258133	1.00953892	2.58382467	---	---	---	0.41004472
RelInt SD	0.00246552	0.00040968	0.00007454	---	---	---	0.00383979

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	96037.5000000	117578	15655.6000000	5181.75000000	254603	5392.36000000	
Int RSD	1.61490043	0.54843593	0.19080968	1.87944806	0.49058731	1.48968170	
Int SD	1550.91000000	644.84000000	29.87240000	97.38830000	1249.05000000	80.32900000	
RelInt Mean	0.13125700	0.13599200	0.00234491	0.00033811	0.12465600	-0.00000258	
RelInt RSD	1.67463831	0.55929246	1.69873897	16.35671548	0.67592013	1765.24953789	
RelInt SD	0.00219808	0.00076059	0.00003983	0.00005530	0.00084258	0.00004555	

Sample Name: ICAL,L5,S19156

Sample Type: Calibration Sample

Measure Date: 2023-10-24 09:33:06

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	69287.2000000	87204.3000000	151262	719051	2969220	892490	903845
Int RSD	0.52369846	0.95881854	0.20342717	0.30890438	1.13139141	0.35034790	0.38726994
Int SD	362.85600000	836.13100000	307.70800000	2221.18000000	33593.5000000	3126.82000000	3500.32000000
RelInt Mean	0.00001133	0.10234600	0.07694640	0.37349700	1.56023000	1.30160000	0.47089600
RelInt RSD	110.04096551	1.52210150	0.64956775	0.54511817	0.29513918	0.23765904	0.47975986
RelInt SD	0.00001246	0.00155781	0.00049982	0.00203600	0.00460485	0.00309337	0.00225917
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	1426520	4386460	5523980	195005	133578	13933700	1185990
Int RSD	1.04002748	1.32073927	1.20519263	2.13252994	0.14427525	0.85837932	1.29334986
Int SD	14836.2000000	57933.7000000	66574.6000000	4158.54000000	192.72000000	119604	15339.0000000
RelInt Mean	0.74603300	0.14152000	2.90674000	0.27529900	0.17216200	7.34384000	0.62182600
RelInt RSD	0.24480150	1.34070096	0.38568981	2.61825869	0.52948153	1.32866048	0.46164039
RelInt SD	0.00182630	0.00189736	0.01121100	0.00720804	0.00091157	0.09757470	0.00287060
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	985853	1187940	322075	502333	364427	474933	16717900
Int RSD	0.92625371	0.98493190	0.43362571	0.49850796	0.36690750	0.39058351	2.15003679
Int SD	9131.50000000	11700.4000000	1396.60000000	2504.17000000	1337.11000000	1855.01000000	359441
RelInt Mean	1.40938000	0.62027700	0.16387500	0.26072300	0.18919700	0.24778800	24.57570000
RelInt RSD	1.01039464	0.31210894	0.66747216	0.34799653	0.47867567	0.55608423	2.73046546
RelInt SD	0.01424030	0.00193594	0.00109382	0.00090731	0.00090564	0.00137791	0.67103100
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	16135500	376797	458871	1908450	30544900	693624	8971120
Int RSD	1.71343311	0.32973723	1.92768992	0.84373182	0.12262243	0.56684746	0.99657456
Int SD	276471	1242.44000000	8845.61000000	16102.2000000	37454.9000000	3931.79000000	89403.9000000
RelInt Mean	0.52653800	0.19564600	0.01447220	---	---	---	4.72784000
RelInt RSD	1.72005059	0.54632857	1.96659112	---	---	---	0.19124970
RelInt SD	0.00905672	0.00106887	0.00028461	---	---	---	0.00904198
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	431379	545594	26672.0000000	7548.64000000	1155560	7010.80000000	
Int RSD	0.72822506	2.75880966	1.00307439	1.39221105	0.99914327	0.81989930	
Int SD	3141.41000000	15051.9000000	267.54000000	105.09300000	11545.7000000	57.48150000	
RelInt Mean	0.62369300	0.76141100	0.00803163	0.00124667	0.60320200	0.00051594	
RelInt RSD	0.21562852	3.29766709	1.02649275	4.73466916	0.30224369	6.93572302	
RelInt SD	0.00134486	0.02510880	0.00008244	0.00005903	0.00182314	0.00003578	

Sample Name: ICAL,L6,S19112

Sample Type: Calibration Sample

Measure Date: 2023-10-24 09:36:23

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	72466.9000000	157918	305696	1390970	6020940	1726740	1701580
Int RSD	0.88782327	0.66043770	0.57283052	0.92577841	0.56780835	2.47759941	0.57271242
Int SD	643.37800000	1042.95000000	1751.12000000	12877.30000000	34187.40000000	42781.70000000	9745.16000000
RelInt Mean	-0.00002111	0.20471600	0.16061000	0.73941000	3.22107000	2.56734000	0.90547200
RelInt RSD	34.21712602	0.14388568	0.83479858	0.39777661	0.12763802	1.80491092	0.36378154
RelInt SD	0.00000722	0.00029456	0.00134077	0.00294120	0.00411131	0.04633820	0.00329394

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	2921750	8738850	11031600	391258	254154	27398400	2413560
Int RSD	0.45237272	1.82438193	0.71301443	0.59749577	0.79827191	0.75760263	0.37214820
Int SD	13217.20000000	159430	78656.90000000	2337.75000000	2028.84000000	207571	8982.02000000
RelInt Mean	1.55851000	0.29352500	5.90643000	0.57070800	0.35439600	14.68120000	1.28949000
RelInt RSD	0.13574889	1.61263606	1.07919674	0.94823973	0.16570955	1.20379124	0.32653297
RelInt SD	0.00211566	0.00473349	0.06374200	0.00541168	0.00058727	0.17673100	0.00421061

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1953620	2344700	632514	1036500	734516	947605	33224600
Int RSD	1.81358708	0.57794174	0.31498117	0.63138254	0.71515937	0.39396373	2.60474468
Int SD	35430.60000000	13551.00000000	1992.30000000	6544.28000000	5252.96000000	3733.22000000	865416
RelInt Mean	2.87183000	1.24965000	0.33230400	0.55052600	0.39033300	0.50487200	49.61450000
RelInt RSD	2.55949691	0.13081023	0.56151596	0.94975896	0.95008621	0.72428259	2.01711193
RelInt SD	0.07350440	0.00163467	0.00186594	0.00522867	0.00370850	0.00365670	1.00078000

	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	31851000	725530	908965	1878930	29544200	683156	16732600
Int RSD	1.95432482	0.31215525	1.94842486	0.58435918	0.48409502	0.76804273	1.16274817
Int SD	622472	2264.78000000	17710.50000000	10979.70000000	143022	5246.93000000	194558
RelInt Mean	1.07707000	0.38520900	0.03017180	---	---	---	8.96534000
RelInt RSD	1.74872571	0.30432830	1.88414347	---	---	---	1.64350711
RelInt SD	0.01883500	0.00117230	0.00056848	---	---	---	0.14734600

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	867184	1130230	38387.30000000	10269.30000000	2395060	8799.68000000	
Int RSD	1.01316330	3.64003787	0.63015893	1.27418617	0.77583443	0.75433425	
Int SD	8785.99000000	41140.80000000	241.90100000	130.85000000	18581.70000000	66.37900000	
RelInt Mean	1.28165000	1.63925000	0.01408450	0.00234569	1.27599000	0.00117763	
RelInt RSD	0.52752233	4.45736160	1.75455998	3.44832437	0.21611533	3.28742474	
RelInt SD	0.00676099	0.07306730	0.00024712	0.00008089	0.00275761	0.00003871	

Sample Name: ICAL,L7,S19241

Sample Type: Calibration Sample

Measure Date: 2023-10-24 09:39:38

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	1666850	14679.1000000	4525.51000000	13293.4000000	10903.8000000	9864.49000000	9860.89000000
Int RSD	2.32288448	1.10679810	1.27633792	2.58076940	4.71158679	0.08468943	1.62732776
Int SD	38719.0000000	162.46800000	57.76080000	343.07200000	513.74200000	8.35418000	160.46900000
RelInt Mean	0.04813400	0.00044883	-0.00004836	0.00153891	0.00031962	0.00377198	0.00002968
RelInt RSD	3.34408111	9.22634405	61.83824198	11.03326380	71.13697516	3.15057344	217.13405820
RelInt SD	0.00160964	0.00004141	0.00002991	0.00016979	0.00022737	0.00011884	0.00006444
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	11127.8000000	82381.3000000	32520.1000000	9741.45000000	16303.6000000	14342.4000000	10152.4000000
Int RSD	9.08715110	17.19297947	37.40332902	1.30957917	0.79403322	11.58237115	14.66431583
Int SD	1011.20000000	14163.8000000	12163.6000000	127.57200000	129.45600000	1661.19000000	1488.78000000
RelInt Mean	0.00056762	0.00070056	0.00993713	0.00403864	0.00019695	0.00119587	0.00207058
RelInt RSD	84.03688377	60.21337155	60.91366421	3.71805855	66.11357924	67.84391280	35.07741792
RelInt SD	0.00047701	0.00042183	0.00605307	0.00015016	0.00013021	0.00081133	0.00072631
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	42379.9000000	10833.9000000	9879.11000000	7135.94000000	5253.50000000	7048.10000000	14419.3000000
Int RSD	0.96713300	2.62545344	0.94446565	2.07326575	1.46226325	14.14249230	0.61967224
Int SD	409.87000000	284.43900000	93.30480000	147.94700000	76.82000000	996.77700000	89.35240000
RelInt Mean	0.02436980	0.00020180	-0.00004279	0.00024597	0.00010413	0.00128232	0.00077505
RelInt RSD	1.68023948	70.38063004	76.88791570	23.89570103	35.41008010	38.53921018	24.49087024
RelInt SD	0.00040947	0.00014203	0.00003290	0.00005878	0.00003687	0.00049420	0.00018982
	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	260386	4690.83000000	20166.5000000	2030470	33304300	711722	8446.58000000
Int RSD	15.66969806	1.36974480	6.47960727	0.24182874	1.03286362	0.49002841	20.69168823
Int SD	40801.7000000	64.25240000	1306.71000000	4910.26000000	343988	3487.64000000	1747.74000000
RelInt Mean	0.00566451	-0.00000067	0.00012934	---	---	---	0.00104283
RelInt RSD	21.35065522	3821.80946155	30.40591633	---	---	---	82.29231994
RelInt SD	0.00120941	0.00002555	0.00003933	---	---	---	0.00085817
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	6621.93000000	25645.7000000	12250.5000000	4555.39000000	10114.0000000	4958.54000000	
Int RSD	0.53961760	0.72504942	1.08148239	2.07214530	2.32980028	1.22344480	
Int SD	35.73310000	185.94400000	132.48700000	94.39430000	235.63600000	60.66500000	
RelInt Mean	-0.00016012	0.00211294	0.00075248	0.00013021	0.00017702	-0.00011148	
RelInt RSD	79.94991382	4.56948612	8.11973990	36.73189313	61.73292132	16.53473873	
RelInt SD	0.00012802	0.00009655	0.00006110	0.00004783	0.00010928	0.00001843	

Method Name: Met06_Master011923

Method Autor:

Operator

Sample Name: ICAL,L8,S18727

Sample Type: Calibration Sample

Measure Date: 2023-10-24 09:42:54

Recalculation Date:

State: Measured

Quality:

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	67137.6000000	14944.5000000	4564.99000000	12294.6000000	10562.1000000	10187.5000000	9867.29000000
Int RSD	0.66946838	1.07286962	0.66668711	0.47448473	0.47513373	0.67454233	0.37268896
Int SD	449.46500000	160.33500000	30.43420000	58.33600000	50.18410000	68.71900000	36.77430000
RelInt Mean	0.00004362	0.00026538	-0.00005106	0.00095003	0.00004864	0.00379185	-0.00003742
RelInt RSD	8.58080520	30.91150593	12.82901463	5.13609044	47.22052033	5.54626370	57.73016514
RelInt SD	0.00000374	0.00008203	0.00000655	0.00004879	0.00002297	0.00021031	0.00002160

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	10253.4000000	63572.5000000	17118.6000000	9666.83000000	16579.9000000	12974.5000000	6769.47000000
Int RSD	0.82801802	0.69070274	0.88861823	1.41467265	1.12933130	1.77192955	1.04000904
Int SD	84.90000000	439.09700000	152.11900000	136.75400000	187.24200000	229.89900000	70.40310000
RelInt Mean	0.00009720	0.00011169	0.00225529	0.00362994	-0.00000036	0.00041038	0.00034798
RelInt RSD	15.98974118	3.96766078	3.78117227	4.86479115	40069.3553750	15.57549381	12.89497355
RelInt SD	0.00001554	0.00000443	0.00008528	0.00017659	0.00014339	0.00006392	0.00004487

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	41593.3000000	10838.6000000	9949.32000000	6893.81000000	5191.83000000	5100.85000000	14635.3000000
Int RSD	0.57709054	0.55339896	0.63356290	0.47529595	0.20122385	0.39717106	0.45612184
Int SD	240.03100000	59.98070000	63.03520000	32.76600000	10.44720000	20.25910000	66.75480000
RelInt Mean	0.02223450	0.00015289	-0.00008622	0.00006981	0.00004141	0.00027256	0.00054305
RelInt RSD	1.11970586	21.05982615	38.03054747	5.17848036	27.08686970	7.00052833	54.97318857
RelInt SD	0.00024896	0.00003220	0.00003279	0.00000361	0.00001122	0.00001908	0.00029853

	Ti 334.941	Ti 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	112305	4640.82000000	17907.3000000	2046140	33669000	719481	7460.21000000
Int RSD	1.81173590	0.80244009	1.24424118	0.32006461	1.47803618	1.18507369	0.40586793
Int SD	2034.67000000	37.23980000	222.81000000	6548.97000000	497640	8526.38000000	30.27860000
RelInt Mean	0.00117603	-0.00006028	0.00004948	---	---	---	0.00050614
RelInt RSD	6.22319159	4.41521947	9.32063833	---	---	---	6.26641851
RelInt SD	0.00007319	0.00000266	0.00000461	---	---	---	0.00003172

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	6626.37000000	26126.8000000	1196080	564811	10161.0000000	217191	
Int RSD	0.46835749	1.20452562	0.48470671	0.46557344	0.64821770	0.44912911	
Int SD	31.03510000	314.70400000	5797.48000000	2629.61000000	65.86540000	975.46800000	
RelInt Mean	-0.00032956	0.00197521	0.58240200	0.27528000	0.00014268	0.10410900	
RelInt RSD	43.11692489	19.57336182	0.18312952	0.22545299	4.75209734	0.13015974	
RelInt SD	0.00014210	0.00038661	0.00106655	0.00062063	0.00000678	0.00013551	

Sample Name: ICV,S19239				Sample Type: Control Sample			
Measure Date: 2023-10-24 09:46:19			Recalculation Date:		State: Check failed		Quality: Failed
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	433869	25336.3000000	36177.5000000	154762	656837	934002	381754
Int RSD	1.72785564	0.73310625	0.33345311	0.40661726	0.42226762	0.53349350	0.58241695
Int SD	7496.63000000	185.74200000	120.63500000	629.28900000	2773.61000000	4982.84000000	2223.40000000
RelInt Mean	0.01182050	0.01047920	0.01636440	0.07559290	0.33930100	1.37308000	0.19497800
RelInt RSD	1.78725942	6.37604016	0.81246486	1.06579851	1.21034421	0.35608268	1.24735098
RelInt SD	0.00021126	0.00066816	0.00013296	0.00080567	0.00410671	0.00488930	0.00243206
Conc Mean	0.49005500[mg/l]	0.97927300[mg/l]	1.03094000[mg/l]	1.00747000[mg/l]	1.05569000[mg/l]	53.27090000[mg/l]	1.06585000[mg/l]
Conc RSD	1.79258451	6.68341719	0.80776767	1.08184859	1.21051634	0.35708426	1.24436834
Conc SD	0.00878465[mg/l]	0.06544890[mg/l]	0.00832760[mg/l]	0.01089930[mg/l]	0.01277930[mg/l]	0.19022200[mg/l]	0.01326310[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	317496	969436	607484	116473	138196	2937980	255846
Int RSD	0.37140625	1.98084247	0.58468536	2.23290376	0.18876668	0.72180546	0.28020528
Int SD	1179.20000000	19203.0000000	3551.87000000	2600.73000000	260.86800000	21206.5000000	716.89400000
RelInt Mean	0.16107300	0.02923110	0.31214200	0.16158700	0.18004100	1.53647000	0.13101200
RelInt RSD	1.22022313	1.97049718	1.32683522	1.92700527	0.25102449	0.40968389	1.25077855
RelInt SD	0.00196545	0.00057600	0.00414161	0.00311379	0.00045195	0.00629467	0.00163867
Conc Mean	1.04178000[mg/l]	0.99995000[mg/l]	1.05664000[mg/l]	56.40540000[mg/l]	51.03080000[mg/l]	1.04539000[mg/l]	1.02255000[mg/l]
Conc RSD	1.22061280	1.97790890	1.33100204	1.96209937	0.25128158	0.40998383	1.25144003
Conc SD	0.01271610[mg/l]	0.01977810[mg/l]	0.01406390[mg/l]	1.10673000[mg/l]	0.12823100[mg/l]	0.00428593[mg/l]	0.01279660[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	550189	260846	77837.8000000	42690.8000000	29979.4000000	498664	759885
Int RSD	1.80538142	0.46899320	0.35194468	0.11363362	0.47080662	0.66284512	0.39571646
Int SD	9933.01000000	1223.35000000	273.94600000	48.51110000	141.14500000	3305.37000000	3006.99000000
RelInt Mean	0.77583300	0.13112900	0.03532720	0.01869490	0.01290860	0.25940300	1.10592000
RelInt RSD	1.64246687	1.04034195	0.77249824	1.03630937	0.96370637	1.41494509	0.28082411
RelInt SD	0.01274280	0.00136419	0.00027290	0.00019374	0.00012440	0.00367041	0.00310569
Conc Mean	53.44090000[mg/l]	1.04965000[mg/l]	1.06760000[mg/l]	1.02316000[mg/l]	0.99729500[mg/l]	5.15493000[mg/l]	1.11529000[mg/l]
Conc RSD	1.67800318	1.04191873	0.76982859	1.03651433	0.96462531	1.41556141	0.28083368
Conc SD	0.89674000[mg/l]	0.01093650[mg/l]	0.00821869[mg/l]	0.01060520[mg/l]	0.00962016[mg/l]	0.07297120[mg/l]	0.00313211[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3530400	31820.6000000	201509	1916220	31092700	688495	640947
Int RSD	3.18252889	0.30119042	2.03837546	1.07310225	0.18673483	0.45803673	0.46973307
Int SD	112356	95.84060000	4107.51000000	20563.0000000	58060.9000000	3153.56000000	3010.74000000
RelInt Mean	0.11132000	0.01401780	0.00594253	---	---	---	0.33306600
RelInt RSD	3.17729968	0.89309307	2.12002295	---	---	---	1.38508584
RelInt SD	0.00353697	0.00012519	0.00012598	---	---	---	0.00461325
Conc Mean	1.03739000[mg/l]	1.08805000[mg/l]	0.98634000[mg/l]	1903730	30997500	674249	1.09996000[mg/l]
Conc RSD	3.18045287	0.88323515	2.13801529	---	---	---	1.38686861
Conc SD	0.03299370[mg/l]	0.00961004[mg/l]	0.02108810[mg/l]	20546.8000000	58067.0000000	3130.87000000	0.01525500[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	291400	128906	658237	289907	511988	114608	
Int RSD	0.71474262	1.93343211	0.48002467	0.56490185	0.54719056	0.33244363	
Int SD	2082.76000000	2492.31000000	3159.70000000	1637.69000000	2801.55000000	381.00700000	
RelInt Mean	0.42143700	0.15409000	0.33954100	0.14968500	0.26323300	0.05719290	
RelInt RSD	0.28642715	2.03315595	1.23613349	1.23877476	1.33484024	1.01733782	
RelInt SD	0.00120711	0.00313289	0.00419718	0.00185426	0.00351374	0.00058185	
Conc Mean	0.99181200[mg/l]	0.94731300[mg/l]	5.79651000[mg/l]	5.43469000[mg/l]	1.03849000[mg/l]	5.49745000[mg/l]	
Conc RSD	0.28630426	2.04899542	1.24157985	1.24003209	1.33749001	1.01575822	
Conc SD	0.00283960[mg/l]	0.01941040[mg/l]	0.07196830[mg/l]	0.06739190[mg/l]	0.01388970[mg/l]	0.05584080[mg/l]	

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET06	File: met06_master011	IDF: 1.0
Seqnum: 483428236012	Caldate: 24-OCT-2023	Time: 24-OCT-2023 09:52
Cal: 483428236001		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	33053400	-1.01
Yttrium	A	2031070	2000310	-1.51
Yttrium	R	719619	712478	-0.99

Sample Name: ICB,1				Sample Type: Control Sample			
Measure Date: 2023-10-24 09:52:49			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	67341.8000000	14703.2000000	4448.5600000	11439.6000000	10416.9000000	9705.7500000	9833.7200000
Int RSD	0.49606040	0.39019941	0.42811157	1.09024791	0.29463852	1.02012415	0.55830652
Int SD	334.05600000	57.37180000	19.04480000	124.72000000	30.69220000	99.01070000	54.90230000
RelInt Mean	0.00003432	0.00038247	-0.00010636	0.00057036	0.00004242	0.00343760	-0.00002318
RelInt RSD	5.92986872	30.59928413	3.95907181	9.17729875	59.54289701	7.22888061	83.24208655
RelInt SD	0.00000204	0.00011703	0.00000421	0.00005234	0.00002526	0.00024850	0.00001929
Conc Mean	<0.00002413[mg/l]	<0.00974140[mg/l]	<0.00145554[mg/l]	<0.00724790[mg/l]	<0.00004717[mg/l]	<0.00485006[mg/l]	<0.00005886[mg/l]
Conc RSD	350.74099247	117.68226333	18.13615565	9.76809835	166.74482998	199.30083339	179.66923558
Conc SD	0.00008463[mg/l]	0.01146390[mg/l]	0.00026398[mg/l]	0.00070798[mg/l]	0.00007865[mg/l]	0.00966621[mg/l]	0.00010575[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	10128.1000000	63799.7000000	13905.1000000	9352.92000000	16450.6000000	12537.3000000	6224.87000000
Int RSD	0.32414076	0.29854999	0.62096785	1.73485927	1.37512917	0.71648521	0.58612148
Int SD	32.82930000	190.47400000	86.34620000	162.26000000	226.21700000	89.82790000	36.48530000
RelInt Mean	0.00002444	0.00010729	0.00069082	0.00335984	0.00024945	0.00027669	0.00010435
RelInt RSD	125.18528219	7.42229865	12.61171474	6.69525930	120.14840411	29.71979877	11.64452878
RelInt SD	0.00003059	0.00000796	0.00008712	0.00022495	0.00029972	0.00008223	0.00001215
Conc Mean	<0.00015804[mg/l]	<0.00003171[mg/l]	<0.00121190[mg/l]	<0.16158300[mg/l]	<0.00840043[mg/l]	<0.00060680[mg/l]	<0.00029616[mg/l]
Conc RSD	125.18602415	862.29637456	24.4177374	49.48688909	1012.84577099	9.22745678	32.03821570
Conc SD	0.00019785[mg/l]	0.00027340[mg/l]	0.00029592[mg/l]	0.07996240[mg/l]	0.08508340[mg/l]	0.00005599[mg/l]	0.00009488[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	38929.3000000	10795.9000000	9918.51000000	6714.14000000	5104.03000000	4784.31000000	14244.5000000
Int RSD	0.42054699	0.44529034	0.43945109	0.78016693	0.72928255	1.06638784	0.92877953
Int SD	163.71600000	48.07310000	43.58700000	52.38150000	37.22280000	51.01930000	132.30000000
RelInt Mean	0.01910870	0.00014672	-0.00006395	0.00001273	-0.00000825	0.00014192	0.00040037
RelInt RSD	2.26822337	19.94881337	39.76562830	213.13512070	266.08952908	18.26358992	28.11770201
RelInt SD	0.00043343	0.00002927	0.00002543	0.00002714	0.00002195	0.00002592	0.00011257
Conc Mean	0.18990600[mg/l]	<0.00017064[mg/l]	<0.00081644[mg/l]	<0.00070015[mg/l]	<0.00171099[mg/l]	<0.00083963[mg/l]	<0.00011718[mg/l]
Conc RSD	16.06094594	137.42909048	93.62380472	213.51281868	99.20163180	61.37129123	96.93028495
Conc SD	0.03050070[mg/l]	0.00023451[mg/l]	0.00076439[mg/l]	0.00149491[mg/l]	0.00169733[mg/l]	0.00051529[mg/l]	0.00011358[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	77582.9000000	4585.99000000	17989.5000000	2000310	33053400	712478	6728.49000000
Int RSD	0.25145361	0.14795889	0.53012757	0.42051832	0.54691197	1.56261667	0.99225681
Int SD	195.08500000	6.78538000	95.36730000	8411.67000000	180773	11133.3000000	66.76390000
RelInt Mean	0.00013198	-0.00007669	0.00005001	---	---	---	0.00017905
RelInt RSD	5.09608201	23.13787928	4.29129576	---	---	---	20.03373265
RelInt SD	0.00000673	0.00001774	0.00000215	---	---	---	0.00003587
Conc Mean	<0.00025120[mg/l]	<0.00004738[mg/l]	<0.00022024[mg/l]	1988160	32959600	698162	<0.00061944[mg/l]
Conc RSD	24.97545751	2904.46072255	163.13220518	---	---	---	19.16666667
Conc SD	0.00006274[mg/l]	0.00137627[mg/l]	0.00035928[mg/l]	8496.28000000	180958	11164.0000000	0.00011873[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	6519.34000000	25448.5000000	12485.5000000	4522.33000000	10024.1000000	4995.28000000	
Int RSD	2.46245786	0.52261233	0.93095991	1.92150506	0.20753883	0.72853974	
Int SD	160.53600000	132.99700000	116.23500000	86.89680000	20.80390000	36.39260000	
RelInt Mean	-0.00023637	0.00153575	0.00080390	0.00009480	0.00008102	-0.00011588	
RelInt RSD	78.86642862	10.42780400	6.51785803	39.14557827	17.54156638	9.60665188	
RelInt SD	0.00018642	0.00016015	0.00005240	0.00003711	0.00001421	0.00001113	
Conc Mean	<0.00011968[mg/l]	<0.00219051[mg/l]	<0.01131130[mg/l]	<0.00285964[mg/l]	<0.00003646[mg/l]	<0.00248290[mg/l]	
Conc RSD	366.33159531	45.29283135	7.96664398	47.17307074	151.88682609	43.02750816	
Conc SD	0.00043841[mg/l]	0.00099214[mg/l]	0.00090113[mg/l]	0.00134898[mg/l]	0.00005538[mg/l]	0.00106833[mg/l]	

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 494421 METALS Wipe
EPA 6010B

Inst: MET06	File: met06_master011	IDF: 1.0
Seqnum: 483428236013	Caldate: 24-OCT-2023	Time: 24-OCT-2023 09:56
Cal: 483428236001		

Standards: S19107, S14463 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.01152]	0.003333	mg/l	a- ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	145.3	mg/l	91	
Aluminum	R	400.0	390.2	mg/l	98	
Calcium	R	400.0	403.6	mg/l	101	
Magnesium	R	400.0	413.9	mg/l	103	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	28990200	-13.18
Yttrium	A	2031070	1803050	-11.23
Yttrium	R	719619	673511	-6.41

--low bias a=ICSA

Sample Name: ICSA,S19107					Sample Type: Control Sample		
Measure Date: 2023-10-24 09:56:04			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	67179.8000000	2664590	12410.3000000	15278.2000000	14880.9000000	6860130	12139.6000000
Int RSD	0.40887439	1.02404498	0.37676043	0.58504078	0.57517422	1.27164646	0.23911249
Int SD	274.68100000	27286.6000000	46.75710000	89.38370000	85.59110000	87236.6000000	29.02730000
RelInt Mean	0.00000673	3.98372000	-0.00004532	0.00092985	0.00150031	10.38010000	0.00025872
RelInt RSD	186.64784547	2.46365457	30.28198226	5.74840968	2.78427125	2.71618771	17.54215964
RelInt SD	0.00001256	0.09814510	0.00001372	0.00005345	0.00004177	0.28194300	0.00004538
Conc Mean	<0.00117152[mg/l]	>390.17500000[mg/l]	<0.00237572[mg/l]	<0.00238575[mg/l]	0.00451415[mg/l]	>403.62000000[mg/l]	0.00148168[mg/l]
Conc RSD	44.58464217	2.46413020	36.24539087	30.30300744	2.88291262	2.71693672	16.78311106
Conc SD	0.00052232[mg/l]	9.61442000[mg/l]	0.00086109[mg/l]	0.00072295[mg/l]	0.00013014[mg/l]	10.96610000[mg/l]	0.00024867[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	12236.0000000	67694.3000000	76545500	12037.0000000	981986	28016.3000000	18463.0000000
Int RSD	0.11050343	0.61978187	0.85907859	2.17687962	1.11296902	0.84642155	0.25274874
Int SD	13.52120000	419.55700000	657586	262.03100000	10929.2000000	237.13600000	46.66500000
RelInt Mean	-0.00035276	0.00017837	42.78890000	0.00850137	1.45830000	0.00568732	-0.00018938
RelInt RSD	8.97834222	2.75486909	1.14332222	1.96814161	0.40383049	2.63419326	9.81455275
RelInt SD	0.00003167	0.00000491	0.48921500	0.00016732	0.00588906	0.00014982	0.00001859
Conc Mean	<0.00228157[mg/l]	0.00247218[mg/l]	>145.32900000[mg/l]	1.98920000[mg/l]	>413.90300000[mg/l]	0.00307729[mg/l]	<0.00199754[mg/l]
Conc RSD	8.97820361	6.82490757	1.14315794	2.98968932	0.40399804	3.31486470	7.26633760
Conc SD	0.00020484[mg/l]	0.00016872[mg/l]	1.66134000[mg/l]	0.05947090[mg/l]	1.67216000[mg/l]	0.00010201[mg/l]	0.00014515[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	43086.4000000	12655.0000000	26350.1000000	21531.8000000	15044.8000000	12332.2000000	15437.4000000
Int RSD	1.02796242	0.65967918	0.68658183	0.98294615	0.34627446	0.38040901	2.26685193
Int SD	442.91200000	83.48240000	180.91500000	211.64600000	52.09630000	46.91280000	349.94300000
RelInt Mean	0.02914140	0.00008586	0.00293414	0.00004248	0.00009721	0.00000464	0.00283675
RelInt RSD	1.87190732	61.43154467	0.82293619	258.09413277	5.45397405	397.65191377	3.76807967
RelInt SD	0.00054550	0.00005275	0.00002415	0.00010963	0.00000530	0.00001846	0.00010689
Conc Mean	0.89591200[mg/l]	<0.00031697[mg/l]	<0.01151750[mg/l]	<0.00235207[mg/l]	0.00644509[mg/l]	<0.00188953[mg/l]	0.00234099[mg/l]
Conc RSD	4.28463956	133.33080942	26.53049707	256.58505061	6.36177307	19.42483051	4.60681165
Conc SD	0.03838660[mg/l]	0.00042262[mg/l]	0.00305565[mg/l]	0.00603506[mg/l]	0.00041002[mg/l]	0.00036704[mg/l]	0.00010784[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	86015.5000000	12661.9000000	21382.1000000	1803050	28990200	673511	24499.6000000
Int RSD	0.88865960	0.47430638	0.50692402	0.76394997	1.16510062	1.42643253	0.98987330
Int SD	764.38500000	60.05620000	108.39100000	13774.4000000	337765	9607.18000000	242.51500000
RelInt Mean	0.00031523	-0.00004980	0.00004829	---	---	---	0.00237535
RelInt RSD	3.57971037	27.40884135	17.02077828	---	---	---	6.91089734
RelInt SD	0.00001128	0.00001365	0.00000822	---	---	---	0.00016416
Conc Mean	0.00196055[mg/l]	<0.00204052[mg/l]	<0.00006710[mg/l]	1788500	28882000	659716	0.00664658[mg/l]
Conc RSD	5.36910561	51.89314488	2050.78221058	---	---	---	8.16934423
Conc SD	0.00010526[mg/l]	0.00105889[mg/l]	0.00137604[mg/l]	13802.8000000	338023	9961.39000000	0.00054298[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	6148.78000000	24321.8000000	16658.9000000	9870.17000000	12126.6000000	13595.5000000	
Int RSD	5.04194328	1.82568724	0.33599998	1.02746964	1.10038263	0.77324115	
Int SD	310.01800000	444.04000000	55.97390000	101.41300000	133.43900000	105.12600000	
RelInt Mean	-0.00036008	0.00237742	0.00133778	0.00014574	-0.00044156	0.00106374	
RelInt RSD	37.62545893	1.03877312	2.15034610	43.45855633	14.71798530	6.11831839	
RelInt SD	0.00013548	0.00002470	0.00002877	0.00006334	0.00006499	0.00006508	
Conc Mean	<0.00017127[mg/l]	0.00740489[mg/l]	<0.00206982[mg/l]	<0.00100811[mg/l]	<0.00204711[mg/l]	0.11072600[mg/l]	
Conc RSD	186.03992596	2.06645879	24.08243229	228.37388777	12.71299539	5.64120441	
Conc SD	0.00031863[mg/l]	0.00015302[mg/l]	0.00049846[mg/l]	0.00230226[mg/l]	0.00026025[mg/l]	0.00624628[mg/l]	

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 494421 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483428236014	File: met06_master011
Cal: 483428236001	Time: 24-OCT-2023 09:59
Caldate: 24-OCT-2023	

Standards: S19108, S14463 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	1.026	mg/l	3	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	29144700	-12.71
Yttrium	A	2031070	1788980	-11.92
Yttrium	R	719619	664749	-7.62

Sample Name: ICSAB,S19108				Sample Type: Control Sample			
Measure Date: 2023-10-24 09:59:20			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	799583	2658370	12472.6000000	15368.1000000	313959	6824440	174625
Int RSD	2.33811874	1.45369155	0.89844138	0.28055648	0.65776105	1.37223714	0.81371510
Int SD	18695.2000000	38644.5000000	112.05900000	43.11620000	2065.10000000	93647.5000000	1420.95000000
RelInt Mean	0.02518910	4.02862000	0.00001113	0.00101318	0.17001400	10.46480000	0.09171830
RelInt RSD	2.54582736	0.59303682	878.03352919	2.70057640	0.70658299	0.50292027	0.93352690
RelInt SD	0.00064127	0.02389120	0.00009773	0.00002736	0.00120129	0.05262960	0.00085622
Conc Mean	1.04593000[mg/l]	>394.57300000[mg/l]	<0.00546784[mg/l]	<-0.00125858[mg/l]	0.53077200[mg/l]	>406.91600000[mg/l]	0.50224900[mg/l]
Conc RSD	2.54933887	0.59311458	112.10752326	29.40559996	0.70696269	0.50328569	0.93340753
Conc SD	0.02666430[mg/l]	2.34027000[mg/l]	0.00612986[mg/l]	0.00037009[mg/l]	0.00375236[mg/l]	2.04795000[mg/l]	0.00468803[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	151917	518138	77046900	12325.6000000	974234	1405240	18487.6000000
Int RSD	0.77074982	2.20508822	1.02866176	0.29573327	0.78015343	0.23701432	0.88760575
Int SD	1170.90000000	11425.4000000	792552	36.45090000	7600.52000000	3330.62000000	164.09700000
RelInt Mean	0.07832580	0.01565770	43.40940000	0.00893102	1.46614000	0.78194700	-0.00023166
RelInt RSD	0.83137485	2.46947508	1.03058554	2.07035703	0.19451689	0.28766911	54.51472823
RelInt SD	0.00065118	0.00038666	0.44737100	0.00018490	0.00285189	0.00224942	0.00012629
Conc Mean	0.50659300[mg/l]	0.53392800[mg/l]	>147.43700000[mg/l]	2.14193000[mg/l]	>416.12800000[mg/l]	0.53163100[mg/l]	<-0.00232774[mg/l]
Conc RSD	0.83135574	2.48630902	1.03060968	3.06848963	0.19470067	0.28806447	42.36761838
Conc SD	0.00421159[mg/l]	0.01327510[mg/l]	1.51950000[mg/l]	0.06572490[mg/l]	0.81020400[mg/l]	0.00153144[mg/l]	0.00098621[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	43560.5000000	236237	87452.7000000	21494.2000000	15141.7000000	12245.0000000	15317.9000000
Int RSD	0.91399548	0.63848593	0.24622224	0.33728913	1.30359867	0.54172642	0.74680602
Int SD	398.14100000	1508.34000000	215.32800000	72.49760000	197.38700000	66.33440000	114.39500000
RelInt Mean	0.03023780	0.12598000	0.03737750	0.00003742	0.00017906	-0.00002652	0.00262540
RelInt RSD	3.18395849	0.71468566	0.21970276	49.31726843	66.93454708	235.40366346	3.86771540
RelInt SD	0.00096276	0.00090036	0.00008212	0.00001846	0.00011985	0.00006242	0.00010154
Conc Mean	0.97306700[mg/l]	1.00839000[mg/l]	1.02580000[mg/l]	<-0.00091140[mg/l]	0.01277560[mg/l]	<-0.00250896[mg/l]	0.00212775[mg/l]
Conc RSD	6.96261409	0.71503982	0.19816826	113.44549802	72.55682708	49.45834130	4.81518035
Conc SD	0.06775090[mg/l]	0.00721039[mg/l]	0.00203281[mg/l]	0.00103394[mg/l]	0.00926957[mg/l]	0.00124089[mg/l]	0.00010246[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	86025.0000000	12848.9000000	107028	1788980	29144700	664749	587644
Int RSD	0.25314037	0.32540918	0.87537560	0.06898121	0.19313014	0.96540198	0.70342759
Int SD	217.76400000	41.81150000	936.89700000	1234.06000000	56287.2000000	6417.50000000	4133.65000000
RelInt Mean	0.00032167	0.00001091	0.00299030	---	---	---	0.31965800
RelInt RSD	2.39919483	336.73720111	1.18925191	---	---	---	0.76192681
RelInt SD	0.00000772	0.00003673	0.00003556	---	---	---	0.00243556
Conc Mean	0.00202057[mg/l]	0.00675069[mg/l]	0.49248300[mg/l]	1774410	29036100	650793	1.05588000[mg/l]
Conc RSD	3.56258383	42.18576175	1.20891686	---	---	---	0.76267284
Conc SD	0.00007198[mg/l]	0.00284783[mg/l]	0.00595371[mg/l]	1187.53000000	55902.4000000	6399.54000000	0.00805291[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	144530	24322.1000000	16841.7000000	10080.1000000	497945	13665.3000000	
Int RSD	0.71010171	0.92670452	0.25733685	1.26468983	0.67284740	0.85298530	
Int SD	1026.31000000	225.39400000	43.33990000	127.48200000	3350.41000000	116.56300000	
RelInt Mean	0.21181400	0.00220038	0.00147307	0.00029945	0.27291200	0.00113235	
RelInt RSD	0.31792516	3.64422054	4.65296965	16.24211054	0.72227311	7.03985517	
RelInt SD	0.00067341	0.00008019	0.00006854	0.00004864	0.00197117	0.00007972	
Conc Mean	0.49882100[mg/l]	0.00630810[mg/l]	<0.00026659[mg/l]	<0.00457918[mg/l]	1.08056000[mg/l]	0.11731000[mg/l]	
Conc RSD	0.31771116	7.87525562	441.36435760	38.60822243	0.72099374	6.52110647	
Conc SD	0.00158481[mg/l]	0.00049678[mg/l]	0.00117662[mg/l]	0.00176794[mg/l]	0.00779077[mg/l]	0.00764991[mg/l]	

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe
EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483428236119	File: met06_master011
Cal: 483428236001	Time: 24-OCT-2023 16:27
Caldate: 24-OCT-2023	

Standards: S19239, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0296	0.0358	1.000	1.083	mg/l	8	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	32832500	-1.67
Yttrium	A	2031070	2004890	-1.29
Yttrium	R	719619	670719	-6.80

Sample Name: CCV,S19239 Sample Type: Control Sample

Measure Date: 2023-10-24 16:27:28 Recalculation Date: State: Check failed Quality: Failed

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	448356	25116.5000000	38233.1000000	156757	670542	885207	395805
Int RSD	2.00816985	1.09581351	0.11364708	0.50899354	0.51374411	1.43212830	0.44507523
Int SD	9003.75000000	275.23000000	43.45080000	797.88300000	3444.87000000	12677.3000000	1761.63000000
RelInt Mean	0.01133370	0.01098070	0.01632930	0.07248620	0.33048700	1.33633000	0.19267200
RelInt RSD	3.29848152	3.43229484	0.27256282	0.81170761	0.76356407	0.12127169	0.73068739
RelInt SD	0.00037384	0.00037689	0.00004451	0.00058838	0.00252348	0.00162059	0.00140783
Conc Mean	0.46981300[mg/l]	1.02839000[mg/l]	1.02874000[mg/l]	0.96545200[mg/l]	1.02825000[mg/l]	51.84130000[mg/l]	1.05327000[mg/l]
Conc RSD	3.30891227	3.58962067	0.27120750	0.82431545	0.76408655	0.12153032	0.72867926
Conc SD	0.01554570[mg/l]	0.03691530[mg/l]	0.00279002[mg/l]	0.00795837[mg/l]	0.00785672[mg/l]	0.06300290[mg/l]	0.00767496[mg/l]

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	327305	982497	635115	109380	132101	3006310	262373
Int RSD	0.33335879	2.15102947	0.54190816	0.78889925	0.60113928	0.29901274	0.45911736
Int SD	1091.10000000	21133.8000000	3441.74000000	862.89800000	794.11100000	8989.25000000	1204.60000000
RelInt Mean	0.15813900	0.02782610	0.31133100	0.15441100	0.17533600	1.50287000	0.12805900
RelInt RSD	0.60024093	3.24179098	0.76002390	2.13381819	0.48542912	0.27912794	0.74242420
RelInt SD	0.00094922	0.00090206	0.00236619	0.00329485	0.00085113	0.00419493	0.00095074
Conc Mean	1.02280000[mg/l]	0.95170800[mg/l]	1.05388000[mg/l]	53.85460000[mg/l]	49.69530000[mg/l]	1.02251000[mg/l]	0.99949200[mg/l]
Conc RSD	0.60038228	3.25423344	0.76251091	2.17461461	0.48611036	0.27924715	0.74273731
Conc SD	0.00614071[mg/l]	0.03097080[mg/l]	0.00803595[mg/l]	1.17113000[mg/l]	0.24157400[mg/l]	0.00285533[mg/l]	0.00742360[mg/l]

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	523407	271870	83733.6000000	44151.5000000	31812.1000000	524972	731760
Int RSD	1.67329249	0.57493655	0.48363381	0.38718956	0.12400313	0.37039499	1.35370340
Int SD	8758.13000000	1563.08000000	404.96400000	170.95000000	39.44800000	1944.47000000	9905.86000000
RelInt Mean	0.75433300	0.13002900	0.03583310	0.01802710	0.01282910	0.26095500	1.09307000
RelInt RSD	3.00519797	0.85171769	0.60943932	0.47472860	0.11728570	0.64741431	0.13427319
RelInt SD	0.02266920	0.00110748	0.00021838	0.00008558	0.00001505	0.00168946	0.00146770
Conc Mean	51.92800000[mg/l]	1.04083000[mg/l]	1.08284000[mg/l]	0.98650600[mg/l]	0.99114300[mg/l]	5.18579000[mg/l]	1.10232000[mg/l]
Conc RSD	3.07202280	0.85286454	0.60867811	0.47563928	0.11751180	0.64760046	0.13404819
Conc SD	1.59524000[mg/l]	0.00887687[mg/l]	0.00659101[mg/l]	0.00469221[mg/l]	0.00116471[mg/l]	0.03358320[mg/l]	0.00147764[mg/l]

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3637050	33163.2000000	210764	2004890	32832500	670719	691689
Int RSD	2.40742360	0.39697617	1.77706819	0.28301154	1.32783066	1.29554851	0.97698243
Int SD	87559.2000000	131.65000000	3745.42000000	5674.07000000	435960	8689.49000000	6757.68000000
RelInt Mean	0.10840000	0.01370240	0.00583048	---	---	---	0.34348200
RelInt RSD	3.62661439	0.36173809	3.00582456	---	---	---	1.10395013
RelInt SD	0.00393125	0.00004957	0.00017525	---	---	---	0.00379187
Conc Mean	1.01015000[mg/l]	1.06371000[mg/l]	0.96759000[mg/l]	1990330	32725500	656207	1.13442000[mg/l]
Conc RSD	3.62990645	0.36560717	3.03225540	---	---	---	1.10589552
Conc SD	0.03666750[mg/l]	0.00388900[mg/l]	0.02933980[mg/l]	5598.68000000	435962	8773.57000000	0.01254550[mg/l]

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	273019	123261	669652	300931	519936	121347	
Int RSD	1.21738048	2.31788644	0.60619546	0.48073811	0.38699186	0.08227224	
Int SD	3323.68000000	2857.05000000	4059.40000000	1446.69000000	2012.11000000	99.83490000	
RelInt Mean	0.40497700	0.14774600	0.32952700	0.14840300	0.25484300	0.05781720	
RelInt RSD	0.15303931	4.20355881	0.87561262	0.73279516	0.66506830	0.26910158	
RelInt SD	0.00061977	0.00621059	0.00288538	0.00108749	0.00169488	0.00015559	
Conc Mean	0.95310300[mg/l]	0.90801000[mg/l]	5.62466000[mg/l]	5.38807000[mg/l]	1.00527000[mg/l]	5.55737000[mg/l]	
Conc RSD	0.15285441	4.23761853	0.88028965	0.73351683	0.66683379	0.26875482	
Conc SD	0.00145686[mg/l]	0.03847800[mg/l]	0.04951330[mg/l]	0.03952240[mg/l]	0.00670348[mg/l]	0.01493570[mg/l]	

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483428236120	File: met06_master011
Cal: 483428236001	Time: 24-OCT-2023 16:30
Caldate: 24-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	34733300	4.02
Yttrium	A	2031070	2097590	3.28
Yttrium	R	719619	685927	-4.68

Sample Name: CCB,1				Sample Type: Control Sample			
Measure Date: 2023-10-24 16:30:42			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	77109.3000000	14709.5000000	5193.0900000	12891.5000000	12163.5000000	9973.9100000	11815.4000000
Int RSD	0.42350793	0.74742173	0.69605379	0.91929566	0.97512229	1.47020577	0.78903211
Int SD	326.56400000	109.94200000	36.14670000	118.51100000	118.60900000	146.63700000	93.22730000
RelInt Mean	0.00003553	0.00010334	-0.00008386	0.00049513	0.00004371	0.00395794	0.00010607
RelInt RSD	14.89435421	37.56422786	26.50330862	15.89687453	94.76647359	10.91004411	43.34782117
RelInt SD	0.00000529	0.00003882	0.00002222	0.00007871	0.00004142	0.00043181	0.00004598
Conc Mean	<0.00002597[mg/l]	<0.03708330[mg/l]	<0.00004385[mg/l]	<0.00826556[mg/l]	<0.00005049[mg/l]	<0.01538970[mg/l]	0.00063254[mg/l]
Conc RSD	847.22986943	10.25421146	3180.10065515	12.87982907	252.06287460	109.13987927	39.42992198
Conc SD	0.00022004[mg/l]	0.00380260[mg/l]	0.00139456[mg/l]	0.00106459[mg/l]	0.00012726[mg/l]	0.01679630[mg/l]	0.00024941[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	11719.8000000	78776.6000000	21916.6000000	8768.0500000	16483.9000000	15023.1000000	7804.9500000
Int RSD	1.55254356	6.25546165	7.60889007	0.72110675	1.09851431	3.32832771	2.68847334
Int SD	181.95500000	4927.84000000	1667.61000000	63.22700000	181.07800000	500.01800000	209.83400000
RelInt Mean	0.00000678	0.00028830	0.00345790	0.00191065	0.00014345	0.00044099	0.00036111
RelInt RSD	1280.81289807	47.67637877	22.40111050	1.53008662	71.16774837	57.90741182	28.21641111
RelInt SD	0.00008685	0.00013745	0.00077461	0.00002923	0.00010209	0.00025536	0.00010189
Conc Mean	<0.00004386[mg/l]	0.00624643[mg/l]	0.00818653[mg/l]	<0.35355100[mg/l]	<0.03849360[mg/l]	<0.00049493[mg/l]	0.00230122[mg/l]
Conc RSD	1280.78659371	75.54907363	32.13791435	2.93957590	75.28706071	35.13127987	34.57626824
Conc SD	0.00056175[mg/l]	0.00471912[mg/l]	0.00263098[mg/l]	0.01039290[mg/l]	0.02898070[mg/l]	0.00017388[mg/l]	0.00079568[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	27924.9000000	12249.2000000	11724.1000000	7914.8000000	6016.0800000	6730.6200000	14355.8000000
Int RSD	0.67169086	1.06439604	1.40929368	0.80591929	0.84731752	7.52764233	1.21009627
Int SD	187.56900000	130.38000000	165.22700000	63.78690000	50.97530000	506.65700000	173.71900000
RelInt Mean	0.00147639	-0.00006767	-0.00008640	0.00002989	0.00000824	0.00071587	0.00019071
RelInt RSD	30.84090247	128.61360550	102.85488755	56.47478043	277.83048051	33.82741607	67.27771340
RelInt SD	0.00045533	0.00008704	0.00008887	0.00001688	0.00002290	0.00024216	0.00012831
Conc Mean	<1.05089000[mg/l]	<0.00154714[mg/l]	<0.00014624[mg/l]	<0.00164523[mg/l]	<0.00043556[mg/l]	0.01224960[mg/l]	<0.00032871[mg/l]
Conc RSD	3.04888238	45.07523560	1832.81365389	56.32057524	406.67000335	39.30038532	39.38236976
Conc SD	0.03204040[mg/l]	0.00069738[mg/l]	0.00268038[mg/l]	0.00092660[mg/l]	0.00177130[mg/l]	0.00481414[mg/l]	0.00012945[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	123551	5322.99000000	22010.4000000	2097590	34733300	685927	10425.4000000
Int RSD	4.11481898	0.33728788	4.98523425	0.15072822	1.14565561	0.51397306	5.55512498
Int SD	5083.90000000	17.95380000	1097.27000000	3161.66000000	397924	3525.48000000	579.14400000
RelInt Mean	0.00114661	-0.00007772	0.00008928	---	---	---	0.00141594
RelInt RSD	12.69934851	3.59779360	33.89305419	---	---	---	19.07722079
RelInt SD	0.00014561	0.00000280	0.00003026	---	---	---	0.00027012
Conc Mean	0.00971540[mg/l]	<0.00015664[mg/l]	0.00679405[mg/l]	2083440	34628100	671615	0.00347193[mg/l]
Conc RSD	13.98007287	135.03067602	74.56406709	---	---	---	25.72675716
Conc SD	0.00135822[mg/l]	0.00021151[mg/l]	0.00506592[mg/l]	3210.13000000	397284	3546.70000000	0.00089322[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	6547.65000000	25947.9000000	14337.2000000	5205.6400000	11805.0000000	5713.0300000	
Int RSD	0.42042565	0.20562242	1.60412772	2.42354446	0.79266921	0.81544995	
Int SD	27.52800000	53.35470000	229.98700000	126.16100000	93.57460000	46.58690000	
RelInt Mean	-0.00033091	0.00047140	0.00091277	0.00015873	0.00013633	-0.00007266	
RelInt RSD	7.25144449	6.77119838	11.56311591	36.72204477	34.38986283	25.84488882	
RelInt SD	0.00002400	0.00003192	0.00010555	0.00005829	0.00004688	0.00001878	
Conc Mean	<0.00010267[mg/l]	<0.00440345[mg/l]	<0.00948228[mg/l]	<0.00053604[mg/l]	<0.00025040[mg/l]	<0.00166442[mg/l]	
Conc RSD	54.96488853	4.49079699	18.97486680	395.25595105	72.44107381	108.28036193	
Conc SD	0.00005643[mg/l]	0.00019775[mg/l]	0.00179925[mg/l]	0.00211873[mg/l]	0.00018139[mg/l]	0.00180224[mg/l]	

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe

EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483428236131	File: met06_master011
Cal: 483428236001	Time: 24-OCT-2023 17:12
Caldate: 24-OCT-2023	

Standards: S19239, S14463 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0296	0.0359	1.000	1.086	mg/l	9	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	32093900	-3.88
Yttrium	A	2031070	1963540	-3.32
Yttrium	R	719619	668492	-7.10

Sample Name: CCV,S19239				Sample Type: Control Sample			
Measure Date: 2023-10-24 17:12:37			Recalculation Date:		State: Check failed		Quality: Failed
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	437854	24477.0000000	37455.9000000	154592	658617	883576	388714
Int RSD	3.09489008	0.55780120	0.74467841	0.40831285	0.29230342	1.01939052	0.16590861
Int SD	13551.1000000	136.53300000	278.92600000	631.21900000	1925.16000000	9007.09000000	644.91000000
RelInt Mean	0.01132800	0.01093340	0.01635800	0.07312300	0.33152900	1.33820000	0.19328800
RelInt RSD	5.38281250	1.37732087	0.86602885	0.28441940	0.18299304	0.30019579	0.49035791
RelInt SD	0.00060977	0.00015059	0.00014167	0.00020798	0.00060667	0.00401722	0.00094780
Conc Mean	0.46957700[mg/l]	1.02377000[mg/l]	1.03054000[mg/l]	0.97406500[mg/l]	1.03149000[mg/l]	51.91390000[mg/l]	1.05666000[mg/l]
Conc RSD	5.39958303	1.44105610	0.86225377	0.28881543	0.18319034	0.30084621	0.49207030
Conc SD	0.02535520[mg/l]	0.01475310[mg/l]	0.0088587[mg/l]	0.00281325[mg/l]	0.00188959[mg/l]	0.15618100[mg/l]	0.00519951[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	321454	959598	616630	111045	131047	2933950	258109
Int RSD	0.19456283	2.83023725	0.18241895	0.63518664	0.71201248	0.31021319	0.32360204
Int SD	625.43000000	27158.9000000	1124.85000000	705.34300000	933.07100000	9101.50000000	835.24600000
RelInt Mean	0.15863900	0.02780930	0.30867300	0.15782900	0.17504900	1.49758000	0.12867300
RelInt RSD	0.23462389	4.56947856	0.24504767	0.79224350	0.40299231	0.19107427	0.16273033
RelInt SD	0.00037221	0.00127074	0.00075640	0.00125039	0.00070543	0.00286149	0.00020939
Conc Mean	1.02604000[mg/l]	0.95113400[mg/l]	1.04485000[mg/l]	55.06940000[mg/l]	49.61360000[mg/l]	1.01890000[mg/l]	1.00429000[mg/l]
Conc RSD	0.23436026	4.58707185	0.24578456	0.80724504	0.40382476	0.19131711	0.16276872
Conc SD	0.00240463[mg/l]	0.04362920[mg/l]	0.00256808[mg/l]	0.44454500[mg/l]	0.20035200[mg/l]	0.00194933[mg/l]	0.00163467[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	504669	266903	82109.4000000	43468.8000000	31177.6000000	516025	727354
Int RSD	2.71726617	0.37129669	0.48815726	0.34065813	0.62704313	0.22387481	0.86075419
Int SD	13713.2000000	991.00200000	400.82300000	148.08000000	195.49700000	1155.25000000	6260.73000000
RelInt Mean	0.72899700	0.13043800	0.03594070	0.01818000	0.01287870	0.26193300	1.08999000
RelInt RSD	3.90307505	0.25008356	0.39852034	0.37320022	0.64052195	0.19733901	0.31714328
RelInt SD	0.02845330	0.00032620	0.00014323	0.00006785	0.00008249	0.00051690	0.00345683
Conc Mean	50.14510000[mg/l]	1.04411000[mg/l]	1.08609000[mg/l]	0.99490400[mg/l]	0.99497700[mg/l]	5.20522000[mg/l]	1.09922000[mg/l]
Conc RSD	3.99299234	0.25033665	0.39733724	0.37485024	0.64119472	0.19743642	0.31688561
Conc SD	2.00229000[mg/l]	0.00261379[mg/l]	0.00431544[mg/l]	0.00372940[mg/l]	0.00637974[mg/l]	0.01027700[mg/l]	0.00348327[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3518260	32539.1000000	204613	1963540	32093900	668492	665976
Int RSD	3.43345858	0.12769099	2.63306339	0.41559938	1.73734884	1.01418416	0.15262112
Int SD	120798	41.54950000	5387.59000000	8160.46000000	557583	6779.74000000	1016.42000000
RelInt Mean	0.10727100	0.01374960	0.00579273	---	---	---	0.33763000
RelInt RSD	4.94740424	0.17535710	4.44003087	---	---	---	0.28020970
RelInt SD	0.00530713	0.00002411	0.00025720	---	---	---	0.00094607
Conc Mean	0.99962600[mg/l]	1.06739000[mg/l]	0.96126800[mg/l]	1949410	31989600	654423	1.11507000[mg/l]
Conc RSD	4.95226215	0.18584679	4.47944798	---	---	---	0.28056176
Conc SD	0.04950410[mg/l]	0.00198371[mg/l]	0.04305950[mg/l]	8151.21000000	557127	6810.23000000	0.00312846[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	271924	118405	660861	295373	512023	119115	
Int RSD	0.96065445	3.79915544	0.11342188	0.35716196	0.03976774	0.40874533	
Int SD	2612.25000000	4498.39000000	749.56100000	1054.96000000	203.62000000	486.87700000	
RelInt Mean	0.40472800	0.14193600	0.33215600	0.14875000	0.25637500	0.05795440	
RelInt RSD	0.51755253	5.75015500	0.44097653	0.13412773	0.38323354	0.59395318	
RelInt SD	0.00209468	0.00816154	0.00146473	0.00019951	0.00098251	0.00034422	
Conc Mean	0.95251700[mg/l]	0.87201700[mg/l]	5.66981000[mg/l]	5.40067000[mg/l]	1.01133000[mg/l]	5.57054000[mg/l]	
Conc RSD	0.51717082	5.79869429	0.44414716	0.13419428	0.38466277	0.59300535	
Conc SD	0.00492614[mg/l]	0.05056560[mg/l]	0.02518230[mg/l]	0.00724739[mg/l]	0.00389021[mg/l]	0.03303360[mg/l]	

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe
EPA 6010B

Inst: MET06	IDF: 1.0
Seqnum: 483428236132	File: met06_master011
Cal: 483428236001	Time: 24-OCT-2023 17:15
Caldate: 24-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	33390100	34087600	2.09
Yttrium	A	2031070	2046590	0.76
Yttrium	R	719619	673282	-6.44

Sample Name: CCB,1					Sample Type: Control Sample		
Measure Date: 2023-10-24 17:15:51			Recalculation Date:		State: Checked		Quality:
	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	74893.8000000	14762.0000000	5010.78000000	12545.7000000	11741.4000000	9714.53000000	11252.3000000
Int RSD	0.38191145	0.33599986	0.42508152	0.99676383	2.09067914	0.67036285	1.29257130
Int SD	286.02800000	49.60030000	21.29990000	125.05100000	245.47500000	65.12260000	145.44400000
RelInt Mean	0.00002947	0.00047294	-0.00009434	0.00051749	0.00003459	0.00371536	0.00002511
RelInt RSD	24.89684373	64.47273550	6.12800990	7.26851637	282.84281981	1.37817331	154.83993007
RelInt SD	0.00000734	0.00030492	0.00000578	0.00003761	0.00009783	0.00005120	0.00003888
Conc Mean	<0.00022578[mg/l]	<0.00087967[mg/l]	<0.00070197[mg/l]	<0.00796308[mg/l]	<0.00007986[mg/l]	<0.00595416[mg/l]	<0.00018918[mg/l]
Conc RSD	135.14855432	3395.36438220	51.67193040	6.38887214	379.15002317	33.45089820	112.01917740
Conc SD	0.00030513[mg/l]	0.02986790[mg/l]	0.00036272[mg/l]	0.00050875[mg/l]	0.00030279[mg/l]	0.00199172[mg/l]	0.00021192[mg/l]
	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	11485.2000000	76416.3000000	19253.0000000	8591.19000000	16266.6000000	14432.7000000	7623.33000000
Int RSD	0.92768955	5.52138745	8.22183556	1.69140713	2.71691073	2.47813645	3.58760542
Int SD	106.54700000	4219.24000000	1582.95000000	145.31200000	441.94900000	357.66200000	273.49500000
RelInt Mean	0.00005308	0.00028468	0.00250026	0.00182884	0.00013359	0.00037447	0.00039198
RelInt RSD	38.48304604	42.49813823	29.57956373	2.14634413	250.43829115	45.29135768	30.75574899
RelInt SD	0.00002043	0.00012098	0.00073957	0.00003925	0.00033455	0.00016960	0.00012056
Conc Mean	<0.00034328[mg/l]	0.00612200[mg/l]	0.00493388[mg/l]	<0.38263100[mg/l]	<0.04129270[mg/l]	<0.00054022[mg/l]	0.00254231[mg/l]
Conc RSD	38.48300533	67.84906893	50.91206110	3.64654197	229.99900709	21.37668819	37.03053522
Conc SD	0.00013211[mg/l]	0.00415372[mg/l]	0.00251194[mg/l]	0.01395280[mg/l]	0.09497280[mg/l]	0.00011548[mg/l]	0.00094143[mg/l]
	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	27023.1000000	11901.8000000	11209.6000000	7666.55000000	5852.10000000	6546.32000000	14126.70000000
Int RSD	1.68423682	1.50012603	1.46442335	1.07890903	0.62015858	8.39079055	1.15059426
Int SD	455.13300000	178.54200000	164.15600000	82.71510000	36.29230000	549.28800000	162.54100000
RelInt Mean	0.00072476	0.00001359	-0.00014065	0.00002540	0.00002319	0.00072328	0.00021769
RelInt RSD	56.78457204	479.99381980	52.89762951	124.90029567	70.63377062	36.20647463	28.15284400
RelInt SD	0.00041155	0.00006524	0.00007440	0.00003172	0.00001638	0.00026188	0.00006128
Conc Mean	<1.10378000[mg/l]	<0.00089601[mg/l]	<0.00149842[mg/l]	<0.00139642[mg/l]	<0.00072030[mg/l]	0.01239700[mg/l]	<0.00030149[mg/l]
Conc RSD	2.62400116	58.33850440	150.14748869	125.06337635	175.86544402	41.99451480	20.50906823
Conc SD	0.02896320[mg/l]	0.00052272[mg/l]	0.00224984[mg/l]	0.00174641[mg/l]	0.00126675[mg/l]	0.00520606[mg/l]	0.00006183[mg/l]
	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	120739	5184.94000000	21446.9000000	2046590	34087600	673282	7973.76000000
Int RSD	2.38444910	0.60030010	3.67178940	0.43140737	3.69873502	0.90852421	3.37377849
Int SD	2878.96000000	31.12520000	787.48500000	8829.14000000	1260810	6116.93000000	269.01700000
RelInt Mean	0.00115352	-0.00006383	0.00009154	---	---	---	0.00035799
RelInt RSD	6.03165962	26.09331159	22.79621081	---	---	---	32.79103873
RelInt SD	0.00006958	0.00001666	0.00002087	---	---	---	0.00011739
Conc Mean	0.00977992[mg/l]	<0.00091997[mg/l]	0.00717265[mg/l]	2032910	33984600	659084	<0.00002768[mg/l]
Conc RSD	6.63601543	140.33548774	48.70556907	---	---	---	1402.65553869
Conc SD	0.00064900[mg/l]	0.00129105[mg/l]	0.00349348[mg/l]	8828.90000000	1260730	6285.70000000	0.00038823[mg/l]
	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	6453.25000000	25744.4000000	13652.4000000	5008.44000000	11410.2000000	5514.22000000	
Int RSD	2.68706466	1.71870776	2.11360640	2.96892845	1.04837777	0.17852335	
Int SD	173.40300000	442.47100000	288.55800000	148.69700000	119.62200000	9.84417000	
RelInt Mean	-0.00027675	0.00059307	0.00082011	0.00013137	0.00012224	-0.00009876	
RelInt RSD	62.83148747	35.60027922	16.15961839	48.93438380	16.15170653	10.81858259	
RelInt SD	0.00017388	0.00021114	0.00013253	0.00006429	0.00001974	0.00001068	
Conc Mean	<0.00002472[mg/l]	<0.00364966[mg/l]	<0.01108290[mg/l]	<0.00153047[mg/l]	<0.00019697[mg/l]	<0.00084051[mg/l]	
Conc RSD	1654.53162488	35.84032485	20.39321838	152.68054911	39.42322337	122.00211776	
Conc SD	0.00040894[mg/l]	0.00130805[mg/l]	0.00226016[mg/l]	0.00233673[mg/l]	0.00007765[mg/l]	0.00102544[mg/l]	

Instrument: MET09

Begun: 10/24/23 11:13

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
001	icp data	ICALBLK				10/24/23 11:13	1.0		
002	icp data	ICAL	L1			10/24/23 11:16	1.0	1	
003	icp data	ICAL	L2			10/24/23 11:19	1.0	2	
004	icp data	ICAL	L3			10/24/23 11:22	1.0	3	
005	icp data	ICAL	L4			10/24/23 11:25	1.0	4	
006	icp data	ICAL	L5			10/24/23 11:28	1.0	5	
007	icp data	ICAL	L6			10/24/23 11:32	1.0	6	
008	icp data	ICAL	L7			10/24/23 11:35	1.0	7	
009	icp data	ICAL	L8			10/24/23 11:38	1.0	8	
010	icp data	ICV				10/24/23 11:41	1.0	9	
011	icp data	ICB				10/24/23 11:44	1.0		
012	icp data	CRI				10/24/23 11:47	1.0	10	
013	icp data	ICV				10/24/23 11:50	1.0	11	
014	icp data	ICB				10/24/23 11:53	1.0		
015	icp data	ICSA				10/24/23 11:57	1.0	12	5:MGASMGCO3=1400
016	icp data	ICSAB				10/24/23 12:00	1.0	13	5:MGASMGCO3=1400
017	icp data	BLANK	QC1101917	Filtrate	324964	10/24/23 12:03	1.0	14	
018	icp data	LCS	QC1101918	Filtrate	324964	10/24/23 12:06	1.0	14	
019	icp data	SAMPLE	494166-001	Filtrate	324964	10/24/23 12:09	1.0	14	1:MG=1500
020	icp data	SAMPLE	494166-002	Filtrate	324964	10/24/23 12:12	1.0	14	1:MG=1700
021	icp data	MSS	494166-003	Filtrate	324964	10/24/23 12:15	1.0	14	3:MGASMGCO3=3700
022	icp data	MS	QC1101919	Filtrate	324964	10/24/23 12:19	1.0	14	3:MGASMGCO3=3700
023	icp data	MSD	QC1101920	Filtrate	324964	10/24/23 12:22	1.0	14	3:MGASMGCO3=3600
024	icp data	CCV				10/24/23 12:25	1.0	11	
025	icp data	CCB				10/24/23 12:28	1.0		
026	icp data	CCV				10/24/23 12:31	1.0	9	
027	icp data	CCB				10/24/23 12:34	1.0		
028	icp data	SAMPLE	494460-005	Filtrate	325029	10/24/23 12:37	100.0	14	
029	icp data	SAMPLE	494460-007	Filtrate	325029	10/24/23 12:40	100.0	14	
030	icp data	BLANK	QC1102289	Water	325078	10/24/23 12:53	1.0	14	
031	icp data	LCS	QC1102290	Water	325078	10/24/23 12:57	1.0	14	
032	icp data	MSS	493975-003	Water	325078	10/24/23 13:00	1.0	14	
033	icp data	MS	QC1102291	Water	325078	10/24/23 13:03	1.0	14	1:CAASCACO3=270
034	icp data	MSD	QC1102292	Water	325078	10/24/23 13:06	1.0	14	1:CAASCACO3=270
035	icp data	SAMPLE	493975-004	Water	325078	10/24/23 13:09	1.0	14	
036	icp data	SAMPLE	493975-005	Water	325078	10/24/23 13:12	1.0	14	
037	icp data	SAMPLE	493975-006	Water	325078	10/24/23 13:15	1.0	14	
038	icp data	CCV				10/24/23 13:18	1.0	9	
039	icp data	CCB				10/24/23 13:21	1.0		
040	icp data	SAMPLE	494095-001	Water	325078	10/24/23 13:25	10.0	14	1:CU=82
041	icp data	BLANK	QC1102285	TCLP Leachate	325077	10/24/23 13:28	1.0	14	1:NA=1100
042	icp data	LCS	QC1102286	TCLP Leachate	325077	10/24/23 13:31	1.0	14	1:NA=1000
043	icp data	MSS	493732-001	TCLP Leachate	325077	10/24/23 13:34	1.0	14	1:NA=1200
044	icp data	MS	QC1102287	TCLP Leachate	325077	10/24/23 13:37	1.0	14	2:NA=1100
045	icp data	MSD	QC1102288	TCLP Leachate	325077	10/24/23 13:40	1.0	14	2:NA=1100
046	icp data	SAMPLE	493853-001	TCLP Leachate	325077	10/24/23 13:43	1.0	14	1:NA=1100
047	icp data	SAMPLE	494016-002	TCLP Leachate	325077	10/24/23 13:46	1.0	14	1:NA=1100
048	icp data	SAMPLE	494416-001	TCLP Leachate	325077	10/24/23 13:50	1.0	14	1:NA=1100
049	icp data	BLANK	QC1102274	Wipe	325072	10/24/23 13:53	1.0	14	
050	icp data	CCV				10/24/23 13:56	1.0	9	

Instrument: MET09
Method: EPA 6010B

Begun: 10/24/23 11:13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	StdS Used	
051	icp data	CCB				10/24/23 13:59	1.0		
052	icp data	BS	QC1102275	Wipe	325072	10/24/23 14:02	1.0	14	
053	icp data	BSD	QC1102276	Wipe	325072	10/24/23 14:05	1.0	14	
054	icp data	SAMPLE	494421-001	Wipe	325072	10/24/23 14:08	1.0	14	
055	icp data	SAMPLE	494421-002	Wipe	325072	10/24/23 14:11	1.0	14	
056	icp data	SAMPLE	494421-003	Wipe	325072	10/24/23 14:15	1.0	14	1:ZN=57
057	icp data	SAMPLE	494421-004	Wipe	325072	10/24/23 14:18	1.0	14	
058	icp data	SAMPLE	494421-005	Wipe	325072	10/24/23 14:21	1.0	14	1:ZN=41
059	icp data	SAMPLE	494421-006	Wipe	325072	10/24/23 14:24	1.0	14	1:ZN=490
060	icp data	SAMPLE	494421-007	Wipe	325072	10/24/23 14:27	1.0	14	1:ZN=53
061	icp data	SAMPLE	494421-008	Wipe	325072	10/24/23 14:30	1.0	14	
062	icp data	CCV				10/24/23 14:33	1.0	9	
063	icp data	CCB				10/24/23 14:36	1.0		
064	icp data	SAMPLE	494421-009	Wipe	325072	10/24/23 14:40	1.0	14	
065	icp data	SAMPLE	494421-010	Wipe	325072	10/24/23 14:43	1.0	14	
066	icp data	SAMPLE	494421-011	Wipe	325072	10/24/23 14:46	1.0	14	
067	icp data	SAMPLE	494421-012	Wipe	325072	10/24/23 14:49	1.0	14	
068	icp data	SAMPLE	494421-013	Wipe	325072	10/24/23 14:52	1.0	14	
069	icp data	SAMPLE	494421-014	Wipe	325072	10/24/23 14:55	1.0	14	1:ZN=290
070	icp data	SAMPLE	494421-015	Wipe	325072	10/24/23 14:58	1.0	14	
071	icp data	SAMPLE	494421-016	Wipe	325072	10/24/23 15:01	1.0	14	1:ZN=290
072	icp data	SAMPLE	494421-017	Wipe	325072	10/24/23 15:04	1.0	14	1:ZN=62
073	icp data	SAMPLE	494421-018	Wipe	325072	10/24/23 15:08	1.0	14	
074	icp data	CCV				10/24/23 15:11	1.0	9	
075	icp data	CCB				10/24/23 15:14	1.0		
076	icp data	SAMPLE	494421-019	Wipe	325072	10/24/23 15:17	1.0	14	1:ZN=240
077	icp data	SAMPLE	494421-020	Wipe	325072	10/24/23 15:20	1.0	14	
078	icp data	BLANK	QC1102281	Wipe	325075	10/24/23 15:23	1.0	14	
079	icp data	BS	QC1102282	Wipe	325075	10/24/23 15:26	1.0	14	
080	icp data	BSD	QC1102283	Wipe	325075	10/24/23 15:29	1.0	14	
081	icp data	SAMPLE	494459-024	Wipe	325075	10/24/23 15:33	1.0	14	
082	icp data	SAMPLE	494459-025	Wipe	325075	10/24/23 15:36	1.0	14	
083	icp data	CCV				10/24/23 15:39	1.0	9	
084	icp data	CCB				10/24/23 15:42	1.0		
085	icp data	BLANK	QC1102278	Wipe	325074	10/24/23 15:45	1.0	14	
086	icp data	BS	QC1102279	Wipe	325074	10/24/23 15:48	1.0	14	
087	icp data	BSD	QC1102280	Wipe	325074	10/24/23 15:51	1.0	14	
088	icp data	SAMPLE	494421-021	Wipe	325074	10/24/23 15:54	1.0	14	
089	icp data	CCV				10/24/23 15:58	1.0	9	
090	icp data	CCB				10/24/23 16:01	1.0		
091	icp data	SAMPLE	494459-012	Wipe	325074	10/24/23 16:04	1.0	14	
092	icp data	SAMPLE	494459-013	Wipe	325074	10/24/23 16:07	1.0	14	1:ZN=41
093	icp data	SAMPLE	494459-014	Wipe	325074	10/24/23 16:10	1.0	14	
094	icp data	SAMPLE	494459-016	Wipe	325074	10/24/23 16:13	1.0	14	
095	icp data	SAMPLE	494459-017	Wipe	325074	10/24/23 16:16	1.0	14	1:PB=11
096	icp data	SAMPLE	494459-018	Wipe	325074	10/24/23 16:19	1.0	14	1:PB=11
097	icp data	SAMPLE	494459-019	Wipe	325074	10/24/23 16:22	1.0	14	1:PB=12
098	icp data	SAMPLE	494459-020	Wipe	325074	10/24/23 16:26	1.0	14	1:ZN=60
099	icp data	SAMPLE	494459-021	Wipe	325074	10/24/23 16:29	1.0	14	1:PB=12
100	icp data	SAMPLE	494459-022	Wipe	325074	10/24/23 16:32	1.0	14	2:ZN=280

Instrument: MET09					Begun: 10/24/23 11:13				
Method: EPA 6010B									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
101	icp data	CCV				10/24/23 16:37	1.0	9	
102	icp data	CCB				10/24/23 16:40	1.0		

SBW 10/24/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 029.

SBW 10/25/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 030 through 102.

Standards Used:

1=S19164 2=S19163 3=S19162 4=S19161 5=S19156 6=S19112 7=S19241 8=S18727 9=S19239 10=S19135 11=S16826 12=S19107 13=S19108 14=S14463

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-001	Client ID: ARCH-C8E-DG-5 TO 5.5-UP-C8.3-DG-231023-L-LA
Seqnum: 673428353054	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:08
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.290	64	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	464951	-10.38

U=USE

Label: 494421-001,325072 Rack/Tube: 1:31 Type: Sample
 Date Time: 10/24/2023 2:08:48 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal/Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00202963	0.00202963	mg/L	667.17943604	0.00004168	2.05351795	2.85025320	0.43		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00205079
Al 396.152	Al	n	2.07820950	2.07820950	mg/L	66194.94630243	0.00964681	0.46418846	301.19422751	0.46	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	2.06887005
As 188.980	As	n	0.04833253	0.04833253	mg/L	196.19783906	0.00119562	2.47373619	4.55679032	2.32	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.04802493
B 249.678	B	n	0.02970373	0.02970373	mg/L	1454.59151636	0.00100602	3.38685739	35.04299490	2.41	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.03083539
Ba 230.424	Ba	n	0.01609730	0.01609730	mg/L	1559.11987920	0.00021703	1.34826943	17.94413771	1.15	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.01617784
Be 313.107	Be	n	0.00022822	0.00022822	mg/L	522.62649580	0.00000432	1.89124209	8.88555002	1.70	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00022754
Ca 317.933	Ca-R	n	7.57230128	7.57230128	mg/L	101877.33643076	0.01210563	0.15986727	160.94275750	0.16	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	7.58528230
Cd 214.439	Cd	n	0.00102806	0.00102806	mg/L	306.32454841	0.00010542	10.25439907	16.50653051	5.39	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00114092
Co 230.786	Co	n	0.01251034	0.01251034	mg/L	494.32521799	0.00067820	5.42113809	23.95777326	4.85	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.01174408
Cr 267.716	Cr	n	0.02687253	0.02687253	mg/L	1608.14152204	0.00024707	0.91942837	14.24897876	0.89	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.02663272
Cu 324.754	Cu	n	4.02801961	4.02801961	mg/L	139591.43910679	0.03273073	0.81257631	1130.31731354	0.81	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	3.99124272
Fe 259.940	Fe	no	66.28011716	66.28011716	mg/L	3559178.59756986	0.53142073	0.80178002	28535.27033958	0.80	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	65.68064333
K 766.491	K-R	n	2.27290336	2.27290336	mg/L	3278.51953608	0.05209266	2.29189966	73.70859551	2.25	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.23124970
Li 670.783	Li-R	n	0.00265810	0.00265810	mg/L	313.68182901	0.00048321	18.17879385	50.56887694	16.12	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00210175
Mg 279.800	Mg-R	n	4.13876914	4.13876914	mg/L	9476.54774332	0.00715311	0.17283183	16.09370874	0.17	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	4.13160018
Mn 257.610	Mn	n	0.38678157	0.38678157	mg/L	145101.21690455	0.00043388	0.11217782	162.02975232	0.11	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.38653625
Mo 204.598	Mo	n	0.00999925	0.00999925	mg/L	79.24329099	0.00065183	6.51878336	4.40576124	5.56	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.01001665
Na 589.592	Na-R	n	6.03028063	6.03028063	mg/L	62670.10188303	0.03554980	0.58952155	364.95103582	0.58	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	6.06587999
Ni 231.604	Ni	n	0.11521867	0.11521867	mg/L	2391.74918188	0.00052546	0.45605349	10.48078185	0.44	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.11464053
P 177.434	P	n	1.36237931	1.36237931	mg/L	643.82255593	0.00414801	0.30446793	1.95187315	0.30		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.36679559
Pb 220.353	Pb	n	1.28997858	1.28997858	mg/L	10039.91826920	0.00327107	0.25357531	25.50576297	0.25	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.28641850
S 181.972	S	n	3.66809351	3.66809351	mg/L	4576.98542756	0.01219242	0.33239117	14.96404867	0.33		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.68156028
Sb 206.834	Sb	n	0.03269290	0.03269290	mg/L	47.99878209	0.00237203	7.25502655	5.76927806	12.02	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.03515369
Se 196.026	Se	n	0.01658737	0.01658737	mg/L	92.42047899	0.00308029	18.57007257	7.62787259	8.25	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01415172
Si 251.611	Si	n	4.32829104	4.32829104	mg/L	32775.12854830	0.01945062	0.44938332	146.72263069	0.45		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	4.33925292
Sn 189.925	Sn	n	0.09912260	0.09912260	mg/L	804.73134830	0.00233863	2.35933297	18.31635106	2.28	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.09642276
Sr 421.552	Sr-R	n	0.01528033	0.01528033	mg/L	6982.44321058	0.00013249	0.86707054	60.14733910	0.86	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01540788
Ti 334.941	Ti	n	0.13383355	0.13383355	mg/L	40442.07663668	0.01001750	7.48504038	2997.02957453	7.41	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.12262082
Tl 190.794	Tl	nu	-0.01146115	-0.01146115	mg/L	-18.55711576	0.00041525	3.62308027	0.94424964	5.09	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.01106017
V 292.401	V	n	0.00812419	0.00812419	mg/L	174.81134314	0.00045178	5.56087611	14.46862578	8.28	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00847850
Zn 206.200	Zn	n	21.47788070	21.47788070	mg/L	857327.21908295	0.25432088	1.18410602	10144.46688191	1.18	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	21.18513505
Y 371.029	Y		0.90	0.90	Ratio	464951.29	0.01	1.65	7674.36	1.65		-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R		1.02	1.02	Ratio	127612.33	0.01	0.70	896.43	0.70		-	-	-	Fitted	-	-	1.02

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-002	Client ID: ARCH-C10E-DG-5 TO 5.5-231023-L-FB
Seqnum: 673428353055	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:11
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.5051	25	0.50	0.12	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	465896	-10.20

U=USE

Label: 494421-002,325072 Rack: Tube: 1:32 Type: Sample

Date Time: 10/24/2023 2:11:55 PM Weight: 1 Volume: 1

Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -

LIMS ID: Customer: Customer Ref: -

Sample Date Time: Sample Site: Description: -

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00018034	0.00018034	mg/L	541.24439193	0.00014923	82.74800263	10.20504027	1.89		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.000345
Al 396.152	Al	n	0.68456020	0.68456020	mg/L	22670.45240789	0.00809364	1.18231233	252.70093435	1.11	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.676301
As 188.980	As	n	0.03389350	0.03389350	mg/L	137.90094737	0.00154649	4.56279036	5.89404053	4.27	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.032218
B 249.678	B	n	0.02379915	0.02379915	mg/L	1265.33726728	0.00046009	1.93320264	16.02625570	1.27	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.023273
Ba 230.424	Ba	n	0.00841377	0.00841377	mg/L	920.37422215	0.00009069	1.07790157	7.49829547	0.81	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.008513
Be 313.107	Be	n	0.00004009	0.00004009	mg/L	131.35085547	0.00001205	30.04709617	24.80106056	18.88	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.000049
Ca 317.933	Ca-R	n	6.40005147	6.40005147	mg/L	86281.25756208	0.04508430	0.70443646	599.38971126	0.69	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	6.365055
Cd 214.439	Cd	nu	0.00010975	0.00010975	mg/L	107.93221910	0.00012251	111.62916424	19.18229659	17.77	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.000228
Co 230.786	Co	n	0.00847711	0.00847711	mg/L	350.47745761	0.00046216	5.45189813	16.32608831	4.66	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.008397
Cr 267.716	Cr	n	0.02260260	0.02260260	mg/L	1360.29864313	0.00044065	1.94956690	25.41287496	1.87	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.022567
Cu 324.754	Cu	n	0.17551466	0.17551466	mg/L	6554.17985667	0.00207480	1.18212251	71.65071390	1.09	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.173292
Fe 259.940	Fe	no	39.03581472	39.03581472	mg/L	2096260.58287746	0.61336605	1.57129050	32935.42171525	1.57	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	38.35904
K 766.491	K-R	n	1.84058120	1.84058120	mg/L	2685.01254253	0.04423955	2.40356403	62.59681595	2.33	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	1.819259
Li 670.783	Li-R	n	0.00277868	0.00277868	mg/L	315.94812298	0.00040690	14.64356593	42.58266956	13.48	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.002991
Mg 279.800	Mg-R	n	2.90016198	2.90016198	mg/L	6662.87448531	0.02486954	0.85752232	55.95371016	0.84	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	2.884335
Mn 257.610	Mn	n	0.26616194	0.26616194	mg/L	100014.28826045	0.00403169	1.51474910	1505.59675427	1.51	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.261506
Mo 204.598	Mo	n	0.00435944	0.00435944	mg/L	40.56753165	0.00048065	11.02551372	3.24874823	8.01	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.004649
Na 589.592	Na-R	n	4.98921268	4.98921268	mg/L	52062.38938779	0.02856786	0.57259257	293.27504943	0.56	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.004483
Ni 231.604	Ni	n	0.05976217	0.05976217	mg/L	1282.58760227	0.00081493	1.36362294	16.25457902	1.27	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.059477
P 177.434	P	n	1.15284059	1.15284059	mg/L	545.20872046	0.00622931	0.54034432	2.93124315	0.54		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.147406
Pb 220.353	Pb	n	0.50514720	0.50514720	mg/L	3920.60175193	0.00416903	0.82531069	32.50755285	0.83	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.500469
S 181.972	S	n	3.12089499	3.12089499	mg/L	3909.01461965	0.01186838	0.38028755	14.56634187	0.37		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.134531
Sb 206.834	Sb	n	0.01556869	0.01556869	mg/L	3.13205269	0.00390616	25.08987725	9.50060277	> 100.00	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.014225
Se 196.026	Se	n	0.01909157	0.01909157	mg/L	104.44098866	0.00113144	5.92636686	2.80183462	2.68	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.019525
Si 251.611	Si	n	1.87006919	1.87006919	mg/L	14257.93193753	0.01001753	0.53567697	75.56563777	0.53		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	1.866646
Sn 189.925	Sn	n	0.05352883	0.05352883	mg/L	445.62170421	0.00190025	3.54996094	14.88292805	3.34	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.051513
Sr 421.552	Sr-R	n	0.01277854	0.01277854	mg/L	5841.27356727	0.00004557	0.35658167	20.68566658	0.35	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.012728
Ti 334.941	Ti	n	0.07406231	0.07406231	mg/L	22561.46510382	0.00808397	10.91509927	2418.55960435	10.72	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.065670
Tl 190.794	Tl	nu	-0.01035170	-0.01035170	mg/L	-16.15064151	0.00153814	14.85879839	3.49764612	21.66	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.012085
V 292.401	V	n	0.00403140	0.00403140	mg/L	78.89579144	0.00049947	12.38951297	15.99607988	20.27	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.003534
Zn 206.200	Zn	n	7.66654691	7.66654691	mg/L	306172.07700777	0.04763335	0.62131421	1900.02054596	0.62	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	7.614573
Y 371.029	Y		0.90	0.90	Ratio	465896.43	0.02	1.84	8593.66	1.84		-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R		1.04	1.04	Ratio	130369.84	0.02	1.71	2226.34	1.71		-	-	-	Fitted	-	-	1.06

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-003	Client ID: ARCH-C8E-PS-5.5-231023-L-G
Seqnum: 673428353056	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:15
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.08 ft2 ⇒ 50.0 ml = 46.18 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.497	69	0.50	0.12	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	463443	-10.67

U=Use

Label: 494421-003,325072 Rack: Tube: 1:33 Type: Sample
 Date Time: 10/24/2023 2:15:03 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal/Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00060670	0.00060670	mg/L	569.08178612	0.00038324	63.16807721	26.20822749	4.61		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.000936
Al 396.152	Al	n	2.96019005	2.96019005	mg/L	93746.17812258	0.07293845	2.46397860	2277.29613187	2.43	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	2.877275
As 188.980	As	n	0.06817022	0.06817022	mg/L	275.96534254	0.00303178	4.44736770	11.55483880	4.19	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.064675
B 249.678	B	n	0.02685609	0.02685609	mg/L	1334.55397711	0.00060217	2.24221093	20.97550732	1.57	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.026172
Ba 230.424	Ba	n	0.02869714	0.02869714	mg/L	2605.14464109	0.00078269	2.72741674	64.71173521	2.48	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.027871
Be 313.107	Be	nu	0.00000257	0.00000257	mg/L	63.13984219	0.00001835	715.01484355	37.77010977	59.82	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.000026
Ca 317.933	Ca-R	n	8.33674181	8.33674181	mg/L	112053.57614808	0.07155464	0.85830464	951.30943523	0.85	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	8.418245
Cd 214.439	Cd	n	0.00046172	0.00046172	mg/L	287.58652517	0.00005648	12.23344969	8.84403181	3.08	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.000445
Co 230.786	Co	n	0.01838171	0.01838171	mg/L	703.48792065	0.00027396	1.49038299	9.67766369	1.38	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.018122
Cr 267.716	Cr	n	0.03447567	0.03447567	mg/L	2048.48037938	0.00087543	2.53926282	50.48678676	2.46	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.033791
Cu 324.754	Cu	n	0.62383566	0.62383566	mg/L	22025.99982784	0.01367536	2.19214120	472.26239455	2.14	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.608225
Fe 259.940	Fe	no	98.56629998	98.56629998	mg/L	5292823.66011683	3.73060990	3.78487363	200319.54959682	3.78	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	94.260475
K 766.491	K-R	n	2.33802069	2.33802069	mg/L	3348.06920002	0.04305926	1.84169729	60.92677146	1.82	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.387690
Li 670.783	Li-R	n	0.00394466	0.00394466	mg/L	460.90524888	0.00005440	1.37897064	5.69260985	1.24	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.003957
Mg 279.800	Mg-R	n	3.93992857	3.93992857	mg/L	9063.65085415	0.02584420	0.65595615	58.14660467	0.64	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.969745
Mn 257.610	Mn	n	0.59455010	0.59455010	mg/L	222744.12422497	0.01034810	1.74049277	3864.40550393	1.73	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.582774
Mo 204.598	Mo	n	0.00486076	0.00486076	mg/L	45.19831998	0.00175828	36.17298054	11.88434245	26.29	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.005132
Na 589.592	Na-R	n	5.84717618	5.84717618	mg/L	60690.21671998	0.06273075	1.07283830	643.98809872	1.06	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.916025
Ni 231.604	Ni	n	0.09635650	0.09635650	mg/L	2019.32170221	0.00206238	2.14035913	41.13605992	2.04	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.094310
P 177.434	P	n	1.30737769	1.30737769	mg/L	617.95542119	0.01863310	1.42522695	8.76793033	1.42		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.285990
Pb 220.353	Pb	n	1.49652788	1.49652788	mg/L	11651.79507089	0.02891100	1.93187203	225.43016339	1.93	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.464025
S 181.972	S	n	3.76525810	3.76525810	mg/L	4691.58251300	0.02535363	0.67335714	31.11712387	0.66		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.736805
Sb 206.834	Sb	n	0.00896509	0.00896509	mg/L	-5.51116577	0.00846118	94.37914807	20.57934354	> 100.00	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.002145
Se 196.026	Se	n	0.02047300	0.02047300	mg/L	94.53054145	0.00128297	6.26666603	3.17709635	3.36	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.019784
Si 251.611	Si	n	4.17635399	4.17635399	mg/L	31596.36814712	0.08976880	2.14945387	677.15662490	2.14		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	4.076751
Sn 189.925	Sn	n	0.05810561	0.05810561	mg/L	485.99490496	0.00243692	4.19394183	19.08611573	3.93	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.055375
Sr 421.552	Sr-R	n	0.01694298	0.01694298	mg/L	7741.22323664	0.00017094	1.00892943	77.60320837	1.00	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.017135
Ti 334.941	Ti	n	0.16871372	0.16871372	mg/L	50875.36679294	0.00849243	5.03363579	2540.76247681	4.99	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.174281
Tl 190.794	Tl	nu	-0.01123112	-0.01123112	mg/L	-17.91334396	0.00139456	12.41688924	3.17114784	17.70	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.009622
V 292.401	V	n	0.01424151	0.01424151	mg/L	325.83126754	0.00054877	3.85330663	17.57491800	5.39	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.013801
Zn 206.200	Zn	no	57.44642993	57.44642993	mg/L	2292367.14321388	1.65791288	2.88601552	66131.58295269	2.88	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	55.532065
Y 371.029	Y	0.89	0.89	Ratio	463443.09	0.01	1.32	6129.62	1.32			-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R	1.03	1.03	Ratio	130009.64	0.01	0.65	840.84	0.65			-	-	-	Fitted	-	-	1.03

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-004	Client ID: ARCH-C10E-PS-5.5-231023-L-G
Seqnum: 673428353057	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:18
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.11 ft2 ⇒ 50.0 ml = 45.03 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.570	71	0.50	0.12	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	462238	-10.91

U=USE

Label: 494421-004,325072 Rack/Tube: 1:34 Type: Sample
 Date Time: 10/24/2023 2:18:10 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00063012	0.00063012	mg/L	570.97121023	0.00047884	75.99187820	32.74576781	5.74		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00114446
Al 396.152	Al	n	1.68699226	1.68699226	mg/L	53989.87640628	0.01871384	1.10930222	584.28663981	1.08	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.66550176
As 188.980	As	n	0.03675676	0.03675676	mg/L	154.51996058	0.00133875	3.64218738	5.10229588	3.30	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.03523621
B 249.678	B	n	0.02561533	0.02561533	mg/L	1299.77768831	0.00062394	2.43579493	21.73371781	1.67	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02545595
Ba 230.424	Ba	n	0.01150938	0.01150938	mg/L	1182.27900830	0.00039409	3.42408724	32.58290381	2.76	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.01109180
Be 313.107	Be	n	0.00003575	0.00003575	mg/L	129.40583722	0.00002397	67.03562115	49.33618079	38.13	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00001396
Ca 317.933	Ca-R	n	9.51392481	9.51392481	mg/L	127698.67510926	0.07306679	0.76799839	971.41323126	0.76	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	9.58666750
Cd 214.439	Cd	n	0.00047886	0.00047886	mg/L	261.45139112	0.00002657	5.54800896	4.15976832	1.59	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00049030
Co 230.786	Co	n	0.01352229	0.01352229	mg/L	531.10605730	0.00028700	2.12238583	10.13821020	1.91	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.01333110
Cr 267.716	Cr	n	0.02575604	0.02575604	mg/L	1544.94091802	0.00090927	3.53032654	52.43863185	3.39	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.02679692
Cu 324.754	Cu	n	1.01893985	1.01893985	mg/L	35672.91836563	0.01300905	1.27672411	449.25224336	1.26	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.00748511
Fe 259.940	Fe	no	86.04583283	86.04583283	mg/L	4620522.40839273	0.80286114	0.93306220	43110.58700517	0.93	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	85.22614406
K 766.491	K-R	n	2.37534928	2.37534928	mg/L	3410.21006702	0.01946435	0.81943108	27.54111229	0.81	41.87839682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.37455931
Li 670.783	Li-R	n	0.00304845	0.00304845	mg/L	362.67004219	0.00089536	29.37105042	93.70124101	25.84	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00284998
Mg 279.800	Mg-R	n	4.12163998	4.12163998	mg/L	9458.28897775	0.02350511	0.57028541	52.88390559	0.56	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	4.14374526
Mn 257.610	Mn	n	0.50707644	0.50707644	mg/L	190056.51145512	0.00524437	1.03423736	1958.46432404	1.03	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.50188123
Mo 204.598	Mo	n	0.00178344	0.00178344	mg/L	24.07970263	0.00102027	57.20774679	6.89605954	28.64	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00084079
Na 589.592	Na-R	n	5.82681415	5.82681415	mg/L	60523.31497398	0.06397242	1.09789705	656.73502607	1.09	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.88481556
Ni 231.604	Ni	n	0.04670393	0.04670393	mg/L	1027.40587172	0.00006716	0.14379963	1.33957240	0.13	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.04669003
P 177.434	P	n	1.31669233	1.31669233	mg/L	622.35682054	0.00072161	0.05480450	0.33955689	0.05		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.31682060
Pb 220.353	Pb	n	1.57031868	1.57031868	mg/L	12228.37032050	0.00982155	0.62544954	76.58239261	0.63	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.55899910
S 181.972	S	n	3.85059263	3.85059263	mg/L	4798.18609639	0.02119325	0.55038928	26.01098334	0.54		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.87503542
Sb 206.834	Sb	nu	0.00232329	0.00232329	mg/L	-23.34294363	0.00439674	189.24589856	10.69377693	45.81	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00275362
Se 196.026	Se	n	0.01646038	0.01646038	mg/L	87.66421206	0.00072423	4.39981350	1.79343858	2.05	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01566024
Si 251.611	Si	n	3.76966160	3.76966160	mg/L	28541.73307706	0.02568008	0.68123042	193.71359419	0.68		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	3.75454225
Sn 189.925	Sn	n	0.05612592	0.05612592	mg/L	469.46033431	0.00020505	0.36533628	1.60595474	0.34	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.05601152
Sr 421.552	Sr-R	n	0.01666621	0.01666621	mg/L	7620.43460455	0.00007814	0.46885639	35.47364794	0.47	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01667605
Ti 334.941	Ti	n	0.15853759	0.15853759	mg/L	47831.76200721	0.01636928	10.32517349	4897.35389033	10.24	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.15153588
Tl 190.794	Tl	nu	-0.01099580	-0.01099580	mg/L	-17.43777466	0.00185143	16.83756513	4.21004553	24.14	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.01140737
V 292.401	V	n	0.00851497	0.00851497	mg/L	160.68170749	0.00034637	4.06782261	11.09299323	6.90	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00891383
Zn 206.200	Zn	n	3.22164947	3.22164947	mg/L	129296.62592182	0.01310696	0.40683995	522.81627160	0.40	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	3.20767818
Y 371.029	Y	0.89	0.89	Ratio	462238.03	0.01	1.54	7110.18	1.54			-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R	1.03	1.03	Ratio	129209.55	0.01	0.54	701.45	0.54			-	-	-	Fitted	-	-	1.02

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-005	Client ID: ARCH-C9E-DG-5.5 TO 6-231023-L-FB
Seqnum: 673428353058	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:21
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.7515	38	0.50	0.12	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	462029	-10.95

U=USE

Label: 494421-005,325072

Rack/Tube: 1:35

Type: Sample

Date Time: 10/24/2023 2:21:17 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal/Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00045251	0.00045251	mg/L	558.67408206	0.00019823	43.80661476	13.55597346	2.43		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00054079
Al 396.152	Al	n	1.02418194	1.02418194	mg/L	33295.20105325	0.01828691	1.78551390	570.95690406	1.71	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.00324802
As 188.980	As	n	0.04099665	0.04099665	mg/L	170.85094209	0.00223001	5.43949072	8.49909694	4.97	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.03983157
B 249.678	B	n	0.02544318	0.02544318	mg/L	1293.00518487	0.00045793	1.79981278	15.95114802	1.23	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02580677
Ba 230.424	Ba	n	0.01073572	0.01073572	mg/L	1118.38858807	0.00011360	1.05811081	9.39193878	0.84	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.01075136
Be 313.107	Be	n	0.00013906	0.00013906	mg/L	342.26472909	0.00001076	7.73722965	22.14886736	6.47	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00014795
Ca 317.933	Ca-R	n	8.83178449	8.83178449	mg/L	118629.72284362	0.04382330	0.49619988	582.62499474	0.49	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	8.78514778
Cd 214.439	Cd	n	0.00048262	0.00048262	mg/L	265.13461701	0.00012355	25.60068294	19.34565033	7.30	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00044530
Co 230.786	Co	n	0.02261763	0.02261763	mg/L	852.47512518	0.00053685	2.37358031	18.96434484	2.22	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.02205494
Cr 267.716	Cr	n	0.05260588	0.05260588	mg/L	3093.35517925	0.00047791	0.90847808	27.56170464	0.89	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.05210938
Cu 324.754	Cu	n	0.44399162	0.44399162	mg/L	15817.33540634	0.00752134	1.69402817	259.74072251	1.64	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.43540829
Fe 259.940	Fe	no	86.80490594	86.80490594	mg/L	4661280.01486915	1.31563351	1.51562115	70644.51122241	1.52	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	85.44545365
K 766.491	K-R	n	2.03050491	2.03050491	mg/L	2921.74717027	0.03276525	1.61365025	46.36123744	1.59	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.02782701
Li 670.783	Li-R	n	0.00227674	0.00227674	mg/L	281.99556796	0.00021604	9.48890244	22.60876797	8.02	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00238779
Mg 279.800	Mg-R	n	3.27438718	3.27438718	mg/L	7553.55427737	0.02601022	0.79435380	58.52012054	0.77	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.24601468
Mn 257.610	Mn	n	0.60268078	0.60268078	mg/L	225760.97437987	0.01267065	2.10238094	4731.73879986	2.10	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.58856918
Mo 204.598	Mo	n	0.00452861	0.00452861	mg/L	42.64353158	0.00122956	27.15103588	8.31071393	19.49	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00329677
Na 589.592	Na-R	n	5.61817220	5.61817220	mg/L	58378.67359361	0.02354035	0.41900380	241.66313163	0.41	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.61556976
Ni 231.604	Ni	n	0.16117180	0.16117180	mg/L	3310.69216837	0.00247802	1.53750496	49.42658553	1.49	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.15831882
P 177.434	P	n	1.17755273	1.17755273	mg/L	556.87932483	0.01243404	1.05592254	5.85092345	1.05		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.16379404
Pb 220.353	Pb	n	0.75146510	0.75146510	mg/L	5844.87258665	0.00968763	1.28916577	75.53816628	1.29	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.74159018
S 181.972	S	n	3.67425260	3.67425260	mg/L	4581.51635082	0.01199161	0.32636870	14.71759152	0.32		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.66200137
Sb 206.834	Sb	nu	-0.01036408	-0.01036408	mg/L	-53.95284110	0.00221064	21.32981280	5.37673131	9.97	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.01278846
Se 196.026	Se	n	0.01667898	0.01667898	mg/L	87.83778752	0.00156890	9.40644327	3.88514665	4.42	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01610267
Si 251.611	Si	n	2.49010110	2.49010110	mg/L	18888.61786737	0.001152125	0.46268212	86.90872896	0.46		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	2.47706753
Sn 189.925	Sn	n	0.06968926	0.06968926	mg/L	575.75678455	0.00243192	3.48966377	19.04699491	3.31	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.06702713
Sr 421.552	Sr-R	n	0.01542495	0.01542495	mg/L	7053.95915683	0.00004733	0.30684285	21.48666630	0.30	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01537338
Ti 334.941	Ti	n	0.10646923	0.10646923	mg/L	32253.98367961	0.01641495	15.41755302	4911.01678025	15.23	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.11267708
Tl 190.794	Tl	nu	-0.01048278	-0.01048278	mg/L	-16.28793289	0.00196340	18.72980558	4.46467833	27.41	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.00822597
V 292.401	V	n	0.00565205	0.00565205	mg/L	67.13818555	0.00036614	6.47802331	11.72605676	17.47	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00561398
Zn 206.200	Zn	no	41.01944369	41.01944369	mg/L	1637005.72123550	0.67416476	1.64352488	26891.39067894	1.64	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	40.25423656
Y 371.029	Y	0.89	0.89	Ratio	462029.48	0.01	1.22	5625.35	1.22			-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R	1.02	1.02	Ratio	128353.73	0.01	0.93	1189.01	0.93			-	-	-	Fitted	-	-	1.03

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-006	Client ID: ARCH-C9E-DG-5.5 TO 6-DN-C9.6-DG-231023-L-LA
Seqnum: 673428353059	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:24
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.754	88	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	452600	-12.76

U=USE

Label: 494421-006,325072

Rack/Tube: 1:36

Type: Sample

Date Time: 10/24/2023 2:24:25 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal/Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00916170	0.00916170	mg/L	1156.24532974	0.00013273	1.44878897	9.07712490	0.79		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.009062
Al 396.152	Al	n	1.25276262	1.25276262	mg/L	40406.33023566	0.02088461	1.66708399	652.06253668	1.61	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.229336
As 188.980	As	n	0.03265668	0.03265668	mg/L	130.80331743	0.00104828	3.20998837	3.99522882	3.05	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.033106
B 249.678	B	n	0.02991700	0.02991700	mg/L	1489.96505167	0.00009777	0.32679715	3.40556853	0.23	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.029804
Ba 230.424	Ba	n	0.01122168	0.01122168	mg/L	1150.25121008	0.00018983	1.69159344	15.69448067	1.36	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.011006
Be 313.107	Be	n	0.00094281	0.00094281	mg/L	1986.86564373	0.00003713	3.93847489	76.44155892	3.85	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.000900
Ca 317.933	Ca-R	n	9.47181910	9.47181910	mg/L	127112.71822635	0.01543182	0.16292349	205.16397391	0.16	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	9.454072
Cd 214.439	Cd	n	0.00463625	0.00463625	mg/L	776.43890105	0.00009207	1.98592007	14.41636408	1.86	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.004530
Co 230.786	Co	n	0.00329587	0.00329587	mg/L	166.46080394	0.00010250	3.10980750	3.62068587	2.18	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.003288
Cr 267.716	Cr	n	0.01893368	0.01893368	mg/L	1147.96531828	0.00063304	3.34347287	36.50817967	3.18	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.018330
Cu 324.754	Cu	n	0.28001792	0.28001792	mg/L	10166.80606902	0.00308205	1.10066265	106.43505724	1.05	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.276607
Fe 259.940	Fe	n	18.59975558	18.59975558	mg/L	998923.35320840	0.32531365	1.74902113	17468.10485081	1.75	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	18.234410
K 766.491	K-R	n	2.37604533	2.37604533	mg/L	3454.81318950	0.02056568	0.86554243	29.09944119	0.84	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.390650
Li 670.783	Li-R	n	0.00504566	0.00504566	mg/L	547.48910488	0.00017731	3.51412859	18.55592672	3.39	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.005120
Mg 279.800	Mg-R	n	3.34458959	3.34458959	mg/L	7643.06488482	0.01316181	0.39352548	29.61262448	0.39	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.351190
Mn 257.610	Mn	n	0.11267444	0.11267444	mg/L	42665.89525008	0.00049724	0.44130773	185.69018923	0.44	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.112350
Mo 204.598	Mo	n	0.00570410	0.00570410	mg/L	49.28995338	0.00094266	16.52596518	6.37148804	12.93	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.006790
Na 589.592	Na-R	n	5.82550729	5.82550729	mg/L	60701.62096173	0.03226790	0.55390710	331.25929866	0.55	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.857760
Ni 231.604	Ni	n	0.04040859	0.04040859	mg/L	894.49043646	0.00077956	1.92918512	15.54900646	1.74	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.039510
P 177.434	P	n	1.25411988	1.25411988	mg/L	592.89561363	0.01821215	1.45218557	8.56984887	1.45		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.234120
Pb 220.353	Pb	n	1.75385893	1.75385893	mg/L	13654.54216397	0.01911485	1.08987401	149.04582335	1.09	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.732150
S 181.972	S	n	3.44566465	3.44566465	mg/L	4310.41056488	0.01455201	0.42232822	17.86003650	0.41		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.429220
Sb 206.834	Sb	nu	-0.45741739	-0.45741739	mg/L	-1149.79545771	0.00501105	1.09550933	12.18791292	1.06	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.451600
Se 196.026	Se	n	0.02414887	0.02414887	mg/L	121.32176167	0.00585206	24.23325566	14.49175751	11.94	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.019000
Si 251.611	Si	n	3.25065373	3.25065373	mg/L	24689.62012698	0.06770487	2.08280790	510.72089463	2.07		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	3.174230
Sn 189.925	Sn	n	0.04243354	0.04243354	mg/L	357.35606989	0.00034715	0.81809868	2.71889251	0.76	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.042240
Sr 421.552	Sr-R	n	0.01921981	0.01921981	mg/L	8778.32632495	0.00020761	1.08019531	94.24982125	1.07	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.019380
Ti 334.941	Ti	n	0.04583190	0.04583190	mg/L	14116.31280377	0.00256001	5.58565077	765.90256747	5.43	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.043600
Tl 190.794	Tl	nu	-0.01232968	-0.01232968	mg/L	-20.67176569	0.00093908	7.61638570	2.13540990	10.33	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.012320
V 292.401	V	n	0.00476237	0.00476237	mg/L	127.56040534	0.00035439	7.44151664	11.34981296	8.90	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.005080
Zn 206.200	Zn	no	493.19643409	493.19643409	mg/L	19673030.98131230	5.09374861	1.03280321	203181.76085794	1.03	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	498.1740
Y 371.029	Y		0.87	0.87	Ratio	452600.00	0.01	1.56	7071.77	1.56		-	-	-	Fitted	-	-	0.86
Y 371.029	Y-R		0.99	0.99	Ratio	124499.63	0.01	0.77	954.31	0.77		-	-	-	Fitted	-	-	1.00

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-007	Client ID: ARCH-C8E-EXT-6 TO 7-231023-L-WF
Seqnum: 673428353060	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:27
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.686	84	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	462847	-10.79

U=USE

Label: 494421-007,325072

Rack/Tube: 1:37

Type: Sample

Date Time: 10/24/2023 2:27:32 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal/Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00068175	0.00068175	mg/L	575.27221853	0.00027742	40.69205329	18.97141009	3.30		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00086251
Al 396.152	Al	n	0.87541212	0.87541212	mg/L	28633.80191634	0.00996828	1.13869534	311.23116578	1.09	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.86560179
As 188.980	As	n	0.02451454	0.02451454	mg/L	103.45747035	0.00030561	1.24664571	1.16475038	1.13	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.02471015
B 249.678	B	n	0.02452780	0.02452780	mg/L	1284.18276839	0.00061962	2.52620853	21.58346178	1.68	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02429003
Ba 230.424	Ba	n	0.01003876	0.01003876	mg/L	1056.07393181	0.00035064	3.49286251	28.99042510	2.75	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00972973
Be 313.107	Be	n	0.00011942	0.00011942	mg/L	296.23912850	0.00001062	8.89052010	21.85634222	7.38	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00012611
Ca 317.933	Ca-R	n	6.75861070	6.75861070	mg/L	91052.53886231	0.05189132	0.76778081	689.88813466	0.76	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	6.72557116
Cd 214.439	Cd	n	0.00041440	0.00041440	mg/L	177.48535328	0.00006071	14.65032932	9.50590476	5.36	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00043230
Co 230.786	Co	n	0.01360680	0.01360680	mg/L	532.23318321	0.00016501	1.21269229	5.82899120	1.10	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.01368872
Cr 267.716	Cr	n	0.03055284	0.03055284	mg/L	1819.40130333	0.00034794	1.13880199	20.06583179	1.10	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.03022420
Cu 324.754	Cu	n	1.06505854	1.06505854	mg/L	37271.68860404	0.01831602	1.71971936	632.52210277	1.70	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.04634454
Fe 259.940	Fe	no	50.21470847	50.21470847	mg/L	2696525.13457263	0.51671415	1.02900956	27745.58284008	1.03	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	49.64567679
K 766.491	K-R	n	1.95767125	1.95767125	mg/L	2843.57395040	0.03625024	1.85170227	51.29233716	1.80	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	1.91648244
Li 670.783	Li-R	n	0.00229293	0.00229293	mg/L	269.17905871	0.00022630	9.86946385	23.68272297	8.80	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00233370
Mg 279.800	Mg-R	n	3.14131277	3.14131277	mg/L	7216.20790303	0.02815876	0.89640116	63.35410995	0.88	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.13114994
Mn 257.610	Mn	n	0.41931676	0.41931676	mg/L	157225.55490363	0.00495283	1.18116660	1849.58964990	1.18	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.41365546
Mo 204.598	Mo	n	0.00263965	0.00263965	mg/L	29.15340302	0.00152351	57.71652420	10.29753812	35.32	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00152554
Na 589.592	Na-R	n	5.05980472	5.05980472	mg/L	52755.88190244	0.02942656	0.58157505	302.09039315	0.57	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.07084575
Ni 231.604	Ni	n	0.03766353	0.03766353	mg/L	843.00362521	0.00055151	1.46432092	11.00049754	1.30	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.03707758
P 177.434	P	n	1.23441519	1.23441519	mg/L	583.60084577	0.01509280	1.22266771	7.10201677	1.22		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.21818842
Pb 220.353	Pb	n	1.68580564	1.68580564	mg/L	13127.23989250	0.01428229	0.84720853	111.36447608	0.85	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.66932251
S 181.972	S	n	3.66869864	3.66869864	mg/L	4579.87802242	0.00892127	0.24317269	10.94929255	0.24		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.67713858
Sb 206.834	Sb	nu	-0.01967691	-0.01967691	mg/L	-81.27547297	0.00393910	20.01891603	9.58071613	11.79	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.02366410
Se 196.026	Se	n	0.01692247	0.01692247	mg/L	96.72525483	0.00141546	8.36436658	3.50517114	3.62	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01742919
Si 251.611	Si	n	1.93757230	1.93757230	mg/L	14756.86815282	0.01247823	0.64401359	94.12752739	0.64		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	1.94794318
Sn 189.925	Sn	n	0.05226672	0.05226672	mg/L	436.52858676	0.00273611	5.23489584	21.42941823	4.91	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.04961175
Sr 421.552	Sr-R	n	0.01372524	0.01372524	mg/L	6272.82950540	0.00017166	1.25071374	77.93044724	1.24	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01364546
Ti 334.941	Ti	n	0.08814260	0.08814260	mg/L	26773.35456000	0.01917958	21.75971404	5738.13716905	21.43	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.06917709
Tl 190.794	Tl	nu	-0.01027220	-0.01027220	mg/L	-15.93263564	0.00155379	15.12612307	3.53322737	22.18	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724473747766	2273.94856269028	-0.01055427
V 292.401	V	n	0.00412595	0.00412595	mg/L	67.87138831	0.00016790	4.06926336	5.37703808	7.92	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00393212
Zn 206.200	Zn	no	53.03083949	53.03083949	mg/L	2115780.51670187	0.68899550	1.29923551	27482.96570942	1.30	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	52.25759385
Y 371.029	Y	0.89	0.89	Ratio	462846.51	0.01	1.44	6665.65	1.44			-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R	1.03	1.03	Ratio	129070.90	0.01	0.98	1267.55	0.98			-	-	-	Fitted	-	-	1.03

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-008	Client ID: ARCH-C8E-DG-6 TO 6.5-UP-C8.1-HS-231023-L-LA
Seqnum: 673428353061	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:30
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.02 ft2 ⇒ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	4.563	220	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	463703	-10.62

U=USE

Label: 494421-008,325072

Rack/Tube: 1:38

Type: Sample

Date Time: 10/24/2023 2:30:39 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal/Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00074335	0.00074335	mg/L	579.47830150	0.00009139	12.29410588	6.24966753	1.08		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00080852
Al 396.152	Al	n	2.61748436	2.61748436	mg/L	83033.49406717	0.04325589	1.65257499	1350.54249283	1.63	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	2.56917575
As 188.980	As	n	0.03589349	0.03589349	mg/L	148.50859114	0.00101370	2.82419632	3.86346226	2.60	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.03490138
B 249.678	B	n	0.02493166	0.02493166	mg/L	1289.51207350	0.00032465	1.30217124	11.30869695	0.88	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02475134
Ba 230.424	Ba	n	0.01548317	0.01548317	mg/L	1508.17598275	0.00012810	0.82731882	10.59072404	0.70	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.01540783
Be 313.107	Be	n	0.00004067	0.00004067	mg/L	136.23053728	0.00001727	42.45483335	35.54748229	26.09	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00004954
Ca 317.933	Ca-R	n	9.75230507	9.75230507	mg/L	130859.62903634	0.13568358	1.39129757	1803.89517306	1.38	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	9.90110300
Cd 214.439	Cd	n	0.00055710	0.00055710	mg/L	227.71101271	0.00013815	24.79835612	21.63146952	9.50	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00053901
Co 230.786	Co	n	0.01092031	0.01092031	mg/L	438.04717019	0.00047785	4.37575475	16.88008583	3.85	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.01038843
Cr 267.716	Cr	n	0.14206493	0.14206493	mg/L	8251.49051449	0.00374011	2.63267818	215.69594865	2.61	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.13823864
Cu 324.754	Cu	n	1.08215963	1.08215963	mg/L	37860.25848669	0.01929199	1.78273075	666.22623090	1.76	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.05993903
Fe 259.940	Fe	no	63.83797943	63.83797943	mg/L	3428046.43180153	1.06283720	1.66489794	57070.31167109	1.66	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	62.62810577
K 766.491	K-R	n	2.32841232	2.32841232	mg/L	3358.04286543	0.02600760	1.11696710	36.79949295	1.10	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.33004257
Li 670.783	Li-R	n	0.00348767	0.00348767	mg/L	400.65529245	0.00060184	17.25620647	62.98364796	15.72	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00353294
Mg 279.800	Mg-R	n	4.64945009	4.64945009	mg/L	10623.19038681	0.05737262	1.23396562	129.08204987	1.22	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	4.70299770
Mn 257.610	Mn	n	0.43914186	0.43914186	mg/L	164651.73229905	0.00931789	2.12184091	3479.68285534	2.11	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.42857463
Mo 204.598	Mo	n	0.00363962	0.00363962	mg/L	36.22714060	0.00065346	17.95409461	4.41678994	12.19	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00333427
Na 589.592	Na-R	n	6.15479476	6.15479476	mg/L	63953.00771059	0.07388013	1.20036708	758.44666828	1.19	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	6.23548569
Ni 231.604	Ni	n	0.13273547	0.13273547	mg/L	2740.95207919	0.00221346	1.66757493	44.14966181	1.61	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.13055881
P 177.434	P	n	1.30432354	1.30432354	mg/L	616.52664397	0.01549370	1.18787211	7.29066278	1.18		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.28828918
Pb 220.353	Pb	n	4.56304727	4.56304727	mg/L	35559.97024344	0.04316685	0.94600934	336.58848014	0.95	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	4.51338044
S 181.972	S	n	4.02369257	4.02369257	mg/L	5013.81053437	0.00531642	0.13212780	6.52496566	0.13		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	4.02402198
Sb 206.834	Sb	nu	-0.00741733	-0.00741733	mg/L	-49.92002654	0.00392529	52.92044978	9.54710894	19.12	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00716834
Se 196.026	Se	n	0.01704964	0.01704964	mg/L	94.11560194	0.00403327	23.65603481	9.98779145	10.61	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01276909
Si 251.611	Si	n	5.59126984	5.59126984	mg/L	42303.61766954	0.19417213	3.47277339	1464.70646053	3.46		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	5.77000768
Sn 189.925	Sn	n	0.06350583	0.06350583	mg/L	525.65882002	0.00215879	3.39935898	16.90782190	3.22	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.06120960
Sr 421.552	Sr-R	n	0.01788779	0.01788779	mg/L	8175.40104023	0.00028986	1.62045547	131.59002416	1.61	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01821806
Ti 334.941	Ti	n	0.33664401	0.33664401	mg/L	101118.71537661	0.03750873	11.14195528	11221.84256161	11.10	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.30517386
Tl 190.794	Tl	nu	-0.00863144	-0.00863144	mg/L	-12.10147485	0.00199105	23.06743013	4.52754726	37.41	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.00825944
V 292.401	V	n	0.01038506	0.01038506	mg/L	249.98060244	0.00006163	0.59345599	1.97379122	0.79	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.01032379
Zn 206.200	Zn	n	14.31561645	14.31561645	mg/L	571614.21648575	0.18064861	1.26189896	7205.79409369	1.26	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	14.11088161
Y 371.029	Y	0.89	0.89	Ratio	463703.03	0.01	1.45	6709.52	1.45			-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R	1.03	1.03	Ratio	129709.18	0.01	0.99	1287.13	0.99			-	-	-	Fitted	-	-	1.02

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-009	Client ID: ARCH-C9E-DG-6 TO 6.5-DN-C9.7-VS-231023-L-LA
Seqnum: 673428353064	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:40
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.833	92	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	462875	-10.78

U=USE

Label: 494421-009,325072 Rack: Tube: 1:39 Type: Sample
 Date Time: 10/24/2023 2:40:00 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00057821	0.00057821	mg/L	568.68017988	0.00019709	34.08538224	13.47791882	2.37		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00055702
Al 396.152	Al	n	1.93619298	1.93619298	mg/L	61757.55224792	0.01520228	0.78516332	474.64796597	0.77	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.91868635
As 188.980	As	n	0.04614715	0.04614715	mg/L	185.65138245	0.00240950	5.22134879	9.18319288	4.95	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.04345939
B 249.678	B	n	0.02523477	0.02523477	mg/L	1309.49711118	0.00081731	3.23881860	28.46946095	2.17	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02595580
Ba 230.424	Ba	n	0.01036712	0.01036712	mg/L	1083.20175505	0.00010027	0.96716672	8.28995640	0.77	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.01027566
Be 313.107	Be	n	0.00002092	0.00002092	mg/L	93.25147966	0.00001016	48.57301635	20.91890367	22.43	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00003164
Ca 317.933	Ca-R	n	11.68218260	11.68218260	mg/L	156510.50398333	0.00577960	0.04947359	76.83895522	0.05	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	11.68402554
Cd 214.439	Cd	n	0.00067837	0.00067837	mg/L	214.30242663	0.00000872	1.28506785	1.36496048	0.64	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00068355
Co 230.786	Co	n	0.00783275	0.00783275	mg/L	328.17722071	0.00003187	0.40689635	1.12586109	0.34	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00786823
Cr 267.716	Cr	n	0.04133677	0.04133677	mg/L	2441.66602237	0.00238341	5.76583053	137.45347586	5.63	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.04009330
Cu 324.754	Cu	n	0.73386897	0.73386897	mg/L	25835.25476431	0.00994826	1.35559126	343.55156798	1.33	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.72241848
Fe 259.940	Fe	no	48.23059604	48.23059604	mg/L	2589988.26640789	0.40004447	0.82944128	21480.86530701	0.83	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	47.78652866
K 766.491	K-R	n	2.19627687	2.19627687	mg/L	3181.45488750	0.00727217	0.33111376	10.28977519	0.32	41.87388682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.20461239
Li 670.783	Li-R	n	0.00314370	0.00314370	mg/L	359.64396968	0.00086425	27.49152859	90.44546402	25.15	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00363472
Mg 279.800	Mg-R	n	3.96039314	3.96039314	mg/L	9056.96970140	0.00598897	0.15122168	13.47452774	0.15	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.96389580
Mn 257.610	Mn	n	0.28984744	0.28984744	mg/L	108874.56482004	0.00309649	1.06831769	1156.35689397	1.06	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.28654182
Mo 204.598	Mo	n	0.00982336	0.00982336	mg/L	77.69413806	0.00104094	10.59659965	7.03580232	9.06	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.01094731
Na 589.592	Na-R	n	5.31367011	5.31367011	mg/L	55363.78639307	0.01884054	0.35456744	193.41530500	0.35	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.33216749
Ni 231.604	Ni	n	0.07638251	0.07638251	mg/L	1615.20689939	0.00362890	4.75095455	72.38188145	4.48	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.07323043
P 177.434	P	n	1.16703192	1.16703192	mg/L	551.94598101	0.01951593	1.67227023	9.18335106	1.66		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.14621216
Pb 220.353	Pb	n	1.83263513	1.83263513	mg/L	14269.77267205	0.00816031	0.44527744	63.62906676	0.45	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.82355895
S 181.972	S	n	3.40846403	3.40846403	mg/L	4260.92294513	0.02223788	0.65243111	27.29308377	0.64		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.43038796
Sb 206.834	Sb	nu	-0.00604477	-0.00604477	mg/L	-48.52666062	0.00162786	26.93007713	3.95929601	8.16	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00469158
Se 196.026	Se	n	0.01617922	0.01617922	mg/L	95.41772336	0.00223503	13.81421816	5.53472818	5.80	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01826512
Si 251.611	Si	n	4.48390704	4.48390704	mg/L	33965.01754218	0.00779609	0.17386818	58.80854216	0.17		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	4.48100165
Sn 189.925	Sn	n	0.06268981	0.06268981	mg/L	518.11363876	0.00112761	1.79871836	8.83155464	1.70	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.06144811
Sr 421.552	Sr-R	n	0.01939346	0.01939346	mg/L	8866.90841214	0.00005149	0.26548909	23.37390348	0.26	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01937450
Ti 334.941	Ti	n	0.20608911	0.20608911	mg/L	62060.14087253	0.03841834	18.64161468	11493.98019219	18.52	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.16820350
Tl 190.794	Tl	nu	-0.01055549	-0.01055549	mg/L	-16.52508840	0.00062074	5.88069724	1.41152310	8.54	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.00990702
V 292.401	V	n	0.00808139	0.00808139	mg/L	196.64060555	0.00013764	1.70318720	4.40810859	2.24	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00823041
Zn 206.200	Zn	n	5.08446022	5.08446022	mg/L	203254.02241127	0.03683605	0.72448301	1469.33313017	0.72	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	5.04670536
Y 371.029	Y	0.89	0.89	Ratio	462875.04	0.02	1.71	7893.38	1.71			-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R	1.03	1.03	Ratio	129175.22	0.01	0.70	899.65	0.70			-	-	-	Fitted	-	-	1.03

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-010	Client ID: ARCH-C11E-DG-6 TO 6.5-231023-L-FB
Seqnum: 673428353065	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:43
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.118	56	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	465108	-10.35

U=USE

Label: 494421-010,325072 Rack: Tube: 1:40 Type: Sample
 Date Time: 10/24/2023 2:43:07 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00098562	0.00098562	mg/L	596.01459427	0.00026633	27.02144881	18.21318704	3.06		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00124860
Al 396.152	Al	n	0.64277430	0.64277430	mg/L	21371.56925295	0.00298370	0.46419052	93.15748353	0.44	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.64066290
As 188.980	As	n	0.02580349	0.02580349	mg/L	108.58328305	0.00173156	6.71056483	6.59938846	6.08	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.02543593
B 249.678	B	n	0.02324747	0.02324747	mg/L	1238.44557088	0.00061740	2.65577344	21.50601588	1.74	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02257310
Ba 230.424	Ba	n	0.00833495	0.00833495	mg/L	915.41217737	0.00012649	1.51754171	10.45771513	1.14	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00846056
Be 313.107	Be	n	0.00001461	0.00001461	mg/L	80.74175937	0.00000431	29.494448960	8.86869817	10.98	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00001186
Ca 317.933	Ca-R	n	7.39878722	7.39878722	mg/L	99564.16597401	0.08007688	1.08229740	1064.61147797	1.07	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	7.30775954
Cd 214.439	Cd	n	0.00019909	0.00019909	mg/L	147.41804217	0.00002254	11.32044323	3.52897404	2.39	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00021612
Co 230.786	Co	n	0.01179505	0.01179505	mg/L	468.32555457	0.00084720	7.18270381	29.92777511	6.39	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.01192831
Cr 267.716	Cr	n	0.02601274	0.02601274	mg/L	1557.69529911	0.00027998	1.07632118	16.14675820	1.04	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.02583222
Cu 324.754	Cu	n	0.88573844	0.88573844	mg/L	31078.76551104	0.00577439	0.65192916	199.41165743	0.64	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.87944739
Fe 259.940	Fe	no	51.85734062	51.85734062	mg/L	2784727.96324792	0.55943792	1.07880179	30039.68648198	1.08	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	51.25995928
K 766.491	K-R	n	2.10768170	2.10768170	mg/L	3054.68048141	0.04457140	2.11471206	63.06636950	2.06	41.87388682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.07280782
Li 670.783	Li-R	n	0.00240995	0.00240995	mg/L	282.31865163	0.00060523	25.11364586	63.33821871	22.44	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00261447
Mg 279.800	Mg-R	n	2.95977977	2.95977977	mg/L	6809.58227562	0.01622090	0.54804413	36.49523243	0.54	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	2.94264192
Mn 257.610	Mn	n	0.32694394	0.32694394	mg/L	122732.71337213	0.00197785	0.60495007	738.60940873	0.60	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.32540785
Mo 204.598	Mo	n	0.00246674	0.00246674	mg/L	28.00976488	0.00025747	10.43760869	1.74024801	6.21	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00269267
Na 589.592	Na-R	n	5.48992295	5.48992295	mg/L	57166.41911721	0.03792417	0.69079611	389.32610750	0.68	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.45130519
Ni 231.604	Ni	n	0.03958171	0.03958171	mg/L	881.46494632	0.00064223	1.62253943	12.80987357	1.45	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.03890904
P 177.434	P	n	1.20230399	1.20230399	mg/L	568.50039388	0.00735022	0.61134497	3.45869785	0.61		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.19599434
Pb 220.353	Pb	n	1.11789605	1.11789605	mg/L	8699.63573012	0.00352129	0.31499240	27.45682763	0.32	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.11387429
S 181.972	S	n	3.73048581	3.73048581	mg/L	4655.46162425	0.01820284	0.48794818	22.34077968	0.48		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.75144288
Sb 206.834	Sb	nu	-0.01102967	-0.01102967	mg/L	-60.00879233	0.00503338	45.63493792	12.24222599	20.40	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.01254129
Se 196.026	Se	n	0.01467846	0.01467846	mg/L	90.76573801	0.00190899	13.00539399	4.72733551	5.21	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01413173
Si 251.611	Si	n	1.58341829	1.58341829	mg/L	12083.56919594	0.00697304	0.44037874	52.59999510	0.44		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	1.59102965
Sn 189.925	Sn	n	0.04991085	0.04991085	mg/L	418.20730314	0.00076340	1.52952239	5.97898994	1.43	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.04991631
Sr 421.552	Sr-R	n	0.01350117	0.01350117	mg/L	6173.86203554	0.00017450	1.29250256	79.21947834	1.28	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01330966
Ti 334.941	Ti	n	0.05213185	0.05213185	mg/L	15999.53910442	0.00683748	13.11573983	2045.63328561	12.79	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.04766070
Tl 190.794	Tl	nu	-0.00878329	-0.00878329	mg/L	-12.54321804	0.00170889	19.45614639	3.88592537	30.98	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.01021281
V 292.401	V	n	0.00321473	0.00321473	mg/L	36.25486387	0.00077895	24.23063441	24.94668282	68.81	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00279234
Zn 206.200	Zn	n	9.65121645	9.65121645	mg/L	385450.51606264	0.05206639	0.53948003	2076.84767144	0.54	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	9.59191744
Y 371.029	Y		0.90	0.90	Ratio	465108.37	0.02	1.87	8712.95	1.87		-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R		1.02	1.02	Ratio	128686.95	0.01	1.23	1577.71	1.23		-	-	-	Fitted	-	-	1.04

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-011	Client ID: ARCH-C9E-PS-6.5-231023-L-G
Seqnum: 673428353066	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:46
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.06 ft2 ⇒ 50.0 ml = 47.38 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.133	54	0.50	0.12	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	463933	-10.58

U=USE

Label: 494421-011,325072

Rack/Tube: 1:41

Type: Sample

Date Time: 10/24/2023 2:46:14 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00080764	0.00080764	mg/L	583.93607748	0.00034505	42.72363716	23.59676400	4.04		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00049139
Al 396.152	Al	n	1.24867905	1.24867905	mg/L	40290.77224682	0.01280992	1.02587744	399.95330344	0.99	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.23460988
As 188.980	As	n	0.02756774	0.02756774	mg/L	115.48220821	0.00213332	7.73845682	8.13058275	7.04	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.02994820
B 249.678	B	n	0.02236754	0.02236754	mg/L	1206.80832350	0.00037058	1.65676885	12.90842707	1.07	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02271415
Ba 230.424	Ba	n	0.00918985	0.00918985	mg/L	986.35678643	0.00027071	2.94576021	22.38198317	2.27	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00913302
Be 313.107	Be	n	0.00002136	0.00002136	mg/L	94.86817659	0.00001086	50.84636268	22.35535577	23.56	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00002842
Ca 317.933	Ca-R	n	8.39583209	8.39583209	mg/L	112820.56553463	0.13569251	1.61618895	1804.01385197	1.60	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	8.49143764
Cd 214.439	Cd	n	0.00034475	0.00034475	mg/L	173.03199719	0.00009913	28.75317813	15.52085324	8.97	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00045828
Co 230.786	Co	n	0.01006733	0.01006733	mg/L	407.37018150	0.00020754	2.06156594	7.33159105	1.80	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.01016736
Cr 267.716	Cr	n	0.02029748	0.02029748	mg/L	1228.27886127	0.00088472	4.35876186	51.02259564	4.15	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.02128069
Cu 324.754	Cu	n	1.14307134	1.14307134	mg/L	39965.34551447	0.01169840	1.02341836	403.99053067	1.01	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.12956920
Fe 259.940	Fe	no	53.65653013	53.65653013	mg/L	2881338.58856132	0.60964355	1.13619637	32735.53770824	1.14	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	52.95282751
K 766.491	K-R	n	1.99160019	1.99160019	mg/L	2889.14348842	0.04851895	2.43617939	68.65196765	2.38	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.03237532
Li 670.783	Li-R	n	0.00259484	0.00259484	mg/L	302.63911020	0.00083411	32.14492590	87.29116565	28.84	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00341990
Mg 279.800	Mg-R	n	3.36273980	3.36273980	mg/L	7717.61863553	0.05519759	1.64144699	124.18848488	1.61	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.39351426
Mn 257.610	Mn	n	0.52439272	0.52439272	mg/L	196470.69655393	0.00505155	0.96331514	1886.45758264	0.96	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.51858976
Mo 204.598	Mo	nu	0.00201068	0.00201068	mg/L	24.97245159	0.00180174	89.60888987	12.17811771	48.77	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00258312
Na 589.592	Na-R	n	5.70203312	5.70203312	mg/L	59338.34591415	0.10412619	1.82612383	1068.94990871	1.80	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.77517697
Ni 231.604	Ni	n	0.04102721	0.04102721	mg/L	910.49447583	0.00034577	0.84277979	6.89669690	0.76	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.04109826
P 177.434	P	n	1.13874288	1.13874288	mg/L	538.60004306	0.00291257	0.25577073	1.37052987	0.25		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.13589170
Pb 220.353	Pb	n	1.13260122	1.13260122	mg/L	8813.23308889	0.00471036	0.41588866	36.72848079	0.42	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.12845485
S 181.972	S	n	3.43781720	3.43781720	mg/L	4296.11996106	0.03203738	0.93191057	39.32024776	0.92		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.46951785
Sb 206.834	Sb	nu	-0.00904487	-0.00904487	mg/L	-55.06626274	0.00442001	48.86759132	10.75038490	19.52	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.01212022
Se 196.026	Se	n	0.01351390	0.01351390	mg/L	87.60452253	0.00258943	19.16121405	6.41233350	7.32	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01455170
Si 251.611	Si	n	2.83955934	2.83955934	mg/L	21557.29527765	0.02657392	0.93584671	200.45614123	0.93		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	2.80973309
Sn 189.925	Sn	n	0.05012336	0.05012336	mg/L	420.00721658	0.00087547	1.74663508	6.85676739	1.63	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.04922391
Sr 421.552	Sr-R	n	0.01447662	0.01447662	mg/L	6620.88522933	0.00025736	1.77778818	116.83591940	1.76	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01459163
Ti 334.941	Ti	n	0.13671788	0.13671788	mg/L	41305.72773651	0.00741336	5.42238014	2217.92645306	5.37	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.13303152
Tl 190.794	Tl	nu	-0.01004779	-0.01004779	mg/L	-15.39405065	0.00140045	13.93784931	3.18454162	20.69	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.00893850
V 292.401	V	n	0.00618883	0.00618883	mg/L	129.54411850	0.00024743	3.99799850	7.92418821	6.12	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00592618
Zn 206.200	Zn	n	2.75250446	2.75250446	mg/L	110284.17820193	0.01511911	0.54928575	603.07812275	0.55	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	2.73789051
Y 371.029	Y	0.89	0.89	Ratio	463932.87	0.02	1.86	8606.12	1.86			-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R	1.03	1.03	Ratio	129536.79	0.01	1.29	1669.87	1.29			-	-	-	Fitted	-	-	1.02

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-012	Client ID: ARCH-C11E-PS-6.5-231023-L-G
Seqnum: 673428353067	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:49
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.08 ft2 ⇒ 50.0 ml = 46.18 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.575	73	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	461914	-10.97

U=USE

Label: 494421-012,325072

Rack/Tube: 1:42

Type: Sample

Date Time: 10/24/2023 2:49:22 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00178547	0.00178547	mg/L	650.30981897	0.00052941	29.65078155	36.20400410	5.57		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00235370
Al 396.152	Al	n	1.84727583	1.84727583	mg/L	58993.49302239	0.01585283	0.85817315	494.95948839	0.84	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.83081711
As 188.980	As	n	0.03210899	0.03210899	mg/L	136.01749559	0.00167811	5.22630283	6.39568906	4.70	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.03323654
B 249.678	B	n	0.02591649	0.02591649	mg/L	1313.97594880	0.00087596	3.37993942	30.51254308	2.32	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02675918
Ba 230.424	Ba	n	0.01145945	0.01145945	mg/L	1177.41154697	0.00013501	1.17818847	11.16275471	0.95	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.01139889
Be 313.107	Be	n	0.00002010	0.00002010	mg/L	96.26101407	0.00001985	98.76773044	40.86720925	42.45	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00004197
Ca 317.933	Ca-R	n	11.41812615	11.41812615	mg/L	153012.22295036	0.06234376	0.54600693	828.85199327	0.54	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	11.48897091
Cd 214.439	Cd	n	0.00078376	0.00078376	mg/L	295.91213816	0.00005797	7.39639110	9.07675275	3.07	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00073652
Co 230.786	Co	n	0.01493805	0.01493805	mg/L	580.79758814	0.00057728	3.86451565	20.39275315	3.51	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.01498076
Cr 267.716	Cr	n	0.02698483	0.02698483	mg/L	1615.61747121	0.00075845	2.81066485	43.74073988	2.71	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.02650071
Cu 324.754	Cu	n	4.54404099	4.54404099	mg/L	157409.39649648	0.05607732	1.23408483	1936.56421162	1.23	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	4.48250312
Fe 259.940	Fe	no	79.72961688	79.72961688	mg/L	4281365.81530219	0.79893399	1.00205422	42899.71369261	1.00	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	78.83618617
K 766.491	K-R	n	2.38733206	2.38733206	mg/L	3431.09494590	0.03887570	1.41897748	47.93247971	1.40	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.42396741
Li 670.783	Li-R	n	0.00326923	0.00326923	mg/L	384.21492088	0.00052610	16.09240769	55.05711607	14.33	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00288412
Mg 279.800	Mg-R	n	4.03135499	4.03135499	mg/L	9248.67033111	0.03396852	0.84260798	76.42541616	0.83	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	4.06807788
Mn 257.610	Mn	n	0.40843575	0.40843575	mg/L	153210.30961834	0.00464799	1.13799695	1735.74873768	1.13	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.40319198
Mo 204.598	Mo	n	0.00218352	0.00218352	mg/L	26.66255258	0.00032744	14.99611832	2.21321590	8.30	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00189366
Na 589.592	Na-R	n	6.31232718	6.31232718	mg/L	65524.85700066	0.03837091	0.60787262	393.91223982	0.60	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	6.35590673
Ni 231.604	Ni	n	0.07459696	0.07459696	mg/L	1583.09057518	0.00071542	0.95904722	14.26974377	0.90	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.07379968
P 177.434	P	n	1.31464712	1.31464712	mg/L	621.41475393	0.00883611	0.67212809	4.15789233	0.67		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.30472667
Pb 220.353	Pb	n	1.57452904	1.57452904	mg/L	12260.26174182	0.00789465	0.50139723	61.55756981	0.50	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.56596531
S 181.972	S	n	4.00989047	4.00989047	mg/L	4994.64194964	0.02199440	0.54850379	26.99425648	0.54		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	4.03212216
Sb 206.834	Sb	nu	-0.00948555	-0.00948555	mg/L	-52.90708642	0.00387698	40.87244506	9.42961196	17.82	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.01384073
Se 196.026	Se	n	0.01645850	0.01645850	mg/L	89.09359742	0.00363020	22.05669029	8.98965529	10.09	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01514347
Si 251.611	Si	n	3.89562635	3.89562635	mg/L	29497.46364737	0.00669167	0.17177381	50.47751196	0.17		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	3.88792029
Sn 189.925	Sn	n	0.09021690	0.09021690	mg/L	736.02005981	0.00235658	2.61213111	18.45694957	2.51	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.08765705
Sr 421.552	Sr-R	n	0.01844155	0.01844155	mg/L	8434.42973832	0.00014928	0.80946085	67.76764539	0.80	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01861258
Ti 334.941	Ti	n	0.13079348	0.13079348	mg/L	39531.46304130	0.01260814	9.63973074	3772.09709002	9.54	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.11632115
Tl 190.794	Tl	nu	-0.01144745	-0.01144745	mg/L	-18.46693945	0.00204969	17.90517743	4.66088062	25.24	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724473747766	2273.94856269028	-0.01357122
V 292.401	V	n	0.00761534	0.00761534	mg/L	140.06670314	0.00036811	4.83374585	11.78900353	8.42	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00740864
Zn 206.200	Zn	n	5.70594561	5.70594561	mg/L	228332.62070551	0.03774760	0.66154851	1505.69336028	0.66	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	5.66730542
Y 371.029	Y	0.89	0.89	Ratio	461914.25	0.02	1.76	8116.65	1.76			-	-	-	Fitted	-	-	0.87
Y 371.029	Y-R	1.02	1.02	Ratio	128450.30	0.01	0.50	647.85	0.50			-	-	-	Fitted	-	-	1.02

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-013	Client ID: ARCH-C8E-INT-6.5 TO 7-231023-L-WF
Seqnum: 673428353068	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:52
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.5463	27	0.50	0.12	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	467482	-9.90

U=USE

Label: 494421-013,325072

Rack/Tube: 1:43

Type: Sample

Date Time: 10/24/2023 2:52:29 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00060204	0.00060204	mg/L	569.22834164	0.00053927	89.57375293	36.87870193	6.48		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00040838
Al 396.152	Al	n	0.88505679	0.88505679	mg/L	28944.46230429	0.01911935	2.16024036	596.94758069	2.06	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.86395338
As 188.980	As	n	0.03276546	0.03276546	mg/L	137.65720553	0.00156743	4.78377786	5.97383795	4.34	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.03228487
B 249.678	B	n	0.02431733	0.02431733	mg/L	1263.02687464	0.00086876	3.57261238	30.26181762	2.40	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02339766
Ba 230.424	Ba	n	0.00752252	0.00752252	mg/L	850.84452084	0.00036805	4.89266938	30.43003700	3.58	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00731836
Be 313.107	Be	n	0.00001839	0.00001839	mg/L	91.62691606	0.00001117	60.72650713	22.99295600	25.09	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00002431
Ca 317.933	Ca-R	n	7.54558288	7.54558288	mg/L	101524.07283710	0.01642336	0.21765525	218.34634793	0.22	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	7.52999013
Cd 214.439	Cd	n	0.00038017	0.00038017	mg/L	218.43327922	0.00007318	19.24813433	11.45759121	5.25	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00039128
Co 230.786	Co	n	0.01860216	0.01860216	mg/L	709.85527756	0.00050196	2.69839139	17.73189676	2.50	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.01819026
Cr 267.716	Cr	n	0.02615756	0.02615756	mg/L	1567.17291959	0.00032224	1.23192462	18.58398118	1.19	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.02590850
Cu 324.754	Cu	n	0.62330824	0.62330824	mg/L	22012.40469932	0.01249031	2.00387392	431.33818380	1.96	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.60908574
Fe 259.940	Fe	no	72.16870880	72.16870880	mg/L	3875371.78721074	1.79983323	2.49392467	96644.19294758	2.49	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	70.22475876
K 766.491	K-R	n	2.19350020	2.19350020	mg/L	3162.35265454	0.02445293	1.11479036	34.59970912	1.09	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.17547073
Li 670.783	Li-R	n	0.00320498	0.00320498	mg/L	373.19078197	0.00065267	20.36423186	68.30305452	18.30	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00272957
Mg 279.800	Mg-R	n	3.30812054	3.30812054	mg/L	7614.32326822	0.00417068	0.12607412	9.38357807	0.12	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.30330911
Mn 257.610	Mn	n	0.51191787	0.51191787	mg/L	191842.49975681	0.00899918	1.75793398	3360.66221051	1.75	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.50238408
Mo 204.598	Mo	n	0.00391818	0.00391818	mg/L	38.22799379	0.00124384	31.74548423	8.40723201	21.99	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00294914
Na 589.592	Na-R	n	5.40332760	5.40332760	mg/L	56217.01072462	0.01835435	0.33968613	188.42412309	0.34	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.42452131
Ni 231.604	Ni	n	0.07553312	0.07553312	mg/L	1600.86473244	0.00204640	2.70927429	40.81741171	2.55	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.07317076
P 177.434	P	n	1.26090698	1.26090698	mg/L	596.08307810	0.01102996	0.87476380	5.19022093	0.87		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.24818493
Pb 220.353	Pb	n	0.54626592	0.54626592	mg/L	4243.77268789	0.01094345	2.00332008	85.33030654	2.01	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.53421599
S 181.972	S	n	3.79701845	3.79701845	mg/L	4734.23816523	0.02241941	0.59044777	27.51588105	0.58		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.77549926
Sb 206.834	Sb	nu	-0.00713295	-0.00713295	mg/L	-47.94638200	0.00265050	37.15856533	6.44657053	13.45	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00952663
Se 196.026	Se	n	0.01958386	0.01958386	mg/L	98.33109513	0.00333844	17.04691703	8.26716495	8.41	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.02272194
Si 251.611	Si	n	2.06586860	2.06586860	mg/L	15703.02639137	0.04907693	2.37560759	370.20399401	2.36		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	2.01018228
Sn 189.925	Sn	n	0.09242322	0.09242322	mg/L	752.70039065	0.00311936	3.37508177	24.43106697	3.25	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.08911454
Sr 421.552	Sr-R	n	0.01330725	0.01330725	mg/L	6086.89140973	0.00003524	0.26483616	15.99906667	0.26	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01327484
Ti 334.941	Ti	n	0.06453068	0.06453068	mg/L	19707.80622262	0.00302229	4.68349072	904.20677367	4.59	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.06125563
Tl 190.794	Tl	nu	-0.01107106	-0.01107106	mg/L	-17.67902144	0.00148274	13.39297780	3.37168504	19.07	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.01069886
V 292.401	V	n	0.00443205	0.00443205	mg/L	47.89785069	0.00028279	6.38061928	9.05672156	18.91	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00421422
Zn 206.200	Zn	n	2.16505420	2.16505420	mg/L	87028.21442000	0.03580095	1.65358223	1428.04463667	1.64	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	2.12656682
Y 371.029	Y		0.90	0.90	Ratio	467482.09	0.01	1.03	4803.75	1.03		-	-	-	Fitted	-	-	0.89
Y 371.029	Y-R		1.03	1.03	Ratio	129941.89	0.01	0.75	969.42	0.75		-	-	-	Fitted	-	-	1.04

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-014	Client ID: ARCH-C8E-DG-7 TO 7.5-UP-C8.7-DG-231023-L-LA
Seqnum: 673428353069	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:55
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.02 ft2 ⇒ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.326	110	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	459895	-11.36

U=USE

Label: 494421-014,325072 Rack/Tube: 1;44 Type: Sample

Date Time: 10/24/2023 2:55:36 PM Weight: 1 Volume: 1

Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -

LIMS ID: Customer: Customer Ref: -

Sample Date Time: Sample Site: Description: -

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00144894	0.00144894	mg/L	628.08703162	0.00012181	8.40709305	8.33037253	1.33		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.0013777
Al 396.152	Al	n	1.49654769	1.49654769	mg/L	48028.31698839	0.02764146	1.84701512	863.02622543	1.80	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.467013
As 188.980	As	n	0.03908138	0.03908138	mg/L	158.53130094	0.00067477	1.72658350	2.57171976	1.62	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.0391611
B 249.678	B	n	0.02526586	0.02526586	mg/L	1311.77277076	0.00047919	1.89658078	16.69162747	1.27	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.025188
Ba 230.424	Ba	n	0.02822158	0.02822158	mg/L	2559.09310324	0.00038910	1.37872299	32.17001631	1.26	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.027802
Be 313.107	Be	n	0.00003101	0.00003101	mg/L	113.74632816	0.00000882	28.43701436	18.15167634	15.96	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.000021
Ca 317.933	Ca-R	n	9.60619475	9.60619475	mg/L	128909.73121264	0.03032264	0.31565717	403.13549812	0.31	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	9.627860
Cd 214.439	Cd	n	0.00084145	0.00084145	mg/L	236.72619745	0.00012129	14.41479312	18.99177878	8.02	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.000787
Co 230.786	Co	n	0.00700255	0.00700255	mg/L	298.76080291	0.00045574	6.50817395	16.09911944	5.39	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.006476
Cr 267.716	Cr	n	0.01916697	0.01916697	mg/L	1162.84287315	0.00037995	1.98233080	21.91224943	1.88	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.018745
Cu 324.754	Cu	n	1.51118871	1.51118871	mg/L	52679.17489639	0.04124559	2.72934726	1424.36778351	2.70	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.464473
Fe 259.940	Fe	no	45.68715572	45.68715572	mg/L	2453414.30156223	0.87223399	1.90914486	46835.64455188	1.91	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	44.73243
K 766.491	K-R	n	2.32664397	2.32664397	mg/L	3367.38968659	0.05160554	2.21802495	73.01934333	2.17	41.8738682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.332446
Li 670.783	Li-R	n	0.00416077	0.00416077	mg/L	464.61247391	0.00040468	9.72615668	42.35084136	9.12	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.004558
Mg 279.800	Mg-R	n	3.67884267	3.67884267	mg/L	8421.91981383	0.01438099	0.39091084	32.35565048	0.38	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.692748
Mn 257.610	Mn	n	0.29055235	0.29055235	mg/L	109134.77036456	0.00510229	1.75606628	1905.40503291	1.75	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.284943
Mo 204.598	Mo	n	0.00328328	0.00328328	mg/L	33.44798975	0.00040328	12.28285614	2.72580184	8.15	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.003322
Na 589.592	Na-R	n	6.02766391	6.02766391	mg/L	62699.88534177	0.02916965	0.48392955	299.45293035	0.48	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	6.060091
Ni 231.604	Ni	n	0.07768488	0.07768488	mg/L	1640.95116986	0.00187073	2.40810041	37.31351233	2.27	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.075560
P 177.434	P	n	1.20267760	1.20267760	mg/L	568.69644524	0.01138522	0.94665576	5.35739045	0.94		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.20084
Pb 220.353	Pb	n	2.32636930	2.32636930	mg/L	18120.38981313	0.02874287	1.23552468	224.11913672	1.24	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	2.293929
S 181.972	S	n	3.66314442	3.66314442	mg/L	4573.65152196	0.00358711	0.09792443	4.40255018	0.10		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.667252
Sb 206.834	Sb	nu	-0.06677747	-0.06677747	mg/L	-196.37581729	0.00229719	3.44006690	5.58724144	2.85	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.06556
Se 196.026	Se	n	0.01911187	0.01911187	mg/L	102.99654546	0.00117873	6.16752091	2.91894733	2.83	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.019704
Si 251.611	Si	n	3.21742468	3.21742468	mg/L	24413.69443556	0.02145727	0.66690811	161.85946090	0.66		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	3.198625
Sn 189.925	Sn	n	0.07255977	0.07255977	mg/L	595.25994306	0.00239004	3.29388725	18.71895872	3.14	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.069868
Sr 421.552	Sr-R	n	0.01853371	0.01853371	mg/L	8467.78892573	0.00005682	0.30657789	25.79481285	0.30	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.018598
Ti 334.941	Ti	n	0.10107226	0.10107226	mg/L	30641.55917383	0.00265020	2.62208615	792.88611313	2.59	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.099824
Tl 190.794	Tl	nu	-0.01307044	-0.01307044	mg/L	-22.27261301	0.00053354	4.08206676	1.21325204	5.45	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.01368
V 292.401	V	n	0.00548081	0.00548081	mg/L	115.68046113	0.00055049	10.04392328	17.62998564	15.24	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.005344
Zn 206.200	Zn	no	290.90718309	290.90718309	mg/L	11604266.78660940	1.33588186	0.45921240	53286.26323073	0.46	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	291.2587
Y 371.029	Y		0.89	0.89	Ratio	459894.88	0.01	1.64	7561.80	1.64		-	-	-	Fitted	-	-	0.87
Y 371.029	Y-R		1.01	1.01	Ratio	126374.45	0.01	0.68	853.63	0.68		-	-	-	Fitted	-	-	1.01

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-015	Client ID: ARCH-C9E-DG-7 TO 7.5-231023-L-FB
Seqnum: 673428353070	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 14:58
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.5171	26	0.50	0.12	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	464290	-10.51

U=USE

Label: 494421-015,325072 Rack: Tube: 1:45 Type: Sample
 Date Time: 10/24/2023 2:58:43 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00041401	0.00041401	mg/L	556.28485692	0.00008423	20.34579720	5.76037923	1.04		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00047360
Al 396.152	Al	n	0.92224840	0.92224840	mg/L	30105.52775663	0.00501153	0.54340356	156.47082385	0.52	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.91646180
As 188.980	As	n	0.05026056	0.05026056	mg/L	204.51652911	0.00063534	1.26409512	2.42143699	1.18	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.04953977
B 249.678	B	n	0.02348027	0.02348027	mg/L	1233.05474105	0.00059527	2.53520952	20.73529604	1.68	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02415933
Ba 230.424	Ba	n	0.00775604	0.00775604	mg/L	870.31517457	0.00011277	1.45391257	9.32333247	1.07	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00786809
Be 313.107	Be	n	0.00001775	0.00001775	mg/L	90.51379082	0.00000671	37.78178656	13.80753583	15.25	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00001534
Ca 317.933	Ca-R	n	6.77902374	6.77902374	mg/L	91333.31309288	0.13527641	1.99551460	1798.48183562	1.97	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	6.86266475
Cd 214.439	Cd	n	0.00028149	0.00028149	mg/L	206.03814349	0.00008066	28.65324575	12.62869284	6.13	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00024806
Co 230.786	Co	n	0.00898582	0.00898582	mg/L	370.22721403	0.00053104	5.90973647	18.75912797	5.07	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00852685
Cr 267.716	Cr	n	0.04499957	0.04499957	mg/L	2653.82570876	0.00073400	1.63113098	42.33060925	1.60	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.04436180
Cu 324.754	Cu	n	0.88487235	0.88487235	mg/L	31044.90536457	0.01169868	1.32207511	404.00003473	1.30	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.87239530
Fe 259.940	Fe	no	73.99899019	73.99899019	mg/L	3973650.72669802	0.76334155	1.03155671	40988.53523950	1.03	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	73.18707657
K 766.491	K-R	n	1.97749030	1.97749030	mg/L	2855.85080396	0.08364176	4.22969246	118.34903418	4.14	41.87839682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.05498322
Li 670.783	Li-R	n	0.00248866	0.00248866	mg/L	298.42445127	0.00034872	14.01216964	36.49375796	12.23	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00287654
Mg 279.800	Mg-R	n	3.24126901	3.24126901	mg/L	7465.40172333	0.07228317	2.23008854	162.62914769	2.18	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.29753381
Mn 257.610	Mn	n	0.34064176	0.34064176	mg/L	127883.05881658	0.00289650	0.85030741	1081.67267015	0.85	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.33820684
Mo 204.598	Mo	n	0.00260937	0.00260937	mg/L	29.41257618	0.00128109	49.09573355	8.65897514	29.44	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00366006
Na 589.592	Na-R	n	5.44358108	5.44358108	mg/L	56626.32851829	0.12213303	2.24361544	1253.80647928	2.21	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.52873790
Ni 231.604	Ni	n	0.25187695	0.25187695	mg/L	5118.35820048	0.00287757	1.14245257	57.39600183	1.12	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.24865607
P 177.434	P	n	1.24252907	1.24252907	mg/L	587.42622008	0.00274641	0.22103406	1.29234285	0.22		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.24074223
Pb 220.353	Pb	n	0.51706363	0.51706363	mg/L	4016.17513792	0.00401144	0.77581167	31.27873337	0.78	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.51261549
S 181.972	S	n	3.49375632	3.49375632	mg/L	4361.82156759	0.00238875	0.06837210	2.93177597	0.07		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.49188118
Sb 206.834	Sb	nu	0.00157674	0.00157674	mg/L	-26.56978647	0.00428693	271.88556911	10.42670439	39.24	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00278555
Se 196.026	Se	n	0.01106571	0.01106571	mg/L	76.90747510	0.00343893	31.07731331	8.51599219	11.07	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01016424
Si 251.611	Si	n	2.26200835	2.26200835	mg/L	17181.39542055	0.01938189	0.85684445	146.20421519	0.85		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	2.24845215
Sn 189.925	Sn	n	0.11418849	0.11418849	mg/L	923.26456994	0.00288490	2.52643864	22.59478093	2.45	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.11105783
Sr 421.552	Sr-R	n	0.01281962	0.01281962	mg/L	5862.29272094	0.00028243	2.20311066	128.21550888	2.19	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01288207
Ti 334.941	Ti	n	0.06671845	0.06671845	mg/L	20362.31771396	0.00467161	7.00197434	1397.64968685	6.86	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.07141691
Tl 190.794	Tl	nu	-0.00946970	-0.00946970	mg/L	-14.03810719	0.00243397	25.70268219	5.53471461	39.43	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.01223640
V 292.401	V	n	0.00401418	0.00401418	mg/L	32.68224554	0.00035747	8.90525206	11.44844409	35.03	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00362490
Zn 206.200	Zn	n	1.39515938	1.39515938	mg/L	56331.80229742	0.01438272	1.03090141	573.70438875	1.02	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	1.37855263
Y 371.029	Y	0.89	0.89	Ratio	464289.67	0.01	1.50	6941.65	1.50			-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R	1.02	1.02	Ratio	127816.30	0.02	1.60	2039.56	1.60			-	-	-	Fitted	-	-	1.01

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-016	Client ID: ARCH-C9E-DG-7 TO 7.5-DN-C9.2-VS-231023-L-LA
Seqnum: 673428353071	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 15:01
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.971	99	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	463057	-10.75

U=USE

Label: 494421-016,325072 Rack/Tube: 1:46 Type: Sample
 Date Time: 10/24/2023 3:01:51 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00096521	0.00096521	mg/L	594.69029780	0.00008056	8.34644045	5.50922287	0.93		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.001019%
Al 396.152	Al	n	1.73031907	1.73031907	mg/L	55331.58009606	0.01849773	1.06903581	577.53915119	1.04	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.709755%
As 188.980	As	n	0.04042353	0.04042353	mg/L	165.10260341	0.00218431	5.40356232	8.32492815	5.04	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.039319%
B 249.678	B	n	0.02132214	0.02132214	mg/L	1167.16196938	0.00089355	4.19073011	31.12531739	2.67	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.022351%
Ba 230.424	Ba	n	0.01003106	0.01003106	mg/L	1056.60649387	0.00014714	1.46687591	12.16559251	1.15	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.010060%
Be 313.107	Be	n	0.00003042	0.00003042	mg/L	114.29222188	0.00001679	55.18509682	34.55485270	30.23	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.000049%
Ca 317.933	Ca-R	n	9.40616611	9.40616611	mg/L	126254.92271308	0.01016167	0.10803198	135.09801169	0.11	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	9.394903%
Cd 214.439	Cd	n	0.00057446	0.00057446	mg/L	219.41401504	0.00005605	9.75706170	8.77624117	4.00	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.000572%
Co 230.786	Co	n	0.00837240	0.00837240	mg/L	347.76321729	0.00040995	4.89642273	14.48157568	4.16	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.008574%
Cr 267.716	Cr	n	0.04419192	0.04419192	mg/L	2606.66392497	0.00030694	0.69456520	17.70162829	0.68	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.044459%
Cu 324.754	Cu	n	0.46422971	0.46422971	mg/L	16521.55531172	0.00372404	0.80219720	128.60525502	0.78	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.459957%
Fe 259.940	Fe	no	58.12627611	58.12627611	mg/L	3121347.49974185	0.68110687	1.17177104	36572.84600155	1.17	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	57.35447%
K 766.491	K-R	n	1.87680648	1.87680648	mg/L	2723.08670078	0.03434361	1.82989597	48.59453835	1.78	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	1.848765%
Li 670.783	Li-R	n	0.00308992	0.00308992	mg/L	356.74200925	0.00051961	16.81627541	54.37815424	15.24	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.002837%
Mg 279.800	Mg-R	n	3.55219293	3.55219293	mg/L	8149.03046569	0.00625770	0.17616437	14.07913047	0.17	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.553496%
Mn 257.610	Mn	n	0.31744773	0.31744773	mg/L	119197.23611433	0.00284370	0.89580018	1061.95322205	0.89	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.314650%
Mo 204.598	Mo	n	0.00319934	0.00319934	mg/L	33.11868947	0.00104745	32.73963588	7.07979353	21.38	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.003515%
Na 589.592	Na-R	n	5.12579245	5.12579245	mg/L	53406.70206601	0.01209164	0.23589801	124.13169712	0.23	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.131335%
Ni 231.604	Ni	n	0.07593490	0.07593490	mg/L	1607.36127239	0.00076704	0.101013122	15.29939573	0.95	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.075077%
P 177.434	P	n	1.06145011	1.06145011	mg/L	502.24068323	0.01107202	1.04310337	5.21001447	1.04		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.058578%
Pb 220.353	Pb	n	1.97061964	1.97061964	mg/L	15347.12499384	0.01030447	0.52290492	80.34787396	0.52	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.959140%
S 181.972	S	n	3.25984161	3.25984161	mg/L	4077.02568874	0.01747437	0.53604968	21.44671441	0.53		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.273493%
Sb 206.834	Sb	nu	-0.05826628	-0.05826628	mg/L	-174.19197025	0.00306928	5.26767427	7.46512024	4.29	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.05509%
Se 196.026	Se	n	0.01229304	0.01229304	mg/L	83.47617737	0.00434790	35.36877815	10.76692592	12.90	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.016510%
Si 251.611	Si	n	3.49757365	3.49757365	mg/L	26515.68852567	0.02189332	0.62595747	165.14878971	0.62		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	3.486827%
Sn 189.925	Sn	n	0.05739783	0.05739783	mg/L	477.38002732	0.00097449	1.69777673	7.63225926	1.60	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.057076%
Sr 421.552	Sr-R	n	0.01594472	0.01594472	mg/L	7291.84600407	0.00003199	0.20063804	14.52310522	0.20	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.015908%
Ti 334.941	Ti	n	0.13769779	0.13769779	mg/L	41598.46735242	0.00261007	1.89550617	780.87954989	1.88	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.139962%
Tl 190.794	Tl	nu	-0.00863694	-0.00863694	mg/L	-12.15407639	0.00203112	23.51666450	4.61866456	38.00	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.00804%
V 292.401	V	n	0.00575137	0.00575137	mg/L	108.70030887	0.00034791	6.04922988	11.14230771	10.25	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.005754%
Zn 206.200	Zn	no	293.21276772	293.21276772	mg/L	11696341.53894890	1.86529625	0.63615792	74403.78516281	0.64	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	295.3626%
Y 371.029	Y		0.89	0.89	Ratio	463056.60	0.02	1.77	8174.48	1.77		-	-	-	Fitted	-	-	0.87
Y 371.029	Y-R		1.02	1.02	Ratio	128355.99	0.00	0.06	79.81	0.06		-	-	-	Fitted	-	-	1.02

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-017	Client ID: ARCH-C8E-DG-7.5 TO 8-DN-C8.6-VS-231023-L-LA
Seqnum: 673428353072	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 15:04
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.008	50	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	461910	-10.97

U=USE

Label: 494421-017,325072 Rack/Tube: 1:47 Type: Sample
 Date Time: 10/24/2023 3:04:58 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00161516	0.00161516	mg/L	639.28594526	0.00014047	8.69675285	9.60595620	1.50		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00158435
Al 396.152	Al	n	2.05955523	2.05955523	mg/L	65606.93758286	0.02642480	1.28303432	825.03941414	1.26	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	2.02908676
As 188.980	As	n	0.04790664	0.04790664	mg/L	192.78463302	0.00251656	5.25305538	9.59121912	4.98	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.04513093
B 249.678	B	n	0.02250746	0.02250746	mg/L	1212.81355149	0.00032393	1.43922778	11.28364211	0.93	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02283708
Ba 230.424	Ba	n	0.05102654	0.05102654	mg/L	4445.19756105	0.00076836	1.50580535	63.52693645	1.43	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.05013988
Be 313.107	Be	n	0.00002202	0.00002202	mg/L	95.96217534	0.00001362	61.82375416	28.03056462	29.21	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00003111
Ca 317.933	Ca-R	n	7.84993731	7.84993731	mg/L	105562.42743432	0.02149427	0.27381454	285.76345455	0.27	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	7.83359209
Cd 214.439	Cd	n	0.00044552	0.00044552	mg/L	185.07534749	0.00004388	9.84819774	6.86990343	3.71	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00048692
Co 230.786	Co	n	0.00833725	0.00833725	mg/L	346.16264699	0.00058964	7.07240078	20.82938031	6.02	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00770875
Cr 267.716	Cr	n	0.04403206	0.04403206	mg/L	2596.97311691	0.00057504	1.30595975	33.16317470	1.28	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.04336953
Cu 324.754	Cu	n	2.01640984	2.01640984	mg/L	70125.44257070	0.01373714	0.68126726	474.39594788	0.68	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	2.00674505
Fe 259.940	Fe	no	51.19341236	51.19341236	mg/L	2749078.99445856	0.57730108	1.12768627	30998.87035062	1.13	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	50.53399585
K 766.491	K-R	n	1.98220706	1.98220706	mg/L	2876.85464321	0.04760342	2.40153623	67.35653306	2.34	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	1.93275650
Li 670.783	Li-R	n	0.00400636	0.00400636	mg/L	449.45289944	0.00098894	24.68434873	103.49492487	23.03	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00486141
Mg 279.800	Mg-R	n	3.55413036	3.55413036	mg/L	8146.39563199	0.01188076	0.33428048	26.73040714	0.33	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.54495528
Mn 257.610	Mn	n	0.26995908	0.26995908	mg/L	101451.60556374	0.00458022	1.69663460	1710.44166401	1.69	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.26482527
Mo 204.598	Mo	n	0.00189753	0.00189753	mg/L	24.20257359	0.00157508	83.00725492	10.64610209	43.99	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00367315
Na 589.592	Na-R	n	5.04489091	5.04489091	mg/L	52596.21056989	0.01821943	0.36114614	187.03899184	0.36	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.05271829
Ni 231.604	Ni	n	0.09202979	0.09202979	mg/L	1927.59968140	0.00124783	1.35589820	24.88917889	1.29	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.09062723
P 177.434	P	n	1.10682873	1.10682873	mg/L	523.57051260	0.00650475	0.58769282	3.06085533	0.58		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.09933325
Pb 220.353	Pb	n	1.00814927	1.00814927	mg/L	7841.09462826	0.01009345	1.00118619	78.70250312	1.00	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.99651582
S 181.972	S	n	3.25324032	3.25324032	mg/L	4069.88447296	0.01220632	0.37520501	14.98111044	0.37		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.26259004
Sb 206.834	Sb	nu	-0.01263689	-0.01263689	mg/L	-64.08786431	0.00369176	29.21411904	8.97911529	14.01	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.01468738
Se 196.026	Se	n	0.01509209	0.01509209	mg/L	91.94241790	0.00387540	25.67837900	9.59686674	10.44	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01093535
Si 251.611	Si	n	2.93769559	2.93769559	mg/L	22299.25164980	0.02733590	0.93052185	206.20399139	0.92		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	2.91333946
Sn 189.925	Sn	n	0.07828906	0.07828906	mg/L	640.48333885	0.00148556	1.89753337	11.63503136	1.82	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.07658205
Sr 421.552	Sr-R	n	0.01512877	0.01512877	mg/L	6914.59071312	0.00012770	0.84410555	57.97350696	0.84	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01504076
Ti 334.941	Ti	n	0.11454722	0.11454722	mg/L	34672.77002732	0.00379188	3.31031612	1134.45141380	3.27	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.11660959
Tl 190.794	Tl	nu	-0.00959129	-0.00959129	mg/L	-14.34635693	0.00099369	10.36037628	2.25960879	15.75	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.00973104
V 292.401	V	n	0.00534360	0.00534360	mg/L	104.95314276	0.00027504	5.14710631	8.80847911	8.39	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00522971
Zn 206.200	Zn	no	62.43467777	62.43467777	mg/L	2490897.40737281	0.86176621	1.38026853	34374.52256089	1.38	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	61.43967468
Y 371.029	Y	0.89	0.89	Ratio	461909.78	0.01	1.32	6074.47		1.32		-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R	1.02	1.02	Ratio	128150.66	0.01	0.62	798.83		0.62		-	-	-	Fitted	-	-	1.02

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-018	Client ID: ARCH-C9E-DG-7.5 TO 8-DN-C9.3-VS-231023-L-LA
Seqnum: 673428353073	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 15:08
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.02 ft2 ⇒ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.256	110	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	458210	-11.68

U=USE

Label: 494421-018,325072 Rack: Tube: 1:48 Type: Sample
 Date Time: 10/24/2023 3:08:06 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00115558	0.00115558	mg/L	606.98259853	0.00003317	2.87058868	2.26849261	0.37		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00114318
Al 396.152	Al	n	2.22918394	2.22918394	mg/L	70915.89745354	0.05475079	2.45609139	1709.43821663	2.41	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	2.16813247
As 188.980	As	n	0.04993005	0.04993005	mg/L	204.38580785	0.00424374	8.49936705	16.17389998	7.91	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.04813695
B 249.678	B	n	0.02402008	0.02402008	mg/L	1246.07295111	0.00044798	1.86501698	15.60452187	1.25	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02427625
Ba 230.424	Ba	n	0.01164092	0.01164092	mg/L	1192.82267217	0.00065004	5.58410841	53.74450225	4.51	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.01089636
Be 313.107	Be	nu	-0.00000736	-0.00000736	mg/L	40.19961502	0.00000377	51.21448557	7.76412440	19.31	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	-0.00000360
Ca 317.933	Ca-R	n	8.11953455	8.11953455	mg/L	109159.37130262	0.10241658	1.26136027	1361.61483100	1.25	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	8.21194888
Cd 214.439	Cd	n	0.00061356	0.00061356	mg/L	276.73199750	0.00016399	26.72710858	25.67633690	9.28	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00049466
Co 230.786	Co	n	0.01443549	0.01443549	mg/L	563.21691111	0.00004841	0.33535563	1.71010952	0.30	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.01438805
Cr 267.716	Cr	n	0.03068435	0.03068435	mg/L	1828.92179498	0.00111070	3.61975715	64.05510175	3.50	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.02947782
Cu 324.754	Cu	n	3.36773291	3.36773291	mg/L	116786.20054304	0.07161382	2.12646958	2473.08876884	2.12	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	3.28885837
Fe 259.940	Fe	no	81.99206163	81.99206163	mg/L	4402850.25134911	1.67523255	2.04316432	89953.61038080	2.04	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	80.10043260
K 766.491	K-R	n	2.19216328	2.19216328	mg/L	3152.90127011	0.03784424	1.72634223	53.54776596	1.70	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.22615261
Li 670.783	Li-R	n	0.00547716	0.00547716	mg/L	615.16933981	0.00060507	11.04720988	63.32213059	10.29	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00552323
Mg 279.800	Mg-R	n	4.09213450	4.09213450	mg/L	9389.02663439	0.05718909	1.39753697	128.66914288	1.37	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	4.14234581
Mn 257.610	Mn	n	0.38226426	0.38226426	mg/L	143441.48938139	0.00716365	1.87400357	2675.19914061	1.87	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.37429294
Mo 204.598	Mo	n	0.00221191	0.00221191	mg/L	26.94507063	0.00021550	9.74287225	1.45660341	5.41	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00243826
Na 589.592	Na-R	n	5.66597602	5.66597602	mg/L	58879.97889036	0.08353376	1.47430481	857.54991602	1.46	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.74498889
Ni 231.604	Ni	n	0.44351730	0.44351730	mg/L	8941.89917798	0.00834029	1.88048766	166.35509072	1.86	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.43412483
P 177.434	P	n	1.22463677	1.22463677	mg/L	579.01795943	0.01922862	1.57014875	9.04815618	1.56		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.20768896
Pb 220.353	Pb	n	2.25580561	2.25580561	mg/L	17571.99884829	0.03440403	1.52513282	268.26140611	1.53	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	2.21781569
S 181.972	S	n	3.79498212	3.79498212	mg/L	4730.35069640	0.00492190	0.12969494	6.04076566	0.13		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.79393356
Sb 206.834	Sb	n	0.00359569	0.00359569	mg/L	-20.63393963	0.00303072	84.28764170	7.37134757	35.72	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.00086033
Se 196.026	Se	n	0.01365820	0.01365820	mg/L	81.36799274	0.00349006	25.55286588	8.64262425	10.62	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01065784
Si 251.611	Si	n	3.90119463	3.90119463	mg/L	29536.90078490	0.05568941	1.42749627	420.08415219	1.42		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	3.84350839
Sn 189.925	Sn	n	0.12972879	0.12972879	mg/L	1045.70866455	0.00390761	3.01213589	30.60468944	2.93	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.12543322
Sr 421.552	Sr-R	n	0.01566921	0.01566921	mg/L	7161.81002210	0.00014126	0.90148944	64.12641070	0.90	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01574784
Ti 334.941	Ti	n	0.15985259	0.15985259	mg/L	48225.37962890	0.01142382	7.14647284	3417.77355209	7.09	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.14984856
Tl 190.794	Tl	nu	-0.00915878	-0.00915878	mg/L	-13.26483203	0.00086896	9.48775978	1.97597728	14.90	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.00872788
V 292.401	V	n	0.00687974	0.00687974	mg/L	112.25863067	0.00013358	1.94163537	4.27802679	3.81	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00673022
Zn 206.200	Zn	n	12.28099464	12.28099464	mg/L	490634.17049808	0.18832423	1.53346073	7511.96251261	1.53	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	12.06837240
Y 371.029	Y	0.88	0.88	Ratio	458209.81	0.01	1.43	6551.88	1.43			-	-	-	Fitted	-	-	0.87
Y 371.029	Y-R	1.01	1.01	Ratio	127505.74	0.01	1.31	1667.44	1.31			-	-	-	Fitted	-	-	1.01

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-019	Client ID: ARCH-C8E-DG-8 TO 9-DN-C8.6-VS-231023-L-LA
Seqnum: 673428353076	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 15:17
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.02 ft2 ⇒ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.673	82	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	455209	-12.26

U=USE

Label: 494421-019,325072 Rack: Tube: 1:49 Type: Sample
 Date Time: 10/24/2023 3:17:28 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00134275	0.00134275	mg/L	621.19790728	0.00032664	24.32589649	22.33734261	3.60		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00148785
Al 396.152	Al	n	1.04174351	1.04174351	mg/L	33825.60851964	0.01406950	1.35057258	439.28028386	1.30	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.02590505
As 188.980	As	n	0.03282396	0.03282396	mg/L	133.33058959	0.00129836	3.95553470	4.94837168	3.71	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.03422157
B 249.678	B	n	0.02361747	0.02361747	mg/L	1260.88333161	0.00047497	2.01108711	16.54464641	1.31	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02416325
Ba 230.424	Ba	n	0.00978441	0.00978441	mg/L	1033.36253840	0.00025496	2.60579542	21.07987592	2.04	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00962835
Be 313.107	Be	nu	-0.00000773	-0.00000773	mg/L	32.40420897	0.00000377	48.81209628	7.76289135	23.96	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	-0.00000053
Ca 317.933	Ca-R	n	11.44386169	11.44386169	mg/L	153336.71829815	0.12900777	1.12730976	1715.14111662	1.12	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	11.4049431
Cd 214.439	Cd	n	0.00055219	0.00055219	mg/L	168.79797890	0.00013487	24.42449330	21.11730880	12.51	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00054573
Co 230.786	Co	n	0.00537269	0.00537269	mg/L	240.62792174	0.00057994	10.79428387	20.48672002	8.51	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00499498
Cr 267.716	Cr	n	0.01996345	0.01996345	mg/L	1208.30534392	0.00032158	1.61084665	18.54586843	1.53	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.01991785
Cu 324.754	Cu	n	0.98283627	0.98283627	mg/L	34435.13629438	0.01263838	1.28590886	436.45152257	1.27	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.96883881
Fe 259.940	Fe	no	35.33622794	35.33622794	mg/L	1897608.33697546	0.53440727	1.51234951	28695.63606995	1.51	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	34.7198886
K 766.491	K-R	n	2.08630551	2.08630551	mg/L	3034.48659712	0.03336235	1.59911131	47.20610469	1.56	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.10521335
Li 670.783	Li-R	n	0.00287714	0.00287714	mg/L	326.99045227	0.00043896	15.25668684	45.93760066	14.05	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00331977
Mg 279.800	Mg-R	n	3.28275304	3.28275304	mg/L	7519.65033134	0.02401673	0.73160321	54.03498308	0.72	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.27613931
Mn 257.610	Mn	n	0.19925359	0.19925359	mg/L	75023.12306621	0.00344241	1.72765153	1285.53621616	1.71	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.19617835
Mo 204.598	Mo	n	0.01147476	0.01147476	mg/L	88.58403725	0.00138493	12.06936127	9.36083828	10.57	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.01025735
Na 589.592	Na-R	n	5.56994672	5.56994672	mg/L	58032.65830910	0.04777613	0.85774846	490.46540881	0.85	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.55003005
Ni 231.604	Ni	n	0.08017226	0.08017226	mg/L	1689.36776053	0.00128905	1.60785038	25.71134525	1.52	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.07868465
P 177.434	P	n	1.07903515	1.07903515	mg/L	510.53713461	0.00041491	0.03845240	0.19524100	0.04		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.07914015
Pb 220.353	Pb	n	1.67339176	1.67339176	mg/L	13028.75328262	0.00896680	0.53584585	69.91757426	0.54	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.66341365
S 181.972	S	n	3.77783497	3.77783497	mg/L	4715.95456603	0.01956622	0.51792155	24.01409315	0.51		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.78765215
Sb 206.834	Sb	nu	-0.04583450	-0.04583450	mg/L	-146.80284695	0.00202694	4.42230933	4.92994618	3.36	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.0480987
Se 196.026	Se	n	0.01549203	0.01549203	mg/L	96.45030828	0.00270558	17.46431490	6.69995976	6.95	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01846371
Si 251.611	Si	n	2.52422992	2.52422992	mg/L	19194.75152718	0.01339895	0.53081357	101.07287629	0.53		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	2.53966625
Sn 189.925	Sn	n	0.06145974	0.06145974	mg/L	507.52605778	0.00064911	1.05615605	5.08388694	1.00	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.06105655
Sr 421.552	Sr-R	n	0.01820549	0.01820549	mg/L	8326.30597094	0.00018781	1.03158717	85.25845968	1.02	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01800975
Ti 334.941	Ti	n	0.08125599	0.08125599	mg/L	24713.44420215	0.00472545	5.81550607	1413.75700019	5.72	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.07947107
Tl 190.794	Tl	nu	-0.00840633	-0.00840633	mg/L	-11.69699578	0.00146698	17.45092512	3.33584218	28.52	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.0100816
V 292.401	V	n	0.00436941	0.00436941	mg/L	94.29193315	0.00026671	6.10404773	8.54171271	9.06	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00439481
Zn 206.200	Zn	no	240.09198583	240.09198583	mg/L	9577226.76187773	1.09464943	0.45592918	43663.87433216	0.46	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	238.931105
Y 371.029	Y		0.88	0.88	Ratio	455208.92	0.02	1.94	8814.40	1.94		-	-	-	Fitted	-	-	0.86
Y 371.029	Y-R		1.01	1.01	Ratio	127267.37	0.01	1.03	1314.63	1.03		-	-	-	Fitted	-	-	1.02

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-020	Client ID: 231023-L-FIELDBLANK2-LO
Seqnum: 673428353077	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325072	Time: 24-OCT-2023 15:20
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.006772	ND	0.50	0.12	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	463701	-10.62

U=USE

Label: 494421-020,325072 Rack: Tube: 1:50 Type: Sample
 Date Time: 10/24/2023 3:20:34 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Co Re
Ag 328.068	Ag	n	0.00041492	0.00041492	mg/L	558.11932420	0.00036821	88.74198139	25.18053394	4.51		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00081359	0.0
Al 396.152	Al	n	0.03898580	0.03898580	mg/L	2497.51746247	0.00120838	3.09954329	37.72829581	1.51	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.04036604	0.0
As 188.980	As	n	0.02632922	0.02632922	mg/L	104.48308234	0.00110742	4.20606502	4.22065812	4.04	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.02664771	0.0
B 249.678	B	n	0.02456347	0.02456347	mg/L	1315.11641914	0.00074547	3.03488905	25.96724036	1.97	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02533486	0.0
Ba 230.424	Ba	n	0.00725170	0.00725170	mg/L	819.55131773	0.00004774	0.65828756	3.94682879	0.48	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00729369	0.0
Be 313.107	Be	n	0.00001013	0.00001013	mg/L	64.06259566	0.00000618	60.96636339	12.72007015	19.86	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00001184	0.0
Ca 317.933	Ca-R	n	4.08403369	4.08403369	mg/L	55475.54419410	0.03711239	0.90871902	493.40429469	0.89	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	4.05811192	4.0
Cd 214.439	Cd	n	0.00028958	0.00028958	mg/L	58.95543561	0.00011007	38.01161643	17.23505608	29.23	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00040747	0.0
Co 230.786	Co	nu	0.00036807	0.00036807	mg/L	62.08295536	0.00042737	116.11363624	15.09717704	24.32	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00081883	0.0
Cr 267.716	Cr	n	0.00210593	0.00210593	mg/L	176.07193166	0.00017515	8.31689841	10.10094490	5.74	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00203643	0.0
Cu 324.754	Cu	n	0.01990214	0.01990214	mg/L	1186.79139402	0.00079237	3.98134949	27.36369486	2.31	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.02081074	0.0
Fe 259.940	Fe	n	0.13472548	0.13472548	mg/L	7419.74570589	0.00073893	0.54847408	39.67796063	0.53	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.13525640	0.0
K 766.491	K-R	n	2.27647396	2.27647396	mg/L	3326.85347054	0.0093641	0.43648243	14.05953697	0.42	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.28772151	2.0
Li 670.783	Li-R	n	0.00307034	0.00307034	mg/L	331.89694971	0.00067818	22.08804531	70.97259436	21.38	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00350057	0.0
Mg 279.800	Mg-R	n	2.93719417	2.93719417	mg/L	6708.14764985	0.03101815	1.05604693	69.78741000	1.04	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	2.91749660	2.0
Mn 257.610	Mn	n	0.00812465	0.00812465	mg/L	3592.82241237	0.00003951	0.48635481	14.75638873	0.41	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.00814163	0.0
Mo 204.598	Mo	n	0.00296911	0.00296911	mg/L	30.42805235	0.00070657	23.79737019	4.77575608	15.70	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00236438	0.0
Na 589.592	Na-R	n	5.21142033	5.21142033	mg/L	54454.18817222	0.03625142	0.69561492	372.15373935	0.68	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	5.18741292	5.0
Ni 231.604	Ni	nu	0.00032519	0.00032519	mg/L	92.84068980	0.00043747	134.52720253	8.72576190	9.40	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00041736	-0.0
P 177.434	P	n	1.42901164	1.42901164	mg/L	675.12736530	0.01073470	0.75119783	5.05128749	0.75		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.42064393	1.0
Pb 220.353	Pb	n	0.00677219	0.00677219	mg/L	32.50070498	0.00058300	8.60877323	4.54589616	13.99	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.00633720	0.0
S 181.972	S	n	3.31415550	3.31415550	mg/L	4151.35052548	0.01627306	0.49101692	19.97232253	0.48		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	3.32931025	3.0
Sb 206.834	Sb	nu	-0.01613035	-0.01613035	mg/L	-78.60939253	0.00543259	33.67929199	13.21317932	16.81	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.01784659	-0.0
Se 196.026	Se	n	0.01903078	0.01903078	mg/L	112.58133757	0.00429049	22.54499837	10.62476211	9.44	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01768911	0.0
Si 251.611	Si	n	0.49598942	0.49598942	mg/L	3929.17808890	0.00862295	1.73853459	65.04582832	1.66		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	0.48627978	0.0
Sn 189.925	Sn	n	0.04009241	0.04009241	mg/L	337.59731752	0.00134346	3.35091476	10.52210487	3.12	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.04067766	0.0
Sr 421.552	Sr-R	n	0.01004644	0.01004644	mg/L	4590.37626861	0.00009470	0.94265898	42.99281100	0.94	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01002752	0.0
Ti 334.941	Ti	n	0.00121959	0.00121959	mg/L	770.84431974	0.00027440	22.49940246	82.09492153	10.65	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00093782	0.0
Tl 190.794	Tl	nu	-0.01358419	-0.01358419	mg/L	-23.63720624	0.00092494	6.80896084	2.10327097	8.90	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.01344166	-0.0
V 292.401	V	n	0.00040025	0.00040025	mg/L	12.35560878	0.00015123	37.78503163	4.84342738	39.20	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00055741	0.0
Zn 206.200	Zn	n	1.05733141	1.05733141	mg/L	42198.65534250	0.00322671	0.30517442	128.70827820	0.31	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	1.05515567	1.0
Y 371.029	Y	0.89	0.89	Ratio	463701.34	0.02	2.06	9534.16	2.06			-	-	-	Fitted	-	-	0.87	0.0
Y 371.029	Y-R	1.04	1.04	Ratio	130782.07	0.01	1.08	1406.33	1.08			-	-	-	Fitted	-	-	1.05	1.0

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 494421-021	Client ID: 231023-L-MEDBLANK2-LO
Seqnum: 673428353088	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 325074	Time: 24-OCT-2023 15:54
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.003990	ND	0.50	0.17	U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	518823	459586	-11.42

U=USE

Label: 494421-021,325074 Rack: Tube: 2:2 Type: Sample
 Date Time: 10/24/2023 3:54:52 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00069559	0.00069559	mg/L	577.16409279	0.00032485	46.70085601	22.21502724	3.85		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00104649
Al 396.152	Al	n	0.02877558	0.02877558	mg/L	2176.65382955	0.00156034	5.42244846	48.71722223	2.24	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.03046523
As 188.980	As	n	0.02323726	0.02323726	mg/L	92.69794613	0.00115048	4.95100165	4.38474278	4.73	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.02196047
B 249.678	B	n	0.02862027	0.02862027	mg/L	1456.70333542	0.00055075	1.92432101	19.18423674	1.32	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.02892000
Ba 230.424	Ba	n	0.00595933	0.00595933	mg/L	712.64451340	0.00028562	4.79290094	23.61503777	3.31	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00610697
Be 313.107	Be	n	0.00005734	0.00005734	mg/L	161.20589326	0.00000952	16.60517014	19.60256387	12.16	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00006638
Ca 317.933	Ca-R	n	1.76905158	1.76905158	mg/L	24698.24170516	0.02071056	1.17071537	275.34412193	1.11	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	1.79008349
Cd 214.439	Cd	n	0.00016551	0.00016551	mg/L	39.49773239	0.00008760	52.92698203	13.71641400	34.73	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00017988
Co 230.786	Co	n	0.00064707	0.00064707	mg/L	71.92663143	0.00023580	36.44106661	8.32975904	11.58	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00088892
Cr 267.716	Cr	n	0.00201103	0.00201103	mg/L	170.42495513	0.00095603	47.53945310	55.13523147	32.35	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00301813
Cu 324.754	Cu	n	0.02007378	0.02007378	mg/L	1192.60480938	0.00042702	2.12726633	14.74672735	1.24	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.02053352
Fe 259.940	Fe	n	0.11882516	0.11882516	mg/L	6565.84731443	0.00074774	0.62927656	40.15073130	0.61	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.11870425
K 766.491	K-R	n	1.98004103	1.98004103	mg/L	2907.73327671	0.05109453	2.58047835	72.29628385	2.49	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	1.97867175
Li 670.783	Li-R	n	0.00289739	0.00289739	mg/L	312.83721330	0.00046739	16.13158916	48.91378154	15.64	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00325479
Mg 279.800	Mg-R	n	3.06672435	3.06672435	mg/L	6999.50462879	0.03735218	1.21798305	84.03828651	1.20	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	3.10209259
Mn 257.610	Mn	n	0.00426491	0.00426491	mg/L	2150.80276319	0.00000382	0.08950701	1.42557231	0.07	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.00426490
Mo 204.598	Mo	n	0.00818610	0.00818610	mg/L	65.69249637	0.00132103	16.13742219	8.92890502	13.59	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00762117
Na 589.592	Na-R	n	4.30935091	4.30935091	mg/L	45194.93179946	0.05581416	1.29518728	572.98311464	1.27	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	4.35760831
Ni 231.604	Ni	nu	0.00022802	0.00022802	mg/L	90.85010967	0.00044479	195.06209631	8.87167572	9.77	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00064711
P 177.434	P	n	1.41524204	1.41524204	mg/L	668.62010573	0.00600660	0.42442242	2.82644823	0.42		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	1.41407568
Pb 220.353	Pb	n	0.00399031	0.00399031	mg/L	10.88920946	0.00113680	28.48910772	8.86409974	81.40	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.00332219
S 181.972	S	n	2.58199101	2.58199101	mg/L	3252.70772605	0.01101980	0.42679455	13.52486137	0.42		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	2.58877565
Sb 206.834	Sb	n	0.03720311	0.03720311	mg/L	51.13037786	0.00101449	2.72690413	2.46745785	4.83	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.03636542
Se 196.026	Se	n	0.02232557	0.02232557	mg/L	120.74538138	0.00100889	4.51898212	2.49836340	2.07	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.02220946
Si 251.611	Si	n	0.50740032	0.50740032	mg/L	4015.93722150	0.00709424	1.39815487	53.51428335	1.33		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	0.49956146
Sn 189.925	Sn	n	0.04475444	0.04475444	mg/L	374.07891291	0.00032537	0.72700226	2.54829037	0.68	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.04508014
Sr 421.552	Sr-R	n	0.00774872	0.00774872	mg/L	3537.45225790	0.00010135	1.30792702	46.00896814	1.30	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00784646
Ti 334.941	Ti	n	0.00371468	0.00371468	mg/L	1517.53607120	0.00054494	14.67000217	163.03587363	10.74	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00322637
Tl 190.794	Tl	nu	-0.01069073	-0.01069073	mg/L	-17.07315666	0.00122611	11.46888449	2.78810557	16.33	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.01203611
V 292.401	V	nu	-0.00001885	-0.00001885	mg/L	-0.67803991	0.00030940	1641.21629330	9.90890924	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00007290
Zn 206.200	Zn	n	0.62704319	0.62704319	mg/L	25034.87481909	0.00479844	0.76524912	191.40245425	0.76	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.62150661
Y 371.029	Y		0.89	0.89	Ratio	459586.44	0.01	1.40	6413.24	1.40		-	-	-	Fitted	-	-	0.87
Y 371.029	Y-R		1.03	1.03	Ratio	129392.76	0.01	0.87	1123.51	0.87		-	-	-	Fitted	-	-	1.02

ENTHALPY BLANK USER REPORT FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	Lab ID: QC1102274	
Seqnum: 673428353049.1	Matrix: Wipe	
File: icp data	Batch: 325072	Time: 24-OCT-2023 13:53
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 $\Rightarrow$ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Flags
Lead	A	0.002363	ND	0.50	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BLANK Abund	%Drift
Yttrium	A	518823	465630	-10.25

u=use

Label: BLANK, QC1102274, 325072

Rack/Tube: 1:28

Type: Sample

Date Time: 10/24/2023 1:53:12 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00045374	0.00045374	mg/L	560.61846306	0.00025497	56.19344520	17.43634207	3.11		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00074493
Al 396.152	Al	n	0.02434026	0.02434026	mg/L	2035.65502115	0.00018709	0.76863148	5.84125838	0.29	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.02419431
As 188.980	As	n	0.00169735	0.00169735	mg/L	10.56731368	0.00181441	106.89630804	6.91513575	65.44	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.00013105
B 249.678	B	n	0.00819737	0.00819737	mg/L	745.69206876	0.00047909	5.84444398	16.68825505	2.24	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00829808
Ba 230.424	Ba	n	0.00108217	0.00108217	mg/L	309.22565137	0.00022186	20.50114246	18.34286837	5.93	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00124978
Be 313.107	Be	n	0.00033310	0.00033310	mg/L	728.76757514	0.00001095	3.28780244	22.54558707	3.09	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00032050
Ca 317.933	Ca-R	n	0.02480230	0.02480230	mg/L	1506.69299602	0.00063887	2.57584281	8.49366983	0.56	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	0.02482301
Cd 214.439	Cd	n	0.00049275	0.00049275	mg/L	90.54098024	0.00002976	6.03923354	4.65942350	5.15	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00051872
Co 230.786	Co	nu	0.00017127	0.00017127	mg/L	55.11439471	0.00035668	208.25533270	12.59970580	22.86	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00015169
Cr 267.716	Cr	n	0.01067266	0.01067266	mg/L	669.64008502	0.00043589	4.08414293	25.13801809	3.75	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.01017735
Cu 324.754	Cu	n	0.00294307	0.00294307	mg/L	600.72686855	0.00123741	42.04475204	42.73238859	7.11	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00433877
Fe 259.940	Fe	n	0.04575339	0.04575339	mg/L	2636.57912655	0.01336266	29.20584241	717.52407752	27.21	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.06001461
K 766.491	K-R	nu	0.00023278	0.00023278	mg/L	107.36470975	0.02544449	10930.89628593	36.00272250	33.53	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	0.02960797
Li 670.783	Li-R	n	0.00185631	0.00185631	mg/L	202.34743376	0.00019237	10.36283521	20.13152245	9.95	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00177183
Mg 279.800	Mg-R	nu	-0.00626973	-0.00626973	mg/L	85.47520061	0.00362113	57.75570947	8.14713569	9.53	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	-0.01035402
Mn 257.610	Mn	n	0.00341343	0.00341343	mg/L	1830.49805228	0.00009606	2.81404296	35.87099138	1.96	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.00341395
Mo 204.598	Mo	n	0.01368092	0.01368092	mg/L	102.84341068	0.00313999	22.95156304	21.22338715	20.64	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.01104709
Na 589.592	Na-R	n	0.26401912	0.26401912	mg/L	3667.19811900	0.07195059	27.25203761	738.63818497	20.14	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.34419391
Ni 231.604	Ni	nu	-0.00062931	-0.00062931	mg/L	73.62164354	0.00055759	88.60363720	11.12169221	15.11	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	-0.00028138
P 177.434	P	n	0.01715657	0.01715657	mg/L	10.71879219	0.00509932	29.72225370	2.39951840	22.39		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.01857427
Pb 220.353	Pb	n	0.00236330	0.00236330	mg/L	-1.80492383	0.00041195	17.43116677	3.21213250	> 100.00	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.00257628
S 181.972	S	n	0.64973353	0.64973353	mg/L	881.28534508	0.04279369	6.58634521	52.52172707	5.96		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.60119114
Sb 206.834	Sb	n	0.00592966	0.00592966	mg/L	-24.91700425	0.00264139	44.54535380	6.42440261	25.78	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.00523067
Se 196.026	Se	n	0.00953765	0.00953765	mg/L	89.04385089	0.00176986	18.55657788	4.38280010	4.92	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.00773585
Si 251.611	Si	n	0.29182341	0.29182341	mg/L	2390.82639938	0.04325989	14.82399545	326.32406909	13.65		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	0.24370378
Sn 189.925	Sn	n	0.03162629	0.03162629	mg/L	271.15548539	0.00033073	1.04574960	2.59031742	0.96	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.03125003
Sr 421.552	Sr-R	n	0.00029614	0.00029614	mg/L	146.63471739	0.00008928	30.14894348	40.53269938	27.64	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00022558
Ti 334.941	Ti	n	0.00230206	0.00230206	mg/L	1094.86129799	0.00061227	26.59666262	183.17883353	16.73	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00163085
Tl 190.794	Tl	nu	-0.00218733	-0.00218733	mg/L	2.24438692	0.00049544	22.65057114	1.12661027	50.20	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21274477347766	2273.94856269028	-0.00266178
V 292.401	V	n	0.00060955	0.00060955	mg/L	19.90813295	0.00037176	60.98942955	11.90596464	59.80	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00021211
Zn 206.200	Zn	n	0.03946484	0.03946484	mg/L	1596.00777468	0.00002229	0.05647727	0.88906031	0.06	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.03948812
Y 371.029	Y		0.90	0.90	Ratio	465629.58	0.03	2.82	13136.72	2.82		-	-	-	Fitted	-	-	0.87
Y 371.029	Y-R		1.03	1.03	Ratio	129231.55	0.01	0.70	904.28	0.70		-	-	-	Fitted	-	-	1.03

ENTHALPY BLANK USER REPORT FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	Lab ID: QC1102278	
Seqnum: 673428353085.1	Matrix: Wipe	
File: icp data	Batch: 325074	Time: 24-OCT-2023 15:45
Cal: 673428353001	Caldate: 24-OCT-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 $\Rightarrow$ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Flags
Lead	A	0.003470	ND	0.50	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BLANK Abund	%Drift
Yttrium	A	518823	468943	-9.61

u=use

Label: BLANK, QC1102278, 325074

Rack/Tube: 1:59

Type: Sample

Date Time: 10/24/2023 3:45:31 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID:

Customer:

Customer Ref.:

Sample Date Time:

Sample Site:

Description:

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	C	R
Ag 328.068	Ag	n	0.00059340	0.00059340	mg/L	570.17064494	0.00031936	53.81933103	21.83999734	3.83		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00052372	C	
Al 396.152	Al	n	0.02345533	0.02345533	mg/L	2008.04915169	0.00065229	2.78100471	20.36602660	1.01	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.02417317	C	
As 188.980	As	n	0.00104560	0.00104560	mg/L	8.08351799	0.00079943	76.45641189	3.04680815	37.69	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.00196570	C	
B 249.678	B	n	0.00493291	0.00493291	mg/L	631.97687769	0.00065929	13.36508249	22.96509812	3.63	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00558039	C	
Ba 230.424	Ba	n	0.00105640	0.00105640	mg/L	307.09538849	0.00038908	36.83059001	32.16834024	10.48	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00149810	C	
Be 313.107	Be	n	0.00026727	0.00026727	mg/L	593.24410830	0.00001457	5.45184543	29.99659906	5.06	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00026707	C	
Ca 317.933	Ca-R	n	0.04463166	0.04463166	mg/L	1770.32454855	0.00290044	6.49862350	38.56101477	2.18	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	0.04675175	C	
Cd 214.439	Cd	n	0.00031763	0.00031763	mg/L	63.12427425	0.00007991	25.15729814	12.51147058	19.82	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00037933	C	
Co 230.786	Co	n	0.00065161	0.00065161	mg/L	72.08289447	0.00040641	62.37017482	14.35665080	19.92	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00053547	C	
Cr 267.716	Cr	n	0.00158430	0.00158430	mg/L	145.50752988	0.00054193	34.20647496	31.25385374	21.48	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00110987	C	
Cu 324.754	Cu	n	0.00342184	0.00342184	mg/L	617.26177355	0.00099828	29.17379869	34.47445284	5.59	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00455745	C	
Fe 259.940	Fe	n	0.02485612	0.02485612	mg/L	1514.48515304	0.00039470	1.58794274	21.19393954	1.40	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.02466280	C	
K 766.491	K-R	nu	0.00349896	0.00349896	mg/L	111.98146662	0.02322733	663.83442361	32.86553939	29.35	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	0.02380615	-	
Li 670.783	Li-R	n	0.00101214	0.00101214	mg/L	114.01556038	0.00109252	107.94151923	114.33473522	> 100.00	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00034544	C	
Mg 279.800	Mg-R	nu	-0.00507261	-0.00507261	mg/L	88.17054739	0.00635854	125.35054489	14.30601345	16.23	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	0.00192243	-	
Mn 257.610	Mn	n	0.00078840	0.00078840	mg/L	850.21545450	0.00001836	2.32876911	6.85634693	0.81	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.00080955	C	
Mo 204.598	Mo	n	0.00682645	0.00682645	mg/L	56.51342464	0.00100592	14.73565077	6.79909236	12.03	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00625385	C	
Na 589.592	Na-R	n	0.04484479	0.04484479	mg/L	1417.16031775	0.01636964	36.50286911	168.04918761	11.86	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.06352727	C	
Ni 231.604	Ni	n	0.00048048	0.00048048	mg/L	95.75819113	0.00029828	62.07993876	5.94948627	6.21	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00082476	C	
P 177.434	P	n	0.02281798	0.02281798	mg/L	13.38311164	0.00371037	16.26074170	1.74594079	13.05		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.02510803	C	
Pb 220.353	Pb	n	0.00347005	0.00347005	mg/L	6.82749402	0.00135620	39.08306105	10.57482093	> 100.00	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.00356589	C	
S 181.972	S	n	0.01966374	0.01966374	mg/L	107.98550921	0.00276279	14.05016210	3.39083463	3.14		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.02152459	C	
Sb 206.834	Sb	n	0.00733730	0.00733730	mg/L	-21.49328109	0.00467234	63.67922770	11.36409533	52.87	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.00286574	C	
Se 196.026	Se	n	0.00513322	0.00513322	mg/L	78.13665275	0.00276936	53.94968261	6.85790445	8.78	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.00730279	C	
Si 251.611	Si	n	0.06918886	0.06918886	mg/L	711.40949781	0.00620770	8.97210490	46.82676987	6.58		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	0.06297705	C	
Sn 189.925	Sn	n	0.02733774	0.02733774	mg/L	237.56773670	0.00065385	2.39176213	5.12103373	2.16	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.02804239	C	
Sr 421.552	Sr-R	n	0.00023810	0.00023810	mg/L	120.38558986	0.00003256	13.67515699	14.78147107	12.28	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00026428	C	
Ti 334.941	Ti	n	0.00162767	0.00162767	mg/L	893.09714452	0.00048846	30.00996744	146.13839491	16.36	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00119396	C	
Tl 190.794	Tl	nu	-0.00328958	-0.00328958	mg/L	-0.26194162	0.00331799	100.86355642	7.54493584	> 100.00	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.00016272	-	
V 292.401	V	nu	0.00020877	0.00020877	mg/L	7.06694555	0.00038896	186.31348779	12.45683048	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00059583	-	
Zn 206.200	Zn	n	0.01107893	0.01107893	mg/L	463.75203693	0.00009267	0.83647011	3.69654065	0.80	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.01103231	C	
Y 371.029	Y		0.90	0.90	Ratio	468943.09	0.02	1.93	9039.03	1.93		-	-	-	Fitted	-	-	0.88	C	
Y 371.029	Y-R		1.04	1.04	Ratio	130357.29	0.00	0.47	617.26	0.47		-	-	-	Fitted	-	-	1.03	C	

ENTHALPY SPIKE USER REPORT FOR 494421 METALS Wipe
EPA 6010B

Type: BS	Type: BSD
Inst: MET09	Inst: MET09
Seqnum: 673428353052.1	Seqnum: 673428353053.1
File: icp data	File: icp data
IDF: 1.0	IDF: 1.0
Lab ID: QC1102275	Lab ID: QC1102276
Matrix: Wipe	Matrix: Wipe
Batch: 325072	Batch: 325072
Time: 24-OCT-2023 14:02	Time: 24-OCT-2023 14:05
Cal: 673428353001	Cal: 673428353001
Units: ug/ft2	

- BS: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF
- BSD: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Lead	100.0	2.211	110.5	A	111	2.255	112.7	A	113	80-120	2	20	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BS Abund	%Drift
Yttrium	A	518823	462546	-10.85

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BSD Abund	%Drift
Yttrium	A	518823	466851	-10.02

U=use

Label: BS, QC1102275, 325072

Rack: Tube: 1:29

Type: Sample

Date Time: 10/24/2023 2:02:34 PM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Flags Replicate 1: _____

Flags Replicate 2: _____

Flags Replicate 3: _____

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	1.01668515	1.01668515	mg/L	70056.87905672	0.00192512	0.18935284	131.65136491	0.19		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	1.01488054
Al 396.152	Al	n	2.18199792	2.18199792	mg/L	69405.53683424	0.03116234	1.42815624	972.95562880	1.40	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	2.14861050
As 188.980	As	n	2.07394294	2.07394294	mg/L	7908.67714380	0.00762717	0.36776205	29.06898302	0.37	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	2.06573995
B 249.678	B	n	2.03672125	2.03672125	mg/L	71403.99941152	0.01250996	0.61422076	435.76199597	0.61	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	2.02293564
Ba 230.424	Ba	n	2.36791454	2.36791454	mg/L	195996.12657757	0.03552561	1.50029113	2937.20697761	1.50	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	2.32984121
Be 313.107	Be	n	2.28612166	2.28612166	mg/L	4706332.04912802	0.03767997	1.64820514	77569.29117597	1.65	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	2.24329986
Ca 317.933	Ca-R	n	2.12093226	2.12093226	mg/L	29376.66423366	0.01980959	0.93400396	263.36587649	0.90	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	2.14168165
Cd 214.439	Cd	n	2.16497879	2.16497879	mg/L	339002.63334324	0.01542646	0.71254570	2415.42272926	0.71	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	2.15308010
Co 230.786	Co	n	2.24343547	2.24343547	mg/L	79299.38520495	0.02737561	1.22025412	967.05381782	1.22	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	2.21405351
Cr 267.716	Cr	n	2.16952738	2.16952738	mg/L	125173.33666436	0.02835182	1.30682003	1635.07712792	1.31	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	2.13852133
Cu 324.754	Cu	n	2.19348377	2.19348377	mg/L	76248.52409710	0.02460989	1.12195461	849.87363724	1.11	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	2.16641091
Fe 259.940	Fe	n	2.26848678	2.26848678	mg/L	121993.19545677	0.02843705	1.25356904	1526.96121952	1.25	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.19314445126	2.23817197
K 766.491	K-R	n	19.45474013	19.45474013	mg/L	27631.91400095	0.17999169	0.92518168	254.67952057	0.92	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	19.65556439
Li 670.783	Li-R	n	2.03302474	2.03302474	mg/L	212770.02582741	0.01292588	0.63579568	1352.71904901	0.64	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	2.04633032
Mg 279.800	Mg-R	n	1.99735182	1.99735182	mg/L	4595.60900457	0.01607673	0.80490217	36.17086289	0.79	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	2.01353775
Mn 257.610	Mn	n	2.21951428	2.21951428	mg/L	829417.86122581	0.03157327	1.42253052	11790.75314687	1.42	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.01307225	2.18589095
Mo 204.598	Mo	n	2.29750385	2.29750385	mg/L	15539.46922347	0.05357516	2.33188532	362.11825726	2.33	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	2.23942357
Na 589.592	Na-R	n	3.35356430	3.35356430	mg/L	35373.32538471	0.05893927	1.75751114	605.06512052	1.71	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	3.41510691
Ni 231.604	Ni	n	2.19957337	2.19957337	mg/L	43959.15798992	0.02477540	1.12637311	494.16930736	1.12	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	2.17317518
P 177.434	P	n	0.02627453	0.02627453	mg/L	15.02124120	0.00513700	19.55127114	2.41725201	16.09		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.02455993
Pb 220.353	Pb	n	2.21051100	2.21051100	mg/L	17212.12703858	0.00953041	0.43114061	74.31225996	0.43	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	2.20084425
S 181.972	S	n	0.12267901	0.12267901	mg/L	234.24920490	0.00474395	3.86696056	5.82236235	2.49		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.11910650
Sb 206.834	Sb	n	1.98756427	1.98756427	mg/L	4794.90987716	0.01521777	0.76564906	37.01276417	0.77	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	1.97685366
Se 196.026	Se	n	1.86918458	1.86918458	mg/L	4693.81994180	0.00423936	0.22680285	10.49815858	0.22	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	1.86429107
Si 251.611	Si	n	9.80329921	9.80329921	mg/L	74135.84703904	0.07431755	0.75808716	560.60258651	0.76		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	9.72783900
Sn 189.925	Sn	n	0.02794441	0.02794441	mg/L	242.58660897	0.00123699	4.42660239	9.68818672	3.99	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.02683987
Sr 421.552	Sr-R	n	2.08168356	2.08168356	mg/L	945046.64426495	0.04156055	1.99648741	18867.33060944	2.00	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	2.12333834
Ti 334.941	Ti	n	2.22260106	2.22260106	mg/L	665362.42341927	0.05865243	2.63890942	17547.60576991	2.64	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	2.16133851
Tl 190.794	Tl	n	2.31833526	2.31833526	mg/L	5279.06193283	0.05577212	2.40569688	126.82292950	2.40	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	2.25857569
V 292.401	V	n	2.16818056	2.16818056	mg/L	69435.63440713	0.02802840	1.29271500	897.63964870	1.29	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	2.13818336
Zn 206.200	Zn	n	2.24929342	2.24929342	mg/L	89762.26214047	0.01427197	0.63450925	569.28702287	0.63	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	2.23666934
Y 371.029	Y		0.89	0.89	Ratio	462546.39	0.02	2.44	11274.13	2.44		-	-	-	Fitted	-	-	0.87
Y 371.029	Y-R		1.04	1.04	Ratio	130394.28	0.01	0.63	823.51	0.63		-	-	-	Fitted	-	-	1.03

Label: BSD, QC1102276, 325072 Rack: Tube: 1:30 Type: Sample
 Date Time: 10/24/2023 2:05:41 PM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3 Flags Replicate 1: Flags Replicate 2:
 Flags Replicate 3:

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	1.03426107	1.03426107	mg/L	71258.99090827	0.00255644	0.24717551	174.82465519	0.25		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	1.03293232
Al 396.152	Al	n	3.42807445	3.42807445	mg/L	108310.76001789	0.03316523	0.96745935	1035.49009993	0.96	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	3.39010268
As 188.980	As	n	2.11506277	2.11506277	mg/L	8065.40570191	0.00498758	0.23581230	19.00885019	0.24	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	2.10931459
B 249.678	B	n	2.05758203	2.05758203	mg/L	72130.59231060	0.00831582	0.40415520	289.66671759	0.40	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	2.04851449
Ba 230.424	Ba	n	2.41318099	2.41318099	mg/L	199738.80078953	0.02838806	1.17637498	2347.08413756	1.18	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	2.38091432
Be 313.107	Be	n	2.33546562	2.33546562	mg/L	4807913.21293961	0.02426128	1.03881996	49945.11108506	1.04	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	2.30780569
Ca 317.933	Ca-R	n	2.10969211	2.10969211	mg/L	29227.32282154	0.02289800	1.08537164	304.42586072	1.04	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	2.13133166
Cd 214.439	Cd	n	2.19971529	2.19971529	mg/L	344441.57968274	0.01008687	0.45855358	1579.36804476	0.46	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	2.18869440
Co 230.786	Co	n	2.28996837	2.28996837	mg/L	80943.18420856	0.02010593	0.87800041	710.24957097	0.88	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	2.26686304
Cr 267.716	Cr	n	2.21392434	2.21392434	mg/L	127733.79138127	0.02323949	1.04969654	1340.24398731	1.05	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	2.18725833
Cu 324.754	Cu	n	2.24263682	2.24263682	mg/L	77946.07444802	0.01962835	0.87523516	677.84180492	0.87	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	2.21997209
Fe 259.940	Fe	n	2.31149731	2.31149731	mg/L	124303.06141576	0.02258008	0.97685936	1212.46422065	0.98	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	2.28583884
K 766.491	K-R	n	19.69369442	19.69369442	mg/L	27969.67796091	0.17673877	0.89743836	250.07679177	0.89	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	19.85015447
Li 670.783	Li-R	n	2.06283559	2.06283559	mg/L	215889.71532837	0.01922367	0.93190496	2011.79445474	0.93	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	2.08179615
Mg 279.800	Mg-R	n	2.03265985	2.03265985	mg/L	4675.09074149	0.02312339	1.13759276	52.02507733	1.11	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	2.05228995
Mn 257.610	Mn	n	2.26755895	2.26755895	mg/L	847359.44147541	0.02490967	1.09852360	9302.29240469	1.10	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	2.23916648
Mo 204.598	Mo	n	2.35408870	2.35408870	mg/L	15921.97368899	0.04333089	1.84066506	292.87653383	1.84	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	2.30450661
Na 589.592	Na-R	n	3.36421175	3.36421175	mg/L	35480.40742083	0.06999784	2.08066094	718.59142683	2.03	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	3.43539692
Ni 231.604	Ni	n	2.24594430	2.24594430	mg/L	44884.09987385	0.01859927	0.82812715	370.98046889	0.83	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	2.22484188
P 177.434	P	n	0.02130640	0.02130640	mg/L	12.67601095	0.00810926	38.06019869	3.81586620	30.10		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.01194600
Pb 220.353	Pb	n	2.25483117	2.25483117	mg/L	17555.38628349	0.00456863	0.20261505	35.62333548	0.20	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	2.25049998
S 181.972	S	n	0.11094298	0.11094298	mg/L	219.93243984	0.00222845	2.00864741	2.73503427	1.24		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.11309726
Sb 206.834	Sb	n	2.04249426	2.04249426	mg/L	4928.42233501	0.01493698	0.73131092	36.32984041	0.74	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	2.02572748
Se 196.026	Se	n	1.90501334	1.90501334	mg/L	4782.57795644	0.00423158	0.22212842	10.47887269	0.22	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	1.90933698
Si 251.611	Si	n	9.80423055	9.80423055	mg/L	74142.60232772	0.05455463	0.55643974	411.52417424	0.56		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	9.74319748
Sn 189.925	Sn	n	0.02507942	0.02507942	mg/L	220.17355706	0.00047508	1.89431402	3.72088775	1.69	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.02527993
Sr 421.552	Sr-R	n	2.12894612	2.12894612	mg/L	966502.48849240	0.04964013	2.33167627	22535.23519910	2.33	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	2.17491195
Ti 334.941	Ti	n	2.27223339	2.27223339	mg/L	680211.23369136	0.04606914	2.02748275	13782.94339964	2.03	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	2.21906315
Tl 190.794	Tl	n	2.37812957	2.37812957	mg/L	5415.05752954	0.04142565	1.74194247	94.19979497	1.74	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	2.33073506
V 292.401	V	n	2.21391102	2.21391102	mg/L	70900.19222344	0.02580216	1.16545597	826.34199818	1.17	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	2.18431777
Zn 206.200	Zn	n	2.30123028	2.30123028	mg/L	91834.22237740	0.01045404	0.45428044	416.99546211	0.45	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	2.28982169
Y 371.029	Y		0.90	0.90	Ratio	466851.22	0.02	2.43	11330.28	2.43		-	-	-	Fitted	-	-	0.88
Y 371.029	Y-R		1.05	1.05	Ratio	132034.33	0.01	1.12	1474.29	1.12		-	-	-	Fitted	-	-	1.04

Instrument: MET09
 Calibration #: 673428353001
 Units: mg/L

Date: 24-OCT-2023 11:13
 X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	icp data	673428353002	L1	24-OCT-2023 11:16	S19164
L2	icp data	673428353003	L2	24-OCT-2023 11:19	S19163
L3	icp data	673428353004	L3	24-OCT-2023 11:22	S19162
L4	icp data	673428353005	L4	24-OCT-2023 11:25	S19161
L5	icp data	673428353006	L5	24-OCT-2023 11:28	S19156
L6	icp data	673428353007	L6	24-OCT-2023 11:32	S19112

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00157	1.30E-4		6442.5	1.000		7	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)
WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	1242.3	6408.5	7773.6	7910.0	7622.2	7698.2

Spiked Amounts / Drifts	Ch	L1 %D	L2 %D	L3 %D	L4 %D	L5 %D	L6 %D
Lead	A	0.0033 -37	0.0100 -1	0.1000 3	1.0000 3	5.0000 -1	10.000 0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09
Calnum: 673428353001

Cal Date: 24-OCT-2023

- ICV 673428353010 (24-OCT-2023) stds: S19239

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.026	mg/L	3	10	

Label: ICALBLK Rack/Tube: S1:1 Type: BLK

Date Time: 10/24/2023 11:13:20 AM Weight: - Volume: -

Dilution: - %RSE limit: - Calibration Coefficient [3]: -

LIMS ID: - Customer: - Customer Ref.: -

Sample Date Time: - Sample Site: - Description: -

Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n	0.00000000	0.00000000	mg/L	529.58374337	-	-	14.05571780	2.65		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00000000	0.00000000
Al 396.152	Al	n	0.00000000	0.00000000	mg/L	1287.20303266	-	-	26.77508148	2.08	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.00000000	0.00000000
As 188.980	As	n	0.00000000	0.00000000	mg/L	8.33131047	-	-	3.75743710	45.10	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954885676	3811.23850390716	0.00000000	0.00000000
B 249.678	B	n	0.00000000	0.00000000	mg/L	521.24839531	-	-	16.70986658	3.21	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00000000	0.00000000
Ba 230.424	Ba	n	0.00000000	0.00000000	mg/L	238.60938342	-	-	3.26697330	1.37	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00000000	0.00000000
Be 313.107	Be	n	0.00000000	0.00000000	mg/L	71.65194043	-	-	8.27802816	11.55	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00000000	0.00000000
Ca 317.933	Ca-R	n	0.00000000	0.00000000	mg/L	1178.80939826	-	-	4.52833857	0.38	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	0.00000000	0.00000000
Cd 214.439	Cd	n	0.00000000	0.00000000	mg/L	14.88985397	-	-	5.88036973	39.49	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00000000	0.00000000
Co 230.786	Co	n	0.00000000	0.00000000	mg/L	54.23340809	-	-	8.07924884	14.90	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00000000	0.00000000
Cr 267.716	Cr	n	0.00000000	0.00000000	mg/L	49.50935702	-	-	10.63268818	21.48	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00000000	0.00000000
Cu 324.754	Cu	n	0.00000000	0.00000000	mg/L	553.34141948	-	-	21.57749514	3.90	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00000000	0.00000000
Fe 259.940	Fe	n	0.00000000	0.00000000	mg/L	531.26955751	-	-	717.80283382	> 100.00	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.00000000	0.00000000
K 766.491	K-R	n	0.00000000	0.00000000	mg/L	160.76214119	-	-	11.68948929	7.27	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	0.00000000	0.00000000
Li 670.783	Li-R	n	0.00000000	0.00000000	mg/L	0.00000000	-	-	53.11367682	> 100.00	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00000000	0.00000000
Mg 279.800	Mg-R	n	0.00000000	0.00000000	mg/L	85.23972052	-	-	5.95492135	6.99	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	0.00000000	0.00000000
Mn 257.610	Mn	n	0.00000000	0.00000000	mg/L	744.18352059	-	-	304.17566271	40.87	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.00000000	0.00000000
Mo 204.598	Mo	n	0.00000000	0.00000000	mg/L	24.58587525	-	-	6.25307896	25.43	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00000000	0.00000000
Na 589.592	Na-R	n	0.00000000	0.00000000	mg/L	804.96345985	-	-	102.06466855	12.68	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.00000000	0.00000000
Ni 231.604	Ni	n	0.00000000	0.00000000	mg/L	80.66439462	-	-	11.15678919	13.83	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00000000	0.00000000
P 177.434	P	n	0.00000000	0.00000000	mg/L	2.64568462	-	-	0.79559145	30.07		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.00000000	0.00000000
Pb 220.353	Pb	n	0.00000000	0.00000000	mg/L	-12.10498392	-	-	12.09674352	99.93	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.00000000	0.00000000
S 181.972	S	n	0.00000000	0.00000000	mg/L	83.85195108	-	-	2.73370663	3.26		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.00000000	0.00000000
Sb 206.834	Sb	n	0.00000000	0.00000000	mg/L	-38.50565861	-	-	2.72535790	7.08	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.00000000	0.00000000
Se 196.026	Se	n	0.00000000	0.00000000	mg/L	64.69605407	-	-	1.92671340	2.98	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.00000000	0.00000000
Si 251.611	Si	n	0.00000000	0.00000000	mg/L	189.53808929	-	-	11.32904080	5.98		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	0.00000000	0.00000000
Sn 189.925	Sn	n	0.00000000	0.00000000	mg/L	24.55365467	-	-	1.66292106	6.77	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.00000000	0.00000000
Sr 421.552	Sr-R	n	0.00000000	0.00000000	mg/L	27.14397419	-	-	13.00938913	47.93	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00000000	0.00000000
Ti 334.941	Ti	n	0.00000000	0.00000000	mg/L	502.04816964	-	-	43.44909850	8.65	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00000000	0.00000000
Tl 190.794	Tl	n	0.00000000	0.00000000	mg/L	7.46087629	-	-	0.65485722	8.78	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	0.00000000	0.00000000
V 292.401	V	n	0.00000000	0.00000000	mg/L	12.55943396	-	-	16.07683933	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00000000	0.00000000
Zn 206.200	Zn	n	0.00000000	0.00000000	mg/L	22.12174063	-	-	2.52637740	11.42	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.00000000	0.00000000
Y 371.029	Y		1.00	1.00	Ratio	518822.90	0.00	0.00	5574.12	1.07		-	-	-	Fitted	-	-	1.00	1.00
Y 371.029	Y-R		1.00	1.00	Ratio	125677.32	0.00	0.00	823.79	0.66		-	-	-	Fitted	-	-	1.00	1.00

Label: ICAL_L1.S19164 Rack/Tube: S1:2 Type: STD
 Date Time: 10/24/2023 11:16:26 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	559.56117847	-	-	8.01262358	1.43		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699		
Al 396.152	Al	n	0.00666667	0.00666667	mg/L	1538.53457301	-	-	35.91384196	2.33	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.00666667	0.00666666
As 188.980	As	n	0.00333333	0.00333333	mg/L	17.58883056	-	-	2.73131109	15.53	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.00333333	0.00333333
B 249.678	B	n	0.00333333	0.00333333	mg/L	570.52005749	-	-	7.19085816	1.26	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00333333	0.00333333
Ba 230.424	Ba	n	0.00333333	0.00333333	mg/L	437.16800413	-	-	6.71084740	1.54	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00333333	0.00333333
Be 313.107	Be	n	0.00100000	0.00100000	mg/L	2006.77863269	-	-	14.98292681	0.75	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00100000	0.00100000
Ca 317.933	Ca-R	n	0.03333333	0.03333333	mg/L	1594.56173821	-	-	9.66855677	0.61	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	0.03333333	0.03333333
Cd 214.439	Cd	n	0.00166667	0.00166667	mg/L	269.93173596	-	-	7.81170774	2.89	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00166667	0.00166666
Co 230.786	Co	n	0.00166667	0.00166667	mg/L	101.88951413	-	-	10.69639654	10.50	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00166667	0.00166666
Cr 267.716	Cr	n	0.00333333	0.00333333	mg/L	248.20656070	-	-	7.70485913	3.10	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00333333	0.00333333
Cu 324.754	Cu	n	0.00333333	0.00333333	mg/L	624.63764008	-	-	11.03487592	1.77	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00333333	0.00333333
Fe 259.940	Fe	n	0.00666667	0.00666667	mg/L	485.31066605	-	-	21.29470065	4.39	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.00666667	0.00666666
K 766.491	K-R	n	0.06666667	0.06666667	mg/L	145.93160593	-	-	29.48428713	20.20	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.06380008165	1414.9515362826	0.06666667	0.06666666
Li 670.783	Li-R	n	0.00333333	0.00333333	mg/L	356.14905645	-	-	34.03608857	9.56	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00333333	0.00333333
Mg 279.800	Mg-R	n	0.03333333	0.03333333	mg/L	155.05578000	-	-	12.42187763	8.01	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	0.03333333	0.03333333
Mn 257.610	Mn	n	0.00333333	0.00333333	mg/L	1764.15074871	-	-	64.11190723	3.63	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.00333333	0.00333333
Mo 204.598	Mo	n	0.00333333	0.00333333	mg/L	29.12913715	-	-	3.13764830	10.77	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00333333	0.00333333
Na 589.592	Na-R	n	0.06666667	0.06666667	mg/L	1544.36855310	-	-	111.83746266	7.24	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.06666667	0.06666666
Ni 231.604	Ni	n	0.00333333	0.00333333	mg/L	150.91886146	-	-	7.61552139	5.05	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00333333	0.00333333
P 177.434	P	n			mg/L	2.52470543	-	-	1.01914995	40.37		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741		
Pb 220.353	Pb	n	0.00333333	0.00333333	mg/L	4.14111363	-	-	3.19990857	77.27	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.00333333	0.00333333
S 181.972	S	n			mg/L	87.61777832	-	-	1.76829402	2.02		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325		
Sb 206.834	Sb	n	0.01000010	0.01000010	mg/L	-12.67688169	-	-	11.25126571	88.75	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.01000010	0.01000001
Se 196.026	Se	n	0.01000001	0.01000001	mg/L	97.70396938	-	-	6.93189838	7.09	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.01000001	0.01000000
Si 251.611	Si	n			mg/L	120.96079714	-	-	6.17201935	5.10		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041		
Sn 189.925	Sn	n	0.00333333	0.00333333	mg/L	47.03384479	-	-	3.99320291	8.49	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.00333333	0.00333333
Sr 421.552	Sr-R	n	0.01666667	0.01666667	mg/L	7409.38261411	-	-	32.73637124	0.44	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.01666667	0.01666666
Ti 334.941	Ti	n	0.00333333	0.00333333	mg/L	1395.25128024	-	-	20.29627815	1.45	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00333333	0.00333333
Tl 190.794	Tl	n	0.01000010	0.01000010	mg/L	8.90131527	-	-	8.08855943	90.87	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	0.01000010	0.01000001
V 292.401	V	n	0.00166667	0.00166667	mg/L	52.58852798	-	-	11.55940203	21.98	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00166667	0.00166666
Zn 206.200	Zn	n	0.01000010	0.01000010	mg/L	417.54923570	-	-	7.74929295	1.86	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.01000010	0.01000001
Y 371.029	Y		1.00	1.00	Ratio	518279.33	0.01	0.98	5083.63	0.98		-	-	-	Fitted	-	-	0.99	1.00
Y 371.029	Y-R		1.01	1.01	Ratio	126405.61	0.00	0.37	473.87	0.37		-	-	-	Fitted	-	-	1.01	1.01

Label: ICAL_L2.S19163

Rack/Tube: S1:3

Type: STD

Date Time: 10/24/2023 11:19:33 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	550.07274198	-	-	20.91572497	3.80		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699		
Al 396.152	Al	n	0.02000000	0.02000000	mg/L	1833.13453945	-	-	40.37694889	2.20	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.02000000	0.020000
As 188.980	As	n	0.01000000	0.01000000	mg/L	51.71451597	-	-	3.59195837	6.95	12.967774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.01000000	0.010000
B 249.678	B	n	0.01000000	0.01000000	mg/L	773.09203930	-	-	25.04656642	3.24	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.01000000	0.010000
Ba 230.424	Ba	n	0.01000000	0.01000000	mg/L	902.11931796	-	-	17.16477169	1.90	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.01000000	0.010000
Be 313.107	Be	n	0.00300000	0.00300000	mg/L	6239.48657957	-	-	105.88350216	1.70	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00300000	0.003000
Ca 317.933	Ca-R	n	0.10000000	0.10000000	mg/L	2519.10486427	-	-	9.25383493	0.37	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	0.10000000	0.100000
Cd 214.439	Cd	n	0.00500000	0.00500000	mg/L	803.49348909	-	-	18.71943086	2.33	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00500000	0.005000
Co 230.786	Co	n	0.00500000	0.00500000	mg/L	210.88171327	-	-	19.86509339	9.42	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00500000	0.005000
Cr 267.716	Cr	n	0.01000000	0.01000000	mg/L	709.12765054	-	-	125.78107908	17.74	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.01000000	0.010000
Cu 324.754	Cu	n	0.01000000	0.01000000	mg/L	785.17618687	-	-	19.31889802	2.46	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.01000000	0.010000
Fe 259.940	Fe	n	0.02000000	0.02000000	mg/L	2876.65874119	-	-	119.62210116	4.16	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.02000000	0.020000
K 766.491	K-R	n	0.20000000	0.20000000	mg/L	225.90091075	-	-	50.17977325	22.21	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	0.20000000	0.200000
Li 670.783	Li-R	n	0.01000000	0.01000000	mg/L	1046.19481395	-	-	24.64756806	2.36	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.01000000	0.010000
Mg 279.800	Mg-R	n	0.10000000	0.10000000	mg/L	318.94169160	-	-	6.51562197	2.04	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	0.10000000	0.100000
Mn 257.610	Mn	n	0.01000000	0.01000000	mg/L	4347.01752435	-	-	108.90874050	2.51	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.01000000	0.010000
Mo 204.598	Mo	n	0.01000000	0.01000000	mg/L	79.44787885	-	-	7.45159338	9.38	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.01000000	0.010000
Na 589.592	Na-R	n	0.20000000	0.20000000	mg/L	2926.91242043	-	-	75.35900799	2.57	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.20000000	0.200000
Ni 231.604	Ni	n	0.01000000	0.01000000	mg/L	299.28979632	-	-	15.97774051	5.34	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.01000000	0.010000
P 177.434	P	n			mg/L	2.20225071	-	-	0.63578168	28.87		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741		
Pb 220.353	Pb	n	0.01000000	0.01000000	mg/L	64.08514180	-	-	14.91466068	23.27	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.01000000	0.010000
S 181.972	S	n			mg/L	81.84006917	-	-	3.12657488	3.82		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325		
Sb 206.834	Sb	n	0.03000030	0.03000030	mg/L	33.01967751	-	-	2.67800995	8.11	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.03000030	0.030000
Se 196.026	Se	n	0.03000003	0.03000003	mg/L	141.90767858	-	-	6.77999205	4.78	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.03000003	0.030000
Si 251.611	Si	n			mg/L	123.08393654	-	-	8.48016794	6.89		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041		
Sn 189.925	Sn	n	0.01000000	0.01000000	mg/L	98.80632893	-	-	3.63267322	3.68	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.01000000	0.010000
Sr 421.552	Sr-R	n	0.05000000	0.05000000	mg/L	22896.32056845	-	-	58.89510249	0.26	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.05000000	0.050000
Ti 334.941	Ti	n	0.01000000	0.01000000	mg/L	3253.85565324	-	-	69.89362101	2.15	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.01000000	0.010000
Tl 190.794	Tl	n	0.03000030	0.03000030	mg/L	43.50483784	-	-	11.99428977	27.57	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	0.03000030	0.030000
V 292.401	V	n	0.00500000	0.00500000	mg/L	160.27536135	-	-	10.21461658	6.37	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00500000	0.005000
Zn 206.200	Zn	n	0.03000030	0.03000030	mg/L	1213.27214069	-	-	11.22173069	0.92	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.03000030	0.030000
Y 371.029	Y		1.00	1.00	Ratio	518977.05	0.00	0.44	2277.54	0.44		-	-	-	Fitted	-	-	1.00	1.00
Y 371.029	Y-R		0.99	0.99	Ratio	124916.54	0.00	0.31	381.74	0.31		-	-	-	Fitted	-	-	0.99	1.00

Label: ICAL.L3.S19162

Rack:Tube: S1:4

Type: STD

Date Time: 10/24/2023 11:22:40 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	537.00707054	-	-	19.97195486	3.72		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699		
Al 396.152	Al	n	0.20000000	0.20000000	mg/L	7360.98054835	-	-	99.82658524	1.36	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.20000000	0.2000
As 188.980	As	n	0.10000000	0.10000000	mg/L	378.04501001	-	-	2.46226735	0.65	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.10000000	0.1000
B 249.678	B	n	0.10000000	0.10000000	mg/L	3811.36371020	-	-	50.62680099	1.33	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.10000000	0.1000
Ba 230.424	Ba	n	0.10000000	0.10000000	mg/L	8695.12916272	-	-	153.77160711	1.77	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.10000000	0.1000
Be 313.107	Be	n	0.03000000	0.03000000	mg/L	64637.36293371	-	-	1061.46870136	1.64	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.03000000	0.0300
Ca 317.933	Ca-R	n	1.00000000	1.00000000	mg/L	14647.39573128	-	-	74.70265862	0.51	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	1.00000000	1.0000
Cd 214.439	Cd	n	0.05000000	0.05000000	mg/L	7919.75241218	-	-	129.77339756	1.64	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.05000000	0.0500
Co 230.786	Co	n	0.05000000	0.05000000	mg/L	1822.95423446	-	-	38.11889108	2.09	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.05000000	0.0500
Cr 267.716	Cr	n	0.10000000	0.10000000	mg/L	5855.13734005	-	-	91.34093923	1.56	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.10000000	0.1000
Cu 324.754	Cu	n	0.10000000	0.10000000	mg/L	3734.36032899	-	-	73.95955336	1.98	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.10000000	0.1000
Fe 259.940	Fe	n	0.20000000	0.20000000	mg/L	10977.01404924	-	-	205.16445911	1.87	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.20000000	0.2000
K 766.491	K-R	n	2.00000000	2.00000000	mg/L	2567.41033677	-	-	39.21235442	1.53	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	2.00000000	2.0000
Li 670.783	Li-R	n	0.10000000	0.10000000	mg/L	10538.71068866	-	-	67.09796846	0.64	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.10000000	0.1000
Mg 279.800	Mg-R	n	1.00000000	1.00000000	mg/L	2371.04792004	-	-	5.69535667	0.24	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	1.00000000	1.0000
Mn 257.610	Mn	n	0.10000000	0.10000000	mg/L	38563.05336682	-	-	617.09570248	1.60	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.10000000	0.1000
Mo 204.598	Mo	n	0.10000000	0.10000000	mg/L	680.34690879	-	-	23.87528696	3.51	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.10000000	0.1000
Na 589.592	Na-R	n	2.00000000	2.00000000	mg/L	21848.52124825	-	-	101.42523294	0.46	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358729734	10265.9086220945	2.00000000	2.0000
Ni 231.604	Ni	n	0.10000000	0.10000000	mg/L	2107.66593409	-	-	42.00030554	1.99	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.10000000	0.1000
P 177.434	P	n			mg/L	2.66627979	-	-	2.01417828	75.54		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741		
Pb 220.353	Pb	n	0.10000000	0.10000000	mg/L	777.36331227	-	-	17.27874015	2.22	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.10000000	0.1000
S 181.972	S	n			mg/L	88.63871302	-	-	1.78871447	2.02		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325		
Sb 206.834	Sb	n	0.30000300	0.30000300	mg/L	680.69441063	-	-	16.46906347	2.42	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.30000300	0.3000
Se 196.026	Se	n	0.30000030	0.30000030	mg/L	799.45399956	-	-	22.04962017	2.76	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.30000030	0.3000
Si 251.611	Si	n			mg/L	143.39506003	-	-	4.15684244	2.90		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041		
Sn 189.925	Sn	n	0.10000000	0.10000000	mg/L	796.56646179	-	-	19.03736441	2.39	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.10000000	0.1000
Sr 421.552	Sr-R	n	0.50000000	0.50000000	mg/L	230758.73598269	-	-	494.06068029	0.21	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.50000000	0.5000
Ti 334.941	Ti	n	0.10000000	0.10000000	mg/L	29704.18106100	-	-	575.86191746	1.94	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.10000000	0.1000
Tl 190.794	Tl	n	0.30000300	0.30000300	mg/L	572.24218248	-	-	68.02335380	11.89	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	0.30000300	0.3000
V 292.401	V	n	0.05000000	0.05000000	mg/L	1572.46201099	-	-	27.59656032	1.75	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.05000000	0.0500
Zn 206.200	Zn	n	0.30000300	0.30000300	mg/L	12172.79377212	-	-	186.50345447	1.53	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.30000300	0.3000
Y 371.029	Y		0.99	0.99	Ratio	516195.20	0.01	0.89	4595.61	0.89		-	-	-	Fitted	-	-	0.99	0.99
Y 371.029	Y-R		1.00	1.00	Ratio	125697.94	0.01	0.78	978.63	0.78		-	-	-	Fitted	-	-	1.00	1.01

Label: ICAL_L4,S19161 Rack: Tube: S1:5 Type: STD

Date Time: 10/24/2023 11:25:47 AM Weight: - Volume: -

Dilution: - %RSE limit: - Calibration Coefficient [3]: -

LIMS ID: - Customer: - Customer Ref.: -

Sample Date Time: - Sample Site: - Description: -

Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2	Concentration Replicate 3
Ag 328.068	Ag	n			mg/L	499.47043611	-	-	42.20247749	8.45		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699			
Al 396.152	Al	n	2.00000000	2.00000000	mg/L	62488.14937048	-	-	810.54947184	1.30	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	2.00000000		
As 188.980	As	n	1.00000000	1.00000000	mg/L	3863.23214640	-	-	38.99903685	1.01	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	1.00000000		
B 249.678	B	n	1.00000000	1.00000000	mg/L	35313.53646790	-	-	407.29544590	1.15	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	1.00000000		
Ba 230.424	Ba	n	1.00000000	1.00000000	mg/L	88363.34492589	-	-	1012.46301171	1.15	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	1.00000000		
Be 313.107	Be	n	0.30000000	0.30000000	mg/L	664150.56874099	-	-	9152.38186474	1.38	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.30000000		
Ca 317.933	Ca-R	n	10.00000000	10.00000000	mg/L	136768.97653856	-	-	808.41696244	0.59	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	10.00000000		
Cd 214.439	Cd	n	0.50000000	0.50000000	mg/L	79629.91318122	-	-	849.78511607	1.07	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.50000000		
Co 230.786	Co	n	0.50000000	0.50000000	mg/L	18007.66727638	-	-	202.61954498	1.13	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.50000000		
Cr 267.716	Cr	n	1.00000000	1.00000000	mg/L	58289.35048135	-	-	672.68527423	1.15	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	1.00000000		
Cu 324.754	Cu	n	1.00000000	1.00000000	mg/L	34394.62916233	-	-	368.94495282	1.07	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425785	34533.8220179431	1.00000000		
Fe 259.940	Fe	n	2.00000000	2.00000000	mg/L	108280.60924254	-	-	1361.36646632	1.26	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	2.00000000		
K 766.491	K-R	n	20.00000000	20.00000000	mg/L	27734.60370298	-	-	170.88566735	0.62	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	20.00000000		
Li 670.783	Li-R	n	1.00000000	1.00000000	mg/L	105237.91942566	-	-	345.35985422	0.33	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	1.00000000		
Mg 279.800	Mg-R	n	10.00000000	10.00000000	mg/L	22951.52417062	-	-	163.46135487	0.71	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	10.00000000		
Mn 257.610	Mn	n	1.00000000	1.00000000	mg/L	382372.44524640	-	-	4757.03120492	1.24	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	1.00000000		
Mo 204.598	Mo	n	1.00000000	1.00000000	mg/L	6815.40760813	-	-	114.19454402	1.68	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	1.00000000		
Na 589.592	Na-R	n	20.00000000	20.00000000	mg/L	210814.19745360	-	-	1092.49542266	0.52	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358729734	10265.9086220945	20.00000000		
Ni 231.604	Ni	n	1.00000000	1.00000000	mg/L	20319.58601386	-	-	204.43971913	1.01	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	1.00000000		
P 177.434	P	n			mg/L	4.51213988	-	-	0.92310140	20.46		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741			
Pb 220.353	Pb	n	1.00000000	1.00000000	mg/L	7909.98943242	-	-	69.27772142	0.88	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.00000000		
S 181.972	S	n			mg/L	91.90656970	-	-	3.49310979	3.80		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325			
Sb 206.834	Sb	n	3.00003000	3.00003000	mg/L	7203.66246905	-	-	68.25399659	0.95	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	3.00003000		
Se 196.026	Se	n	3.00000300	3.00000300	mg/L	7606.65171948	-	-	85.92706378	1.13	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	3.00000300		
Si 251.611	Si	n			mg/L	281.48372070	-	-	11.18097378	3.97		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041			
Sn 189.925	Sn	n	1.00000000	1.00000000	mg/L	7990.95005228	-	-	93.71881361	1.17	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	1.00000000		
Sr 421.552	Sr-R	n	5.00000000	5.00000000	mg/L	2309155.87795851	-	-	12320.25744319	0.53	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	5.00000000		
Ti 334.941	Ti	n	1.00000000	1.00000000	mg/L	306988.10154354	-	-	4719.91560509	1.54	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	1.00000000		
Tl 190.794	Tl	n	3.00003000	3.00003000	mg/L	6880.28149423	-	-	373.16537792	5.42	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	3.00003000		
V 292.401	V	n	0.50000000	0.50000000	mg/L	16119.92288331	-	-	180.13071386	1.12	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.50000000		
Zn 206.200	Zn	n	3.00003000	3.00003000	mg/L	122438.74305819	-	-	1189.30303224	0.97	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	3.00003000		
Y 371.029	Y		0.98	0.98	Ratio	508899.46	0.01	0.85	4332.38	0.85		-	-	-	Fitted	-	-	0.97		
Y 371.029	Y-R		0.99	0.99	Ratio	124580.93	0.01	0.81	1014.36	0.81		-	-	-	Fitted	-	-	1.00		

Label: ICAL_L5.S19156

Rack/Tube: S1:6

Type: STD

Date Time: 10/24/2023 11:28:55 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n			mg/L	452.26991349	-	-	30.84012060	6.82		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	
Al 396.152	Al	n	10.00000000	10.00000000	mg/L	316530.22721053	-	-	5217.94852740	1.65	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	10.00000000
As 188.980	As	n	5.00000000	5.00000000	mg/L	19191.42519357	-	-	237.67681893	1.24	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	5.00000000
B 249.678	B	n	5.00000000	5.00000000	mg/L	173685.88702805	-	-	2284.84018192	1.32	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	5.00000000
Ba 230.424	Ba	n	5.00000000	5.00000000	mg/L	428200.86661444	-	-	6964.00555425	1.63	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	5.00000000
Be 313.107	Be	n	1.50000000	1.50000000	mg/L	3243825.18811626	-	-	55183.57657134	1.70	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	1.50000000
Ca 317.933	Ca-R	n	50.00000000	50.00000000	mg/L	644853.84396618	-	-	3346.78581537	0.52	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	50.00000000
Cd 214.439	Cd	n	2.50000000	2.50000000	mg/L	380764.72332105	-	-	6465.81215701	1.70	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	2.50000000
Co 230.786	Co	n	2.50000000	2.50000000	mg/L	86698.72763981	-	-	1223.85345400	1.41	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	2.50000000
Cr 267.716	Cr	n	5.00000000	5.00000000	mg/L	283379.65411599	-	-	4704.31384496	1.66	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	5.00000000
Cu 324.754	Cu	n	5.00000000	5.00000000	mg/L	175644.83557570	-	-	3198.21979219	1.82	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	5.00000000
Fe 259.940	Fe	n	10.00000000	10.00000000	mg/L	524849.52269482	-	-	8691.34927878	1.66	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	10.00000000
K 766.491	K-R	n	100.00000000	100.00000000	mg/L	136281.85206524	-	-	699.34239917	0.51	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	100.00000000
Li 670.783	Li-R	n	5.00000000	5.00000000	mg/L	508749.45282904	-	-	2247.75747529	0.44	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	5.00000000
Mg 279.800	Mg-R	n	50.00000000	50.00000000	mg/L	108279.77822854	-	-	482.76761175	0.45	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	50.00000000
Mn 257.610	Mn	n	5.00000000	5.00000000	mg/L	1818593.28894066	-	-	29234.19989651	1.61	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	5.00000000
Mo 204.598	Mo	n	5.00000000	5.00000000	mg/L	33675.66662123	-	-	889.78924013	2.64	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	5.00000000
Na 589.592	Na-R	n	100.00000000	100.00000000	mg/L	996836.80567461	-	-	3795.13068648	0.38	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	100.00000000
Ni 231.604	Ni	n	5.00000000	5.00000000	mg/L	97450.68002778	-	-	1455.08533905	1.49	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	5.00000000
P 177.434	P	n			mg/L	-1.31849550	-	-	0.13434227	10.19		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	
Pb 220.353	Pb	n	5.00000000	5.00000000	mg/L	38110.95588248	-	-	447.88721886	1.18	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	5.00000000
S 181.972	S	n			mg/L	114.08791095	-	-	3.37023739	2.95		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	
Sb 206.834	Sb	n	15.00015000	15.00015000	mg/L	36301.79420359	-	-	419.47919683	1.16	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	15.00015000
Se 196.026	Se	n	15.00000000	15.00000000	mg/L	36776.50676671	-	-	337.48372770	0.92	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	15.00000000
Si 251.611	Si	n			mg/L	855.60488863	-	-	94.51920371	11.05		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	
Sn 189.925	Sn	n	5.00000000	5.00000000	mg/L	38683.54462182	-	-	451.15840911	1.17	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	5.00000000
Sr 421.552	Sr-R	n	25.00000000	25.00000000	mg/L	10916606.21173350	-	-	49146.13384306	0.45	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	25.00000000
Ti 334.941	Ti	n	5.00000000	5.00000000	mg/L	1498115.63761395	-	-	38270.05913427	2.55	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	5.00000000
Tl 190.794	Tl	n	15.00015000	15.00015000	mg/L	34513.49498620	-	-	1616.62644992	4.68	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	15.00015000
V 292.401	V	n	2.50000000	2.50000000	mg/L	79170.74401545	-	-	1424.75702107	1.80	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	2.50000000
Zn 206.200	Zn	n	15.00015000	15.00015000	mg/L	571919.58808951	-	-	15143.60250056	2.65	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	15.00015000
Y 371.029	Y		0.97	0.97	Ratio	501726.48	0.01	0.99	4988.78	0.99		-	-	-	Fitted	-	-	0.96
Y 371.029	Y-R		0.99	0.99	Ratio	124757.40	0.01	0.70	873.30	0.70		-	-	-	Fitted	-	-	1.00

Label: ICAI.L6.S19112

Rack: Tube: S1:7

Type: STD

Date Time: 10/24/2023 11:32:02 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n			mg/L	457.69093520	-	-	40.32078143	8.81		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	
Al 396.152	Al	n	20.00000000	20.00000000	mg/L	666094.55101443	-	-	11260.38991037	1.69	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	20.0000000
As 188.980	As	n	10.00000000	10.00000000	mg/L	39065.64731080	-	-	374.96779215	0.96	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	10.0000000
B 249.678	B	n	10.00000000	10.00000000	mg/L	356889.40680399	-	-	3433.25865820	0.96	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	10.0000000
Ba 230.424	Ba	n	10.00000000	10.00000000	mg/L	861570.22657552	-	-	15208.84466681	1.77	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	10.0000000
Be 313.107	Be	n	3.00000000	3.00000000	mg/L	6542440.73293786	-	-	105744.57758550	1.62	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	3.00000000
Ca 317.933	Ca-R	n	100.00000000	100.00000000	mg/L	1336105.83257808	-	-	5756.43719154	0.43	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	100.000000
Cd 214.439	Cd	n	5.00000000	5.00000000	mg/L	756306.68652125	-	-	16386.25719563	2.17	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	5.00000000
Co 230.786	Co	n	5.00000000	5.00000000	mg/L	175695.63928839	-	-	2454.61975358	1.40	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	5.00000000
Cr 267.716	Cr	n	10.00000000	10.00000000	mg/L	571900.21234575	-	-	8522.55555382	1.49	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	10.0000000
Cu 324.754	Cu	n	10.00000000	10.00000000	mg/L	368915.98298817	-	-	5130.47608462	1.39	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	10.0000000
Fe 259.940	Fe	n	20.00000000	20.00000000	mg/L	1061374.70310484	-	-	16724.34597026	1.58	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	20.0000000
K 766.491	K-R	n	200.00000000	200.00000000	mg/L	288139.12498372	-	-	702.07576894	0.24	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.06368008185	1414.9513562826	200.000000
Li 670.783	Li-R	n	10.00000000	10.00000000	mg/L	1064472.72431358	-	-	4675.39112557	0.44	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	10.0000000
Mg 279.800	Mg-R	n	100.00000000	100.00000000	mg/L	226157.23432798	-	-	858.89759527	0.38	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	100.000000
Mn 257.610	Mn	n	10.00000000	10.00000000	mg/L	3669472.97737253	-	-	48797.42917089	1.33	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	10.0000000
Mo 204.598	Mo	n	10.00000000	10.00000000	mg/L	67250.08312605	-	-	2317.93663456	3.45	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	10.0000000
Na 589.592	Na-R	n	200.00000000	200.00000000	mg/L	2087593.41320882	-	-	9730.32026699	0.47	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	200.000000
Ni 231.604	Ni	n	10.00000000	10.00000000	mg/L	197085.02752818	-	-	2750.85337549	1.40	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	10.0000000
P 177.434	P	n			mg/L	2.18130062	-	-	1.10707239	50.75		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	
Pb 220.353	Pb	n	10.00000000	10.00000000	mg/L	76981.68114772	-	-	899.17924436	1.17	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	10.0000000
S 181.972	S	n			mg/L	152.52035988	-	-	2.29251463	1.50		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	
Sb 206.834	Sb	n	30.00030000	30.00030000	mg/L	74500.64809549	-	-	888.87316924	1.19	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	30.0003000
Se 196.026	Se	n	30.00000000	30.00000000	mg/L	74605.02744671	-	-	727.83653090	0.98	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	30.0000000
Si 251.611	Si	n			mg/L	1508.42215489	-	-	175.76927720	11.65		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	
Sn 189.925	Sn	n	10.00000000	10.00000000	mg/L	78660.90357647	-	-	1140.55458235	1.45	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	10.0000000
Sr 421.552	Sr-R	n	50.00000000	50.00000000	mg/L	22544668.30709450	-	-	41058.12825409	0.18	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	50.0000000
Ti 334.941	Ti	n	10.00000000	10.00000000	mg/L	3074072.32191571	-	-	62530.06095644	2.03	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	10.0000000
Tl 190.794	Tl	n	30.00030000	30.00030000	mg/L	71268.83389451	-	-	2544.76738092	3.57	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	30.0003000
V 292.401	V	n	5.00000000	5.00000000	mg/L	161911.78003361	-	-	2512.26911761	1.55	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	5.00000000
Zn 206.200	Zn	n	30.00030000	30.00030000	mg/L	1125812.45780474	-	-	23006.59266341	2.04	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	30.0003000
Y 371.029	Y		0.96	0.96	Ratio	495983.51	0.01	0.89	4438.81	0.89		-	-	-	Fitted	-	-	0.95
Y 371.029	Y-R		0.95	0.95	Ratio	119003.07	0.00	0.39	458.21	0.39		-	-	-	Fitted	-	-	0.95

Label: ICAL_L7,S19241 Rack: Tube: S1:8 Type: STD
 Date Time: 10/24/2023 11:35:09 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n	2.00000000	2.00000000	mg/L	137301.53759351	-	-	1943.18379287	1.42		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	2.00000000	2.00
Al 396.152	Al	n			mg/L	1467.04343878	-	-	15.59193864	1.06	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634		
As 188.980	As	n			mg/L	7.86287216	-	-	2.03370388	25.86	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716		
B 249.678	B	n			mg/L	620.97026241	-	-	27.12065470	4.37	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898		
Ba 230.424	Ba	n			mg/L	283.32312854	-	-	18.01544104	6.36	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527		
Be 313.107	Be	n			mg/L	102.62426392	-	-	19.85723809	19.35	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872		
Ca 317.933	Ca-R	n			mg/L	1193.76140966	-	-	26.03854532	2.18	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134		
Cd 214.439	Cd	n			mg/L	30.08393280	-	-	6.26615542	20.83	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986		
Co 230.786	Co	n			mg/L	58.91763821	-	-	11.57642268	19.65	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998		
Cr 267.716	Cr	n			mg/L	86.18622209	-	-	8.98203843	10.42	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141		
Cu 324.754	Cu	n			mg/L	551.48038479	-	-	10.18681606	1.85	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431		
Fe 259.940	Fe	n			mg/L	425.66419878	-	-	77.46001139	18.20	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126		
K 766.491	K-R	n			mg/L	132.18619857	-	-	64.00027426	48.42	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.06368008185	1414.9515362826		
Li 670.783	Li-R	n			mg/L	-7.11358140	-	-	134.87168355	> 100.00	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493		
Mg 279.800	Mg-R	n			mg/L	78.60671756	-	-	9.02636330	11.48	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281		
Mn 257.610	Mn	n			mg/L	531.76407141	-	-	22.93950356	4.31	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225		
Mo 204.598	Mo	n			mg/L	390.05903996	-	-	126.74873626	32.49	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423		
Na 589.592	Na-R	n			mg/L	855.94053599	-	-	72.12446134	8.43	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945		
Ni 231.604	Ni	n			mg/L	90.41147108	-	-	15.27376579	16.89	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876		
P 177.434	P	n			mg/L	2.11768032	-	-	1.82503175	86.18		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741		
Pb 220.353	Pb	n			mg/L	-16.57506957	-	-	10.77416033	65.00	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482		
S 181.972	S	n			mg/L	85.12619997	-	-	6.10590581	7.17		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325		
Sb 206.834	Sb	n			mg/L	-16.65993010	-	-	6.80896093	40.87	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654		
Se 196.026	Se	n			mg/L	80.74050246	-	-	1.41632398	1.75	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715		
Si 251.611	Si	n			mg/L	121.27619829	-	-	20.69030236	17.06		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041		
Sn 189.925	Sn	n			mg/L	43.26894394	-	-	13.85001102	32.01	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416		
Sr 421.552	Sr-R	n			mg/L	34.88732184	-	-	15.49837875	44.42	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738		
Ti 334.941	Ti	n			mg/L	1494.80444522	-	-	336.19123880	22.49	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327		
Tl 190.794	Tl	n			mg/L	12.88765278	-	-	9.03095411	70.07	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028		
V 292.401	V	n			mg/L	0.37615281	-	-	15.68558940	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028		
Zn 206.200	Zn	n			mg/L	61.64360216	-	-	4.23944146	6.88	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271		
Y 371.029	Y		0.99	0.99	Ratio	514861.37	0.01	0.52	2701.16	0.52		-	-	-	Fitted	-	-	0.99	1.00
Y 371.029	Y-R		0.99	0.99	Ratio	123983.21	0.01	0.94	1162.65	0.94		-	-	-	Fitted	-	-	0.99	0.98

Label: ICAL_L8,S18727 Rack: Tube: S1:9 Type: STD

Date Time: 10/24/2023 11:38:16 AM Weight: - Volume: -

Dilution: - %RSE limit: - Calibration Coefficient [3]: -

LIMS ID: - Customer: - Customer Ref.: -

Sample Date Time: - Sample Site: - Description: -

Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Con Rep
Ag 328.068	Ag	n			mg/L	554.96677805	-	-	26.47105880	4.77		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699		
Al 396.152	Al	n			mg/L	1463.05626855	-	-	21.72953269	1.49	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634		
As 188.980	As	n			mg/L	9.80301737	-	-	4.31314309	44.00	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716		
B 249.678	B	n			mg/L	592.97344020	-	-	15.61686255	2.63	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898		
Ba 230.424	Ba	n			mg/L	233.31612942	-	-	9.33665957	4.00	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527		
Be 313.107	Be	n			mg/L	69.36722574	-	-	19.76806109	28.50	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872		
Ca 317.933	Ca-R	n			mg/L	1182.25086283	-	-	21.38886223	1.81	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134		
Cd 214.439	Cd	n			mg/L	26.14722962	-	-	5.45122614	20.85	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986		
Co 230.786	Co	n			mg/L	57.60826728	-	-	19.16067117	33.26	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998		
Cr 267.716	Cr	n			mg/L	60.98816875	-	-	10.98532108	18.01	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141		
Cu 324.754	Cu	n			mg/L	557.85163958	-	-	21.49161097	3.85	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431		
Fe 259.940	Fe	n			mg/L	309.40305672	-	-	34.68962569	11.21	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126		
K 766.491	K-R	n			mg/L	116.38208297	-	-	35.30330839	30.33	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.06368008185	1414.9515362826		
Li 670.783	Li-R	n			mg/L	-19.58462109	-	-	32.50782309	> 100.00	1.73868826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493		
Mg 279.800	Mg-R	n			mg/L	85.92816993	-	-	7.12124231	8.29	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281		
Mn 257.610	Mn	n			mg/L	484.72790238	-	-	17.46001707	3.60	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225		
Mo 204.598	Mo	n			mg/L	67.90712178	-	-	34.18058079	50.33	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423		
Na 589.592	Na-R	n			mg/L	847.25690066	-	-	68.90294300	8.13	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945		
Ni 231.604	Ni	n			mg/L	94.92158572	-	-	5.56882551	5.87	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876		
P 177.434	P	n	10.00000000	10.00000000	mg/L	4708.21305129	-	-	59.92550171	1.27		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	10.00000000	10.
Pb 220.353	Pb	n			mg/L	-25.14540582	-	-	5.62369816	22.36	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482		
S 181.972	S	n	10.00000000	10.00000000	mg/L	12357.09204641	-	-	74.48072781	0.60		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	10.00000000	10.
Sb 206.834	Sb	n			mg/L	-34.57786834	-	-	3.93034522	11.37	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654		
Se 196.026	Se	n			mg/L	68.31187648	-	-	3.51286202	5.14	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715		
Si 251.611	Si	n	10.00000000	10.00000000	mg/L	75622.94095860	-	-	820.78743535	1.09		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	10.00000000	10.
Sn 189.925	Sn	n			mg/L	31.10046601	-	-	3.53474415	11.37	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416		
Sr 421.552	Sr-R	n			mg/L	16.85055634	-	-	22.85736134	> 100.00	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738		
Ti 334.941	Ti	n			mg/L	1616.52163419	-	-	266.28670551	16.47	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327		
Tl 190.794	Tl	n			mg/L	6.58023419	-	-	4.50560637	68.47	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028		
V 292.401	V	n			mg/L	-0.36153802	-	-	7.97007186	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028		
Zn 206.200	Zn	n			mg/L	44.07807964	-	-	7.45333010	16.91	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271		
Y 371.029	Y		1.00	1.00	Ratio	521036.68	0.01	0.84	4389.21	0.84		-	-	-	Fitted	-	-	0.99	1.0
Y 371.029	Y-R		1.01	1.01	Ratio	126405.52	0.01	0.64	813.22	0.64		-	-	-	Fitted	-	-	1.01	1.0

Label: ICV,S19239

Rack/Tube: S1:12

Type: QC

Date Time: 10/24/2023 11:41:23 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.48569138	0.48569138	mg/L	33745.72723036	0.00556956	1.14672798	380.87973402	1.13		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.47930196
Al 396.152	Al	n	1.07301620	1.07301620	mg/L	34840.83923539	0.01669183	1.55559884	521.15495537	1.50	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.05455704
As 188.980	As	n	1.04985329	1.04985329	mg/L	4005.92502317	0.01276917	1.21628108	48.66634062	1.21	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	1.03513175
B 249.678	B	n	1.04208320	1.04208320	mg/L	36750.28140682	0.00851782	0.81738427	296.70299889	0.81	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	1.03226674
Ba 230.424	Ba	n	1.08403132	1.08403132	mg/L	89849.62908586	0.00677370	0.62486213	560.03996373	0.62	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	1.07621326
Be 313.107	Be	n	1.08580169	1.08580169	mg/L	2235314.16081597	0.01724056	1.58781841	35492.00778354	1.59	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	1.06624650
Ca 317.933	Ca-R	n	52.76567013	52.76567013	mg/L	702723.18424533	0.30688721	0.58160392	4080.02456994	0.58	5.35643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	53.06872287
Cd 214.439	Cd	n	1.02279032	1.02279032	mg/L	160160.83782455	0.00655298	0.64069617	1026.04289538	0.64	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	1.01538515
Co 230.786	Co	n	1.01925474	1.01925474	mg/L	36054.78516696	0.00768436	0.75391990	271.45305054	0.75	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	1.01155087
Cr 267.716	Cr	n	1.00396593	1.00396593	mg/L	57960.87041369	0.01165675	1.16106996	672.25600300	1.16	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.99086195
Cu 324.754	Cu	n	1.01844567	1.01844567	mg/L	35676.20970174	0.00968477	0.95093593	334.45197860	0.94	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.00745438
Fe 259.940	Fe	n	1.03107504	1.03107504	mg/L	55643.21070143	0.01442957	1.39946859	774.81304911	1.39	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	1.01483811
K 766.491	K-R	n	60.95895404	60.95895404	mg/L	86341.35173460	0.24716588	0.40546280	349.72774442	0.41	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	61.01324145
Li 670.783	Li-R	n	1.02443688	1.02443688	mg/L	107252.98770272	0.00445524	0.43489601	466.24908601	0.43	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	1.02784401
Mg 279.800	Mg-R	n	52.27643924	52.27643924	mg/L	117718.19402653	0.25813103	0.49378081	580.76630422	0.49	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	52.51330260
Mn 257.610	Mn	n	1.02924896	1.02924896	mg/L	384964.84185669	0.01234805	1.19971496	4611.26970375	1.20	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	1.01539577
Mo 204.598	Mo	n	1.01620378	1.01620378	mg/L	6878.77336963	0.02121160	2.08733704	143.37068851	2.08	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.99356562
Na 589.592	Na-R	n	51.49603767	51.49603767	mg/L	529575.96046134	0.27596329	0.53589228	2833.01389989	0.53	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	51.70068693
Ni 231.604	Ni	n	1.01035259	1.01035259	mg/L	20241.31166764	0.01095757	1.08452930	218.55929839	1.08	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.99775684
P 177.434	P	n	5.38060160	5.38060160	mg/L	2535.17802399	0.06738553	1.25237908	31.70871443	1.25		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	5.30455118
Pb 220.353	Pb	n	1.02578302	1.02578302	mg/L	7975.73321753	0.00775088	0.75560610	60.43657119	0.76	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.01683315
S 181.972	S	n	5.41770673	5.41770673	mg/L	6732.20575310	0.03308323	0.61065016	40.60384806	0.60		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	5.38173559
Sb 206.834	Sb	n	1.01734790	1.01734790	mg/L	2434.43165098	0.01908275	1.87573492	46.41320331	1.91	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.99593543
Se 196.026	Se	n	1.02921136	1.02921136	mg/L	2614.82101612	0.01648001	1.60122702	40.81031118	1.56	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	1.01018715
Si 251.611	Si	n	5.49810952	5.49810952	mg/L	41639.09593217	0.18655089	3.39300070	1407.21687831	3.38		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	5.29828561
Sn 189.925	Sn	n	5.16117899	5.16117899	mg/L	40448.27982112	0.04856184	0.94090595	380.34016508	0.94	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	5.10720933
Sr 421.552	Sr-R	n	1.04282220	1.04282220	mg/L	473648.74211342	0.00600438	0.57578151	2725.81986945	0.58	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	1.03956914
Ti 334.941	Ti	n	1.05108022	1.05108022	mg/L	314866.54709680	0.01526257	1.45208383	4566.24721604	1.45	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	1.03346340
Tl 190.794	Tl	n	1.04885048	1.04885048	mg/L	2392.74202310	0.03165072	3.01765813	71.97211319	3.01	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	1.01587524
V 292.401	V	n	1.02832806	1.02832806	mg/L	32922.79547670	0.01441572	1.40185956	461.67885649	1.40	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	1.01193871
Zn 206.200	Zn	n	1.01905111	1.01905111	mg/L	40689.42638296	0.01003762	0.98499669	400.38513934	0.98	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	1.00771995
Y 371.029	Y		0.96	0.96	Ratio	497179.57	0.01	0.55	2758.64	0.55		-	-	-	Fitted	-	-	0.95
Y 371.029	Y-R		0.97	0.97	Ratio	121746.09	0.01	0.74	903.41	0.74		-	-	-	Fitted	-	-	0.97

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353014	File: icp data
Cal: 673428353002	Time: 24-OCT-2023 11:53
Caldate: 24-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	514259	-0.88
Yttrium	R	125677	125556	-0.10

Label: ICB Rack/Tube: S1:1 Type: QC
 Date Time: 10/24/2023 11:53:52 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n	0.00027319	0.00027319	mg/L	548.26681626	0.00009561	34.99915505	6.53860526	1.19		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00030905	C
Al 396.152	Al	n	0.00264163	0.00264163	mg/L	1358.14326793	0.00189156	71.60556780	59.05852262	4.35	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.00420931	C
As 188.980	As	nu	0.00116279	0.00116279	mg/L	8.52701763	0.00209064	179.79467822	7.96793190	93.44	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	-0.00056815	C
B 249.678	B	n	0.00165178	0.00165178	mg/L	517.70605655	0.00024597	14.89097218	8.56776499	1.65	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00157663	C
Ba 230.424	Ba	n	0.00031536	0.00031536	mg/L	245.82073171	0.00008687	27.54734424	7.18254190	2.92	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00032547	C
Be 313.107	Be	n	0.00001771	0.00001771	mg/L	79.48334301	0.00000522	29.50535421	10.75582023	13.53	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00002353	C
Ca 317.933	Ca-R	nu	0.00025579	0.00025579	mg/L	1180.33829517	0.00150505	588.39366476	20.00944093	1.70	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	0.00090888	-
Cd 214.439	Cd	nu	-0.00001337	-0.00001337	mg/L	11.24899497	0.00003267	244.35444038	5.11554073	45.48	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	-0.00003801	C
Co 230.786	Co	nu	0.00045348	0.00045348	mg/L	65.08220196	0.00059002	130.10934196	20.84266660	32.03	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00105914	-
Cr 267.716	Cr	n	0.00024011	0.00024011	mg/L	67.98053540	0.00014161	58.97844556	8.16706838	12.01	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00032587	C
Cu 324.754	Cu	n	0.00173622	0.00173622	mg/L	559.04957323	0.00022727	13.09006082	7.84857211	1.40	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00168079	C
Fe 259.940	Fe	nu	-0.00113881	-0.00113881	mg/L	118.63078808	0.00024680	21.67140411	13.25204034	11.17	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	-0.00129587	-
K 766.491	K-R	n	0.03766884	0.03766884	mg/L	160.36143155	0.01263142	33.53280917	17.87284754	11.15	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	0.05085381	C
Li 670.783	Li-R	nu	-0.00058195	-0.00058195	mg/L	-52.83915699	0.00064011	109.99529469	66.98925594	> 100.00	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	-0.00089830	-
Mg 279.800	Mg-R	nu	-0.00895202	-0.00895202	mg/L	79.41639039	0.00357305	39.91335718	8.03897613	10.12	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	-0.00994220	-
Mn 257.610	Mn	nu	-0.00034908	-0.00034908	mg/L	425.38617875	0.00003111	8.91293692	11.61894067	2.73	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	-0.00038365	-
Mo 204.598	Mo	n	0.00112223	0.00112223	mg/L	17.95697607	0.00067228	59.90541201	4.54398206	25.30	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00058668	C
Na 589.592	Na-R	nu	-0.01599103	-0.01599103	mg/L	792.76778672	0.00703944	44.02118461	72.26623477	9.12	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	-0.00894710	-
Ni 231.604	Ni	nu	-0.00018148	-0.00018148	mg/L	82.55033445	0.00061922	341.21403740	12.35101948	14.96	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00006161	-
P 177.434	P	nu	0.00424340	0.00424340	mg/L	4.64225545	0.00699644	164.87833321	3.29222255	70.92		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.00647852	-
Pb 220.353	Pb	nu	0.00070416	0.00070416	mg/L	-14.69060209	0.00159299	226.22466532	12.42115170	84.55	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	-0.00028502	C
S 181.972	S	nu	-0.00038002	-0.00038002	mg/L	83.38613146	0.00408954	1076.14222629	5.01919269	6.02		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.00381517	-
Sb 206.834	Sb	nu	0.00054417	0.00054417	mg/L	-38.01613439	0.00381948	701.89526035	9.28976481	24.44	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00350942	C
Se 196.026	Se	nu	0.00075072	0.00075072	mg/L	67.28840838	0.00122434	163.08852292	3.03188880	4.51	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.00071537	C
Si 251.611	Si	nu	-0.00504134	-0.00504134	mg/L	151.50970892	0.00102598	20.35138015	7.73933197	5.11		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	-0.00549907	-
Sn 189.925	Sn	nu	0.00001943	0.00001943	mg/L	23.60548951	0.00073687	3791.47346294	5.77118955	24.45	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.00053685	C
Sr 421.552	Sr-R	nu	0.00002542	0.00002542	mg/L	23.62174173	0.00004337	170.60488673	19.68787398	83.35	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00002671	-
Ti 334.941	Ti	n	0.00017498	0.00017498	mg/L	458.48984479	0.00005435	31.05876691	16.25928014	3.55	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00021642	C
Tl 190.794	Tl	n	0.00057048	0.00057048	mg/L	8.51466759	0.00035457	62.15302015	0.80628094	9.47	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.2124477347766	2273.94856269028	0.00093048	C
V 292.401	V	nu	0.00031766	0.00031766	mg/L	10.59357394	0.00058389	183.81353319	18.69981861	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	-0.00033556	C
Zn 206.200	Zn	n	0.00034474	0.00034474	mg/L	35.35825038	0.00017219	49.94950718	6.86854559	19.43	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.00031178	C
Y 371.029	Y	0.99	0.99	Ratio	514259.09	0.01	0.83	4265.78	0.83		-	-	-	Fitted	-	-	-	0.98	1
Y 371.029	Y-R	1.00	1.00	Ratio	125556.32	0.01	0.77	967.90	0.77		-	-	-	Fitted	-	-	-	1.01	1

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	File: icp data	IDF: 1.0
Seqnum: 673428353015	Caldate: 24-OCT-2023	Time: 24-OCT-2023 11:57
Cal: 673428353002		

Standards: S19107

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	0.006729	0.003333	mg/L	a+ ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Aluminum	A	400.0	401.8	mg/L	100	
Aluminum as Al ₂ O ₃	A	755.8	759.2	mg/L	100	
Iron as Fe ₂ O ₃	A	228.8	215.3	mg/L	94	
Calcium	R	400.0	400.3	mg/L	100	
Calcium as CaCO ₃	R	998.9	999.6	mg/L	100	
Magnesium	R	400.0	410.5	mg/L	103	
Magnesium as MgCO ₃	R	1388	1424	mg/L	103	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	470181	-9.38
Yttrium	R	125677	117276	-6.68

+ = high bias a = ICSA

Label: ICSA,S19107

Rack:Tube: S1:14

Type: QC

Date Time: 10/24/2023 11:57:15 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concn Replicat
Ag 328.068	Ag	nu	-0.00111457	-0.00111457	mg/L	517.46162905	0.00008457	7.58743047	5.78319608	1.12		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	-0.001
Al 396.152	Al	no	401.80857624	401.80857624	mg/L	12547157.10861880	4.52558754	1.12630437	141298.63022263	1.13	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	396.6%
As 188.980	As	nu	-0.00071411	-0.00071411	mg/L	27.19229467	0.00076712	107.42299518	2.92368248	10.75	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	-0.000
B 249.678	B	nK	0.00630712	0.00630712	mg/L	504.93407213	0.00049204	7.80140077	17.13945855	3.39	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.006%
Ba 230.424	Ba	nK	0.00340455	0.00340455	mg/L	583.95255725	0.00023093	6.78283615	19.09257811	3.27	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.003%
Be 313.107	Be	nu	-0.00000510	-0.00000510	mg/L	71.84227374	0.00000988	193.80552166	20.34920895	28.32	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	-0.000
Ca 317.933	Ca-R	no	400.28704695	400.28704695	mg/L	5323284.99547580	2.87372351	0.71791569	38205.77139484	0.72	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	397.3%
Cd 214.439	Cd	n	0.00091123	0.00091123	mg/L	479.23105710	0.00007739	8.49285847	12.11742294	2.53	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.000%
Co 230.786	Co	nu	-0.00008636	-0.00008636	mg/L	57.07736730	0.00029282	339.06339935	10.34414088	18.12	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	-0.000
Cr 267.716	Cr	nu	-0.00004269	-0.00004269	mg/L	126.16794966	0.00012863	301.29771363	7.41837956	5.88	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	-0.000
Cu 324.754	Cu	nu	-0.00005410	-0.00005410	mg/L	555.70352864	0.00107165	1980.80798455	37.00808591	6.66	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.001%
Fe 259.940	Fe	no	150.60969444	150.60969444	mg/L	8088222.96382687	2.97876193	1.97780225	159948.17596499	1.98	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	147.1%
K 766.491	K-R	n	0.23770822	0.23770822	mg/L	83.05853676	0.00928989	3.90810789	13.14474948	15.83	41.8738682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	0.248%
Li 670.783	Li-R	nu	-0.00124958	-0.00124958	mg/L	178.14288920	0.00019806	15.85042039	20.72769621	11.64	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	-0.001
Mg 279.800	Mg-R	no	410.47576385	410.47576385	mg/L	923803.39832060	3.13412267	0.76353416	7051.42993436	0.76	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	407.4%
Mn 257.610	Mn	n	0.00025444	0.00025444	mg/L	1136.57045140	0.00014813	58.21910502	55.31809849	4.87	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.000%
Mo 204.598	Mo	n	0.00197894	0.00197894	mg/L	39.56299912	0.00082091	41.48256442	5.54862036	14.02	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.001%
Na 589.592	Na-R	n	0.21545366	0.21545366	mg/L	1744.42626577	0.00900569	4.17987148	92.45155021	5.30	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.220%
Ni 231.604	Ni	nu	-0.00066314	-0.00066314	mg/L	119.16899057	0.00035851	54.06320251	7.15091826	6.00	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	-0.000
P 177.434	P	nu	-0.00407343	-0.00407343	mg/L	3.31965782	0.00151979	37.30986792	0.71514776	21.54		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	-0.000
Pb 220.353	Pb	nK	0.00672859	0.00672859	mg/L	-749.47166000	0.00174047	25.86671050	13.57107365	1.81	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.007%
S 181.972	S	n	0.11898269	0.11898269	mg/L	231.84136311	0.00359093	3.01802390	4.40722958	1.90		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.121%
Sb 206.834	Sb	nK	0.01373903	0.01373903	mg/L	-22.25989035	0.00474745	34.55446052	11.54677471	51.87	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.014%
Se 196.026	Se	nK	0.02337557	0.02337557	mg/L	107.90186814	0.00028845	1.23396366	0.71429398	0.66	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.023%
Si 251.611	Si	n	0.04599975	0.04599975	mg/L	121.11916516	0.00165994	3.60858738	12.52150162	10.34		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	0.045%
Sn 189.925	Sn	nu	-0.00309426	-0.00309426	mg/L	34.18774084	0.00088571	28.62419544	6.93692486	20.29	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	-0.002
Sr 421.552	Sr-R	nu	-0.00050125	-0.00050125	mg/L	1501.38968724	0.00143198	285.68044832	650.07766775	43.30	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	-0.001
Ti 334.941	Ti	n	0.00043052	0.00043052	mg/L	461.67323249	0.00019440	45.15433133	58.15981062	12.60	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.000%
Tl 190.794	Tl	nu	-0.00410535	-0.00410535	mg/L	10.89467062	0.00041592	10.13114932	0.94577848	8.68	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.000
V 292.401	V	n	0.00087529	0.00087529	mg/L	-248.61310053	0.00025946	29.64254838	8.30947517	3.34	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.001%
Zn 206.200	Zn	nKu	-0.03763500	-0.03763500	mg/L	75.98548788	0.00012720	0.33797407	5.07367319	6.68	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	-0.037
Y 371.029	Y		0.91	0.91	Ratio	470181.31	0.01	0.88	4159.84	0.88		-	-	-	Fitted	-	-	0.90
Y 371.029	Y-R		0.93	0.93	Ratio	117275.90	0.01	1.00	1170.12	1.00		-	-	-	Fitted	-	-	0.94

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353016	File: icp data
Cal: 673428353002	Time: 24-OCT-2023 12:00
Caldate: 24-OCT-2023	

Standards: S19108

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	1.029	mg/L	3	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	475489	-8.35
Yttrium	R	125677	118730	-5.53

Label: ICSAB,S19108

Rack: Tube: S1:15

Type: QC

Date Time: 10/24/2023 12:00:22 PM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentr Replicate
Ag 328.068	Ag	n	1.05905021	1.05905021	mg/L	73017.24204530	0.00615080	0.58078455	420.62846995	0.58		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	1.05232
Al 396.152	Al	no	398.81583786	398.81583786	mg/L	12453713.02009920	4.31807432	1.08272388	134819.61857065	1.08	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	393.846
As 188.980	As	nu	0.00090301	0.00090301	mg/L	33.06450036	0.00192798	213.50631053	7.34797868	22.22	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	-0.0012
B 249.678	B	n	0.00617626	0.00617626	mg/L	502.13294520	0.00065491	10.60371698	22.81271379	4.54	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00590
Ba 230.424	Ba	n	0.54851485	0.54851485	mg/L	45652.03474846	0.00245234	0.44708800	202.75631242	0.44	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.54575
Be 313.107	Be	n	0.55152196	0.55152196	mg/L	1135464.01731987	0.00623425	1.13037114	12834.03129586	1.13	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.54488
Ca 317.933	Ca-R	no	395.13951578	395.13951578	mg/L	5254845.78452361	1.75243942	0.44349890	23298.44872628	0.44	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	396.972
Cd 214.439	Cd	n	1.00474926	1.00474926	mg/L	157653.00373301	0.00447535	0.44541914	700.73425558	0.44	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	1.00074
Co 230.786	Co	n	0.49524797	0.49524797	mg/L	17554.82836084	0.00474181	0.95746162	167.50618974	0.95	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.49006
Cr 267.716	Cr	n	0.50457896	0.50457896	mg/L	29227.53314772	0.00508997	1.00875615	293.54363106	1.00	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.49871
Cu 324.754	Cu	n	0.55312191	0.55312191	mg/L	19658.48525805	0.00490792	0.88731178	169.48909244	0.86	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.54750
Fe 259.940	Fe	no	149.40333801	149.40333801	mg/L	8023437.81643103	1.76517985	1.18148622	94783.43814027	1.18	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	147.377
K 766.491	K-R	n	0.25746387	0.25746387	mg/L	114.68416469	0.02163498	8.40311171	30.61244339	26.69	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	0.27190
Li 670.783	Li-R	nu	-0.00130001	-0.00130001	mg/L	170.40976815	0.00013316	10.24334258	13.93594440	8.18	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	-0.0011
Mg 279.800	Mg-R	no	406.13586674	406.13586674	mg/L	914037.08900658	1.69111139	0.41639056	3804.81388755	0.42	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	407.900
Mn 257.610	Mn	n	0.51273500	0.51273500	mg/L	192513.18311165	0.00374074	0.72956613	1396.94606871	0.73	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	0.50850
Mo 204.598	Mo	n	0.00490277	0.00490277	mg/L	59.14245689	0.00069624	14.20097050	4.70593910	7.96	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00440
Na 589.592	Na-R	n	0.47722389	0.47722389	mg/L	4446.85586591	0.02028945	4.25155703	208.28959554	4.68	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.50000
Ni 231.604	Ni	n	0.98512888	0.98512888	mg/L	19781.27597609	0.00754191	0.76557593	150.43065875	0.76	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.97667
P 177.434	P	n	0.00233362	0.00233362	mg/L	6.32774628	0.00116063	49.73495121	0.54614040	8.63		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.00350
Pb 220.353	Pb	n	1.02949385	1.02949385	mg/L	7234.11514420	0.00823554	0.79996026	64.21567125	0.89	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.02130
S 181.972	S	n	0.11750294	0.11750294	mg/L	230.02031859	0.00355334	3.02404662	4.36110399	1.90		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.12078
Sb 206.834	Sb	n	0.01122705	0.01122705	mg/L	-28.21541965	0.00225729	20.10583391	5.49020162	19.46	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.01200
Se 196.026	Se	n	0.02446589	0.02446589	mg/L	110.80028511	0.00419299	17.13811419	10.38332491	9.37	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.02261
Si 251.611	Si	n	0.04739487	0.04739487	mg/L	135.71664512	0.00133505	2.81685649	10.07070134	7.42		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	0.04614
Sn 189.925	Sn	nu	-0.00390378	-0.00390378	mg/L	27.49297481	0.00130357	33.39260295	10.20968882	37.14	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	-0.00400
Sr 421.552	Sr-R	nu	-0.00129402	-0.00129402	mg/L	1129.99955642	0.00004472	3.45551024	20.29938905	1.80	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	-0.0013
Ti 334.941	Ti	n	0.00056827	0.00056827	mg/L	503.59573366	0.00012650	22.26038333	37.84617642	7.52	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00040
Tl 190.794	Tl	nu	-0.00657937	-0.00657937	mg/L	5.13681355	0.00055575	8.44679225	1.26373668	24.60	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	-0.00700
V 292.401	V	n	0.52814409	0.52814409	mg/L	16640.61979690	0.00475771	0.90083491	152.37068693	0.92	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.52260
Zn 206.200	Zn	n	0.96135159	0.96135159	mg/L	39906.20805829	0.00541171	0.56292729	215.86476908	0.54	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.95650
Y 371.029	Y	0.92	0.92	Ratio	475488.58	0.01	0.96	4541.44		0.96		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R	0.94	0.94	Ratio	118729.65	0.00	0.26	304.53		0.26		-	-	-	Fitted	-	-	0.95

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353038	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 13:18
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8274.5	1.000	1.064	mg/L	6	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	481566	-7.18
Yttrium	R	125677	124871	-0.64

Label: CCV,S19239 Rack: Tube: S1:12 Type: QC
 Date Time: 10/24/2023 1:18:52 PM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n!	0.50307359	0.50307359	mg/L	34934.45483481	0.00363576	0.72270865	248.63474815	0.71		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.49887544
Al 396.152	Al	nQ!	1.10818944	1.10818944	mg/L	35939.71202182	0.01332055	1.20201023	415.89639030	1.16	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.09335510
As 188.980	As	n!	1.08990908	1.08990908	mg/L	4158.59185451	0.01019113	0.93504363	38.84080952	0.93	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	1.07868636
B 249.678	B	n!	1.08203700	1.08203700	mg/L	38141.90407472	0.00742010	0.68575256	258.46563962	0.68	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	1.07393669
Ba 230.424	Ba	nQ!	1.12514809	1.12514809	mg/L	93249.14064730	0.01014268	0.90145259	838.58205077	0.90	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	1.11461234
Be 313.107	Be	nQ!	1.13287666	1.13287666	mg/L	2332224.32113945	0.00820450	0.72421796	16890.05794761	0.72	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	1.12341489
Ca 317.933	Ca-R	n!	53.23928443	53.23928443	mg/L	709020.08257969	0.09768846	0.18348943	1298.75507931	0.18	5.35643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	53.34602987
Cd 214.439	Cd	n!	1.06385452	1.06385452	mg/L	166590.54876422	0.00624561	0.58707392	977.91658440	0.59	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	1.05671845
Co 230.786	Co	n!	1.06244312	1.06244312	mg/L	37580.43318784	0.00966270	0.90947916	341.33845665	0.91	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	1.05191468
Cr 267.716	Cr	n!	1.03987889	1.03987889	mg/L	60032.07766866	0.00988142	0.95024735	569.87126048	0.95	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	1.02848337
Cu 324.754	Cu	n!	1.05517363	1.05517363	mg/L	36944.62790861	0.00756162	0.71662288	261.13148874	0.71	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.04651277
Fe 259.940	Fe	n!	1.06545910	1.06545910	mg/L	57490.29580922	0.01168755	1.08694937	627.57677419	1.09	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	1.05198303
K 766.491	K-R	n!	61.55798161	61.55798161	mg/L	87188.75969817	0.05493762	0.08924533	77.73407364	0.09	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	61.60860750
Li 670.783	Li-R	n!	1.03680570	1.03680570	mg/L	108547.77606020	0.00115385	0.11128866	120.75236529	0.11	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	1.03800800
Mg 279.800	Mg-R	n!	52.61291039	52.61291039	mg/L	118475.24151663	0.10415259	0.19796014	234.33182715	0.20	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	52.73277208
Mn 257.610	Mn	n!	1.06506841	1.06506841	mg/L	398341.70221376	0.00991582	0.93100286	3702.97286633	0.93	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	1.05364256
Mo 204.598	Mo	n!	1.04832701	1.04832701	mg/L	7095.89524368	0.01440018	1.37363453	97.33184555	1.37	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	1.03199443
Na 589.592	Na-R	n!	52.11956227	52.11956227	mg/L	535976.59506651	0.06179782	0.11856934	634.41079021	0.12	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	52.11940545
Ni 231.604	Ni	n!	1.04674170	1.04674170	mg/L	20967.15362112	0.01013287	0.96803940	202.10990513	0.96	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	1.03504284
P 177.434	P	nQ!	5.94193328	5.94193328	mg/L	2799.32404791	0.02351159	0.39568931	11.06353930	0.40		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	5.92019946
Pb 220.353	Pb	n!	1.06410472	1.06410472	mg/L	8274.48937969	0.00617060	0.57988634	48.11451450	0.58	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.05717994
S 181.972	S	nQ!	5.70830103	5.70830103	mg/L	7088.85659184	0.03628742	0.63569555	44.53641617	0.63		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	5.66796068
Sb 206.834	Sb	n!	1.04773282	1.04773282	mg/L	2508.32596776	0.01771826	1.69110442	43.09447158	1.72	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	1.02901679
Se 196.026	Se	n!	1.07018182	1.07018182	mg/L	2716.28408153	0.01459110	1.36342261	36.13270573	1.33	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	1.05375295
Si 251.611	Si	nQ!	5.70351713	5.70351713	mg/L	43188.29796598	0.17650626	3.09469142	1331.44674697	3.08		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	5.51318934
Sn 189.925	Sn	n!	5.35830107	5.35830107	mg/L	41992.17483259	0.04966442	0.92686870	388.97561927	0.93	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	5.30095366
Sr 421.552	Sr-R	n!	1.06527241	1.06527241	mg/L	483843.17962991	0.00306007	0.28725694	1389.18595679	0.29	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	1.06768767
Ti 334.941	Ti	n!	1.09678659	1.09678659	mg/L	328540.92415914	0.01535824	1.40029427	4594.87085333	1.40	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	1.08014553
Tl 190.794	Tl	n!	1.09064996	1.09064996	mg/L	2487.79748371	0.02890078	2.64986725	65.71887844	2.64	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	1.06043370
V 292.401	V	n!	1.06659482	1.06659482	mg/L	34148.21003241	0.01124011	1.05383137	359.97669588	1.05	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	1.05368711
Zn 206.200	Zn	n!	1.05973853	1.05973853	mg/L	42312.55010964	0.00580561	0.54783396	231.57671415	0.55	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	1.05314788
Y 371.029	Y	!	0.93	0.93	Ratio	481566.02	0.01	0.63	3041.33	0.63		-	-	-	Fitted	-	-	0.92
Y 371.029	Y-R	!	0.99	0.99	Ratio	124870.90	0.00	0.13	165.51	0.13		-	-	-	Fitted	-	-	0.99

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	File: icp data	IDF: 1.0
Seqnum: 673428353039	Caldate: 24-OCT-2023	Time: 24-OCT-2023 13:21
Cal: 673428353001		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	498318	-3.95
Yttrium	R	125677	128176	1.99

Label: CCB Rack: Tube: S1:1 Type: QC
 Date Time: 10/24/2023 1:21:59 PM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n	0.00051957	0.00051957	mg/L	565.11555878	0.00028585	55.01718859	19.54821110	3.46		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00084541	C
Al 396.152	Al	nZ	0.00491376	0.00491376	mg/L	1429.08116378	0.00114232	23.24737459	35.66568271	2.50	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.00437569	C
As 188.980	As	nu	0.00076508	0.00076508	mg/L	7.01139510	0.00111361	145.55416916	4.24424470	60.53	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.00100696	-
B 249.678	B	n	0.00229360	0.00229360	mg/L	540.06243613	0.00013561	5.91240351	4.72361670	0.87	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00241385	C
Ba 230.424	Ba	n	0.00027950	0.00027950	mg/L	242.85617914	0.00018338	65.60974781	15.16164346	6.24	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00047985	C
Be 313.107	Be	n	0.00003296	0.00003296	mg/L	110.89220190	0.00000747	22.65530745	15.37447018	13.86	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00004099	C
Ca 317.933	Ca-R	nu	-0.00220624	-0.00220624	mg/L	1147.60603959	0.00087297	39.56830850	11.60604938	1.01	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	-0.00221088	-
Cd 214.439	Cd	n	0.00004921	0.00004921	mg/L	21.04968430	0.00002055	41.75638182	3.21724409	15.28	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00006896	C
Co 230.786	Co	nu	0.00034393	0.00034393	mg/L	61.21224765	0.00040273	117.09862900	14.22671623	23.24	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00063713	C
Cr 267.716	Cr	n	0.00012748	0.00012748	mg/L	61.48495616	0.00006550	51.38228697	3.77771875	6.14	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00006165	C
Cu 324.754	Cu	n	0.00208720	0.00208720	mg/L	571.17005217	0.00022595	10.82563032	7.80302009	1.37	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00219231	C
Fe 259.940	Fe	nu	-0.00038644	-0.00038644	mg/L	159.02876849	0.00039676	102.67035804	21.30465462	13.40	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	-0.00083983	-
K 766.491	K-R	n	0.01320412	0.01320412	mg/L	125.74478268	0.01292917	97.91769195	18.29415430	14.55	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	0.00444442	C
Li 670.783	Li-R	nu	-0.00044210	-0.00044210	mg/L	-38.20472614	0.00102194	231.15739209	106.94815990	> 100.00	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	-0.00078350	-
Mg 279.800	Mg-R	nu	-0.01365525	-0.01365525	mg/L	68.83575995	0.00137925	10.10049845	3.10315704	4.51	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	-0.01216625	-
Mn 257.610	Mn	nu	-0.00030890	-0.00030890	mg/L	440.39196490	0.00003880	12.55921751	14.48770173	3.29	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	-0.00035318	-
Mo 204.598	Mo	nZ	0.00555557	0.00555557	mg/L	47.92222619	0.00266991	48.05835344	18.04613832	37.66	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00268055	C
Na 589.592	Na-R	n	0.08931688	0.08931688	mg/L	1873.84698872	0.02897268	32.43807491	297.43085684	15.87	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.11653160	C
Ni 231.604	Ni	nu	0.00031709	0.00031709	mg/L	92.49476055	0.00064041	201.96419506	12.77353199	13.81	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	-0.00036344	C
P 177.434	P	nu	-0.00148094	-0.00148094	mg/L	1.94859134	0.00367562	248.19570609	1.72958757	88.76		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.00236459	-
Pb 220.353	Pb	nu	0.00115982	0.00115982	mg/L	-11.13803572	0.00159130	137.20172098	12.40795204	> 100.00	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.00292770	C
S 181.972	S	n	0.00736959	0.00736959	mg/L	92.89724016	0.00255427	34.65956716	3.13491522	3.37		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.00993251	C
Sb 206.834	Sb	nu	0.00212414	0.00212414	mg/L	-34.17314478	0.00361563	170.21577871	8.79395347	25.73	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.00070856	C
Se 196.026	Se	n	0.00272373	0.00272373	mg/L	72.17401895	0.00120796	44.34962763	2.99134517	4.14	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.00175543	C
Si 251.611	Si	nu	-0.00555859	-0.00555859	mg/L	147.60780797	0.00055231	9.93624488	4.16629808	2.82		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	-0.00513306	-
Sn 189.925	Sn	n	0.00092485	0.00092485	mg/L	30.69682255	0.00025902	28.00649996	2.02865539	6.61	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.00062696	C
Sr 421.552	Sr-R	n	0.00004512	0.00004512	mg/L	32.55225332	0.00001195	26.49396585	5.42710574	16.67	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00004029	C
Ti 334.941	Ti	n	0.00071755	0.00071755	mg/L	620.81638663	0.00020695	28.84176341	61.91647548	9.97	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00048005	C
Tl 190.794	Tl	nu	0.00044659	0.00044659	mg/L	8.23292024	0.00106868	239.29868951	2.43011952	29.52	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21274477347766	2273.94856269028	0.00094912	C
V 292.401	V	nu	-0.00027221	-0.00027221	mg/L	-8.29846671	0.00027748	101.93704007	8.88664579	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	-0.00057874	-
Zn 206.200	Zn	n	0.00042518	0.00042518	mg/L	38.57758170	0.00019643	46.19815548	7.83513891	20.31	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.00041160	C
Y 371.029	Y		0.96	0.96	Ratio	498318.19	0.01	0.62	3065.20	0.62		-	-	-	Fitted	-	-	0.95	C
Y 371.029	Y-R		1.02	1.02	Ratio	128175.81	0.00	0.43	554.37	0.43		-	-	-	Fitted	-	-	1.02	I

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353050	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 13:56
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8325.4	1.000	1.071	mg/L	7	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	469293	-9.55
Yttrium	R	125677	120566	-4.07

Label: CCV,S19239

Rack:Tube: S1:12

Type: QC

Date Time: 10/24/2023 1:56:20 PM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.50780241	0.50780241	mg/L	35257.86253079	0.00366466	0.72166950	250.61102306	0.71		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.50357084
Al 396.152	Al	nQ	1.12170894	1.12170894	mg/L	36362.76494774	0.01293780	1.15340040	403.94594995	1.11	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.10679249
As 188.980	As	n	1.09717885	1.09717885	mg/L	4186.30683373	0.00942793	0.85928824	35.93208527	0.86	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	1.08629347
B 249.678	B	n	1.08446525	1.08446525	mg/L	38226.35789454	0.00731479	0.67450692	254.79759213	0.67	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	1.07630462
Ba 230.424	Ba	nQ	1.12724054	1.12724054	mg/L	93422.19636077	0.01067606	0.94709679	882.68134760	0.94	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	1.11566534
Be 313.107	Be	nQ	1.14327969	1.14327969	mg/L	2353640.38966542	0.01176091	1.02869886	24211.40349553	1.03	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	1.12989374
Ca 317.933	Ca-R	n	54.18022300	54.18022300	mg/L	721530.25293977	0.07302844	0.13478800	970.90340347	0.13	5.3643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	54.09808626
Cd 214.439	Cd	n	1.06523837	1.06523837	mg/L	166807.25188213	0.00969197	0.90984002	1517.53466430	0.91	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	1.05576759
Co 230.786	Co	n	1.06345707	1.06345707	mg/L	37616.25349261	0.00959733	0.90246499	339.02920127	0.90	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	1.05280635
Cr 267.716	Cr	n	1.04635880	1.04635880	mg/L	60405.88573265	0.01067062	1.01978586	615.38504868	1.02	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	1.03405299
Cu 324.754	Cu	n	1.06351115	1.06351115	mg/L	37232.65034371	0.00894441	0.84102632	308.88461684	0.83	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.05326630
Fe 259.940	Fe	n	1.07080052	1.07080052	mg/L	57778.62674371	0.01180223	1.10218715	633.73459123	1.10	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	1.05731473
K 766.491	K-R	n	62.38317234	62.38317234	mg/L	88356.07282852	0.08476074	0.13587117	119.93234589	0.14	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	62.28724834
Li 670.783	Li-R	n	1.04775834	1.04775834	mg/L	109694.52554904	0.00196832	0.18786030	205.98874822	0.19	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	1.04550071
Mg 279.800	Mg-R	n	53.50655642	53.50655642	mg/L	120485.87564203	0.08643579	0.16154244	194.47099225	0.16	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	53.53495180
Mn 257.610	Mn	n	1.07235585	1.07235585	mg/L	401063.81469062	0.01034340	0.96454924	3862.64985206	0.96	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	1.06042044
Mo 204.598	Mo	n	1.05454832	1.05454832	mg/L	7137.94210755	0.01543128	1.46330722	104.30112327	1.46	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	1.03866507
Na 589.592	Na-R	n	52.87844872	52.87844872	mg/L	543766.77734324	0.04764597	0.09010471	489.12921143	0.09	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	52.89295804
Ni 231.604	Ni	n	1.05500469	1.05500469	mg/L	21132.00659886	0.00975018	0.92418385	194.47680090	0.92	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	1.04375791
P 177.434	P	nQ	6.15741348	6.15741348	mg/L	2900.72947874	0.03800217	0.61717748	17.88217686	0.62		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	6.11485608
Pb 220.353	Pb	n	1.07063864	1.07063864	mg/L	8325.41924846	0.00735772	0.68722750	57.37098414	0.69	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.06258707
S 181.972	S	nQ	5.74746214	5.74746214	mg/L	7136.90523614	0.02288176	0.39811937	28.08333365	0.39		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	5.74449824
Sb 206.834	Sb	n	1.05922349	1.05922349	mg/L	2536.26419181	0.01646534	1.55447222	40.04710782	1.58	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	1.04021096
Se 196.026	Se	n	1.07982367	1.07982367	mg/L	2740.17278080	0.00963089	0.89189432	23.84946633	0.87	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	1.06970930
Si 251.611	Si	nQ	5.77234135	5.77234135	mg/L	43707.10182518	0.19479783	3.37467621	1469.42632069	3.36		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	5.56272381
Sn 189.925	Sn	n	5.36597415	5.36597415	mg/L	42052.30176431	0.05221835	0.97313827	408.97821944	0.97	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	5.30938692
Sr 421.552	Sr-R	n	1.08092273	1.08092273	mg/L	490951.31576803	0.00324716	0.30040606	1474.11887779	0.30	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	1.08441349
Ti 334.941	Ti	nQ	1.10258898	1.10258898	mg/L	330276.86816140	0.01486674	1.34834787	4447.82272675	1.35	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	1.08572051
Tl 190.794	Tl	n	1.09398858	1.09398858	mg/L	2495.39645125	0.02638754	2.41204862	60.00390042	2.40	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	1.06424382
V 292.401	V	n	1.07552908	1.07552908	mg/L	34434.18482938	0.01164936	1.08312835	373.08335513	1.08	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	1.06211232
Zn 206.200	Zn	n	1.06371346	1.06371346	mg/L	42471.33718943	0.00872630	0.82036232	348.07879876	0.82	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	1.05640534
Y 371.029	Y		0.90	0.90	Ratio	469293.15	0.01	0.76	3582.30	0.76		-	-	-	Fitted	-	-	0.90
Y 371.029	Y-R		0.96	0.96	Ratio	120565.88	0.00	0.21	249.84	0.21		-	-	-	Fitted	-	-	0.96

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353051	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 13:59
	Caldate: 24-OCT-2023

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	485201	-6.48
Yttrium	R	125677	123082	-2.06

Label: CCB Rack/Tube: S1:1 Type: QC
 Date Time: 10/24/2023 1:59:27 PM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration #	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00065565	0.00065565	mg/L	574.42148121	0.00034186	52.14147748	23.37877152	4.07		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00103365
Al 396.152	Al	nZ	0.00569240	0.00569240	mg/L	1453.39937523	0.00040340	7.08670815	12.59513738	0.87	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.00615764
As 188.980	As	nu	0.00129828	0.00129828	mg/L	9.04358892	0.00178856	137.76363936	6.81662806	75.38	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	-0.00066081
B 249.678	B	n	0.00225176	0.00225176	mg/L	538.60392714	0.00013248	5.88322873	4.61457029	0.86	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00239180
Ba 230.424	Ba	nu	-0.00012218	-0.00012218	mg/L	209.64539940	0.00030191	247.09758708	24.96136929	11.91	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	-0.00037950
Be 313.107	Be	n	0.00001135	0.00001135	mg/L	66.39846753	0.00000695	61.22897053	14.30831945	21.55	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00000567
Ca 317.933	Ca-R	nu	-0.00068399	-0.00068399	mg/L	1167.84404212	0.00119256	174.35381345	15.85496848	1.36	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	-0.00168618
Cd 214.439	Cd	n	0.00005723	0.00005723	mg/L	22.30759172	0.00003272	57.17058610	5.12314269	22.97	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00007287
Co 230.786	Co	nu	-0.00011229	-0.00011229	mg/L	45.09613101	0.00016145	143.77501855	5.70330118	12.65	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	-0.00005283
Cr 267.716	Cr	n	0.00013745	0.00013745	mg/L	62.06040283	0.00011534	83.90793880	6.65149484	10.72	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00004387
Cu 324.754	Cu	n	0.00268949	0.00268949	mg/L	591.96928057	0.00008870	3.29785532	3.06299845	0.52	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00271725
Fe 259.940	Fe	nu	-0.00031198	-0.00031198	mg/L	163.02650590	0.00030503	97.77035350	16.37884715	10.05	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	-0.00063942
K 766.491	K-R	nu	0.00578929	0.00578929	mg/L	115.25285129	0.02522725	435.75686823	35.69533634	30.97	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	-0.02295987
Li 670.783	Li-R	nu	-0.00044786	-0.00044786	mg/L	-38.80368523	0.00059514	132.88678351	62.28297875	> 100.00	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00005758
Mg 279.800	Mg-R	nu	-0.01105363	-0.01105363	mg/L	74.68995220	0.00226824	20.52029367	5.10328435	6.83	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	-0.01250006
Mn 257.610	Mn	nu	-0.00026363	-0.00026363	mg/L	457.30059049	0.00001853	7.02940724	6.92052297	1.51	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	-0.00025086
Mo 204.598	Mo	nZ	0.00506723	0.00506723	mg/L	44.62137342	0.00215072	42.44363055	14.53685014	32.58	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00290537
Na 589.592	Na-R	n	0.13999236	0.13999236	mg/L	2394.07879595	0.04405883	31.47230776	452.30388870	18.89	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.18712756
Ni 231.604	Ni	n	0.00077629	0.00077629	mg/L	101.65406367	0.00045679	58.84259359	9.11106880	8.96	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00051705
P 177.434	P	nu	0.00012861	0.00012861	mg/L	2.70609706	0.00198676	1544.78290064	0.93488291	34.55		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.00185827
Pb 220.353	Pb	nu	0.00055272	0.00055272	mg/L	-15.86318050	0.00183300	331.63424112	14.29256483	90.10	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.00134577
S 181.972	S	n	0.01111188	0.01111188	mg/L	97.48992625	0.00443371	39.90065948	5.44160337	5.58		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.01138244
Sb 206.834	Sb	nu	0.00035905	0.00035905	mg/L	-38.46585656	0.00513751	1430.86054742	12.49549147	32.48	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00557268
Se 196.026	Se	nu	0.00018169	0.00018169	mg/L	65.87872266	0.00074300	408.94183387	1.83992663	2.79	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	-0.00024296
Si 251.611	Si	nu	-0.00540158	-0.00540158	mg/L	148.79014306	0.00063752	11.80255662	4.80906465	3.23		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	-0.00609149
Sn 189.925	Sn	n	0.00179079	0.00179079	mg/L	37.47899122	0.00123700	69.07571667	9.68829386	25.85	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.00051508
Sr 421.552	Sr-R	nu	0.00001016	0.00001016	mg/L	16.71266550	0.00001005	98.95812522	4.56349360	27.31	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00001897
Ti 334.941	Ti	n	0.00077848	0.00077848	mg/L	639.04362971	0.00025031	32.15400294	74.88789468	11.72	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00054572
Tl 190.794	Tl	nu	-0.00087911	-0.00087911	mg/L	5.21830835	0.00093721	106.60910193	2.13116758	40.84	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	0.00005995
V 292.401	V	nu	-0.00014900	-0.00014900	mg/L	-4.35497062	0.00047331	317.65065101	15.15837300	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	-0.00046703
Zn 206.200	Zn	n	0.00023874	0.00023874	mg/L	31.14728572	0.00006146	25.74474875	2.45166184	7.87	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.00030357
Y 371.029	Y		0.94	0.94	Ratio	485201.30	0.01	0.99	4816.79	0.99		-	-	-	Fitted	-	-	0.92
Y 371.029	Y-R		0.98	0.98	Ratio	123082.12	0.00	0.48	590.97	0.48		-	-	-	Fitted	-	-	0.98

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353062	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 14:33
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8442.9	1.000	1.086	mg/L	9	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	470902	-9.24
Yttrium	R	125677	121073	-3.66

Label: CCV,S19239

Rack:Tube: S1:12

Type: QC

Date Time: 10/24/2023 2:33:46 PM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.51404756	0.51404756	mg/L	35684.95665102	0.00155585	0.30266635	106.39825192	0.30		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.51246788
Al 396.152	Al	nQ	1.13553659	1.13553659	mg/L	36794.87859986	0.00492150	0.43340705	153.65973699	0.42	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.12985416
As 188.980	As	nQ	1.11885557	1.11885557	mg/L	4268.92566320	0.00310038	0.27710295	11.81629431	0.28	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	1.11603124
B 249.678	B	n	1.08956985	1.08956985	mg/L	38404.10971663	0.00279418	0.25644829	97.33032150	0.25	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	1.08654960
Ba 230.424	Ba	nQ	1.14463784	1.14463784	mg/L	94860.60131615	0.00185230	0.16182434	153.14574248	0.16	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	1.14458016
Be 313.107	Be	nQ	1.15486435	1.15486435	mg/L	2377488.98396638	0.00723220	0.62623816	14888.45810813	0.63	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	1.14706211
Ca 317.933	Ca-R	n	54.44635563	54.44635563	mg/L	725068.60803130	1.80295656	3.31143662	23970.06733852	3.31	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	54.72154034
Cd 214.439	Cd	n	1.08220588	1.08220588	mg/L	169463.99421702	0.00325566	0.30083582	509.76055263	0.30	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	1.08520380
Co 230.786	Co	n	1.07766616	1.07766616	mg/L	38118.19643934	0.00281373	0.26109489	99.39611299	0.26	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	1.07947675
Cr 267.716	Cr	n	1.05449829	1.05449829	mg/L	60875.33901135	0.00384484	0.36461302	221.73557936	0.36	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	1.05008303
Cu 324.754	Cu	n	1.07783721	1.07783721	mg/L	37727.41682735	0.00368180	0.34159143	127.14661098	0.34	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.07408902
Fe 259.940	Fe	n	1.08606134	1.08606134	mg/L	58598.54104901	0.00525852	0.48418227	282.36231306	0.48	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	1.08003955
K 766.491	K-R	n	62.88475068	62.88475068	mg/L	89065.67152457	2.13311713	3.39210557	3018.25735811	3.39	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	62.98979767
Li 670.783	Li-R	n	1.05562668	1.05562668	mg/L	110518.17069720	0.03485280	3.30162204	3647.41415266	3.30	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	1.05969298
Mg 279.800	Mg-R	n	53.74043492	53.74043492	mg/L	121012.09791458	1.80189674	3.35296271	4054.06869600	3.35	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	53.94819431
Mn 257.610	Mn	n	1.07692830	1.07692830	mg/L	402771.60218299	0.00392712	0.36465917	1466.54683590	0.36	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	1.07239381
Mo 204.598	Mo	n	1.07341078	1.07341078	mg/L	7265.43401854	0.01218948	1.13558399	82.38956278	1.13	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	1.06047177
Na 589.592	Na-R	n	53.15585921	53.15585921	mg/L	546614.40819144	1.81489966	3.41429843	18631.59411911	3.41	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	53.34590443
Ni 231.604	Ni	n	1.06479884	1.06479884	mg/L	21327.37606345	0.00331782	0.31159158	66.17718961	0.31	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	1.06137105
P 177.434	P	nQ	6.25936476	6.25936476	mg/L	2948.70754223	0.01424247	0.22753852	6.70188843	0.23		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	6.27160040
Pb 220.353	Pb	n	1.08570378	1.08570378	mg/L	8442.86928156	0.00141696	0.13051096	11.04859858	0.13	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.08406972
S 181.972	S	nQ	5.82378584	5.82378584	mg/L	7230.57563521	0.00694965	0.11933219	8.52947406	0.12		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	5.82601748
Sb 206.834	Sb	n	1.07958147	1.07958147	mg/L	2585.77588549	0.01069278	0.99045643	26.00706727	1.01	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	1.06881976
Se 196.026	Se	n	1.09415856	1.09415856	mg/L	2775.67258175	0.00799479	0.73067923	19.79791445	0.71	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	1.08610355
Si 251.611	Si	nQ	5.80691060	5.80691060	mg/L	43967.71927008	0.15816044	2.72365897	1193.05802782	2.71		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	5.63964605
Sn 189.925	Sn	n	5.46286190	5.46286190	mg/L	42811.14580684	0.01004960	0.18396216	78.70925204	0.18	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	5.46820910
Sr 421.552	Sr-R	n	1.08985895	1.08985895	mg/L	495009.56321783	0.03422491	3.14030632	15537.15426453	3.14	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	1.09340786
Ti 334.941	Ti	nQ	1.11924402	1.11924402	mg/L	335259.69949061	0.00864792	0.77265717	2587.28034416	0.77	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	1.10972284
Tl 190.794	Tl	nQ	1.11592750	1.11592750	mg/L	2545.28745587	0.02559337	2.29346146	58.19800047	2.29	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	1.08888927
V 292.401	V	n	1.09045271	1.09045271	mg/L	34912.05383313	0.00561152	0.51460502	179.71513266	0.51	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	1.08398321
Zn 206.200	Zn	n	1.09391678	1.09391678	mg/L	43676.26660012	0.00294621	0.26932646	117.51965810	0.27	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	1.09621991
Y 371.029	Y		0.91	0.91	Ratio	470901.79	0.01	0.81	3829.32	0.81	-	-	-	-	Fitted	-	-	0.90
Y 371.029	Y-R		0.96	0.96	Ratio	121073.23	0.03	2.75	3331.32	2.75	-	-	-	-	Fitted	-	-	0.96

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353063	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 14:36
	Caldate: 24-OCT-2023

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	486162	-6.30
Yttrium	R	125677	124676	-0.80

Label: CCB Rack/Tube: S1:1 Type: QC
 Date Time: 10/24/2023 2:36:53 PM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Con Rep
Ag 328.068	Ag	n	0.00051452	0.00051452	mg/L	564.76984650	0.00037494	72.87296972	25.64091552	4.54		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00094306	0.0%
Al 396.152	Al	nZ	0.00571960	0.00571960	mg/L	1454.24058136	0.00060609	10.59679689	18.92359426	1.30	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.00625785	0.0%
As 188.980	As	n	0.00138605	0.00138605	mg/L	9.37820219	0.00128257	92.53467272	4.88819238	52.12	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.00058737	0.0%
B 249.678	B	n	0.00226906	0.00226906	mg/L	539.20710858	0.00081314	35.83576643	28.32412435	5.25	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00320165	0.0%
Ba 230.424	Ba	n	0.00009059	0.00009059	mg/L	227.23717061	0.00013729	151.55349315	11.35108937	5.00	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00000768	0.0%
Be 313.107	Be	n	0.00002296	0.00002296	mg/L	90.29975527	0.00000452	19.67598971	9.30082103	10.30	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00001880	0.0%
Ca 317.933	Ca-R	nu	-0.00219925	-0.00219925	mg/L	1147.69944790	0.00156160	71.00602267	20.76126376	1.81	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	-0.00294635	-0.0%
Cd 214.439	Cd	n	0.00006346	0.00006346	mg/L	23.28387770	0.00001613	25.41209433	2.52489247	10.84	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00007289	0.0%
Co 230.786	Co	n	0.00028017	0.00028017	mg/L	58.96012387	0.00006185	22.07622272	2.18491876	3.71	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00025982	0.0%
Cr 267.716	Cr	nu	0.00010775	0.00010775	mg/L	60.34645699	0.00036378	337.62870302	20.97951510	34.77	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00046645	-0.0%
Cu 324.754	Cu	n	0.00312104	0.00312104	mg/L	606.87176036	0.00027439	8.79162404	9.47573210	1.56	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00325220	0.0%
Fe 259.940	Fe	n	0.00125240	0.00125240	mg/L	247.02744908	0.00087169	69.60165434	46.80636357	18.95	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.00039995	0.0%
K 766.491	K-R	n	0.03000121	0.03000121	mg/L	149.51155106	0.00825934	27.53003085	11.68656961	7.82	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	0.02077156	0.0%
Li 670.783	Li-R	nu	-0.00042302	-0.00042302	mg/L	-36.20787452	0.00025193	59.55640603	26.36532759	72.82	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	-0.00070762	-0.0%
Mg 279.800	Mg-R	nu	-0.00954094	-0.00954094	mg/L	78.09400160	0.00066711	6.99205338	1.50091838	1.92	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	-0.01028154	-0.0%
Mn 257.610	Mn	nu	-0.00033112	-0.00033112	mg/L	432.09428213	0.00001070	3.23082883	3.99508759	0.92	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	-0.00032883	-0.0%
Mo 204.598	Mo	nZ	0.00528682	0.00528682	mg/L	46.10569975	0.00205688	38.90577621	13.90258029	30.15	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00330251	0.0%
Na 589.592	Na-R	n	0.04669833	0.04669833	mg/L	1436.32838321	0.02069566	44.31776576	212.45972357	14.79	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.06871671	0.0%
Ni 231.604	Ni	n	0.00069115	0.00069115	mg/L	99.95579198	0.00026371	38.15582780	5.26000571	5.26	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00097392	0.0%
P 177.434	P	nu	0.00357432	0.00357432	mg/L	4.32736567	0.00386200	108.04870763	1.81729119	42.00		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	-0.00069980	0.0%
Pb 220.353	Pb	nu	0.00068423	0.00068423	mg/L	-14.84288743	0.00175003	255.76579332	13.64562432	91.93	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	-0.00128512	0.0%
S 181.972	S	n	0.00596202	0.00596202	mg/L	91.16932754	0.00337850	56.66698840	4.14651323	4.55		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.00901218	0.0%
Sb 206.834	Sb	nu	-0.00094522	-0.00094522	mg/L	-41.63812226	0.00078938	83.51301951	1.91993348	4.61	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00171402	-0.0%
Se 196.026	Se	n	0.00304829	0.00304829	mg/L	72.97734724	0.00288620	94.68256670	7.14724730	9.79	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.00002607	0.0%
Si 251.611	Si	nu	-0.00577514	-0.00577514	mg/L	145.97364507	0.00068386	11.84149516	5.15861174	3.53		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	-0.00506062	-0.0%
Sn 189.925	Sn	n	0.00138007	0.00138007	mg/L	34.26219284	0.00045192	32.74638823	3.53950227	10.33	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.00111689	0.0%
Sr 421.552	Sr-R	n	0.00003769	0.00003769	mg/L	29.17022013	0.00003626	96.21430797	16.46142816	56.43	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00007382	0.0%
Ti 334.941	Ti	n	0.00073530	0.00073530	mg/L	626.12782636	0.00018829	25.60697931	56.33218080	9.00	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00052660	0.0%
Tl 190.794	Tl	nu	0.00017593	0.00017593	mg/L	7.61742128	0.00097441	553.85063762	2.21575092	29.09	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	0.00072024	-0.0%
V 292.401	V	n	0.00025819	0.00025819	mg/L	8.68641782	0.00021751	84.24282903	6.96595468	80.19	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00009925	0.0%
Zn 206.200	Zn	n	0.00857978	0.00857978	mg/L	363.86584061	0.00018362	2.14009926	7.32415318	2.01	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.00878629	0.0%
Y 371.029	Y		0.94	0.94	Ratio	486161.81	0.01	0.75	3661.45	0.75		-	-	-	Fitted	-	-	0.93	0.9%
Y 371.029	Y-R		0.99	0.99	Ratio	124675.83	0.00	0.08	105.15	0.08		-	-	-	Fitted	-	-	0.99	0.9%

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0	
Seqnum: 673428353074	File: icp data	Time: 24-OCT-2023 15:11
Cal: 673428353001	Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8387.9	1.000	1.079	mg/L	8	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	473124	-8.81
Yttrium	R	125677	121492	-3.33

Label: CCV,S19239

Rack:Tube: S1:12

Type: QC

Date Time: 10/24/2023 3:11:13 PM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.51162895	0.51162895	mg/L	35519.55753676	0.00308424	0.60282729	210.91869328	0.59		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.50808378
Al 396.152	Al	nQ	1.12831206	1.12831206	mg/L	36569.19914281	0.00946449	0.83881815	295.50173271	0.81	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.11738579
As 188.980	As	nQ	1.11230942	1.11230942	mg/L	4243.97652527	0.00784034	0.70487031	29.88140123	0.70	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	1.10515058
B 249.678	B	n	1.08401624	1.08401624	mg/L	38210.66937822	0.00614236	0.56663003	213.95805640	0.56	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	1.07731204
Ba 230.424	Ba	nQ	1.14155961	1.14155961	mg/L	94606.08971800	0.01681588	1.47306183	1390.31291635	1.47	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	1.12217733
Be 313.107	Be	nQ	1.14802087	1.14802087	mg/L	2363400.76656613	0.00580838	0.50594712	11957.32765332	0.51	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	1.14222715
Ca 317.933	Ca-R	n	54.17306870	54.17306870	mg/L	721435.19309301	0.07162871	0.13222198	952.29410817	0.13	5.3643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	54.19998802
Cd 214.439	Cd	n	1.07980257	1.07980257	mg/L	169087.71109625	0.01272357	1.17832419	1992.21374001	1.18	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	1.06513782
Co 230.786	Co	n	1.07822524	1.07822524	mg/L	38137.94670407	0.01381917	1.28165870	488.16727539	1.28	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	1.06227837
Cr 267.716	Cr	n	1.04954432	1.04954432	mg/L	60589.62369424	0.00851386	0.81119616	491.00282776	0.81	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	1.03983012
Cu 324.754	Cu	n	1.07165168	1.07165168	mg/L	37513.78941320	0.00719726	0.67160448	248.54891979	0.66	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.06336965
Fe 259.940	Fe	n	1.08102081	1.08102081	mg/L	58327.58376930	0.01089628	1.00796164	585.08849064	1.00	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	1.06843930
K 766.491	K-R	n	62.53509127	62.53509127	mg/L	88570.96139656	0.16428534	0.26270904	232.45578742	0.26	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	62.35819605
Li 670.783	Li-R	n	1.05305826	1.05305826	mg/L	110249.31089462	0.00276011	0.26210374	288.85040728	0.26	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	1.04988250
Mg 279.800	Mg-R	n	53.52930456	53.52930456	mg/L	120537.08606812	0.09268143	0.17314147	208.52297374	0.17	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	53.42255517
Mn 257.610	Mn	n	1.06978924	1.06978924	mg/L	400105.48888304	0.00841938	0.78701254	3144.14006769	0.79	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	1.06010926
Mo 204.598	Mo	n	1.07416739	1.07416739	mg/L	7270.54869258	0.01179629	1.09817967	79.73194352	1.10	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	1.06107481
Na 589.592	Na-R	n	52.90733819	52.90733819	mg/L	544063.13850398	0.11615163	0.21953784	1192.40198090	0.22	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	52.98398729
Ni 231.604	Ni	n	1.05744277	1.05744277	mg/L	21180.64716631	0.00638922	0.60421451	127.43920844	0.60	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	1.05028632
P 177.434	P	nQ	6.24863704	6.24863704	mg/L	2943.65855408	0.01971611	0.31552657	9.27754836	0.32		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	6.23211432
Pb 220.353	Pb	n	1.07865409	1.07865409	mg/L	8387.90897660	0.00491797	0.45593613	38.34732430	0.46	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.07300233
S 181.972	S	nQ	5.80424085	5.80424085	mg/L	7206.59000214	0.01630236	0.28086985	20.00828099	0.28		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	5.79366856
Sb 206.834	Sb	n	1.07205540	1.07205540	mg/L	2567.47379165	0.01188477	1.10859639	28.90621782	1.13	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	1.05843643
Se 196.026	Se	n	1.09543997	1.09543997	mg/L	2778.84057400	0.00698363	0.63751847	17.29393314	0.62	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	1.08738337
Si 251.611	Si	nQ	5.72754966	5.72754966	mg/L	43369.11158614	0.16673424	2.91109195	1257.73308893	2.90		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	5.54827357
Sn 189.925	Sn	n	5.43686790	5.43686790	mg/L	42607.55438321	0.06202294	1.14078437	485.76855264	1.14	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	5.36959842
Sr 421.552	Sr-R	n	1.08576055	1.08576055	mg/L	493148.67063276	0.00325626	0.29990621	1478.25273797	0.30	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	1.08210670
Ti 334.941	Ti	nQ	1.10872139	1.10872139	mg/L	332111.53993497	0.01248785	1.12632939	3736.11049854	1.12	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	1.09545635
Tl 190.794	Tl	nQ	1.11582218	1.11582218	mg/L	2545.04699813	0.02732177	2.44857755	62.12830247	2.44	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	1.08521389
V 292.401	V	n	1.08265593	1.08265593	mg/L	34662.35592008	0.00949528	0.87703545	304.09648516	0.88	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	1.07170537
Zn 206.200	Zn	n	1.08726130	1.08726130	mg/L	43410.85618997	0.00916349	0.84280505	365.51758496	0.84	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	1.07668083
Y 371.029	Y		0.91	0.91	Ratio	473123.74	0.00	0.36	1684.66	0.36		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.97	0.97	Ratio	121491.67	0.00	0.42	512.35	0.42		-	-	-	Fitted	-	-	0.97

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353075	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 15:14
	Caldate: 24-OCT-2023

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	486753	-6.18
Yttrium	R	125677	124833	-0.67

Label: CCB Rack: Tube: S1:1 Type: QC
 Date Time: 10/24/2023 3:14:21 PM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration #	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00097812	0.00097812	mg/L	596.47397252	0.00033513	34.26294655	22.91834427	3.84		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00096098
Al 396.152	Al	nZ	0.00474201	0.00474201	mg/L	1423.72042442	0.00034349	7.24350198	10.72441604	0.75	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.00500357
As 188.980	As	n	0.00135428	0.00135428	mg/L	9.25709978	0.00089473	66.06694772	3.41003262	36.84	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.00032659
B 249.678	B	n	0.00174696	0.00174696	mg/L	521.02039154	0.00055474	31.75467592	19.32346388	3.71	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00238534
Ba 230.424	Ba	n	0.00060004	0.00060004	mg/L	269.35785866	0.00021253	35.41893651	17.57156587	6.52	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00079310
Be 313.107	Be	n	0.00001512	0.00001512	mg/L	74.15889011	0.00000361	23.86860147	7.43006812	10.02	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00001911
Ca 317.933	Ca-R	nu	-0.00132730	-0.00132730	mg/L	1159.28890410	0.00102041	76.87850138	13.56621233	1.17	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	-0.00193127
Cd 214.439	Cd	n	0.00005558	0.00005558	mg/L	22.05134984	0.00002281	41.03519815	3.57130311	16.20	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00004405
Co 230.786	Co	n	0.00086799	0.00086799	mg/L	79.72511064	0.00027116	31.23938717	9.57865497	12.01	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00058289
Cr 267.716	Cr	n	0.00010685	0.00010685	mg/L	60.29480485	0.00009394	87.91459674	5.41736132	8.98	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00008174
Cu 324.754	Cu	n	0.00324354	0.00324354	mg/L	611.10215749	0.00030956	9.54396641	10.69038206	1.75	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00352137
Fe 259.940	Fe	n	0.00116906	0.00116906	mg/L	242.54501556	0.00087558	74.89566098	47.01516640	19.38	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	0.00024561
K 766.491	K-R	nu	-0.01957315	-0.01957315	mg/L	79.36675597	0.03610269	184.45009852	51.08355188	64.36	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	-0.02726980
Li 670.783	Li-R	nu	0.00056349	0.00056349	mg/L	67.03276322	0.00081722	145.02909164	85.52417311	> 100.00	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	-0.00014590
Mg 279.800	Mg-R	nu	-0.00868660	-0.00868660	mg/L	80.01638735	0.00064679	7.44587952	1.45521392	1.82	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	-0.00927197
Mn 257.610	Mn	nu	-0.00034374	-0.00034374	mg/L	427.38227376	0.00001119	3.25559365	4.17908556	0.98	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	-0.00033578
Mo 204.598	Mo	nZ	0.00560472	0.00560472	mg/L	48.25439290	0.00071397	12.73866406	4.82574801	10.00	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00642913
Na 589.592	Na-R	n	0.01536130	0.01536130	mg/L	1114.62419787	0.01144324	74.49396069	117.47528580	10.54	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.02834426
Ni 231.604	Ni	nu	0.00003679	0.00003679	mg/L	86.90402272	0.00009310	253.03443065	1.85687479	2.14	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	-0.00006967
P 177.434	P	nu	-0.00092005	-0.00092005	mg/L	2.21256594	0.00399241	433.93441657	1.87865704	84.91		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	-0.00256652
Pb 220.353	Pb	nu	-0.00073708	-0.00073708	mg/L	-25.92400304	0.00069027	93.64920731	5.38227108	20.76	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	-0.00095012
S 181.972	S	n	0.00348356	0.00348356	mg/L	88.12759620	0.00542392	155.70050148	6.65691203	7.55		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.00046910
Sb 206.834	Sb	nu	0.00005568	0.00005568	mg/L	-39.20367671	0.00186074	3341.56632163	4.52569897	11.54	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00024717
Se 196.026	Se	n	0.00487929	0.00487929	mg/L	77.51140438	0.00336020	68.86672169	8.32104878	10.74	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.00258750
Si 251.611	Si	nu	-0.00718674	-0.00718674	mg/L	135.32493720	0.00143827	20.01283255	10.84936446	8.02		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	-0.00577609
Sn 189.925	Sn	n	0.00162871	0.00162871	mg/L	36.20952873	0.00090552	55.59724652	7.09210798	19.59	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.00142922
Sr 421.552	Sr-R	n	0.00001375	0.00001375	mg/L	18.32273815	0.00002037	148.09552211	9.24645784	50.46	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00000022
Ti 334.941	Ti	n	0.00068159	0.00068159	mg/L	610.05776400	0.00026450	38.80582794	79.13211797	12.97	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00039679
Tl 190.794	Tl	nu	0.00077348	0.00077348	mg/L	8.97620338	0.00141257	182.62582656	3.21210224	35.78	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.2124477347766	2273.94856269028	0.00163621
V 292.401	V	nu	0.00000402	0.00000402	mg/L	0.54543374	0.00024899	6197.34297605	7.97425218	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	0.00010808
Zn 206.200	Zn	n	0.00396926	0.00396926	mg/L	179.95975511	0.00027805	7.00500692	11.09085388	6.16	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.00366325
Y 371.029	Y		0.94	0.94	Ratio	486753.07	0.01	0.94	4583.04	0.94		-	-	-	Fitted	-	-	0.93
Y 371.029	Y-R		0.99	0.99	Ratio	124833.48	0.01	1.45	1809.33	1.45		-	-	-	Fitted	-	-	1.00

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353083	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 15:39
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8358.8	1.000	1.075	mg/L	7	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	477125	-8.04
Yttrium	R	125677	120995	-3.73

Label: CCV,S19239

Rack:Tube: S1:12

Type: QC

Date Time: 10/24/2023 3:39:17 PM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.50996743	0.50996743	mg/L	35405.91690642	0.00187958	0.36856953	128.53722551	0.36		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.50779843
Al 396.152	Al	nQ	1.12380031	1.12380031	mg/L	36427.72886266	0.00911253	0.81086756	284.51296181	0.78	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.11398310
As 188.980	As	nQ	1.10933566	1.10933566	mg/L	4232.63533082	0.00215619	0.19436747	8.21774535	0.19	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	1.10740287
B 249.678	B	n	1.08287090	1.08287090	mg/L	38170.86931448	0.00488842	0.45143106	170.27911530	0.45	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	1.07722706
Ba 230.424	Ba	nQ	1.12854128	1.12854128	mg/L	93529.71702848	0.00812072	0.71957663	671.40950350	0.72	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	1.11927322
Be 313.107	Be	nQ	1.14261473	1.14261473	mg/L	2352271.47884568	0.01105147	0.96720874	22750.93502716	0.97	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	1.13031441
Ca 317.933	Ca-R	n	53.86364223	53.86364223	mg/L	717321.10914556	0.63254472	1.17434449	8409.59777176	1.17	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	54.58987676
Cd 214.439	Cd	n	1.07037946	1.07037946	mg/L	167612.21166511	0.00652093	0.60921625	1021.02418926	0.61	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	1.06342233
Co 230.786	Co	n	1.06599618	1.06599618	mg/L	37705.94798137	0.00650065	0.60981914	229.63785250	0.61	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	1.05867024
Cr 267.716	Cr	n	1.04516648	1.04516648	mg/L	60337.08359967	0.00697462	0.66732112	402.23297556	0.67	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	1.03746560
Cu 324.754	Cu	n	1.06827697	1.06827697	mg/L	37397.19436341	0.00557944	0.52228429	192.67948376	0.52	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.06184103
Fe 259.940	Fe	n	1.06788240	1.06788240	mg/L	57621.23752792	0.00927631	0.86866438	498.10275040	0.86	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	1.05745782
K 766.491	K-R	n	62.32268939	62.32268939	mg/L	88270.61243558	0.48385158	0.77636505	684.62653533	0.78	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	62.87858803
Li 670.783	Li-R	n	1.04650380	1.04650380	mg/L	109563.03596730	0.00940909	0.89909800	984.68021468	0.90	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	1.05715800
Mg 279.800	Mg-R	n	53.08567899	53.08567899	mg/L	119538.93553216	0.66955789	1.26127782	1506.43132520	1.26	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	53.84779357
Mn 257.610	Mn	n	1.06615519	1.06615519	mg/L	398747.94385112	0.00747501	0.70111842	2791.47543838	0.70	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	1.05777310
Mo 204.598	Mo	n	1.06529261	1.06529261	mg/L	7210.56502597	0.01317450	1.23670263	89.04738809	1.23	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	1.05254962
Na 589.592	Na-R	n	52.58331606	52.58331606	mg/L	540737.12962963	0.46426704	0.88291701	4766.12303515	0.88	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	53.10932370
Ni 231.604	Ni	n	1.05580956	1.05580956	mg/L	21148.04454929	0.00495696	0.46949340	98.87127108	0.47	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	1.05008880
P 177.434	P	nQ	6.24122476	6.24122476	mg/L	2940.16431446	0.02793829	0.44764122	13.14655263	0.45		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	6.20904364
Pb 220.353	Pb	n	1.07491559	1.07491559	mg/L	8358.76729506	0.00652014	0.60657201	50.84000478	0.61	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.06825297
S 181.972	S	nQ	5.79087885	5.79087885	mg/L	7190.20098957	0.01883866	0.32531612	23.12114231	0.32		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	5.77029198
Sb 206.834	Sb	n	1.06643572	1.06643572	mg/L	2553.80860257	0.01416438	1.32819825	34.45070960	1.35	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	1.05125444
Se 196.026	Se	n	1.09151989	1.09151989	mg/L	2769.13150682	0.01389259	1.27277452	34.40293919	1.24	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	1.07550554
Si 251.611	Si	nQ	5.75075680	5.75075680	mg/L	43544.41651442	0.17173555	2.98631218	1295.45969702	2.98		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	5.57099212
Sn 189.925	Sn	n	5.39804677	5.39804677	mg/L	42303.48424443	0.03580703	0.66333302	280.44345740	0.66	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	5.37200032
Sr 421.552	Sr-R	n	1.07500389	1.07500389	mg/L	488263.28220858	0.01247772	1.16071401	5664.53721068	1.16	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	1.08883823
Ti 334.941	Ti	nQ	1.10673701	1.10673701	mg/L	331517.86932744	0.00426428	0.38530228	1275.78612864	0.38	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	1.10285995
Tl 190.794	Tl	nQ	1.10455005	1.10455005	mg/L	2519.41022243	0.02705038	2.44899528	61.51116919	2.44	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	1.07692874
V 292.401	V	n	1.07914721	1.07914721	mg/L	34550.11459436	0.00806720	0.74755319	258.36077809	0.75	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	1.07018691
Zn 206.200	Zn	n	1.07370356	1.07370356	mg/L	42869.70893069	0.00617935	0.57551745	246.48477816	0.57	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	1.06699302
Y 371.029	Y		0.92	0.92	Ratio	477125.23	0.01	0.86	4109.36	0.86	-	-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.96	0.96	Ratio	120995.21	0.01	0.92	1110.59	0.92	-	-	-	-	Fitted	-	-	0.96

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353084	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 15:42
Caldate: 24-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	[0.001836]	0.003333	---	mg/L	!CCB

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	481485	-7.20
Yttrium	R	125677	122533	-2.50

!=warning CCB=instrument blank

Label: CCB Rack/Tube: S1:1 Type: QC
 Date Time: 10/24/2023 3:42:24 PM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n	0.00070261	0.00070261	mg/L	577.63317705	0.00044678	63.58906617	30.55373110	5.29		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00021520	C
Al 396.152	Al	nu	-0.00008695	-0.00008695	mg/L	1272.95246023	0.00060791	699.12035289	18.98011456	1.49	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.00005125	C
As 188.980	As	n	0.00087687	0.00087687	mg/L	7.43752914	0.00082897	94.53828458	3.15941489	42.48	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.00183301	C
B 249.678	B	n	0.00221028	0.00221028	mg/L	537.15921511	0.00118065	53.41628630	41.12574510	7.66	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00353669	C
Ba 230.424	Ba	n	0.00035044	0.00035044	mg/L	248.72186074	0.00025700	73.33601619	21.24851098	8.54	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00061757	C
Be 313.107	Be	n	0.00002963	0.00002963	mg/L	104.03057374	0.00001581	53.36294267	32.55175013	31.29	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00003499	C
Ca 317.933	Ca-R	nu	-0.00238157	-0.00238157	mg/L	1145.27817936	0.00239664	100.63278682	31.86301899	2.78	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	-0.00389984	-
Cd 214.439	Cd	n	0.00005321	0.00005321	mg/L	21.67751945	0.00003774	70.92109976	5.90868199	27.26	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00005137	C
Co 230.786	Co	n	0.00081392	0.00081392	mg/L	77.81484499	0.00043598	53.56518252	15.40101308	19.79	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00052541	C
Cr 267.716	Cr	nu	-0.00007076	-0.00007076	mg/L	50.05257220	0.00025330	357.97953862	14.60811518	29.19	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00005048	-
Cu 324.754	Cu	nZ	0.00344008	0.00344008	mg/L	617.89032263	0.00014968	4.35104431	5.16899935	0.84	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00361284	C
Fe 259.940	Fe	nu	-0.00043140	-0.00043140	mg/L	156.62286363	0.00022968	53.24055216	12.33303783	7.87	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	-0.00056031	-
K 766.491	K-R	n	0.02649052	0.02649052	mg/L	144.54262708	0.01937859	73.15293816	27.41976973	18.97	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.06368008165	1414.9515362826	0.02776176	C
Li 670.783	Li-R	nu	-0.00020142	-0.00020142	mg/L	-13.01451852	0.00058161	288.75821499	60.86676973	> 100.00	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	-0.00077093	C
Mg 279.800	Mg-R	nu	-0.01190523	-0.01190523	mg/L	72.77380649	0.00315274	26.48198208	7.09331990	9.75	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	-0.01138678	-
Mn 257.610	Mn	nu	-0.00035145	-0.00035145	mg/L	424.50584057	0.00003912	11.12980968	14.60738702	3.44	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	-0.00031166	-
Mo 204.598	Mo	nZ	0.00521052	0.00521052	mg/L	45.59003398	0.00198280	38.05385325	13.40191721	29.40	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00354734	C
Na 589.592	Na-R	nu	0.01289352	0.01289352	mg/L	1089.28848988	0.01663827	129.04366722	170.80694119	15.68	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.03112281	C
Ni 231.604	Ni	n	0.00062827	0.00062827	mg/L	98.70184043	0.00029908	47.60320997	5.96538797	6.04	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00028367	C
P 177.434	P	nu	0.00198877	0.00198877	mg/L	3.58132491	0.00556057	279.59810149	2.61656230	73.06		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.00440727	-
Pb 220.353	Pb	nu	0.00183576	0.00183576	mg/L	-5.86717453	0.00234103	127.52369261	18.25388745	> 100.00	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	0.00375663	C
S 181.972	S	n	0.00308447	0.00308447	mg/L	87.63780536	0.00258678	83.86487987	3.17482136	3.62		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.00079233	C
Sb 206.834	Sb	nu	0.00416123	0.00416123	mg/L	-29.21847401	0.00514181	123.56446557	12.50593810	42.80	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	0.00950616	-
Se 196.026	Se	n	0.00403717	0.00403717	mg/L	75.42649730	0.00248141	61.46404067	6.14484027	8.15	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.00228392	C
Si 251.611	Si	nu	-0.00796570	-0.00796570	mg/L	129.44803619	0.00056175	7.05205523	4.23743682	3.27		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	-0.00856118	-
Sn 189.925	Sn	n	0.00119443	0.00119443	mg/L	32.80836908	0.00013418	11.23351694	1.05088120	3.20	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.00117000	C
Sr 421.552	Sr-R	nu	0.00001670	0.00001670	mg/L	19.66348926	0.00002195	131.42096294	9.96529914	50.68	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00001720	C
Ti 334.941	Ti	n	0.00101130	0.00101130	mg/L	708.69923681	0.00028773	28.45122390	86.08181681	12.15	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00068330	C
Tl 190.794	Tl	nu	-0.00114767	-0.00114767	mg/L	4.60769122	0.00093155	81.16917960	2.11830473	45.97	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21274477347766	2273.94856269028	-0.00138275	-
V 292.401	V	nu	0.00010774	0.00010774	mg/L	3.86829739	0.00042040	390.20975240	13.46367531	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	-0.00029656	C
Zn 206.200	Zn	n	0.00363422	0.00363422	mg/L	166.58737971	0.00021982	6.04851847	8.76813426	5.26	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.00338086	C
Y 371.029	Y		0.93	0.93	Ratio	481485.47	0.01	0.89	4293.27	0.89		-	-	-	Fitted	-	-	0.92	C
Y 371.029	Y-R		0.97	0.97	Ratio	122533.38	0.02	2.04	2498.04	2.04		-	-	-	Fitted	-	-	0.99	C

ENTHALPY CONTINUING CALIBRATION FOR 494421 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353089	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 15:58
Caldate: 24-OCT-2023	

Standards: S19239

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	6442.5	8539.0	1.000	1.098	mg/L	10	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	467281	-9.93
Yttrium	R	125677	120428	-4.18

Label: CCV,S19239

Rack:Tube: S1:12

Type: QC

Date Time: 10/24/2023 3:58:00 PM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.52119355	0.52119355	mg/L	36173.64368930	0.00078790	0.15117237	53.88135706	0.15		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.52033488
Al 396.152	Al	nQ	1.14770902	1.14770902	mg/L	37174.89121127	0.00787522	0.68616872	245.88140950	0.66	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	1.13886241
As 188.980	As	nQ	1.13568353	1.13568353	mg/L	4333.05993580	0.00582683	0.51306807	22.20743710	0.51	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	1.13055798
B 249.678	B	nQ	1.11466105	1.11466105	mg/L	39278.12396347	0.00014601	0.01309926	5.08607738	0.01	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	1.11449711
Ba 230.424	Ba	nQ	1.15363733	1.15363733	mg/L	95604.66236460	0.00445818	0.38644579	368.59620883	0.39	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	1.14849369
Be 313.107	Be	nQ	1.16897311	1.16897311	mg/L	2406533.77626278	0.00605548	0.51801709	12466.02024897	0.52	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	1.16592578
Ca 317.933	Ca-R	n	54.21888653	54.21888653	mg/L	722044.39704281	0.67748932	1.24954488	9007.13026738	1.25	5.35643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	54.90196848
Cd 214.439	Cd	n	1.09897607	1.09897607	mg/L	172089.80225359	0.00595643	0.54199785	932.63688438	0.54	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	1.09232316
Co 230.786	Co	n	1.09027832	1.09027832	mg/L	38563.72558802	0.00299691	0.27487569	105.86697089	0.27	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	1.08682733
Cr 267.716	Cr	n	1.07290425	1.07290425	mg/L	61936.82374246	0.00412446	0.38442020	237.86168474	0.38	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	1.06829853
Cu 324.754	Cu	n	1.09252157	1.09252157	mg/L	38234.51968397	0.00117315	0.10737969	40.51322623	0.11	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	1.09143479
Fe 259.940	Fe	n	1.09840175	1.09840175	mg/L	59261.06832652	0.00606823	0.55245967	325.84067342	0.55	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	1.09199735
K 766.491	K-R	n	62.90559820	62.90559820	mg/L	89095.18847666	0.77624258	1.23398012	1098.34562577	1.23	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063680008165	1414.9515362826	63.59591583
Li 670.783	Li-R	n	1.05567675	1.05567675	mg/L	110523.38666678	0.01279434	1.21195654	1338.95312200	1.21	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	1.06809027
Mg 279.800	Mg-R	n	53.65065350	53.65065350	mg/L	120810.09403331	0.69787590	1.30077800	1570.14370627	1.30	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	54.37324309
Mn 257.610	Mn	n	1.09594618	1.09594618	mg/L	409873.61419836	0.00445482	0.40648167	1663.61262388	0.41	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	1.09090659
Mo 204.598	Mo	n	1.09631566	1.09631566	mg/L	7420.24983245	0.01263466	1.15246526	85.39853941	1.15	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	1.08540123
Na 589.592	Na-R	n	53.04998972	53.04998972	mg/L	545527.58808807	0.70487249	1.32869486	7236.15653415	1.33	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	53.68994148
Ni 231.604	Ni	n	1.08072141	1.08072141	mg/L	21644.96450933	0.00248355	0.22980495	49.53682682	0.23	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	1.07785851
P 177.434	P	nQ	6.35195491	6.35195491	mg/L	2992.27618554	0.01894520	0.29825775	8.91479051	0.30		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	6.33009116
Pb 220.353	Pb	n	1.09803684	1.09803684	mg/L	8539.03380133	0.00196372	0.17883910	15.31187075	0.18	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	1.09577998
S 181.972	S	nQ	5.92153921	5.92153921	mg/L	7350.55300766	0.02052974	0.34669609	25.19664889	0.34		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	5.94016254
Sb 206.834	Sb	nQ	1.10369381	1.10369381	mg/L	2644.42183114	0.01169644	1.05975385	28.44816088	1.08	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	1.09037370
Se 196.026	Se	nQ	1.11651114	1.11651114	mg/L	2831.02555078	0.00473090	0.42372193	11.71538128	0.41	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	1.11306101
Si 251.611	Si	nQ	5.92573831	5.92573831	mg/L	44864.09655375	0.15536128	2.62180463	1171.94301033	2.61		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	5.76705948
Sn 189.925	Sn	nQ	5.55579731	5.55579731	mg/L	43539.02118027	0.05005481	0.90094735	392.03320761	0.90	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	5.50722350
Sr 421.552	Sr-R	n	1.08643042	1.08643042	mg/L	493453.02059472	0.01128031	1.03829112	5120.94637454	1.04	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	1.09511397
Ti 334.941	Ti	nQ	1.13163574	1.13163574	mg/L	338967.04385383	0.00341204	0.30151424	1020.81337437	0.30	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	1.12825993
Tl 190.794	Tl	nQ	1.13687371	1.13687371	mg/L	2592.91778612	0.02188975	1.92543332	49.77615487	1.92	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	1.11310524
V 292.401	V	nQ	1.10497305	1.10497305	mg/L	35377.09455931	0.00487754	0.44141715	156.20850897	0.44	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	1.10008117
Zn 206.200	Zn	nQ	1.10325814	1.10325814	mg/L	44048.82489803	0.00716442	0.64938745	285.77763891	0.65	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	1.09575565
Y 371.029	Y		0.90	0.90	Ratio	467281.07	0.01	0.59	2758.10	0.59	-	-	-	-	Fitted	-	-	0.89
Y 371.029	Y-R		0.96	0.96	Ratio	120428.15	0.01	0.62	746.44	0.62	-	-	-	-	Fitted	-	-	0.95

ENTHALPY INSTRUMENT BLANK FOR 494421 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673428353090	File: icp data
Cal: 673428353001	Time: 24-OCT-2023 16:01
Caldate: 24-OCT-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	518823	480425	-7.40
Yttrium	R	125677	122507	-2.52

Label: CCB Rack/Tube: S1:1 Type: QC
 Date Time: 10/24/2023 4:01:07 PM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration #	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00068799	0.00068799	mg/L	576.63233550	0.00036974	53.74189152	25.28488685	4.38		Y (371.029 nm)	Linear	1.00000	Fitted	529.583743365284	68385.9769250699	0.00075980
Al 396.152	Al	n	0.00093670	0.00093670	mg/L	1304.91108082	0.00023553	25.14479604	7.35377075	0.56	14.65535632	Y (371.029 nm)	Linear	0.99970	Fitted	1275.67465847368	31222.16262634	0.00111349
As 188.980	As	nu	0.00003901	0.00003901	mg/L	4.24439764	0.00199329	5109.84293953	7.59691159	> 100.00	12.96774970	Y (371.029 nm)	Linear	0.99997	Fitted	4.09517954485676	3811.23850390716	0.00227448
B 249.678	B	n	0.00221226	0.00221226	mg/L	537.22791083	0.00060792	27.47965373	21.17585866	3.94	6.08326626	Y (371.029 nm)	Linear	0.99992	Fitted	460.169015487444	34833.1915119898	0.00272558
Ba 230.424	Ba	n	0.00034980	0.00034980	mg/L	248.66825478	0.00008610	24.61416730	7.11865110	2.86	14.40985739	Y (371.029 nm)	Linear	0.99999	Fitted	219.746522768663	82678.5755930527	0.00034439
Be 313.107	Be	n	0.00001930	0.00001930	mg/L	82.75582899	0.00001144	59.28076237	23.54972408	28.46	6.32149123	Y (371.029 nm)	Linear	0.99999	Fitted	43.0297108246616	2058634.37356872	0.00001986
Ca 317.933	Ca-R	nu	-0.00125355	-0.00125355	mg/L	1160.27464197	0.00235709	188.03328662	31.33717207	2.70	3.53643618	Y-R (371.029 nm)	Linear	0.99986	Fitted	1176.93709786945	13294.8668329134	-0.00376927
Cd 214.439	Cd	n	0.00003960	0.00003960	mg/L	19.55001180	0.00002782	70.25390400	4.35620531	22.28	2.57493181	Y (371.029 nm)	Linear	0.99998	Fitted	13.3412503994362	156576.572742986	0.00007113
Co 230.786	Co	n	0.00066083	0.00066083	mg/L	72.40708139	0.00041746	63.17237361	14.74702442	20.37	6.75822951	Y (371.029 nm)	Linear	0.99998	Fitted	49.0628106397704	35325.3749110998	0.00097462
Cr 267.716	Cr	n	0.00019708	0.00019708	mg/L	65.49879376	0.00018603	94.39380751	10.72864331	16.38	6.89621384	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	54.1334323474598	57670.9791676141	0.00004412
Cu 324.754	Cu	nZ	0.00366264	0.00366264	mg/L	625.57535362	0.00037722	10.29921686	13.02696722	2.08	10.80022096	Y (371.029 nm)	Linear	0.99973	Fitted	499.091030425765	34533.8220179431	0.00407323
Fe 259.940	Fe	nu	-0.00035814	-0.00035814	mg/L	160.55338399	0.00031625	88.30366672	16.98125960	10.58	75.92826510	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	179.780316019017	53696.1931445126	-0.00068585
K 766.491	K-R	n	0.03195875	0.03195875	mg/L	152.28090782	0.01635053	51.16136882	23.13521427	15.19	41.87838682	Y-R (371.029 nm)	Linear	0.99968	Fitted	107.063890008165	1414.9515362826	0.03826978
Li 670.783	Li-R	n	0.00019649	0.00019649	mg/L	28.62713948	0.00015155	77.12807214	15.86002258	55.40	1.73386826	Y-R (371.029 nm)	Linear	0.99979	FACT	8.06771698692114	104651.960433493	0.00017120
Mg 279.800	Mg-R	nu	-0.01185853	-0.01185853	mg/L	72.88025495	0.00364284	30.71918521	8.19599668	11.25	13.23257307	Y-R (371.029 nm)	Linear	0.99979	Fitted	99.5568045320588	2249.88957556281	-0.01515054
Mn 257.610	Mn	nu	-0.00030060	-0.00030060	mg/L	443.49626486	0.00005141	17.10074767	19.19688795	4.33	2.69556644	Y (371.029 nm)	Linear	0.99998	Fitted	555.751603088166	373441.010307225	-0.00024742
Mo 204.598	Mo	nZ	0.00493030	0.00493030	mg/L	43.69584805	0.00145459	29.50298984	9.83165155	22.50	8.46808663	Y (371.029 nm)	Linear	1.00000	Fitted	10.3712945605961	6759.07063521423	0.00337014
Na 589.592	Na-R	n	0.00966546	0.00966546	mg/L	1056.15577985	0.00679222	70.27314108	69.72832508	6.60	7.69333009	Y-R (371.029 nm)	Linear	0.99977	Fitted	956.946358792734	10265.9086220945	0.01706134
Ni 231.604	Ni	n	0.00056112	0.00056112	mg/L	97.36247327	0.00028199	50.25390359	5.62448963	5.78	4.02419784	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	86.1699975058445	19945.9644016876	0.00078455
P 177.434	P	n	0.00412212	0.00412212	mg/L	4.58518885	0.00196600	47.69380563	0.92511229	20.18		Y (371.029 nm)	Linear	1.00000	Fitted	2.64568461999539	470.556736666741	0.00561700
Pb 220.353	Pb	nu	-0.00046494	-0.00046494	mg/L	-23.79647370	0.00056865	122.30474348	4.43396672	18.63	5.50981842	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-20.1605332849104	7797.38283143482	-0.00077986
S 181.972	S	n	0.00600996	0.00600996	mg/L	91.22773677	0.00236453	39.34343410	2.90203920	3.18		Y (371.029 nm)	Linear	1.00000	Fitted	83.8519510808406	1227.3240095325	0.00419874
Sb 206.834	Sb	nu	0.00502878	0.00502878	mg/L	-27.10780370	0.00558622	111.08490197	13.58684374	50.12	5.00814732	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-39.3390249201473	2432.20728961654	-0.00073873
Se 196.026	Se	n	0.00501322	0.00501322	mg/L	77.84302745	0.00289345	57.71642083	7.16520576	9.20	15.27971720	Y (371.029 nm)	Linear	0.99997	Fitted	65.4291895650202	2476.35225908715	0.00610567
Si 251.611	Si	nu	-0.00837864	-0.00837864	mg/L	126.33360268	0.00043586	5.20204635	3.28784455	2.60		Y (371.029 nm)	Linear	1.00000	Fitted	189.538089292679	7543.34028693041	-0.00797329
Sn 189.925	Sn	n	0.00126431	0.00126431	mg/L	33.35561193	0.00088810	70.24352317	6.95563130	20.85	5.34881077	Y (371.029 nm)	Linear	0.99997	Fitted	23.453168588928	7832.07888931416	0.00053799
Sr 421.552	Sr-R	nu	0.00001158	0.00001158	mg/L	17.32897190	0.00002311	199.48413359	10.48922793	60.53	2.56857955	Y-R (371.029 nm)	Linear	0.99988	Fitted	12.1243288443052	453972.109011738	0.00002875
Ti 334.941	Ti	n	0.00116925	0.00116925	mg/L	755.95548265	0.00034124	29.18428766	102.09094735	13.50	3.23184600	Y (371.029 nm)	Linear	0.99993	Fitted	406.14050563216	299179.52464327	0.00078413
Tl 190.794	Tl	nu	-0.00011302	-0.00011302	mg/L	6.96031021	0.00084816	750.47692552	1.92868152	27.71	52.63408169	Y (371.029 nm)	Linear	0.99990	Fitted	7.21724477347766	2273.94856269028	0.00067905
V 292.401	V	nu	-0.00018184	-0.00018184	mg/L	-5.40721667	0.00033837	186.08299090	10.83652195	> 100.00	1.68941459	Y (371.029 nm)	Linear	0.99995	Off-Peak Left+Right	0.419455688414644	32026.0806747028	-0.00054646
Zn 206.200	Zn	n	0.00229686	0.00229686	mg/L	113.25550150	0.00013194	5.74417462	5.26271875	4.65	3.96788427	Y (371.029 nm)	Linear	0.99995	Fitted	21.6008015288752	39888.4547677271	0.00214506
Y 371.029	Y	0.93	0.93	Ratio	480425.20	0.00	0.20	951.80	0.20		-	-	-	Fitted	-	-	-	0.93
Y 371.029	Y-R	0.97	0.97	Ratio	122506.73	0.01	1.37	1673.23	1.37		-	-	-	Fitted	-	-	-	0.99



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 494547
Report Level: II
Report Date: 10/26/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Austin Moore	Lab Job #:	494547
Rincon Consultants	Project No:	20-10491
449 15th Street	Location:	Hangar 1 NTCRA
#303	Date Received:	10/24/23
Oakland, CA 94612		

Sample ID	Lab ID	Collected	Matrix
ARCH-C11E-EXT-8 TO 9-231024-L-WF	494547-001	10/24/23 07:55	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 494547
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 10/24/23

This data package contains sample and QC results for one wipe sample, requested for the above referenced project on 10/25/23. The sample was received intact.

Metals (EPA 6010B):

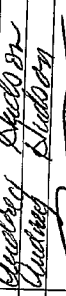
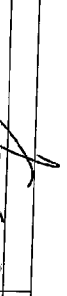
No analytical problems were encountered.

494547

		Chain of Custody Record COC ID:		Turn Around Time (rush by advanced notice only) Standard:	
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900		Page:		1 of 1 5 Day:	
Matrix: A = Air S = Soil/Solid DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other		2 Day:		3 Day:	
Report: Level II data validation		X (PCBs)		X (Pb)	
Sample Receipt Temp:		Preservatives: 1 = Na ₂ S ₂ O ₅ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other		Custom TAT:	

CUSTOMER INFORMATION				PROJECT INFORMATION				ANALYSIS REQUEST				TEST INSTRUCTIONS / COMMENTS			
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721	Analysis Request:				Test Instructions / Comments:							
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP	Analysis Request:				Test Instructions / Comments:							
Email:	lparker@rincoconsultants.com	Proj. #:	20-10491	Analysis Request:				Test Instructions / Comments:							
Address:	449 15th Street, Suite 303	P.O. #:		Analysis Request:				Test Instructions / Comments:							
Phone:	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA	Analysis Request:				Test Instructions / Comments:							
Fax:	(510) 890-9556	Global ID:		Analysis Request:				Test Instructions / Comments:							
Sampled By:	Donald Welsh	Sampled By:		Analysis Request:				Test Instructions / Comments:							

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
1 ARCH-C11E-EXT-8 TO 9-23102-L-WF	10/24/2023	0755	WP	1	-
2 ARCH-C06-DS-4.5-22102-L-G	10/24/2023		WP	1	-
3 ARCH-C06-EXT-15 TO 7-23102-L-WF	10/24/2023		WP	1	-
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Signature	Print Name	Company / Title	Date / Time
	Michaela Kim	Rincon Consultants	10/24/23 @ 1320
	Audrey Anderson	Enthalpy	10/24/23 13:20
	Lindsay Parker	Enthalpy	10/24/23 15:40
	Donald Welsh	Enthalpy	10/24/23 15:40
			10/25/23 10:45

The below sample checklist was completed after delivery of the samples by the laboratory provided courier or Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST			
Section 1: General Info Date Received: <u>10/24/23</u> Login # <u>494547</u> Client: <u>Rincon</u>			
			
Section 2: Shipping / Custody Shipping Info: _____ Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials			
Section 3: Condition / Packaging Important: Notify PM if temperature exceeds 6°C or arrive frozen Date Opened <u>10/24/23</u> By (print) <u>MM</u> (sign) _____ ☐ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures) If no cooler: Sample Temp (°C): _____ How many coolers? <u>1</u> Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No			
Section 4: Containers / Labels / Samples	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable?	/		
Were Method 5035 sampling containers present? Transferred to freezer @: _____		/	
Did all containers arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm present in VOA samples?			/
Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____		/	
Section 5: Preservatives	YES	NO	N/A
Are the samples appropriately preserved? (if yes, skip the rest of section 5)			
Did any samples / containers require preservation upon receipt?			
Did you document your preservative check in the bench book?			
Preservative added: ☐ H2SO4 lot# _____ added to samples _____ Date/Time _____ ☐ HCL lot# _____ added to samples _____ Date/Time _____ ☐ HNO3 lot# _____ added to samples _____ Date/Time _____ ☐ CrVI Buffer lot# _____ added to samples _____ Date/Time _____			
Section 6: Explanations / Comments _____ _____ _____ _____ _____ _____ _____ _____ _____ _____			
Date Logged <u>10/24/23</u> By (print) <u>MM</u> (sign) _____ Date Labeled <u>10/24/23</u> By (print) <u>MM</u> (sign) _____			

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: <u>Rincon Consultants</u>	Project: <u>Hangar 1 NTCRA</u>
Date Received: <u>10/25/23</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u> ☐ No (skip section 2)	Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: <u>3.4</u> #2: _____ #3: _____ #4: _____	
<i>(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)</i>	
Shipping Information: _____	

Section 3	
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: <u>2.7</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5	Explanations/Comments
494547	

Section 6	
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____	
☐ Email (email sent to/on): _____ / _____	
Project Manager's response:	

Completed By: _____

Date: **OCT 25 2023**

SOUTHWEST AIRLINES

Printed on:
24 OCT 19:22

526 OAK 9478 6565



SNA				PC# 3 OF 5	DG G	LOT WT 245 LB (111.1 KG)
OAK	WN 1979	25 OCT	08:15			
STN	FLT	DATE	ETD	LOT 01		



PC ID: 0003
PC WT: 49LB

526 94786565 0003

S

27/3.4

Lead

Lab #: 494547	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C11E-EXT-8 TO 9-231024-L-WF	Batch#: 325171	Prep: EPA 3050B
Type: SAMPLE	Sampled: 10/24/23	Analysis: EPA 6010B
Lab ID: 494547-001	Received: 10/24/23	Analyst: SBW
Matrix: Wipe	Prepared: 10/25/23	
Diln Fac: 1.000	Analyzed: 10/25/23	

494547-001 Analyte	Result	RL	Units
Lead	4.0	0.50	ug/ft2

Type: BLANK	Batch#: 325171	Analysis: EPA 6010B
Lab ID: QC1102570	Prepared: 10/25/23	Analyst: SBW
Matrix: Wipe	Analyzed: 10/25/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1102570 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 494547

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 325171

Analysis: EPA 6010B

Lab ID: QC1102571

Prepared: 10/25/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/25/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1102571 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	44.38	89	80-120	ug/ft2

Type: BSD

Batch#: 325171

Analysis: EPA 6010B

Lab ID: QC1102572

Prepared: 10/25/23

Analyst: SBW

Matrix: Wipe

Analyzed: 10/25/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1102572 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	44.86	90	80-120	ug/ft2	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 491224
Report Level: IV
Report Date: 09/06/2023

PCBs

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 491224
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 08/28/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C8W-EXT-1 TO 2-230828-P-WF	491224-001	08/28/23 07:30	Wipe
ARCH-C9W-EXT-1 TO 2-230828-P-WF	491224-003	08/28/23 07:40	Wipe
ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-P-LA	491224-006	08/28/23 08:10	Wipe
ARCH-C10W-DG-1.5 TO 2-230828-P-FB	491224-008	08/28/23 07:55	Wipe
ARCH-C9W-DG-2 TO 2.5-230828-P-FB	491224-011	08/28/23 08:25	Wipe
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-P-LA	491224-013	08/28/23 08:30	Wipe
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-P-DUP-LA	491224-014	08/28/23 08:30	Wipe
ARCH-C11W-INT-1.5 TO 2.5-230828-P-WF	491224-016	08/28/23 08:45	Wipe
ARCH-C8W-PS-2.5-230828-P-G	491224-018	08/28/23 09:00	Wipe
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-LA	491224-020	08/28/23 09:15	Wipe
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-DUP-LA	491224-021	08/28/23 09:15	Wipe
ARCH-C10W-PS-2.5-230828-P-G	491224-023	08/28/23 09:30	Wipe

Case Narrative

PCBS (EPA 8082)

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 491224
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 08/28/23

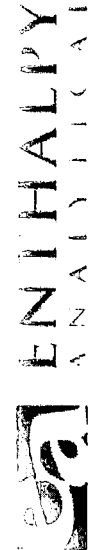
This data package contains sample and QC results for twelve wipe samples, requested for the above referenced project on 08/29/23. See attached cooler receipt form for any sample receipt problems or discrepancies.

PCBs (EPA 8082):

No analytical problems were encountered.

Chain of Custody

Chain of Custody Record				Turn Around Time (rush by advanced notice only)											
COC ID:				Standard:											
Page: 1 of 2				5 Day: 1 Day: 3 Day: custom TAT:											
ENTHALPY ANALYTICAL Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92868 Phone 714-771-6900				Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other				Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other				Sample Receipt Temp: Report: Level IV (lab use only)			
CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments			
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721	Matrix		Container No. / Size	Pres.	PCBs - EPA Method 3546/8082		Lead by EPA Method 3050M/60108		Confirmation Wipe Samples - Level IV			
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP	WP		1	-	X	X		Report/Stage 3 Validation				
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491	WP		1	-	X	X		Report PCB concentrations on a µg/100cm ² basis				
Address:	449 15th Street, Suite 303	P.O. #:		WP		1	-	X	X		Report lead concentrations on a µg/tl ² basis				
Phone:	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA	WP		1	-	X	X		Report Aroclor 1268 concentrations in addition to the standard Aroclors				
Fax:	(651) 890-9556	Global ID:		WP		1	-	X	X		Wipe samples collected from Zone 5 Enclosure C/D (Low Occupancy)				
Sampled By: M. Kim				WP		1	-	X	X		2x Rivet Type 2 = 0.0100				
Sample Date				Sampling Time		Matrix		Container No. / Size		Pres.					
1 ARCH-C8W-EXT-1 TO 2-230828-P-WF				8/28/2023 0730		WP		1		-					
2 ARCH-C8W-EXT-1 TO 2-230828-L-WF				8/28/2023 0730		WP		1		-					
3 ARCH-C9W-EXT-1 TO 2-230828-P-WF				8/28/2023 0740		WP		1		-					
4 ARCH-C9W-EXT-1 TO 2-230828-L-WF				8/28/2023 0740		WP		1		-					
5 ARCH-C9W-EXT-1 TO 2-230828-L-DUP-WF				8/28/2023 0740		WP		1		-					
6 ARCH-C8W-DG-1.5 TO 2-DN-C8-7-VS-230828-P-LA				8/28/2023 0810		WP		1		-					
7 ARCH-C8W-DG-1.5 TO 2-DN-C8-7-VS-230828-L-LA				8/28/2023 0810		WP		1		-					
8 ARCH-C10W-DG-1.5 TO 2-230828-P-FB				8/28/2023 0755		WP		1		-					
9 ARCH-C10W-DG-1.5 TO 2-230828-L-FB				8/28/2023 0755		WP		1		-					
10 ARCH-C10W-DG-1.5 TO 2-230828-L-DUP-FB				8/28/2023 0755		WP		1		-					
11 ARCH-C9W-DG-2 TO 2-5-230828-P-FB				8/28/2023 0825		WP		1		-					
12 ARCH-C9W-DG-2 TO 2-5-230828-L-FB				8/28/2023 0825		WP		1		-					
13 ARCH-C9W-DG-2 TO 2-5-UP-C9-1-HS-230828-P-LA				8/28/2023 0830		WP		1		-					
14 ARCH-C9W-DG-2 TO 2-5-UP-C9-1-HS-230828-P-DUP-LA				8/28/2023 0830		WP		1		-					
15 ARCH-C9W-DG-2 TO 2-5-UP-C9-1-HS-230828-L-LA				8/28/2023 0830		WP		1		-		1x Rivet Type 2 = 0.0100			
Signature				Print Name				Company / Title				Date / Time			
1 Relinquished By: [Signature]				David Wilson				Rincon / Env. Sci.				8/28/23 1305			
1 Received By: [Signature]				Audrey Hudson				ENTHALPY				8/28/23 1305			
2 Relinquished By: [Signature]				"				"				8/28/23 16140			
2 Received By: [Signature]				Marian V. [Signature]				PB				8/28/23 16140			
3 Relinquished By: [Signature]				Audrey Hudson				ENTHALPY				8/28/23 17140			
3 Received By: [Signature]				Audrey Hudson				"				8/28/23 0914			



Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92668
Phone 714-771-6900

Chain of Custody Record

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

COC ID: 491224

Standard:	5 Day:	3 Day:
X (PCBs)	1 Day:	custom TAT:

Preservatives:
1 = Na₂SO₃ 2 = HCl 3 = HNO₃
4 = H₂SO₄ 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

Matrix: A = Air S = Soil/Solid
W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water
SW = Swab T = Tissue WP = Wipe O = Other

CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments								
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721	Sample ID	ARCH-C11W-INT-1.5 TO 2.5-230828-P-WF	Sampling Date	8/28/2023	Sampling Time	0845	Matrix	WP	Container No. / Size	1	Pres.	--	PCBs - EPA Method 3546/8082	Lead by EPA Method 3050M/60108	Analysis Request	Report: Stage 3 Validation	Confirmation Wipe Samples - Level IV
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP																	
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491																	
Address:	449 15th Street, Suite 303	P.O. #:																		
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA																	
Phone:	(651) 890-9556	Global ID:																		
Fax:		Sampled By:	M. KM																	

16	ARCH-C11W-INT-1.5 TO 2.5-230828-P-WF	8/28/2023	0845	WP	1	--	X													
17	ARCH-C11W-INT-1.5 TO 2.5-230828-L-WF	8/28/2023	0845	WP	1	--	X													
18	ARCH-C8W-PS-2.5-230828-P-G	8/28/2023	0900	WP	1	--	X													
19	ARCH-C8W-PS-2.5-230828-L-G	8/28/2023	0900	WP	1	--	X													
20	ARCH-C8W-DG-2.5 TO 3-UP-C8 6-HS-230828-P-LA	8/28/2023	0945	WP	1	--	X													
21	ARCH-C8W-DG-2.5 TO 3-UP-C8 6-HS-230828-P-DUP-LA	8/28/2023	0945	WP	1	--	X													
22	ARCH-C8W-DG-2.5 TO 3-UP-C8 6-HS-230828-L-LA	8/28/2023	0945	WP	1	--	X													
23	ARCH-C10W-PS-2.5-230828-P-G	8/28/2023	0930	WP	1	--	X													
24	ARCH-C10W-PS-2.5-230828-L-G	8/28/2023	0930	WP	1	--	X													
25																				
26																				
27																				
28																				
29																				
30																				

8x Rivet Type 1 = 0.1104 μg
1x Rivet Type 2 = 0.0100 μg
8x Rivet Type 1 = 0.1104 μg

Signature		Print Name	Company / Title	Date / Time
1 Relinquished By:	<i>[Signature]</i>	Donald Welsh	Rincon / Env. Sci.	8/28/23 1305
1 Received By:	<i>[Signature]</i>	AUDREY MASON	ENTHALPY	8/28/23 1305
2 Relinquished By:	<i>[Signature]</i>	" "	" "	8/28/23 16:40
2 Received By:	<i>[Signature]</i>	Manuel 2nd	ENTHALPY	8/28/23 16:40
3 Relinquished By:	<i>[Signature]</i>	AUDREY MASON	ENTHALPY	8/28/23 17:40
3 Received By:	<i>[Signature]</i>	" "	" "	8/29/23 09:14



Section 1: General Info

Section 2: Shipping / Custody

Shipping Info:

Are custody seals present? ☐ No ☒ Yes If yes, where? ☒ on cooler, ☐ on samples, ☐ on package

Custody seals intact on arrival? ☒ Yes ☐ No ☐ N/A Date: 8.28.23 # of seals 1 ☒ Signature ☐ Initials

Section 3: Condition / Packaging

Important: Notify PM if temperature exceeds 6°C or arrive frozen

Date Opened 8.28.23 By (print) JJP (sign)

☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)

If no cooler: Sample Temp (°C):

How many coolers? 1 Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☒ Yes, ☐ No

Section 4: Containers / Labels / Samples

Were custody papers dry, filled out properly, and the project identifiable?

Were Method 5035 sampling containers present? Transferred to freezer @:

Did all containers arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____

Section 5: Preservatives

Are the samples appropriately preserved? (if yes, skip the rest of section 5)

Did any samples / containers require preservation upon receipt?

Did you document your preservative check in the bench book?

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ Date/Time _____

☐ HCL lot# _____ added to samples _____ Date/Time _____☐ HNO3 lot# _____ added to samples _____ Date/Time _____

☐ CrVI Buffer lot# _____ added to samples _____ Date/Time _____

Section 6: Explanations / Comments

Date Logged 8.28.03 By (print) JP for MY (sign)

Date Labeled 8-28-23 By (print) DP (sign)

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



491224

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: <u>Rincon Consultants</u>	Project: <u>Hangar 1 NTCRA</u>
Date Received: <u>08/29/23</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u> ☐ No (skip section 2)	Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: <u>5.4</u> #2: _____ #3: _____ #4: _____	
<i>(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)</i>	
Shipping Information: <u>Southwest Airlines</u>	

Section 3	
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: <u>1.5</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments

Section 6
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____
☐ Email (email sent to/on): _____ / _____
Project Manager's response:

Completed By: _____

Date: **AUG 29 2023**

SOUTHWEST AIRLINES

Printed on:
28 AUG 19:42

526 OAK 9259 1236



SNA

PC#
2 OF 2

DG
G

LOT WT
65 LB
(29.5 KG)

OAK WN 3842 28 AUG 20:40

STN FLT DATE ETD LOT 01



PC ID: 0002
PC WT: 32LB

526 92591236 0002

S

1.5 / 5.4

Results & QC Summary

Enthalpy Analytical - Orange Analytical Report

Lab #: 491224	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-EXT-1 TO 2-230828-P-WF	Batch#: 321684	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491224-001	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/02/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491224-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-001 Surrogate		%REC	Limits
TCMX (PCB)		83	19-121
Decachlorobiphenyl (PCB)		107	19-121

Field ID: ARCH-C9W-EXT-1 TO 2-230828-P-WF	Batch#: 321684	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491224-003	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/02/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491224-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-003 Surrogate		%REC	Limits
TCMX (PCB)		78	19-121
Decachlorobiphenyl (PCB)		85	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491224

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-P-LA

Batch#: 321684

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491224-006

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/02/23

DiIn Fac: 1.000

Analyzed: 09/05/23

491224-006 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-006 Surrogate		%REC	Limits
TCMX (PCB)		77	19-121
Decachlorobiphenyl (PCB)		95	19-121

Field ID: ARCH-C10W-DG-1.5 TO 2-230828-P-FB

Batch#: 321684

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491224-008

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/02/23

DiIn Fac: 1.000

Analyzed: 09/05/23

491224-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-008 Surrogate		%REC	Limits
TCMX (PCB)		79	19-121
Decachlorobiphenyl (PCB)		80	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491224	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C9W-DG-2 TO 2.5-230828-P-FB	Batch#: 321684	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491224-011	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/02/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491224-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-011 Surrogate		%REC	Limits
TCMX (PCB)		77	19-121
Decachlorobiphenyl (PCB)		71	19-121

Field ID: ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-P-LA	Batch#: 321684	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491224-013	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/02/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491224-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-013 Surrogate		%REC	Limits
TCMX (PCB)		84	19-121
Decachlorobiphenyl (PCB)		106	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491224

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-P-DUP-LA

Batch#: 321684

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491224-014

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/02/23

Diln Fac: 1.000

Analyzed: 09/05/23

491224-014 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-014 Surrogate		%REC	Limits
TCMX (PCB)		82	19-121
Decachlorobiphenyl (PCB)		95	19-121

Field ID: ARCH-C11W-INT-1.5 TO 2.5-230828-P-WF

Batch#: 321684

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491224-016

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/02/23

Diln Fac: 1.000

Analyzed: 09/05/23

491224-016 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-016 Surrogate		%REC	Limits
TCMX (PCB)		86	19-121
Decachlorobiphenyl (PCB)		88	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491224	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-PS-2.5-230828-P-G	Batch#: 321684	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491224-018	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/02/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491224-018 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-018 Surrogate		%REC	Limits
TCMX (PCB)		74	19-121
Decachlorobiphenyl (PCB)		80	19-121

Field ID: ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-LA	Batch#: 321684	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491224-020	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/02/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491224-020 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-020 Surrogate		%REC	Limits
TCMX (PCB)		76	19-121
Decachlorobiphenyl (PCB)		96	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491224

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-DUP-LA

Batch#: 321684

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491224-021

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/02/23

Diln Fac: 1.000

Analyzed: 09/05/23

491224-021 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-021 Surrogate		%REC	Limits
TCMX (PCB)		81	19-121
Decachlorobiphenyl (PCB)		98	19-121

Field ID: ARCH-C10W-PS-2.5-230828-P-G

Batch#: 321684

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491224-023

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/02/23

Diln Fac: 1.000

Analyzed: 09/05/23

491224-023 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491224-023 Surrogate		%REC	Limits
TCMX (PCB)		77	19-121
Decachlorobiphenyl (PCB)		91	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491224

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BLANK

Batch#: 321684

Analysis: EPA 8082

Lab ID: QC1091264

Prepared: 09/02/23

Analyst: TRN

Matrix: Wipe

Analyzed: 09/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1091264 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1091264 Surrogate	%REC	Limits
TCMX (PCB)	76	19-121
Decachlorobiphenyl (PCB)	85	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 491224

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 321684

Analysis: EPA 8082

Lab ID: QC1091265

Prepared: 09/02/23

Analyst: TRN

Matrix: Wipe

Analyzed: 09/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1091265 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.573	91	60-140	ug/100 cm2
Aroclor-1260	5.000	5.129	103	60-140	ug/100 cm2
QC1091265 Surrogate				%REC	Limits
TCMX (PCB)				79	19-121
Decachlorobiphenyl (PCB)				95	19-121

Type: BSD

Batch#: 321684

Analysis: EPA 8082

Lab ID: QC1091266

Prepared: 09/02/23

Analyst: TRN

Matrix: Wipe

Analyzed: 09/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1091266 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.947	99	60-140	ug/100 cm2	8	20
Aroclor-1260	5.000	5.411	108	60-140	ug/100 cm2	5	20
QC1091266 Surrogate				%REC	Limits		
TCMX (PCB)				86	19-121		
Decachlorobiphenyl (PCB)				101	19-121		

Legend

RPD: Relative Percent Difference

Instrument: SVOA-GC06
 Calibration #: 453205686001
 Units: ug/L

Name: PCB_052223_1
 Date: 22-MAY-2023 20:06
 X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_052223020	453205686020		22-MAY-2023 20:06	S18179
L2	gc06_052223021	453205686021		22-MAY-2023 20:24	S18180
L3	gc06_052223022	453205686022		22-MAY-2023 20:43	S18181
L4	gc06_052223023	453205686023		22-MAY-2023 21:01	S18182
L5	gc06_052223024	453205686024		22-MAY-2023 21:19	S18183
L6	gc06_052223025	453205686025		22-MAY-2023 21:38	S18184
L7	gc06_052223026	453205686026		22-MAY-2023 21:56	S18185
L8	gc06_052223027	453205686027		22-MAY-2023 22:14	S18186
L9	gc06_052223028	453205686028		22-MAY-2023 22:33	S18187
L10	gc06_052223029	453205686029		22-MAY-2023 22:51	S18188

Instrument: SVOA-GC06
 Calibration #: 453205686001
 Units: ug/L

Name: PCB_052223_1
 Date: 22-MAY-2023 20:06
 X Axis: R

Analyte	Ch	Type	a0	a1	a2	Avg RF	%RSD	n	Min r ²	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG	44.8280			0.0223	13	9	.99	20	
Aroclor-1016 Peak # 2	A	AVRG	22.0807			0.0453	14	9	.99	20	
Aroclor-1016 Peak # 3	A	AVRG	17.2755			0.0579	15	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG	28.6617			0.0349	13	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG	37.4758			0.0267	15	8	.99	20	
Aroclor-1260 Peak # 1	A	AVRG	15.1197			0.0661	14	9	.99	20	
Aroclor-1260 Peak # 2	A	AVRG	9.90415			0.1010	14	9	.99	20	
Aroclor-1260 Peak # 3	A	AVRG	9.26897			0.1079	20	10	.99	20	
Aroclor-1260 Peak # 4	A	AVRG	17.0130			0.0588	14	10	.99	20	
Aroclor-1260 Peak # 5	A	AVRG	10.7597			0.0929	13	10	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG	0.74929			1.3346	16	9	.99	20	
TCMX (PCB)	A	AVRG	0.93830			1.0658	13	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG	48.0029			0.0208	16	10	.99	20	
Aroclor-1016 Peak # 2	B	AVRG	21.3693			0.0468	20	10	.99	20	
Aroclor-1016 Peak # 3	B	AVRG	17.7590			0.0563	14	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG	24.6742			0.0405	16	10	.99	20	
Aroclor-1016 Peak # 5	B	AVRG	46.2568			0.0216	9	8	.99	20	
Aroclor-1260 Peak # 1	B	AVRG	17.7291			0.0564	17	10	.99	20	
Aroclor-1260 Peak # 2	B	AVRG	15.7244			0.0636	15	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG	12.2876			0.0814	17	9	.99	20	
Aroclor-1260 Peak # 4	B	AVRG	21.0371			0.0475	17	10	.99	20	
Aroclor-1260 Peak # 5	B	AVRG	14.5138			0.0689	12	9	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG	0.94680			1.0562	17	9	.99	20	
TCMX (PCB)	B	AVRG	0.94258			1.0609	15	10	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)

AVRG: Average response factor

Instrument: SVOA-GC06
 Calibration #: 453205686001
 Units: ug/L

Name: PCB_052223_1
 Date: 22-MAY-2023 20:06
 X Axis: R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF	L10 RF
Aroclor-1016 Peak # 1	A		0.0276	0.0245	0.0234	0.0239	0.0218	0.0206	0.0212	0.0184	0.0193
Aroclor-1016 Peak # 2	A		0.0566	0.0518	0.0480	0.0481	0.0439	0.0411	0.0427	0.0366	0.0387
Aroclor-1016 Peak # 3	A		0.0762	0.0633	0.0599	0.0612	0.0560	0.0519	0.0548	0.0476	0.0502
Aroclor-1016 Peak # 4	A		0.0443	0.0367	0.0358	0.0370	0.0341	0.0322	0.0341	0.0290	0.0309
Aroclor-1016 Peak # 5	A			0.0344	0.0292	0.0286	0.0264	0.0247	0.0261	0.0216	0.0226
Aroclor-1260 Peak # 1	A		0.0851	0.0711	0.0682	0.0709	0.0625	0.0605	0.0668	0.0525	0.0577
Aroclor-1260 Peak # 2	A		0.1294	0.1093	0.1026	0.1091	0.0961	0.0930	0.1010	0.0808	0.0875
Aroclor-1260 Peak # 3	A	0.1581	0.1289	0.1077	0.1032	0.1094	0.0971	0.0948	0.1043	0.0834	0.0921
Aroclor-1260 Peak # 4	A	0.0772	0.0641	0.0593	0.0559	0.0620	0.0553	0.0543	0.0597	0.0476	0.0524
Aroclor-1260 Peak # 5	A	0.1231	0.0945	0.0875	0.0849	0.1002	0.0893	0.0878	0.0975	0.0775	0.0870
Decachlorobiphenyl (PCB)	A		1.7632	1.3406	1.2120	1.5128	1.4154	1.3028	1.3203	1.0100	1.1344
TCMX (PCB)	A		1.3115	1.0954	1.0188	1.2898	0.9794	0.9774	1.0276	0.9022	0.9898
Aroclor-1016 Peak # 1	B	0.0287	0.0231	0.0220	0.0204	0.0214	0.0200	0.0189	0.0193	0.0169	0.0175
Aroclor-1016 Peak # 2	B	0.0611	0.0630	0.0503	0.0468	0.0471	0.0433	0.0407	0.0419	0.0361	0.0376
Aroclor-1016 Peak # 3	B		0.0724	0.0632	0.0574	0.0590	0.0541	0.0509	0.0542	0.0462	0.0495
Aroclor-1016 Peak # 4	B	0.0559	0.0462	0.0417	0.0392	0.0416	0.0384	0.0365	0.0384	0.0328	0.0345
Aroclor-1016 Peak # 5	B			0.0241	0.0220	0.0240	0.0220	0.0210	0.0220	0.0185	0.0193
Aroclor-1260 Peak # 1	B	0.0735	0.0722	0.0592	0.0548	0.0579	0.0517	0.0503	0.0540	0.0436	0.0468
Aroclor-1260 Peak # 2	B		0.0821	0.0695	0.0652	0.0682	0.0603	0.0584	0.0633	0.0506	0.0547
Aroclor-1260 Peak # 3	B	0.1108	0.0964	0.0809	0.0765	0.0815	0.0731	0.0718	0.0782	0.0632	
Aroclor-1260 Peak # 4	B	0.0660	0.0527	0.0493	0.0467	0.0491	0.0448	0.0412	0.0471	0.0378	0.0406
Aroclor-1260 Peak # 5	B		0.0860	0.0731	0.0692	0.0734	0.0655	0.0644	0.0708	0.0560	0.0616
Decachlorobiphenyl (PCB)	B		1.3936	1.1048	0.9715	1.1986	1.1264	1.0333	1.0299	0.7901	0.8576
TCMX (PCB)	B	1.3332	1.2621	1.0653	1.0656	1.2201	0.9321	0.9733	0.9760	0.8587	0.9229

Instrument: SVOA-GC06
 Calibration #: 453205686001
 Units: ug/L

Name: PCB_052223_1
 Date: 22-MAY-2023 20:06
 X Axis: R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A			20.000	24	50.000	10	100.00	5	250.00	7	500.00	-2	749.91	-8	1000.0	-5
Aroclor-1016 Peak # 2	A			20.000	25	50.000	14	100.00	6	250.00	6	500.00	-3	749.91	-9	1000.0	-6
Aroclor-1016 Peak # 3	A			20.000	32	50.000	9	100.00	3	250.00	6	500.00	-3	749.91	-10	1000.0	-5
Aroclor-1016 Peak # 4	A			20.000	27	50.000	5	100.00	2	250.00	6	500.00	-2	749.91	-8	1000.0	-2
Aroclor-1016 Peak # 5	A					50.000	29	100.00	9	250.00	7	500.00	-1	749.91	-7	1000.0	-2
Aroclor-1260 Peak # 1	A			20.000	29	50.000	8	100.00	3	250.00	7	500.00	-6	749.91	-9	1000.0	1
Aroclor-1260 Peak # 2	A			20.000	28	50.000	8	100.00	2	250.00	8	500.00	-5	749.91	-8	1000.0	0
Aroclor-1260 Peak # 3	A	10.000	47	20.000	19	50.000	0	100.00	-4	250.00	1	500.00	-10	749.91	-12	1000.0	-3
Aroclor-1260 Peak # 4	A	10.000	31	20.000	9	50.000	1	100.00	-5	250.00	6	500.00	-6	749.91	-8	1000.0	1
Aroclor-1260 Peak # 5	A	10.000	32	20.000	2	50.000	-6	100.00	-9	250.00	8	500.00	-4	749.91	-6	1000.0	5
Decachlorobiphenyl (PCB)	A			1.6000	32	4.0000	0	8.0000	-9	20.000	13	40.000	6	59.993	-2	80.000	-1
TCMX (PCB)	A			1.6000	23	4.0000	3	8.0000	-4	20.000	21	40.000	-8	59.993	-8	80.000	-4
Aroclor-1016 Peak # 1	B	10.000	38	20.000	11	50.000	6	100.00	-2	250.00	3	500.00	-4	749.91	-9	1000.0	-7
Aroclor-1016 Peak # 2	B	10.000	31	20.000	35	50.000	8	100.00	0	250.00	1	500.00	-7	749.91	-13	1000.0	-10
Aroclor-1016 Peak # 3	B			20.000	29	50.000	12	100.00	2	250.00	5	500.00	-4	749.91	-10	1000.0	-4
Aroclor-1016 Peak # 4	B	10.000	38	20.000	14	50.000	3	100.00	-3	250.00	3	500.00	-5	749.91	-10	1000.0	-5
Aroclor-1016 Peak # 5	B					50.000	11	100.00	2	250.00	11	500.00	2	749.91	-3	1000.0	2
Aroclor-1260 Peak # 1	B	10.000	30	20.000	28	50.000	5	100.00	-3	250.00	3	500.00	-8	749.91	-11	1000.0	-4
Aroclor-1260 Peak # 2	B			20.000	29	50.000	9	100.00	3	250.00	7	500.00	-5	749.91	-8	1000.0	0
Aroclor-1260 Peak # 3	B	10.000	36	20.000	18	50.000	-1	100.00	-6	250.00	0	500.00	-10	749.91	-12	1000.0	-4
Aroclor-1260 Peak # 4	B	10.000	39	20.000	11	50.000	4	100.00	-2	250.00	3	500.00	-6	749.91	-13	1000.0	-1
Aroclor-1260 Peak # 5	B			20.000	25	50.000	6	100.00	0	250.00	6	500.00	-5	749.91	-7	1000.0	3
Decachlorobiphenyl (PCB)	B			1.6000	32	4.0000	5	8.0000	-8	20.000	13	40.000	7	59.993	-2	80.000	-2
TCMX (PCB)	B	0.8000	26	1.6000	19	4.0000	0	8.0000	0	20.000	15	40.000	-12	59.993	-8	80.000	-8

Instrument: SVOA-GC06
 Calibration #: 453205686001
 Units: ug/L

Name: PCB_052223_1
 Date: 22-MAY-2023 20:06
 X Axis: R

Spiked Amounts / Drifts	Ch	L9	%D	L10	%D
Aroclor-1016 Peak # 1	A	1500.0	-17	2000.0	-13
Aroclor-1016 Peak # 2	A	1500.0	-19	2000.0	-15
Aroclor-1016 Peak # 3	A	1500.0	-18	2000.0	-13
Aroclor-1016 Peak # 4	A	1500.0	-17	2000.0	-11
Aroclor-1016 Peak # 5	A	1500.0	-19	2000.0	-15
Aroclor-1260 Peak # 1	A	1500.0	-21	2000.0	-13
Aroclor-1260 Peak # 2	A	1500.0	-20	2000.0	-13
Aroclor-1260 Peak # 3	A	1500.0	-23	2000.0	-15
Aroclor-1260 Peak # 4	A	1500.0	-19	2000.0	-11
Aroclor-1260 Peak # 5	A	1500.0	-17	2000.0	-6
Decachlorobiphenyl (PCB)	A	120.00	-24	160.00	-15
TCMX (PCB)	A	120.00	-15	160.00	-7
Aroclor-1016 Peak # 1	B	1500.0	-19	2000.0	-16
Aroclor-1016 Peak # 2	B	1500.0	-23	2000.0	-20
Aroclor-1016 Peak # 3	B	1500.0	-18	2000.0	-12
Aroclor-1016 Peak # 4	B	1500.0	-19	2000.0	-15
Aroclor-1016 Peak # 5	B	1500.0	-15	2000.0	-11
Aroclor-1260 Peak # 1	B	1500.0	-23	2000.0	-17
Aroclor-1260 Peak # 2	B	1500.0	-20	2000.0	-14
Aroclor-1260 Peak # 3	B	1500.0	-22		
Aroclor-1260 Peak # 4	B	1500.0	-20	2000.0	-15
Aroclor-1260 Peak # 5	B	1500.0	-19	2000.0	-11
Decachlorobiphenyl (PCB)	B	120.00	-25	160.00	-19
TCMX (PCB)	B	120.00	-19	160.00	-13

TRN 05/23/23 : Manually integrated for coeluting peak, negative/tailing peak for one/both channels on multiple levels

Instrument: SVOA-GC06
Calibration #: 453205686001
Units: ug/L

Name: PCB_052223_1
Date: 22-MAY-2023 20:06
X Axis: R

Analyst: TRN 05/23/23

Reviewer: LW 05/23/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 491224 PCBS Wipe
EPA 8082

Inst: SVOA-GC06
Calnum: 453205686001

Name: PCB_052223_1
Cal Date: 22-MAY-2023

- ICV 453205686031 (gc06_052223031 22-MAY-2023) stds: S18189

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	428.3	ug/L	-14	15	
Aroclor-1260	A	500.0	486.3	ug/L	-3	15	
Aroclor-1016	B	500.0	432.4	ug/L	-14	15	
Aroclor-1260	B	500.0	476.3	ug/L	-5	15	

•

Analyst: TRN 05/23/23

Reviewer: LW 05/23/23

ENTHALPY CONTINUING CALIBRATION FOR 491224 PCBs Wipe
EPA 8082

Inst: SVOA-GC06	File: gc06_090523004	IDF: 1.0
Seqnum: 453357659004	Caldate: 22-MAY-2023	Time: 05-SEP-2023 09:34
Cal: 453205686001		

Standards: S18732

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	502.9	ug/L	1	15	0.0000	
Aroclor-1260	A			500.0	473.5	ug/L	-5	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.3346	1.5365	40.00	46.05	ug/L	15	15	0.0000	
TCMX (PCB)	A	1.0658	1.0102	40.00	37.92	ug/L	-5	15	0.0000	
Aroclor-1016	B			500.0	472.5	ug/L	-6	15	0.0000	
Aroclor-1260	B			500.0	493.7	ug/L	-1	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.0562	1.2337	40.00	46.72	ug/L	17	15	0.0000	c+
TCMX (PCB)	B	1.0609	0.9619	40.00	36.27	ug/L	-9	15	0.0000	

ISTD (ICAL gc06_052223022)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	7279227	12645971	73.73
1-bromo-2-nitrobenzene (PCB)	A	2781470	4899467	76.15

09/05/23 : 500 PPB PCB CCV

MES 09/05/23 [Aroclor-1016 A]: Separated from coeluting peak for Ch. A.

+ = high bias c = CCV

Analyst: MES 09/05/23 *

Reviewer: MTS 09/06/23

Date: 09/05/23		Reference: gc06_052223022		
Sequence: SVOA-GC06 gc06_090523		Analyzed: 05/22/23 20:43		
#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		ICAL STD	7279227	2781470
		LOWER LIMIT	3639614	1390735
		UPPER LIMIT	14558454	5562940
002	CCV		13710455	4850454
004	CCV		12645971	4899467
040	CCV		10818022	4475990

Date: 09/05/23
Sequence: SVOA-GC06 gc06_090523

Reference: gc06_090523004
Analyzed: 09/05/23 09:34

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	12645971	4899467
		LOWER LIMIT	6322985	2449733
		UPPER LIMIT	25291942	9798933
010	BLANK	QC1091264	10545923	3618954
011	BS	QC1091265	9841681	3530043
012	BSD	QC1091266	8917206	3397158
013	SAMPLE	491224-001	10769893	3997006
014	SAMPLE	491224-003	9967845	3744033
015	SAMPLE	491224-006	9218208	3658924
016	SAMPLE	491224-008	10537242	4188434
017	SAMPLE	491224-011	6767977	2819182
018	SAMPLE	491224-013	9947032	3959245
019	SAMPLE	491224-014	10553259	4052258
020	SAMPLE	491224-016	8951131	3484726
021	SAMPLE	491224-018	9917833	3703023
022	SAMPLE	491224-020	10387193	4001581
023	SAMPLE	491224-021	8998197	3643477
024	SAMPLE	491224-023	9779982	3897606
025	BLANK	QC1091235	9015294	3548647
026	BS	QC1091237	7745044	3138669
027	BSD	QC1091238	8130308	3252822
028	SAMPLE	491258-001	10347502	4139661
029	SAMPLE	491258-002	10441945	4286151
030	SAMPLE	491258-004	9429578	3873329
031	SAMPLE	491258-006	8667169	3602668
032	SAMPLE	491258-008	9786627	4006632
033	SAMPLE	491258-011	10369846	4197430
034	SAMPLE	491258-013	10892405	4258645
035	SAMPLE	491258-014	8628572	3590021
036	SAMPLE	491258-016	9056035	3656792
037	SAMPLE	491258-019	9313887	3689839
038	SAMPLE	491258-021	8249395	3339050

Date: 09/05/23
Sequence: SVOA-GC06 gc06_090523

Reference: gc06_090523004
Analyzed: 09/05/23 09:34

#	Type	Sample ID	1BR2NITROBZPCB B RT	1BR2NITROBZPCB A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.38	4.18
		LOWER LIMIT	4.18	3.98
		UPPER LIMIT	4.58	4.38
010	BLANK	QC1091264	4.38	4.18
011	BS	QC1091265	4.38	4.18
012	BSD	QC1091266	4.38	4.18
013	SAMPLE	491224-001	4.38	4.18
014	SAMPLE	491224-003	4.37	4.18
015	SAMPLE	491224-006	4.38	4.18
016	SAMPLE	491224-008	4.37	4.18
017	SAMPLE	491224-011	4.38	4.18
018	SAMPLE	491224-013	4.37	4.18
019	SAMPLE	491224-014	4.37	4.18
020	SAMPLE	491224-016	4.37	4.18
021	SAMPLE	491224-018	4.37	4.18
022	SAMPLE	491224-020	4.37	4.18
023	SAMPLE	491224-021	4.38	4.18
024	SAMPLE	491224-023	4.37	4.18
025	BLANK	QC1091235	4.37	4.18
026	BS	QC1091237	4.37	4.18
027	BSD	QC1091238	4.37	4.18
028	SAMPLE	491258-001	4.37	4.18
029	SAMPLE	491258-002	4.37	4.18
030	SAMPLE	491258-004	4.37	4.18
031	SAMPLE	491258-006	4.37	4.18
032	SAMPLE	491258-008	4.37	4.18
033	SAMPLE	491258-011	4.37	4.18
034	SAMPLE	491258-013	4.37	4.18
035	SAMPLE	491258-014	4.37	4.18
036	SAMPLE	491258-016	4.37	4.18
037	SAMPLE	491258-019	4.37	4.18
038	SAMPLE	491258-021	4.37	4.18

Instrument: SVOA-GC06		Begun: 05/22/23 20:06							
Method: EPA 8082									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
020	gc06_052223020	ICAL				05/22/23 20:06	1.0	1	
021	gc06_052223021	ICAL				05/22/23 20:24	1.0	2	
022	gc06_052223022	ICAL				05/22/23 20:43	1.0	3	
023	gc06_052223023	ICAL				05/22/23 21:01	1.0	4	
024	gc06_052223024	ICAL				05/22/23 21:19	1.0	5	
025	gc06_052223025	ICAL				05/22/23 21:38	1.0	6	
026	gc06_052223026	ICAL				05/22/23 21:56	1.0	7	
027	gc06_052223027	ICAL				05/22/23 22:14	1.0	8	
028	gc06_052223028	ICAL				05/22/23 22:33	1.0	9	
029	gc06_052223029	ICAL				05/22/23 22:51	1.0	10	
031	gc06_052223031	ICV				05/22/23 23:27	1.0	11	

TRN 05/23/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 20 through 31.

Standards Used:

1=S18179 2=S18180 3=S18181 4=S18182 5=S18183 6=S18184 7=S18185 8=S18186 9=S18187 10=S18188 11=S18189

Instrument: SVOA-GC06					Begun: 09/05/23 08:59				
Method: EPA 8082									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
002	gc06_090523002	CCV				09/05/23 08:59	1.0	1	
004	gc06_090523004	CCV				09/05/23 09:34	1.0	1	
010	gc06_090523010	BLANK	QC1091264	Wipe	321684	09/05/23 11:13	1.0	2	
011	gc06_090523011	BS	QC1091265	Wipe	321684	09/05/23 11:32	1.0	2	
012	gc06_090523012	BSD	QC1091266	Wipe	321684	09/05/23 11:52	1.0	2	
013	gc06_090523013	SAMPLE	491224-001	Wipe	321684	09/05/23 12:10	1.0	2	
014	gc06_090523014	SAMPLE	491224-003	Wipe	321684	09/05/23 12:29	1.0	2	
015	gc06_090523015	SAMPLE	491224-006	Wipe	321684	09/05/23 12:48	1.0	2	
016	gc06_090523016	SAMPLE	491224-008	Wipe	321684	09/05/23 13:07	1.0	2	
017	gc06_090523017	SAMPLE	491224-011	Wipe	321684	09/05/23 13:27	1.0	2	
018	gc06_090523018	SAMPLE	491224-013	Wipe	321684	09/05/23 13:46	1.0	2	
019	gc06_090523019	SAMPLE	491224-014	Wipe	321684	09/05/23 14:04	1.0	2	
020	gc06_090523020	SAMPLE	491224-016	Wipe	321684	09/05/23 14:23	1.0	2	
021	gc06_090523021	SAMPLE	491224-018	Wipe	321684	09/05/23 14:42	1.0	2	2:PCB1016#1=2400
022	gc06_090523022	SAMPLE	491224-020	Wipe	321684	09/05/23 15:01	1.0	2	
023	gc06_090523023	SAMPLE	491224-021	Wipe	321684	09/05/23 15:20	1.0	2	
024	gc06_090523024	SAMPLE	491224-023	Wipe	321684	09/05/23 15:39	1.0	2	
025	gc06_090523025	BLANK	QC1091235	Wipe	321678	09/05/23 15:58	1.0	2	
026	gc06_090523026	BS	QC1091237	Wipe	321678	09/05/23 16:17	1.0	2	
027	gc06_090523027	BSD	QC1091238	Wipe	321678	09/05/23 16:36	1.0	2	
028	gc06_090523028	SAMPLE	491258-001	Wipe	321678	09/05/23 16:54	1.0	2	
029	gc06_090523029	SAMPLE	491258-002	Wipe	321678	09/05/23 17:13	1.0	2	
030	gc06_090523030	SAMPLE	491258-004	Wipe	321678	09/05/23 17:32	1.0	2	
031	gc06_090523031	SAMPLE	491258-006	Wipe	321678	09/05/23 17:51	1.0	2	
032	gc06_090523032	SAMPLE	491258-008	Wipe	321678	09/05/23 18:10	1.0	2	
033	gc06_090523033	SAMPLE	491258-011	Wipe	321678	09/05/23 18:29	1.0	2	
034	gc06_090523034	SAMPLE	491258-013	Wipe	321678	09/05/23 18:48	1.0	2	
035	gc06_090523035	SAMPLE	491258-014	Wipe	321678	09/05/23 19:07	1.0	2	
036	gc06_090523036	SAMPLE	491258-016	Wipe	321678	09/05/23 19:26	1.0	2	
037	gc06_090523037	SAMPLE	491258-019	Wipe	321678	09/05/23 19:44	1.0	2	
038	gc06_090523038	SAMPLE	491258-021	Wipe	321678	09/05/23 20:03	1.0	2	
040	gc06_090523040	CCV				09/05/23 20:41	1.0	1	
045	gc06_090523045	SAMPLE	491258-023	Wipe	321678	09/05/23 22:15	1.0	2	
046	gc06_090523046	SAMPLE	491258-026	Wipe	321678	09/05/23 22:34	1.0	2	
047	gc06_090523047	SAMPLE	491258-028	Wipe	321678	09/05/23 22:52	1.0	2	
048	gc06_090523048	SAMPLE	491258-030	Wipe	321678	09/05/23 23:11	1.0	2	
049	gc06_090523049	SAMPLE	491258-032	Wipe	321678	09/05/23 23:30	1.0	2	
050	gc06_090523050	SAMPLE	491258-034	Wipe	321678	09/05/23 23:48	1.0	2	
051	gc06_090523051	SAMPLE	491258-035	Wipe	321678	09/06/23 00:07	1.0	2	
052	gc06_090523052	SAMPLE	491258-037	Wipe	321678	09/06/23 00:26	1.0	2	
053	gc06_090523053	SAMPLE	491258-040	Wipe	321678	09/06/23 00:44	1.0	2	

TRN 09/05/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 38.

MES 09/06/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 40 through 53.

Standards Used:
1=S18732 2=S18370

SAMPLE PREPARATION SUMMARY

Batch #: 321684	Method: 3546	Analysis: 8080
Started By: RAC	Prep Date: 02-SEP-2023 16:31	Finished By: RAC

Sample	Matrix	Initial	Final	Prep DF	pH	Spike S18929	Spike S18827	Analysis
491224-001	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-003	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-006	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-008	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-011	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-013	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-014	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-016	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-018	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-020	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-021	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
491224-023	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
QC1091264 BLANK	Wipe	1 dm2	10 mL	10.0		.5 mL		8080
QC1091265 BS	Wipe	1 dm2	10 mL	10.0		.5 mL	.5 mL	8080
QC1091266 BSD	Wipe	1 dm2	10 mL	10.0		.5 mL	.5 mL	8080

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

8081/8082/608.3 Prep Log

Prep Method: 3546

Matrix: Wipe

Date/Time: 9/2/23 16:31

Initials: RAC

Hotblock ID: _____ Therm Loc: _____ Therm ID/CF: _____ / _____

Hotblock Temp (Obs/Corr), °C: _____ / _____

608.3 QC Batch#: _____

Balance ID: N/A Microdispenser ID: Syringe

8081 QC Batch #:

Extraction Start Time*: 16:40 Extraction end time*: 17:25
*For hot block, microwave, shaker table

QC Batch #: 321684

* For hot block, microwave, shaker table

[illegible]

Methylene Chloride Lot: N/A

Exchange Solvent (Hexane) ID: 518883

Acetone-Hexane Mix ID: N/A

Sodium Sulfate Lot: 223704

Baked Sand Lot: N/A

Surrogate ID: 518929

Volume: 500 μL

Pest LCS Spike ID: _____ Volume: _____ μ L

PCB LCS Spike ID: 518827 Volume: 500 μ L

Pest MS/MSD Spike ID: _____ Volume: _____ μ L

PCB MS/MSD Spike ID: _____ Volume: _____ μ L

REPORTING SUMMARY FOR 491224 PCBs Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
491224-001	Aroclor-1016	SVOA-GC06	B	09/05/23 12:10
491224-001	Aroclor-1221	SVOA-GC06	B	09/05/23 12:10
491224-001	Aroclor-1232	SVOA-GC06	B	09/05/23 12:10
491224-001	Aroclor-1242	SVOA-GC06	B	09/05/23 12:10
491224-001	Aroclor-1248	SVOA-GC06	B	09/05/23 12:10
491224-001	Aroclor-1254	SVOA-GC06	B	09/05/23 12:10
491224-001	Aroclor-1260	SVOA-GC06	B	09/05/23 12:10
491224-001	Aroclor-1262	SVOA-GC06	B	09/05/23 12:10
491224-001	Aroclor-1268	SVOA-GC06	B	09/05/23 12:10
491224-001	TCMX (PCB)	SVOA-GC06	B	09/05/23 12:10
491224-001	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 12:10
491224-003	Aroclor-1016	SVOA-GC06	B	09/05/23 12:29
491224-003	Aroclor-1221	SVOA-GC06	B	09/05/23 12:29
491224-003	Aroclor-1232	SVOA-GC06	B	09/05/23 12:29
491224-003	Aroclor-1242	SVOA-GC06	B	09/05/23 12:29
491224-003	Aroclor-1248	SVOA-GC06	B	09/05/23 12:29
491224-003	Aroclor-1254	SVOA-GC06	B	09/05/23 12:29
491224-003	Aroclor-1260	SVOA-GC06	B	09/05/23 12:29
491224-003	Aroclor-1262	SVOA-GC06	B	09/05/23 12:29
491224-003	Aroclor-1268	SVOA-GC06	B	09/05/23 12:29
491224-003	TCMX (PCB)	SVOA-GC06	B	09/05/23 12:29
491224-003	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 12:29
491224-006	Aroclor-1016	SVOA-GC06	B	09/05/23 12:48
491224-006	Aroclor-1221	SVOA-GC06	B	09/05/23 12:48
491224-006	Aroclor-1232	SVOA-GC06	B	09/05/23 12:48
491224-006	Aroclor-1242	SVOA-GC06	B	09/05/23 12:48
491224-006	Aroclor-1248	SVOA-GC06	B	09/05/23 12:48
491224-006	Aroclor-1254	SVOA-GC06	B	09/05/23 12:48
491224-006	Aroclor-1260	SVOA-GC06	B	09/05/23 12:48

REPORTING SUMMARY FOR 491224 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
491224-006	Aroclor-1262	SVOA-GC06	B	09/05/23 12:48
491224-006	Aroclor-1268	SVOA-GC06	B	09/05/23 12:48
491224-006	TCMX (PCB)	SVOA-GC06	B	09/05/23 12:48
491224-006	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 12:48
491224-008	Aroclor-1016	SVOA-GC06	B	09/05/23 13:07
491224-008	Aroclor-1221	SVOA-GC06	B	09/05/23 13:07
491224-008	Aroclor-1232	SVOA-GC06	B	09/05/23 13:07
491224-008	Aroclor-1242	SVOA-GC06	B	09/05/23 13:07
491224-008	Aroclor-1248	SVOA-GC06	B	09/05/23 13:07
491224-008	Aroclor-1254	SVOA-GC06	B	09/05/23 13:07
491224-008	Aroclor-1260	SVOA-GC06	B	09/05/23 13:07
491224-008	Aroclor-1262	SVOA-GC06	B	09/05/23 13:07
491224-008	Aroclor-1268	SVOA-GC06	B	09/05/23 13:07
491224-008	TCMX (PCB)	SVOA-GC06	B	09/05/23 13:07
491224-008	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 13:07
491224-011	Aroclor-1016	SVOA-GC06	B	09/05/23 13:27
491224-011	Aroclor-1221	SVOA-GC06	B	09/05/23 13:27
491224-011	Aroclor-1232	SVOA-GC06	B	09/05/23 13:27
491224-011	Aroclor-1242	SVOA-GC06	B	09/05/23 13:27
491224-011	Aroclor-1248	SVOA-GC06	B	09/05/23 13:27
491224-011	Aroclor-1254	SVOA-GC06	B	09/05/23 13:27
491224-011	Aroclor-1260	SVOA-GC06	B	09/05/23 13:27
491224-011	Aroclor-1262	SVOA-GC06	B	09/05/23 13:27
491224-011	Aroclor-1268	SVOA-GC06	B	09/05/23 13:27
491224-011	TCMX (PCB)	SVOA-GC06	B	09/05/23 13:27
491224-011	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 13:27
491224-013	Aroclor-1016	SVOA-GC06	B	09/05/23 13:46
491224-013	Aroclor-1221	SVOA-GC06	B	09/05/23 13:46

REPORTING SUMMARY FOR 491224 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
491224-013	Aroclor-1232	SVOA-GC06	B	09/05/23 13:46
491224-013	Aroclor-1242	SVOA-GC06	B	09/05/23 13:46
491224-013	Aroclor-1248	SVOA-GC06	B	09/05/23 13:46
491224-013	Aroclor-1254	SVOA-GC06	B	09/05/23 13:46
491224-013	Aroclor-1260	SVOA-GC06	B	09/05/23 13:46
491224-013	Aroclor-1262	SVOA-GC06	B	09/05/23 13:46
491224-013	Aroclor-1268	SVOA-GC06	B	09/05/23 13:46
491224-013	TCMX (PCB)	SVOA-GC06	B	09/05/23 13:46
491224-013	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 13:46
491224-014	Aroclor-1016	SVOA-GC06	B	09/05/23 14:04
491224-014	Aroclor-1221	SVOA-GC06	B	09/05/23 14:04
491224-014	Aroclor-1232	SVOA-GC06	B	09/05/23 14:04
491224-014	Aroclor-1242	SVOA-GC06	B	09/05/23 14:04
491224-014	Aroclor-1248	SVOA-GC06	B	09/05/23 14:04
491224-014	Aroclor-1254	SVOA-GC06	B	09/05/23 14:04
491224-014	Aroclor-1260	SVOA-GC06	B	09/05/23 14:04
491224-014	Aroclor-1262	SVOA-GC06	B	09/05/23 14:04
491224-014	Aroclor-1268	SVOA-GC06	B	09/05/23 14:04
491224-014	TCMX (PCB)	SVOA-GC06	B	09/05/23 14:04
491224-014	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 14:04
491224-016	Aroclor-1016	SVOA-GC06	B	09/05/23 14:23
491224-016	Aroclor-1221	SVOA-GC06	B	09/05/23 14:23
491224-016	Aroclor-1232	SVOA-GC06	B	09/05/23 14:23
491224-016	Aroclor-1242	SVOA-GC06	B	09/05/23 14:23
491224-016	Aroclor-1248	SVOA-GC06	B	09/05/23 14:23
491224-016	Aroclor-1254	SVOA-GC06	B	09/05/23 14:23
491224-016	Aroclor-1260	SVOA-GC06	B	09/05/23 14:23
491224-016	Aroclor-1262	SVOA-GC06	B	09/05/23 14:23
491224-016	Aroclor-1268	SVOA-GC06	B	09/05/23 14:23

REPORTING SUMMARY FOR 491224 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
491224-016	TCMX (PCB)	SVOA-GC06	B	09/05/23 14:23
491224-016	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 14:23
491224-018	Aroclor-1016	SVOA-GC06	B	09/05/23 14:42
491224-018	Aroclor-1221	SVOA-GC06	B	09/05/23 14:42
491224-018	Aroclor-1232	SVOA-GC06	B	09/05/23 14:42
491224-018	Aroclor-1242	SVOA-GC06	B	09/05/23 14:42
491224-018	Aroclor-1248	SVOA-GC06	B	09/05/23 14:42
491224-018	Aroclor-1254	SVOA-GC06	B	09/05/23 14:42
491224-018	Aroclor-1260	SVOA-GC06	B	09/05/23 14:42
491224-018	Aroclor-1262	SVOA-GC06	B	09/05/23 14:42
491224-018	Aroclor-1268	SVOA-GC06	B	09/05/23 14:42
491224-018	TCMX (PCB)	SVOA-GC06	B	09/05/23 14:42
491224-018	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 14:42
491224-020	Aroclor-1016	SVOA-GC06	B	09/05/23 15:01
491224-020	Aroclor-1221	SVOA-GC06	B	09/05/23 15:01
491224-020	Aroclor-1232	SVOA-GC06	B	09/05/23 15:01
491224-020	Aroclor-1242	SVOA-GC06	B	09/05/23 15:01
491224-020	Aroclor-1248	SVOA-GC06	B	09/05/23 15:01
491224-020	Aroclor-1254	SVOA-GC06	B	09/05/23 15:01
491224-020	Aroclor-1260	SVOA-GC06	B	09/05/23 15:01
491224-020	Aroclor-1262	SVOA-GC06	B	09/05/23 15:01
491224-020	Aroclor-1268	SVOA-GC06	B	09/05/23 15:01
491224-020	TCMX (PCB)	SVOA-GC06	B	09/05/23 15:01
491224-020	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 15:01
491224-021	Aroclor-1016	SVOA-GC06	B	09/05/23 15:20
491224-021	Aroclor-1221	SVOA-GC06	B	09/05/23 15:20
491224-021	Aroclor-1232	SVOA-GC06	B	09/05/23 15:20
491224-021	Aroclor-1242	SVOA-GC06	B	09/05/23 15:20

REPORTING SUMMARY FOR 491224 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
491224-021	Aroclor-1248	SVOA-GC06	B	09/05/23 15:20
491224-021	Aroclor-1254	SVOA-GC06	B	09/05/23 15:20
491224-021	Aroclor-1260	SVOA-GC06	B	09/05/23 15:20
491224-021	Aroclor-1262	SVOA-GC06	B	09/05/23 15:20
491224-021	Aroclor-1268	SVOA-GC06	B	09/05/23 15:20
491224-021	TCMX (PCB)	SVOA-GC06	B	09/05/23 15:20
491224-021	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 15:20
491224-023	Aroclor-1016	SVOA-GC06	B	09/05/23 15:39
491224-023	Aroclor-1221	SVOA-GC06	B	09/05/23 15:39
491224-023	Aroclor-1232	SVOA-GC06	B	09/05/23 15:39
491224-023	Aroclor-1242	SVOA-GC06	B	09/05/23 15:39
491224-023	Aroclor-1248	SVOA-GC06	B	09/05/23 15:39
491224-023	Aroclor-1254	SVOA-GC06	B	09/05/23 15:39
491224-023	Aroclor-1260	SVOA-GC06	B	09/05/23 15:39
491224-023	Aroclor-1262	SVOA-GC06	B	09/05/23 15:39
491224-023	Aroclor-1268	SVOA-GC06	B	09/05/23 15:39
491224-023	TCMX (PCB)	SVOA-GC06	B	09/05/23 15:39
491224-023	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 15:39
QC1091264	Aroclor-1016	SVOA-GC06	B	09/05/23 11:13
QC1091264	Aroclor-1221	SVOA-GC06	B	09/05/23 11:13
QC1091264	Aroclor-1232	SVOA-GC06	B	09/05/23 11:13
QC1091264	Aroclor-1242	SVOA-GC06	B	09/05/23 11:13
QC1091264	Aroclor-1248	SVOA-GC06	B	09/05/23 11:13
QC1091264	Aroclor-1254	SVOA-GC06	B	09/05/23 11:13
QC1091264	Aroclor-1260	SVOA-GC06	B	09/05/23 11:13
QC1091264	Aroclor-1262	SVOA-GC06	B	09/05/23 11:13
QC1091264	Aroclor-1268	SVOA-GC06	B	09/05/23 11:13
QC1091264	TCMX (PCB)	SVOA-GC06	B	09/05/23 11:13
QC1091264	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 11:13

REPORTING SUMMARY FOR 491224 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC1091265	Aroclor-1016	SVOA-GC06	B	09/05/23 11:32
QC1091265	Aroclor-1260	SVOA-GC06	B	09/05/23 11:32
QC1091265	TCMX (PCB)	SVOA-GC06	B	09/05/23 11:32
QC1091265	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 11:32
QC1091266	Aroclor-1016	SVOA-GC06	B	09/05/23 11:52
QC1091266	Aroclor-1260	SVOA-GC06	B	09/05/23 11:52
QC1091266	TCMX (PCB)	SVOA-GC06	B	09/05/23 11:52
QC1091266	Decachlorobiphenyl (PCB)	SVOA-GC06	B	09/05/23 11:52

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-001	Client ID: ARCH-C8W-EXT-1 TO 2-230828-P-WF
Seqnum: 453357659013	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523013	Batch: 321684	Time: 05-SEP-2023 12:10
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	127.9	1.3 ^{FP} 1.3	1.3	2%	0.50		x u
Aroclor-1016 Peak # 1	B	107.1	1.07	0.61	55%			
Aroclor-1016 Peak # 2	B	121.1	1.21	1.25	3%			
Aroclor-1016 Peak # 3	B	77.67	0.78	1.26	47%			
Aroclor-1016 Peak # 4	B	13.91	0.14	2.84	181%			
Aroclor-1016 Peak # 5	B	319.8	3.20	0.30	166%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	39.34	ND	0.70	56%	0.50		u
Aroclor-1260 Peak # 1	B	20.17	0.20	1.05	136%			
Aroclor-1260 Peak # 2	B	15.42	0.15	1.22	155%			
Aroclor-1260 Peak # 3	B	17.83	0.18	ND				
Aroclor-1260 Peak # 4	B	138.4	1.38	0.68	68%			
Aroclor-1260 Peak # 5	B	4.943	0.05	0.56	168%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	41.63	0.5000	0.4163	83	19-121	u
Decachlorobiphenyl (PCB)	B	53.38	0.5000	0.5338	107	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	10769893	-14.84
1-bromo-2-nitrobenzene (PCB)	A	4899467	3997006	-18.42

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.38	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

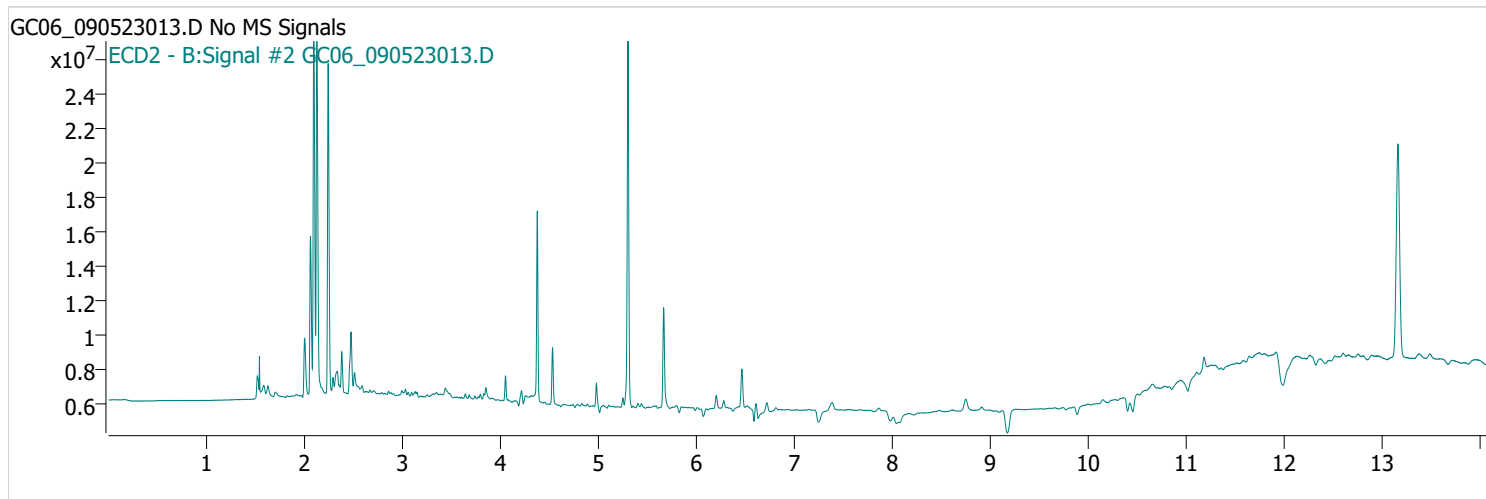
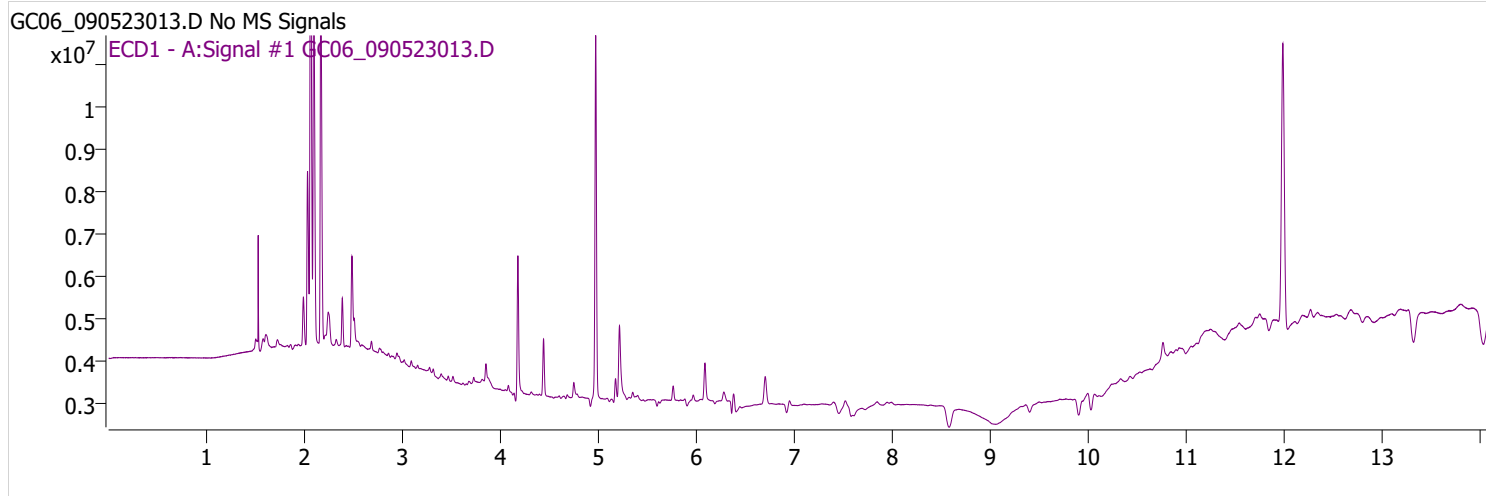
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523013.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 12:10:53 PM
Sample Name	491224-001, 321684, 1	Instrument	SVOA-GC06
Vial	4	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	3997006.30 3	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.375	0.0	10769893.2 35	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.971	0.0	9995611.92 3	46.9300	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 234.65%	*	
S TCMX (PCB) #2	5.300	0.0	23780664.5 24	41.6261	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 208.13%	*	
S Decachlorobiphenyl (PCB)	11.983	0.0	13695359.1 21	51.3480	ng/ml	0.007
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 256.74%	*	
S Decachlorobiphenyl (PCB) #2	13.158	0.0	30360237.5 37	53.3810	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 266.90%	*	

Target Compounds

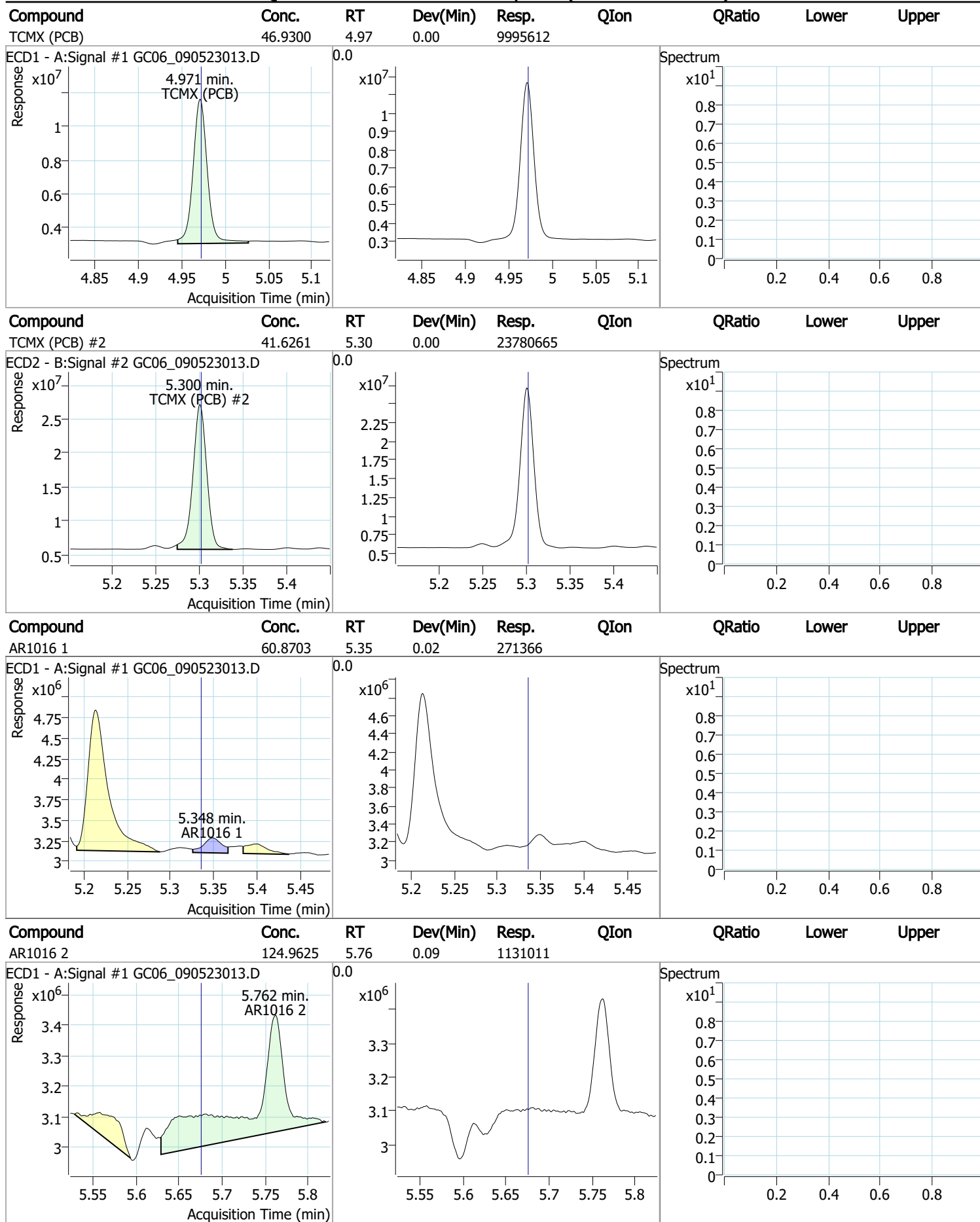
QValue

Quantitation Results Report (Not Reviewed)

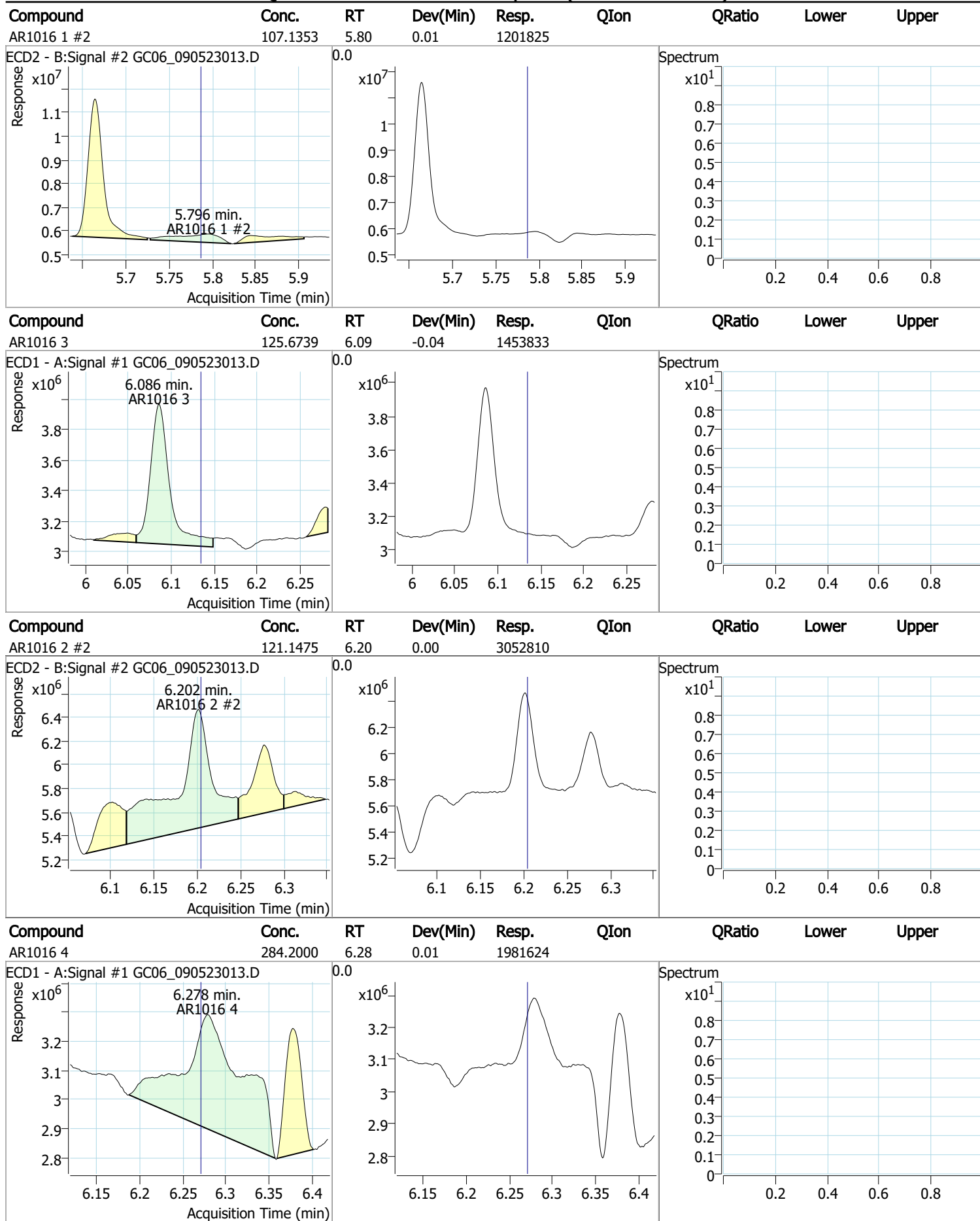
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.348	0.0	271366.264	60.8703	ng/ml	100
T AR1016 2	5.762	0.0	1131011.18 2	124.9625	ng/ml	100
T AR1016 1 #2	5.796	0.0	1201825.34 6	107.1353	ng/ml	100
T AR1016 3	6.086	0.0	1453833.02 9	125.6739	ng/ml	100
T AR1016 2 #2	6.202	0.0	3052810.35 2	121.1475	ng/ml	100
T AR1016 4	6.278	0.0	1981623.55 9	284.2000	ng/ml	100
T AR1016 5	6.443	0.0	160253.045	30.0510	ng/ml	100
T AR1016 3 #2	6.717	0.0	2355278.56 6	77.6758	ng/ml	100
T AR1016 4 #2	6.939	0.0	303534.011	13.9083	ng/ml	100
T AR1016 5 #2	7.145	0.0	3723286.65 5	319.8357	ng/ml	100
T AR1260 1	8.673	0.0	1388339.39 8	105.0362	ng/ml	100
T AR1260 2	9.229	0.0	2452050.28 0	121.5199	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.738	0.0	612501.700	20.1659	ng/ml	100
T AR1260 4	10.061	0.0	798376.329	67.9656	ng/ml	100
T AR1260 2 #2	10.147	0.0	527965.041	15.4172	ng/ml	100
T AR1260 3 #2	10.421	0.0	781512.242	17.8331	ng/ml	100
T AR1260 5	10.759	0.0	1046190.53 9	56.3262	ng/ml	100
T AR1260 4 #2	10.943	0.0	3541784.18 3	138.3664	ng/ml	100
T AR1260 5 #2	11.578	0.0	183409.998	4.9434	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

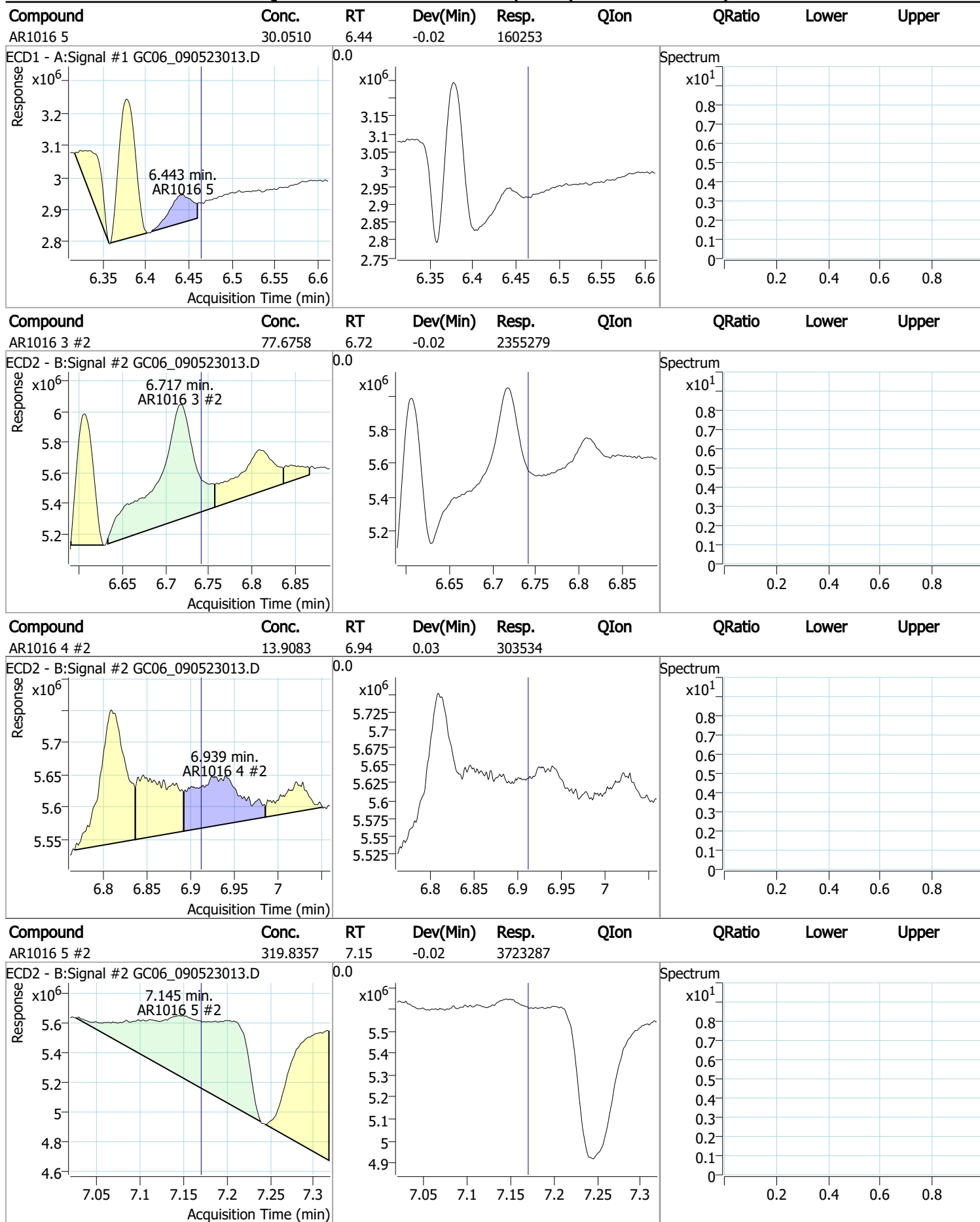
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



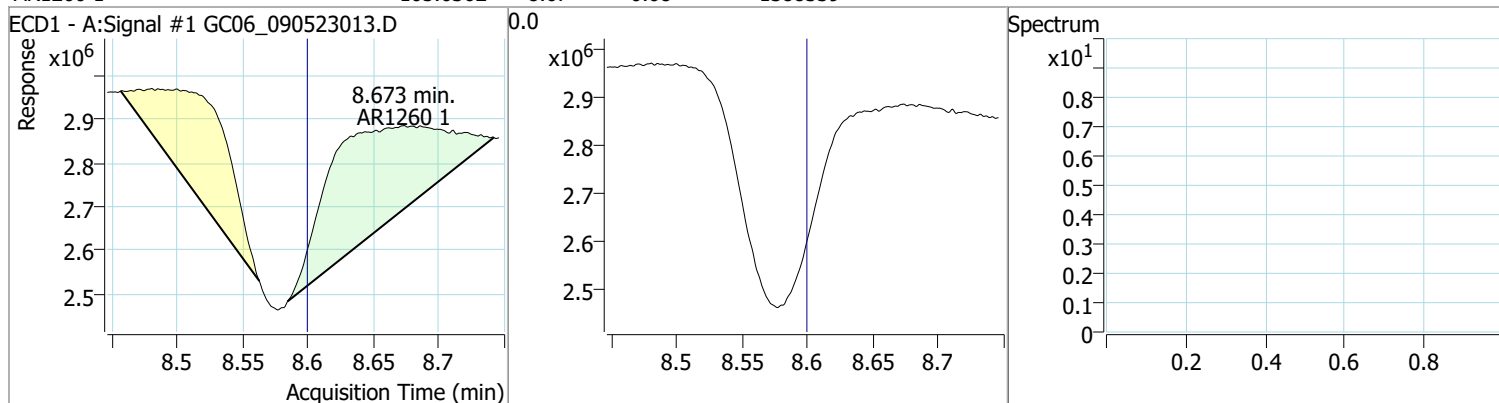
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

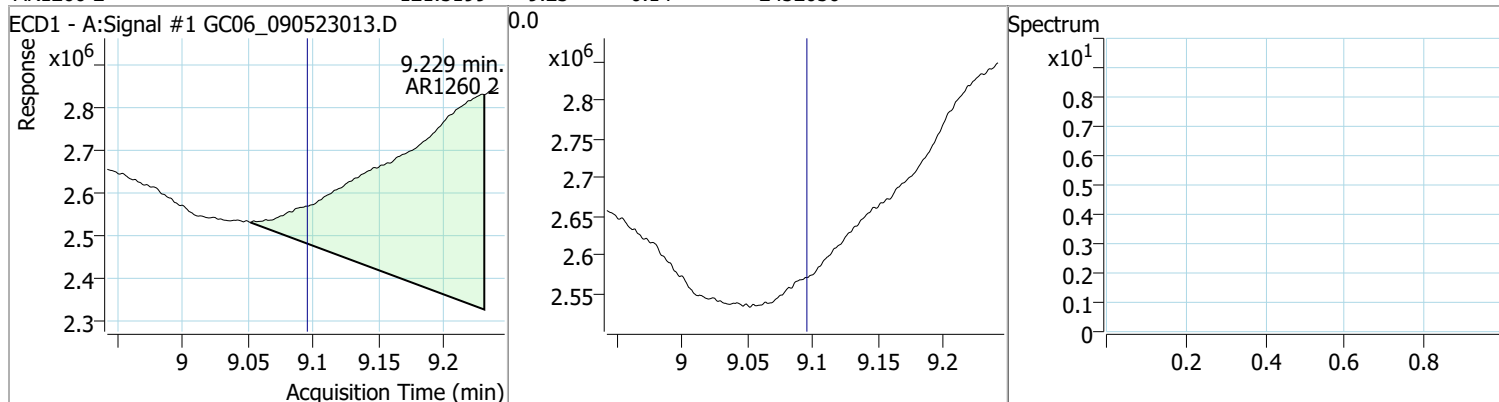
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 1 105.0362 8.67 0.08 1388339



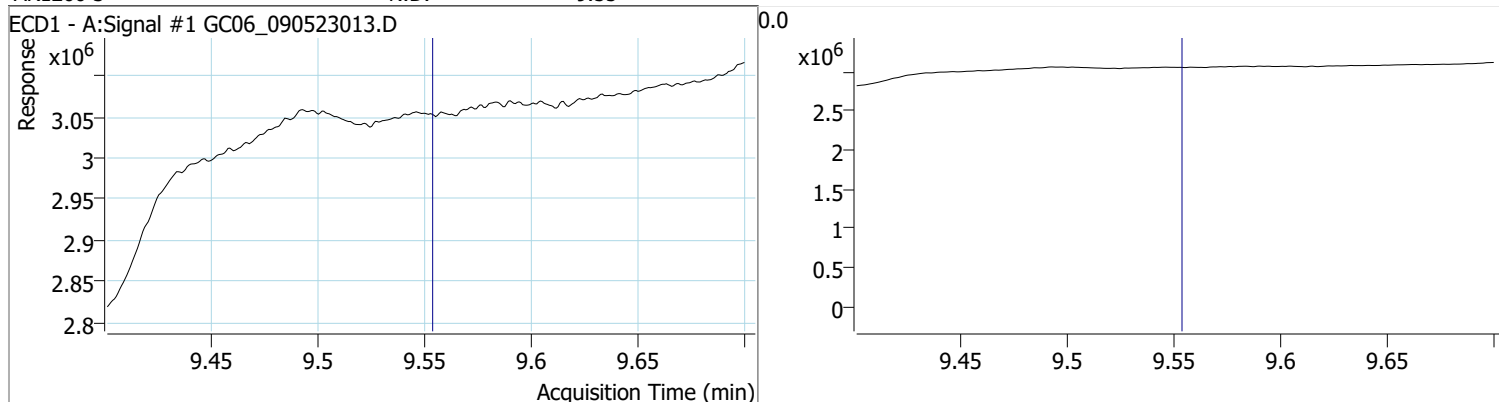
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 2 121.5199 9.23 0.14 2452050



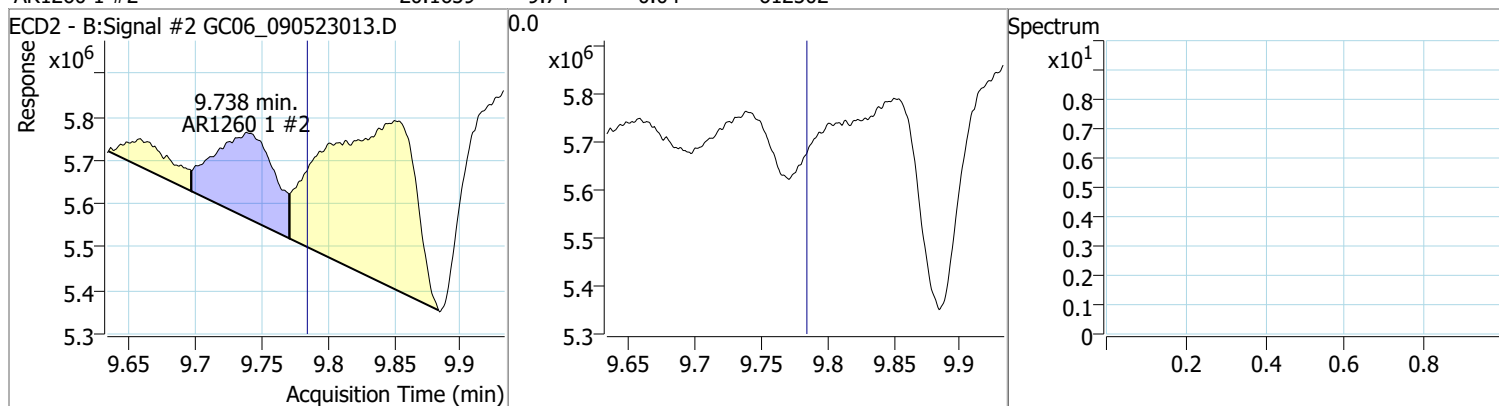
Compound	Conc.	Exp RT	QIon	Exp Ratio
----------	-------	--------	------	-----------

AR1260 3 N.D. 9.55

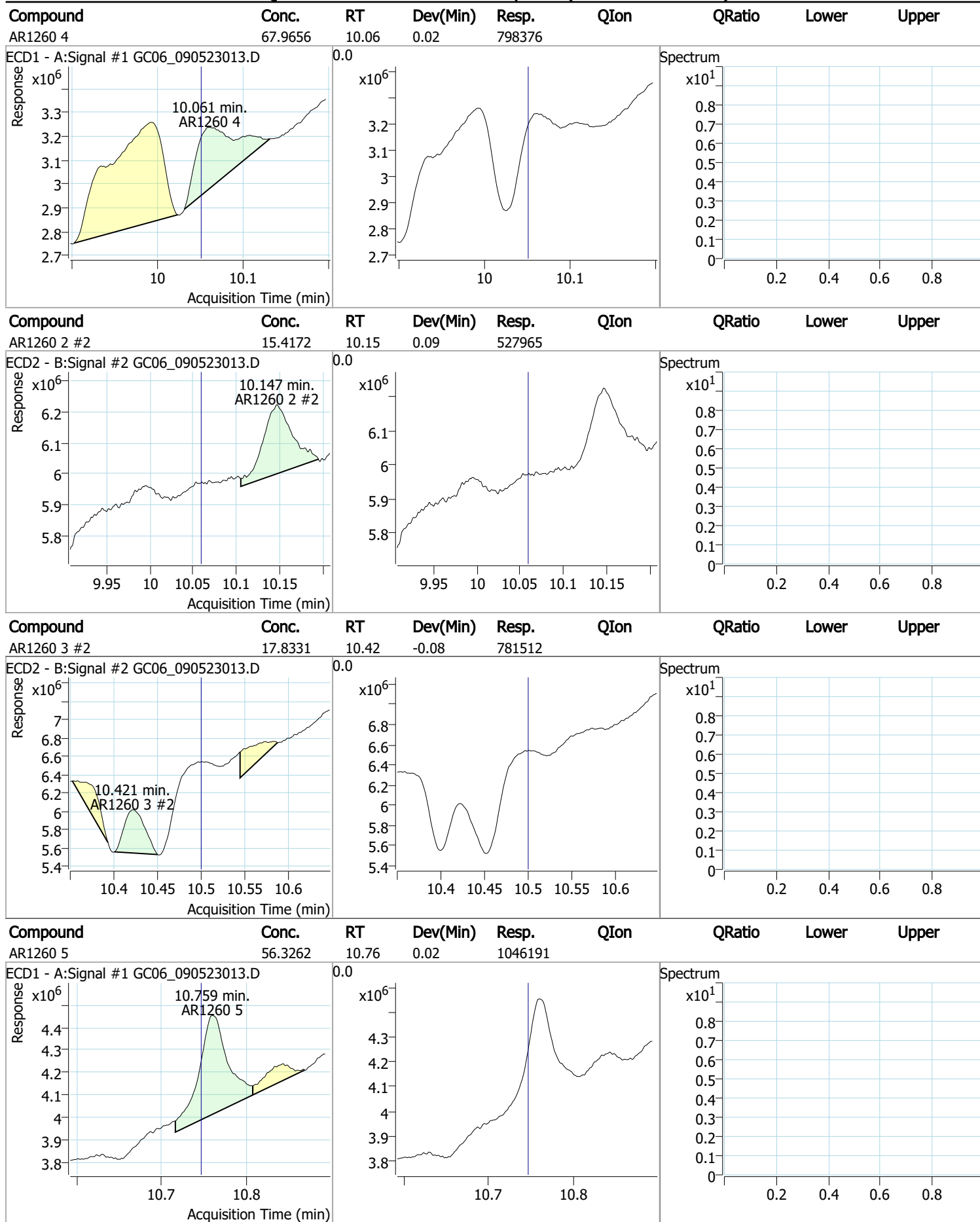


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 1 #2 20.1659 9.74 -0.04 612502

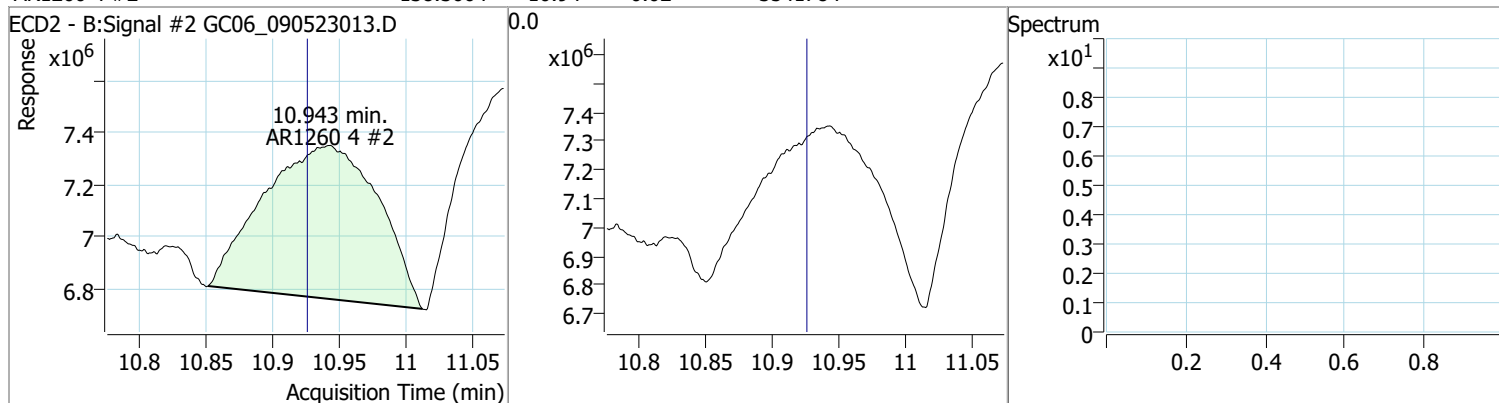


Quantitation Results Report (Not Reviewed)

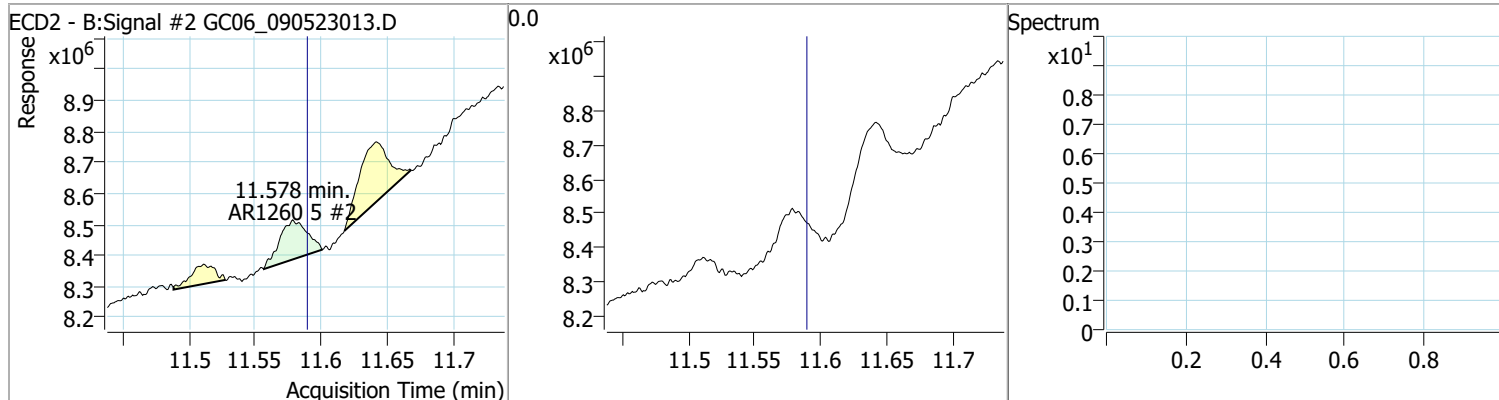


Quantitation Results Report (Not Reviewed)

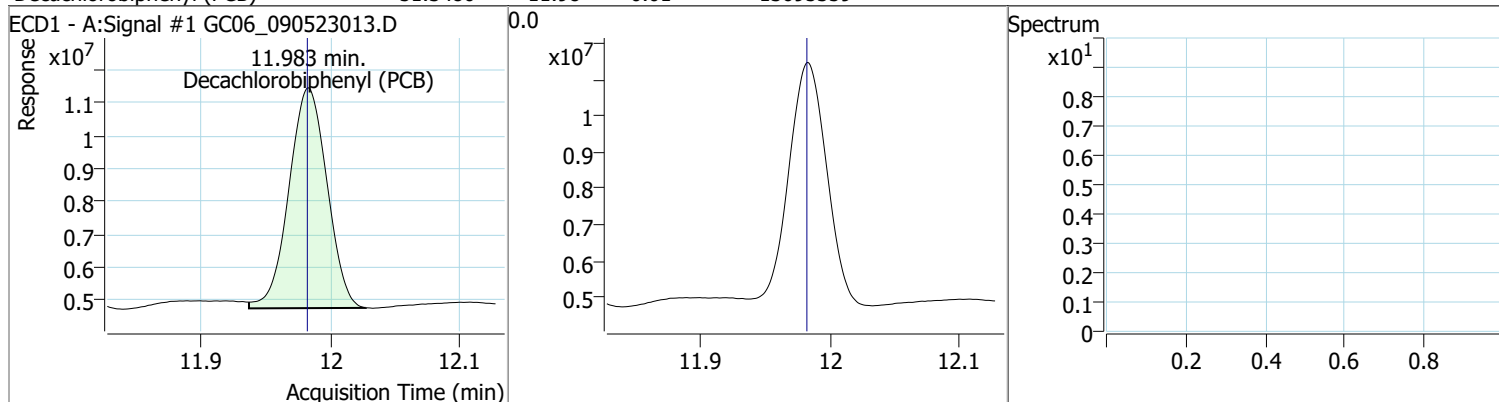
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	138.3664	10.94	0.02	3541784				



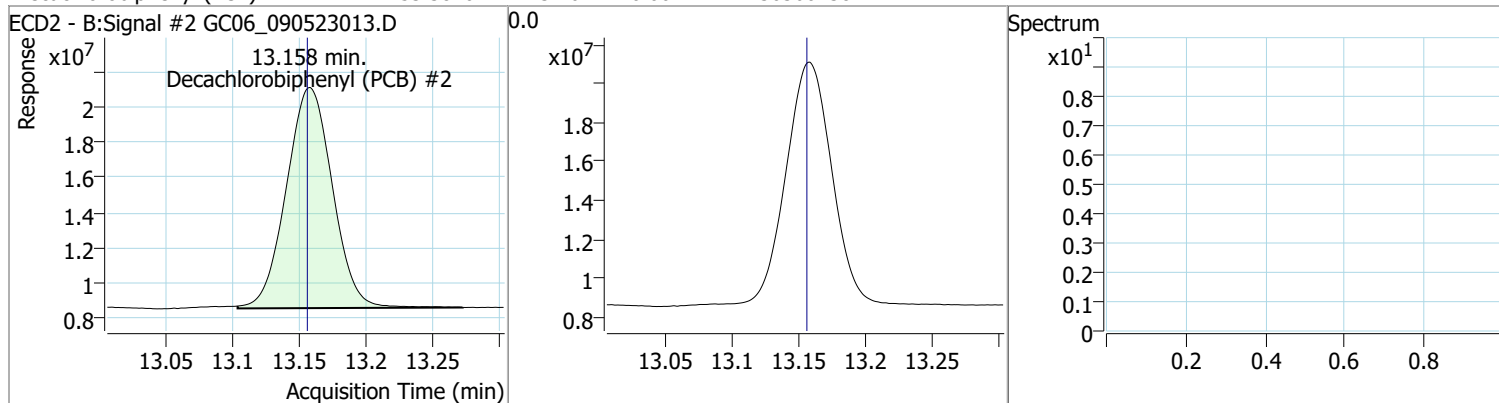
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	4.9434	11.58	-0.01	183410				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	51.3480	11.98	0.01	13695359				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	53.3810	13.16	0.00	30360238				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-003	Client ID: ARCH-C9W-EXT-1 TO 2-230828-P-WF
Seqnum: 453357659014	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523014	Batch: 321684	Time: 05-SEP-2023 12:29
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 ⇒ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	485.3	4.9 FP	4.7	2%	0.50		x u
Aroclor-1016 Peak # 1	B	1943	19.43	18.75	4%			
Aroclor-1016 Peak # 2	B	68.25	0.68	0.04	179%			
Aroclor-1016 Peak # 3	B	85.01	0.85	1.08	24%			
Aroclor-1016 Peak # 4	B	11.02	0.11	3.26	187%			
Aroclor-1016 Peak # 5	B	319.2	3.19	0.55	141%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	69.06	0.69 FP	1.2	51%	0.50		x u
Aroclor-1260 Peak # 1	B	76.54	0.77	4.56	143%			
Aroclor-1260 Peak # 2	B	14.31	0.14	0.01	173%			
Aroclor-1260 Peak # 3	B	17.94	0.18	ND				
Aroclor-1260 Peak # 4	B	229.4	2.29	0.59	118%			
Aroclor-1260 Peak # 5	B	7.133	0.07	0.63	159%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	38.96	0.5000	0.3896	78	19-121	u
Decachlorobiphenyl (PCB)	B	42.34	0.5000	0.4234	85	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	9967845	-21.18
1-bromo-2-nitrobenzene (PCB)	A	4899467	3744033	-23.58

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.37	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

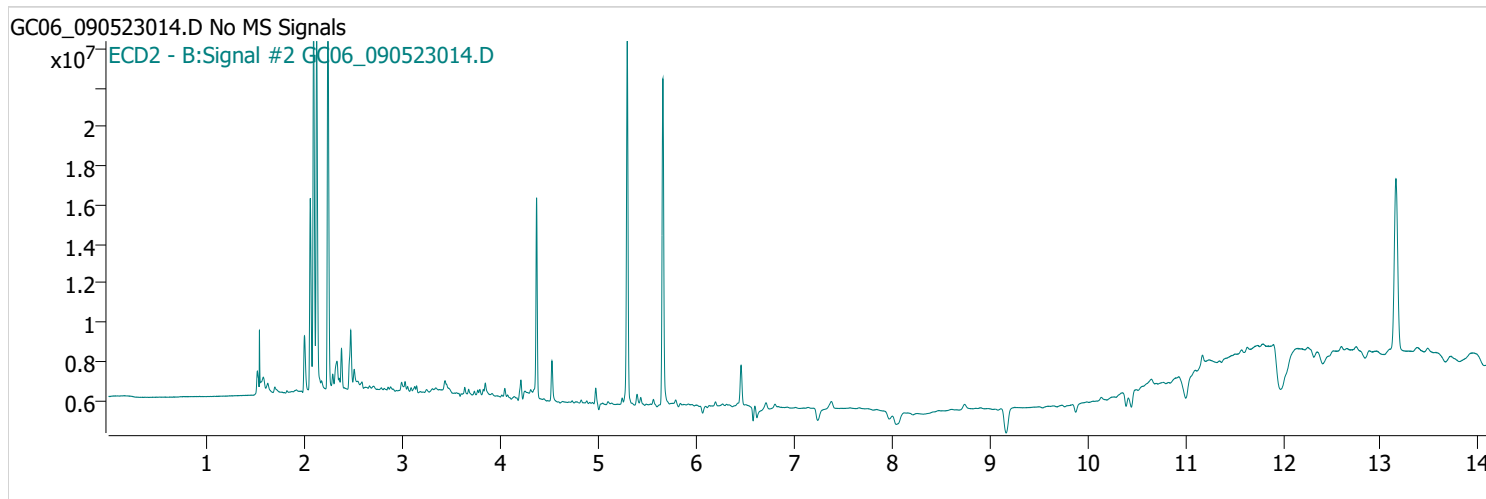
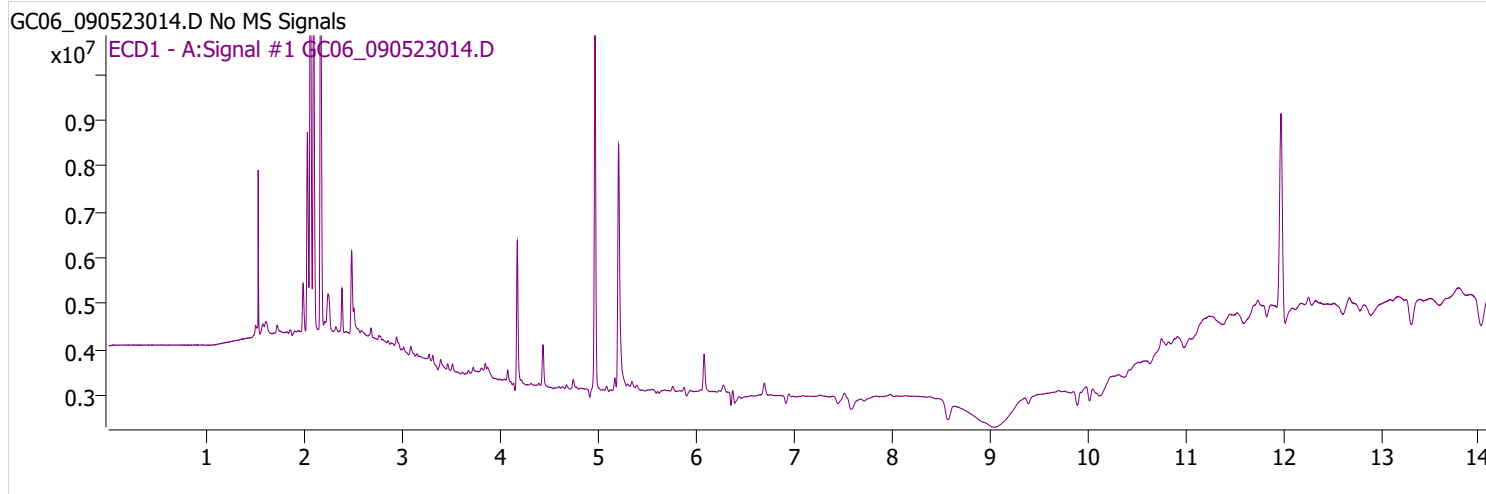
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523014.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 12:29:35 PM
Sample Name	491224-003, 321684, 1	Instrument	SVOA-GC06
Vial	5	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	3744032.66 3	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.374	0.0	9967845.38 5	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.971	0.0	8768681.43 9	43.9512	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 219.76%	*	
S TCMX (PCB) #2	5.301	0.0	20600779.1 86	38.9615	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 194.81%	*	
S Decachlorobiphenyl (PCB)	11.980	0.0	9249282.02 7	37.0214	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 185.11%	*	
S Decachlorobiphenyl (PCB) #2	13.155	0.0	22286614.5 51	42.3385	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 211.69%	*	

Target Compounds

GC06_090523014.D

QValue

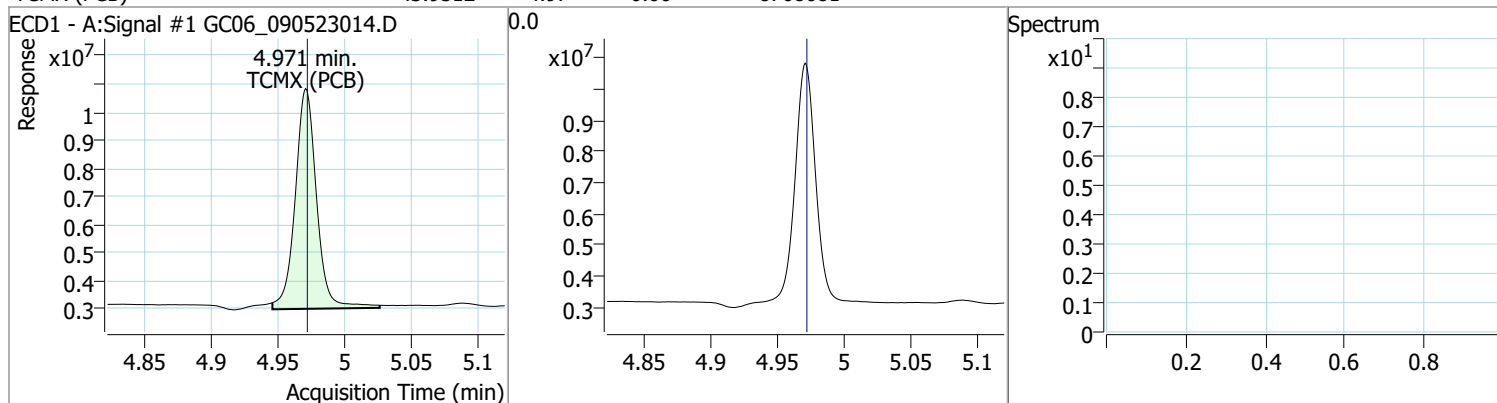
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.212	0.0	7828230.57 7	1874.5999	ng/ml	100
T AR1016 2	5.609	0.0	31504.946	3.7161	ng/ml	100
T AR1016 1 #2	5.665	0.0	20172627.5 25	1942.9592	ng/ml	100
T AR1016 3	6.085	0.0	1168314.35 9	107.8165	ng/ml	100
T AR1016 2 #2	6.203	0.0	1591881.87 9	68.2551	ng/ml	100
T AR1016 4	6.283	0.0	2129077.36 0	325.9790	ng/ml	100
T AR1016 5	6.444	0.0	276715.341	55.3964	ng/ml	100
T AR1016 3 #2	6.718	0.0	2385773.14 4	85.0125	ng/ml	100
T AR1016 4 #2	6.937	0.0	222646.581	11.0228	ng/ml	100
T AR1016 5 #2	7.151	0.0	3438913.59 5	319.1771	ng/ml	100
T AR1260 1	8.643	0.0	5650838.55 0	456.4061	ng/ml	100
T AR1260 2	8.955	0.0	19538.319	1.0337	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.853	0.0	2151666.85 3	76.5412	ng/ml	100
T AR1260 4	10.053	0.0	653592.073	59.3996	ng/ml	100
T AR1260 2 #2	10.142	0.0	453490.269	14.3080	ng/ml	100
T AR1260 3 #2	10.420	0.0	727706.518	17.9415	ng/ml	100
T AR1260 5	10.761	0.0	1101124.95 7	63.2895	ng/ml	100
T AR1260 4 #2	10.934	0.0	5434643.37 0	229.3980	ng/ml	100
T AR1260 5 #2	11.577	0.0	244954.484	7.1335	ng/ml	100

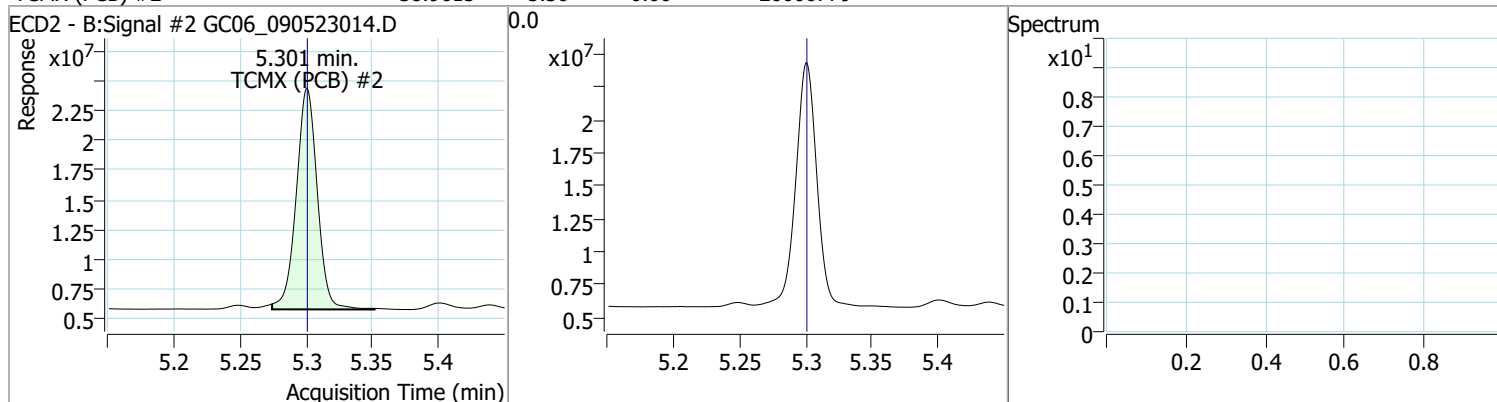
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

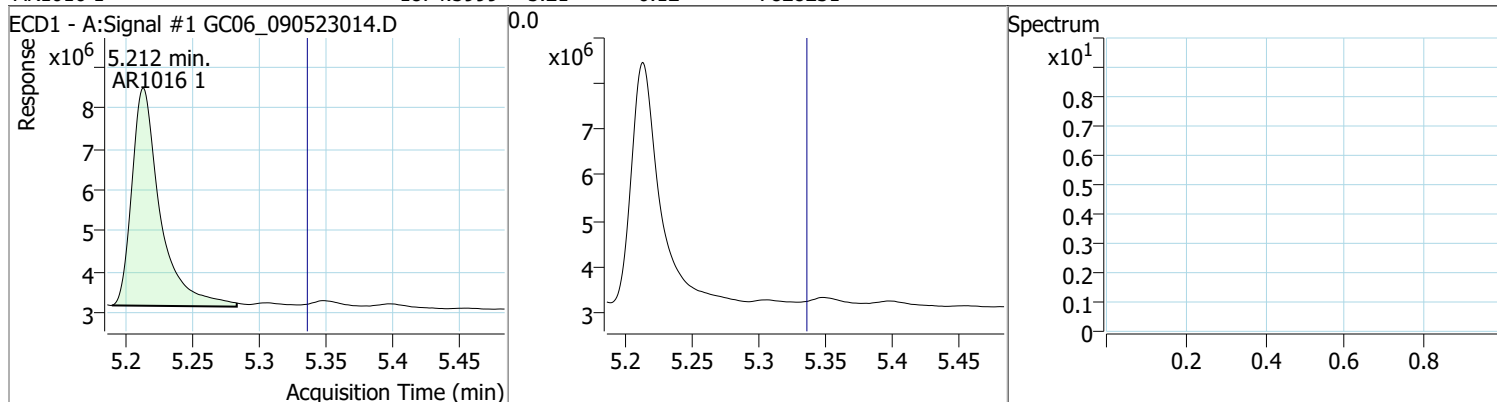
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	43.9512	4.97	0.00	8768681				



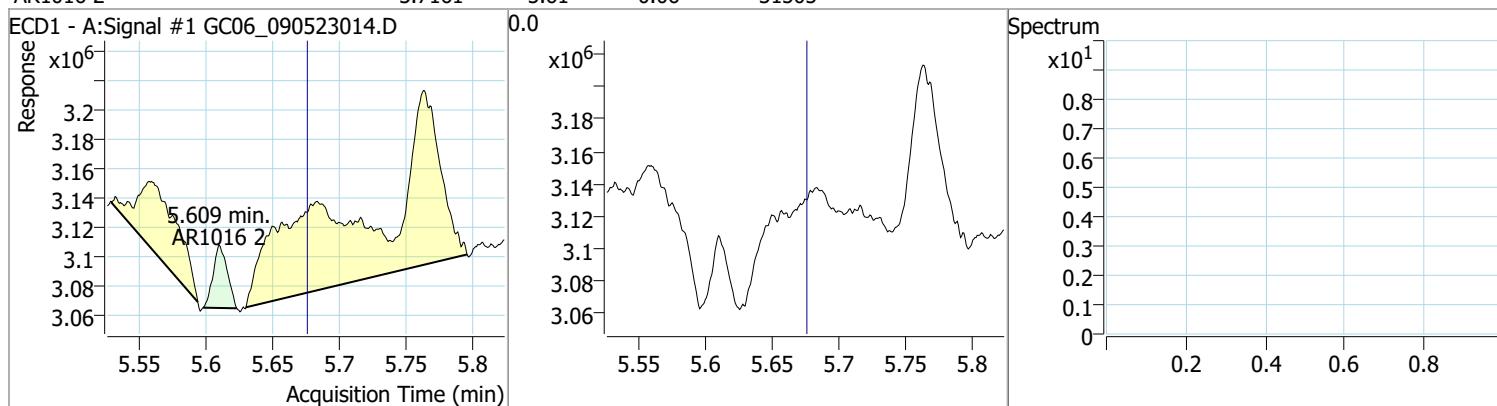
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	38.9615	5.30	0.00	20600779				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1874.5999	5.21	-0.12	7828231				



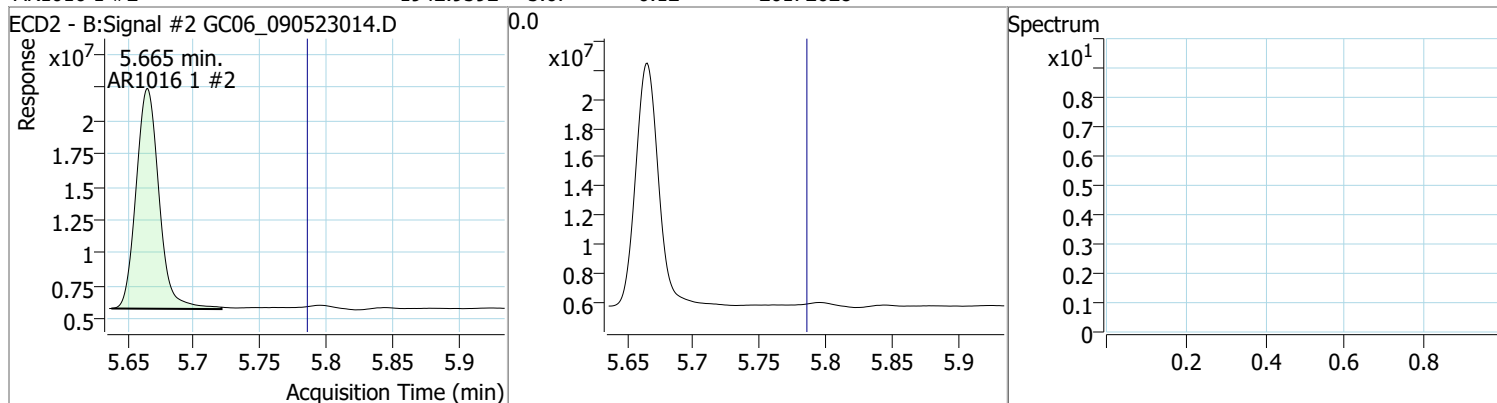
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	3.7161	5.61	-0.06	31505				



Quantitation Results Report (Not Reviewed)

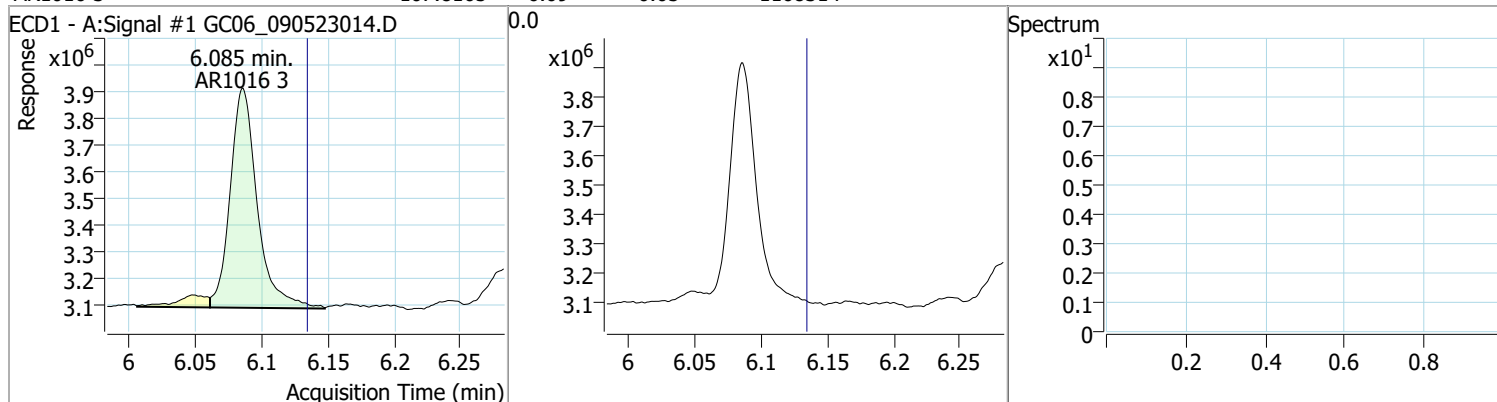
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 1 #2 1942.9592 5.67 -0.12 20172628



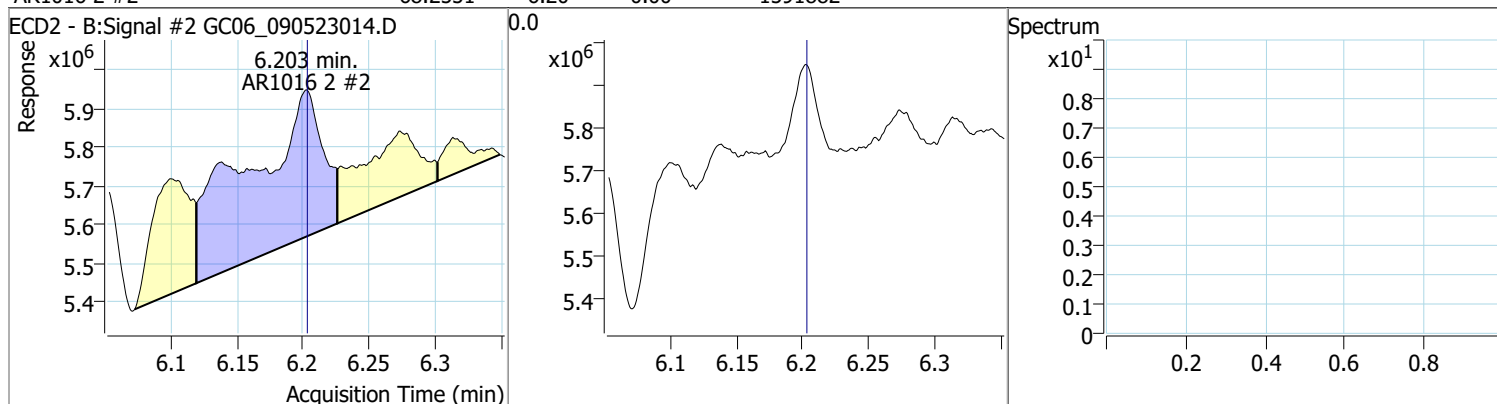
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 3 107.8165 6.09 -0.05 1168314



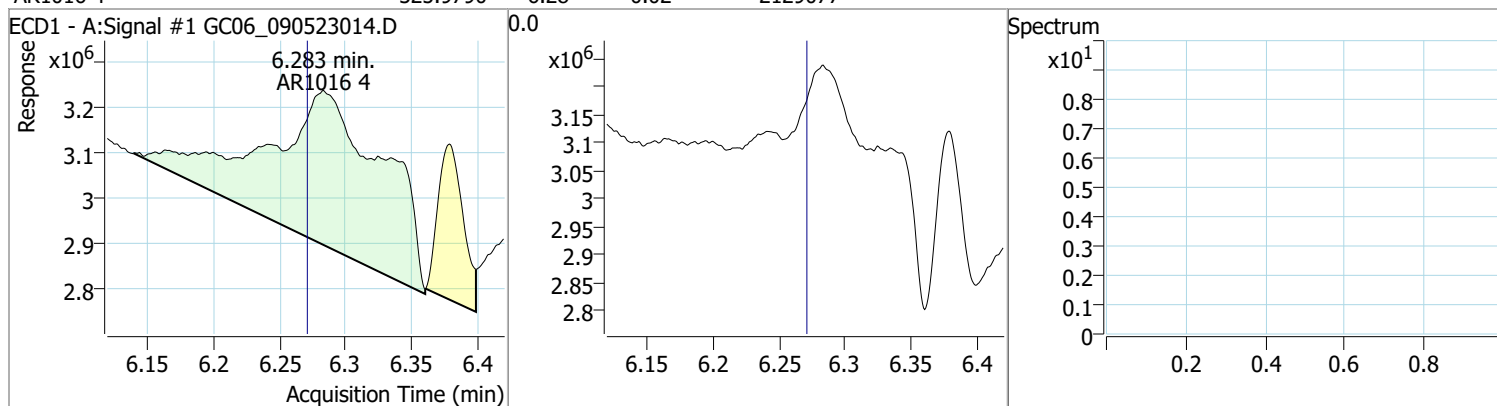
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 2 #2 68.2551 6.20 0.00 1591882

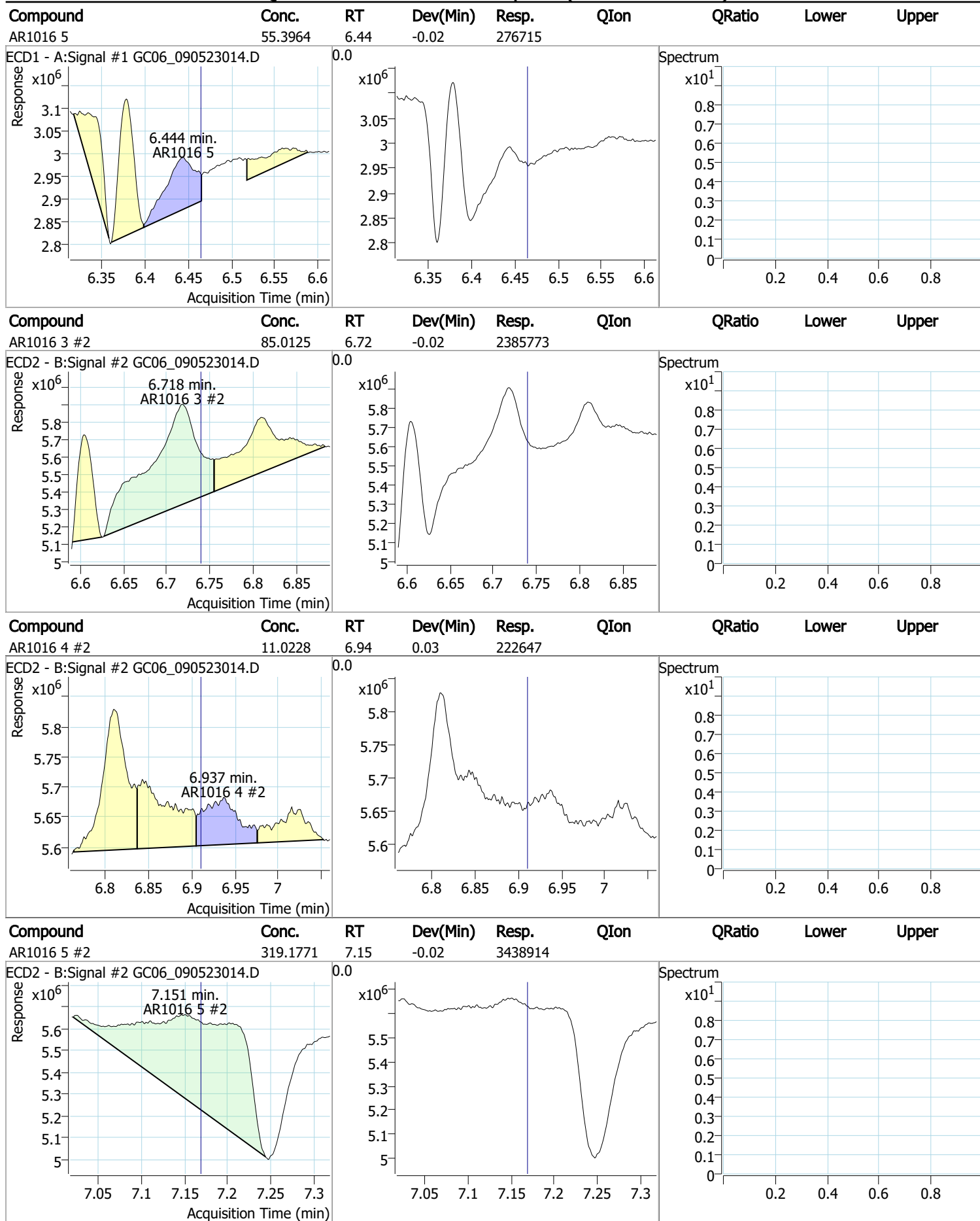


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 4 325.9790 6.28 0.02 2129077

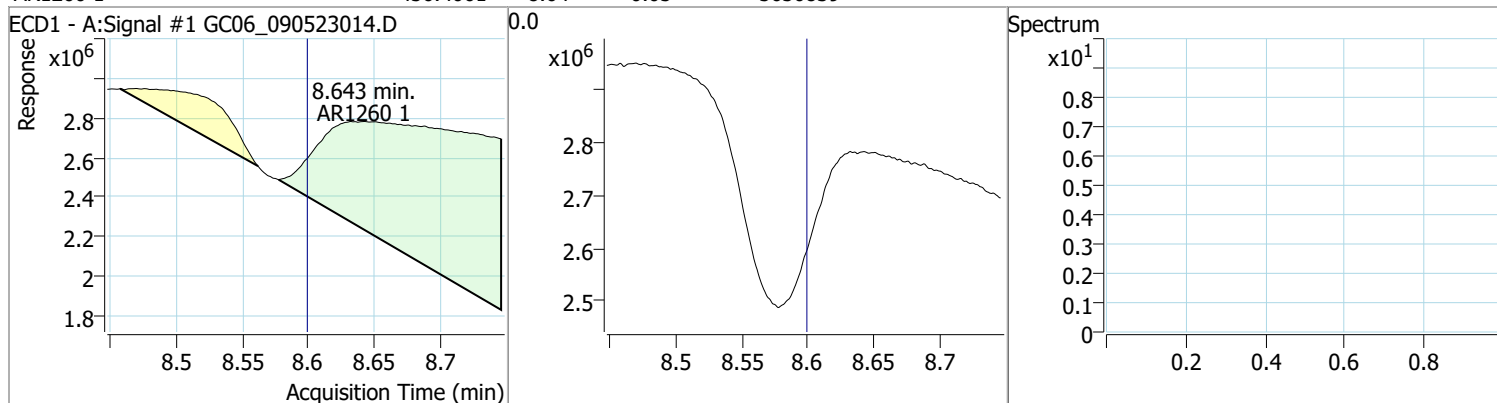


Quantitation Results Report (Not Reviewed)

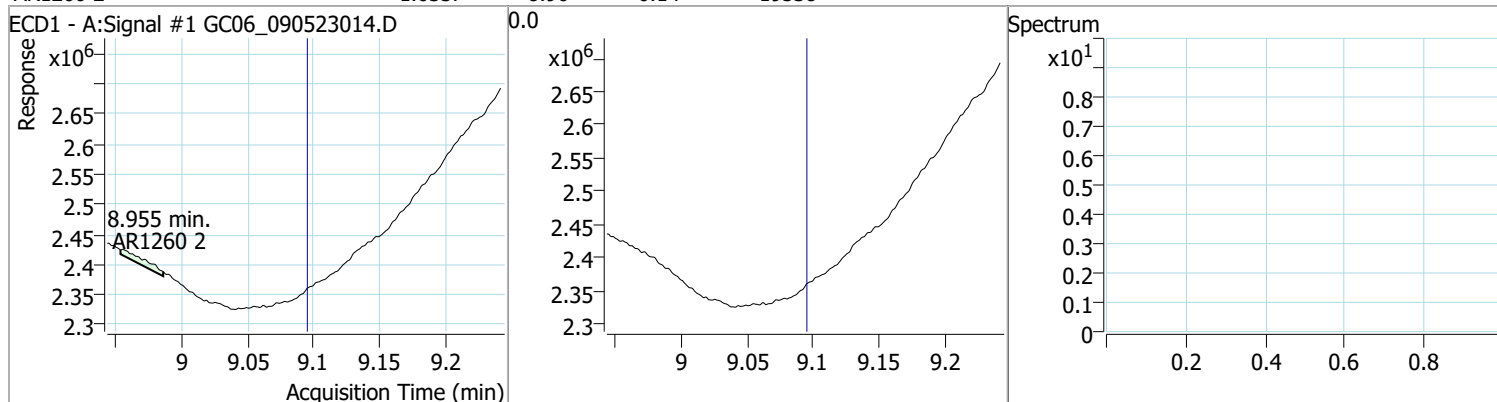


Quantitation Results Report (Not Reviewed)

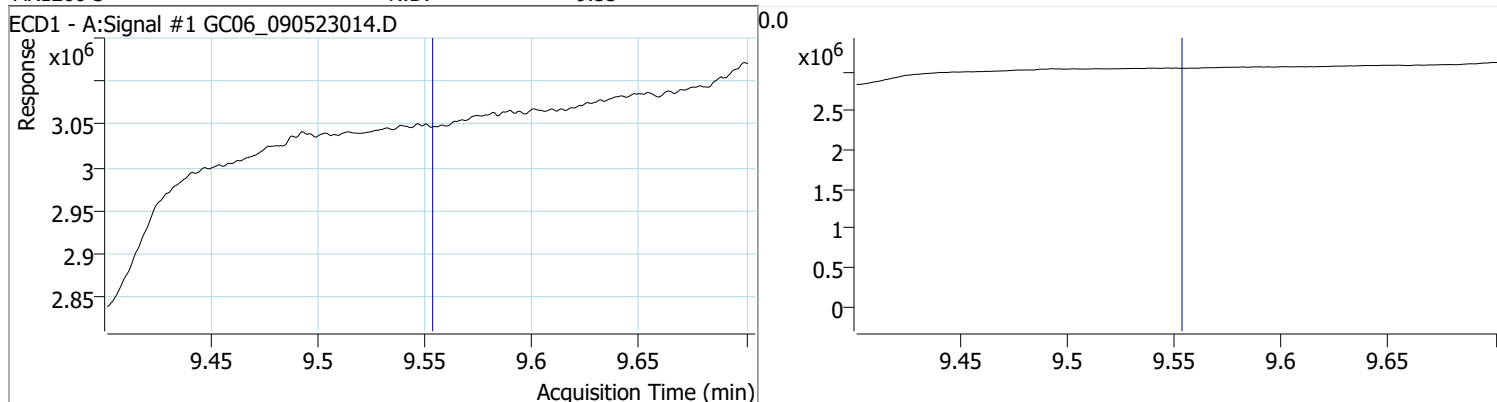
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	456.4061	8.64	0.05	5650839				



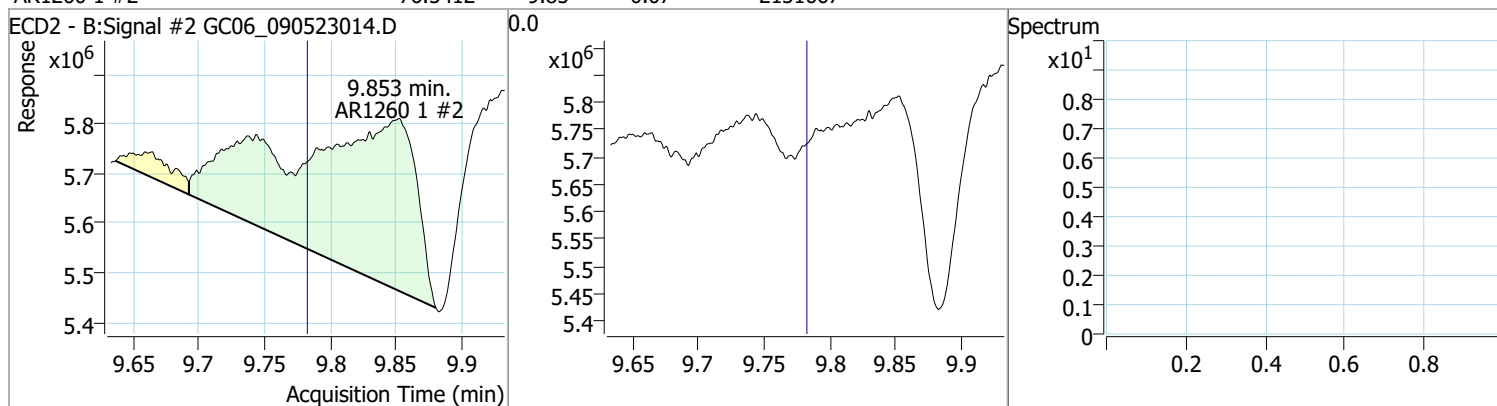
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1.0337	8.96	-0.14	19538				



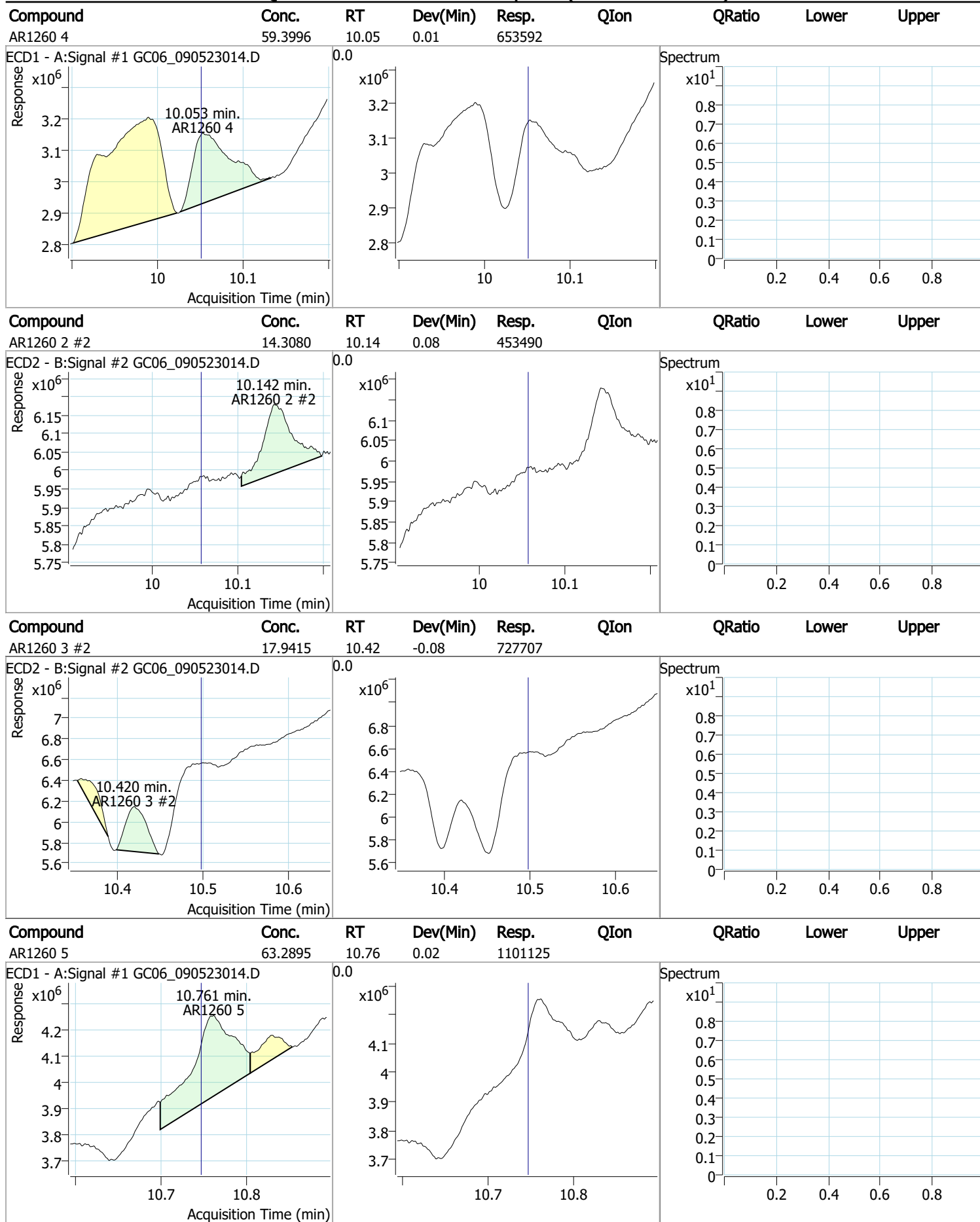
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.55		



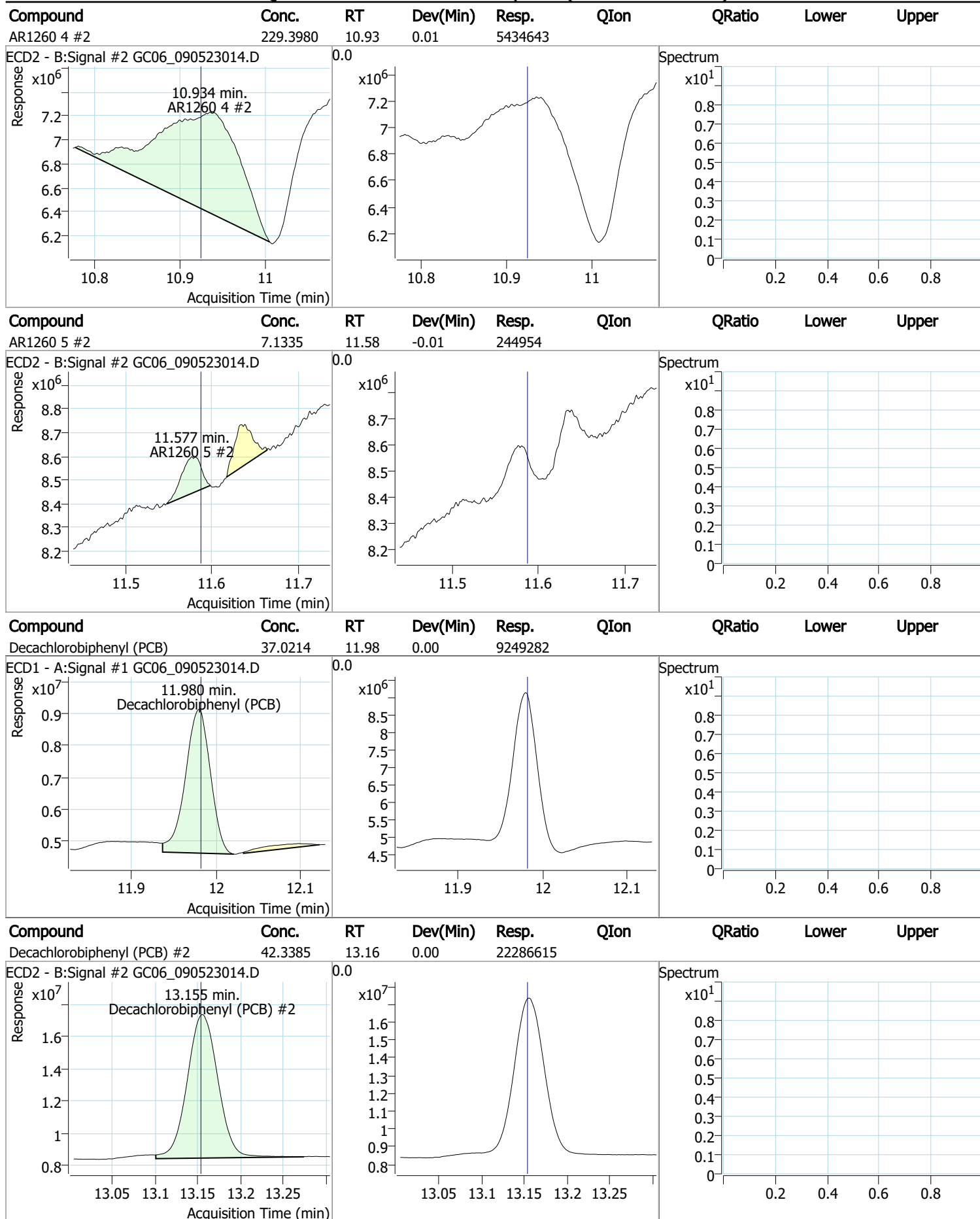
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	76.5412	9.85	0.07	2151667				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-006	Client ID: ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-P-LA
Seqnum: 453357659015	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523015	Batch: 321684	Time: 05-SEP-2023 12:48
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	88.82	0.89 FP	1.0	16%	0.50		x u
Aroclor-1016 Peak # 1	B	43.06	0.43	0.54	23%			
Aroclor-1016 Peak # 2	B	109.1	1.09	0.35	102%			
Aroclor-1016 Peak # 3	B	88.02	0.88	0.85	4%			
Aroclor-1016 Peak # 4	B	10.01	0.10	2.94	187%			
Aroclor-1016 Peak # 5	B	193.9	1.94	0.53	114%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	58.68	0.59 FP	0.40	37%	0.50		x u
Aroclor-1260 Peak # 1	B	21.82	0.22	0.97	127%			
Aroclor-1260 Peak # 2	B	4.804	0.05	0.07	35%			
Aroclor-1260 Peak # 3	B	6.849	0.07	ND				
Aroclor-1260 Peak # 4	B	247.2	2.47	0.56	126%			
Aroclor-1260 Peak # 5	B	12.75	0.13	0.41	106%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	38.53	0.5000	0.3853	77	19-121	u
Decachlorobiphenyl (PCB)	B	47.56	0.5000	0.4756	95	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	9218208	-27.11
1-bromo-2-nitrobenzene (PCB)	A	4899467	3658924	-25.32

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.38	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

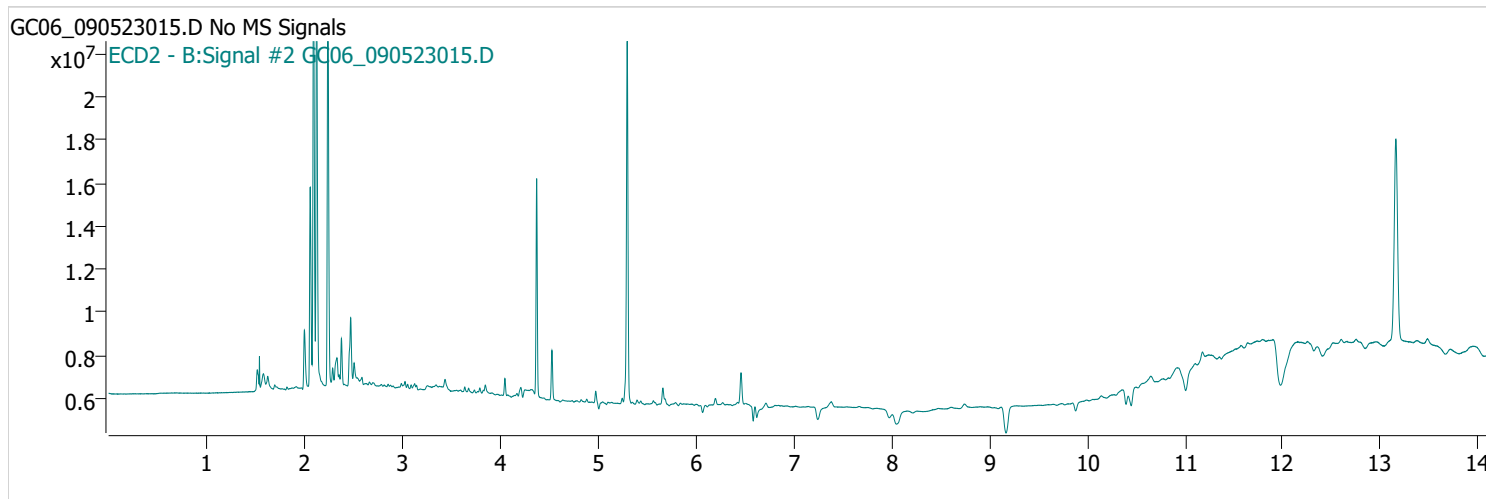
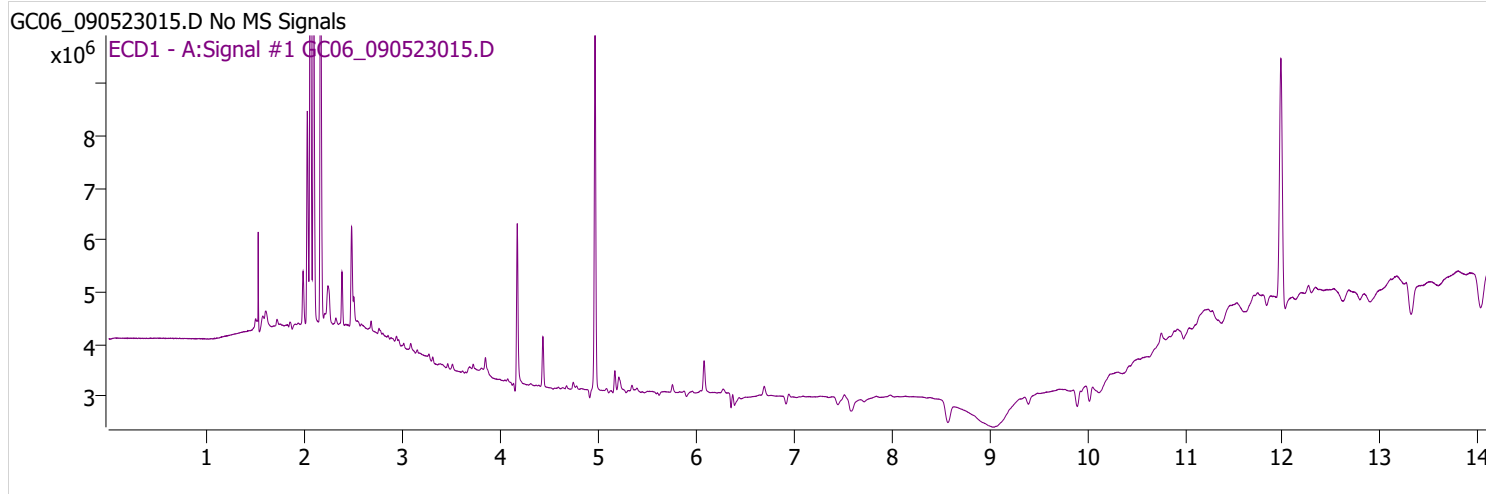
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523015.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 12:48:31 PM
Sample Name	491224-006, 321684, 1	Instrument	SVOA-GC06
Vial	6	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	3658923.71 9	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.375	0.0	9218208.24 1	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.972	0.0	7872333.84 1	40.3763	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 201.88%	*	
S TCMX (PCB) #2	5.300	0.0	18842423.4 90	38.5339	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 192.67%	*	
S Decachlorobiphenyl (PCB)	11.981	0.0	9761471.63 7	39.9804	ng/ml	0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 199.90%	*	
S Decachlorobiphenyl (PCB) #2	13.156	0.0	23150873.7 62	47.5569	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 237.78%	*	

Target Compounds

QValue

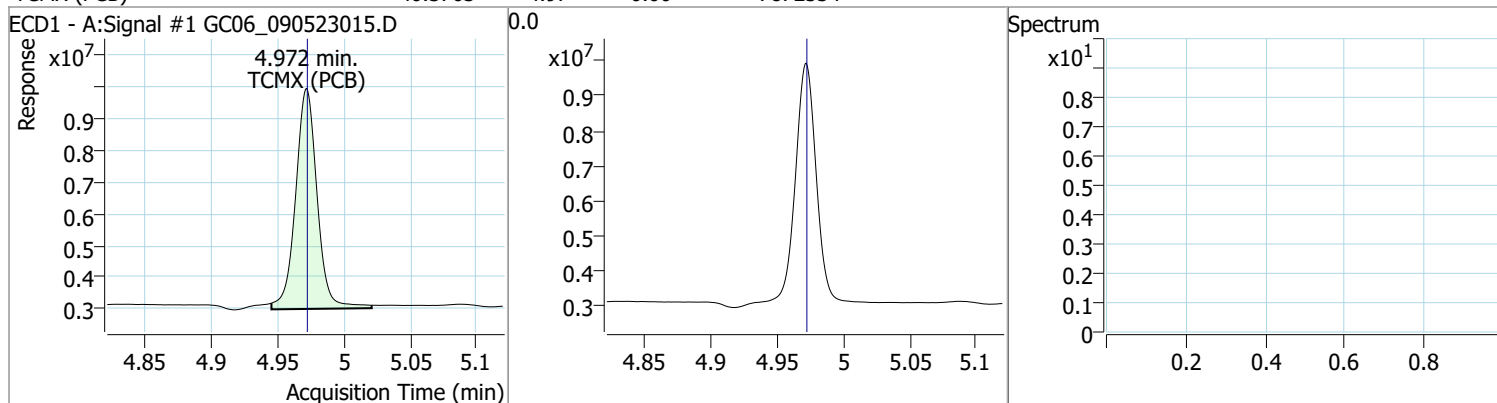
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.348	0.0	221681.212	54.3200	ng/ml	100
T AR1016 2	5.683	0.0	293009.379	35.3652	ng/ml	100
T AR1016 1 #2	5.794	0.0	413469.078	43.0625	ng/ml	100
T AR1016 3	6.086	0.0	899408.124	84.9315	ng/ml	100
T AR1016 2 #2	6.203	0.0	2352503.68 2	109.0711	ng/ml	100
T AR1016 4	6.280	0.0	1876436.64 9	293.9804	ng/ml	100
T AR1016 5	6.378	0.0	260242.653	53.3105	ng/ml	100
T AR1016 3 #2	6.717	0.0	2284416.00 2	88.0204	ng/ml	100
T AR1016 4 #2	6.935	0.0	186957.991	10.0086	ng/ml	100
T AR1016 5 #2	7.316	0.0	1932515.69 8	193.9493	ng/ml	100
T AR1260 1	8.640	0.0	1177906.72 8	97.3500	ng/ml	100
T AR1260 2	9.236	0.0	125923.124	6.8172	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.739	0.0	567312.222	21.8221	ng/ml	100
T AR1260 4	10.058	0.0	598981.123	55.7027	ng/ml	100
T AR1260 2 #2	10.058	0.0	140822.900	4.8044	ng/ml	100
T AR1260 3 #2	10.563	0.0	256924.492	6.8496	ng/ml	100
T AR1260 5	10.759	0.0	700836.478	41.2190	ng/ml	100
T AR1260 4 #2	10.923	0.0	5415446.31 0	247.1768	ng/ml	100
T AR1260 5 #2	11.572	0.0	404763.819	12.7459	ng/ml	100

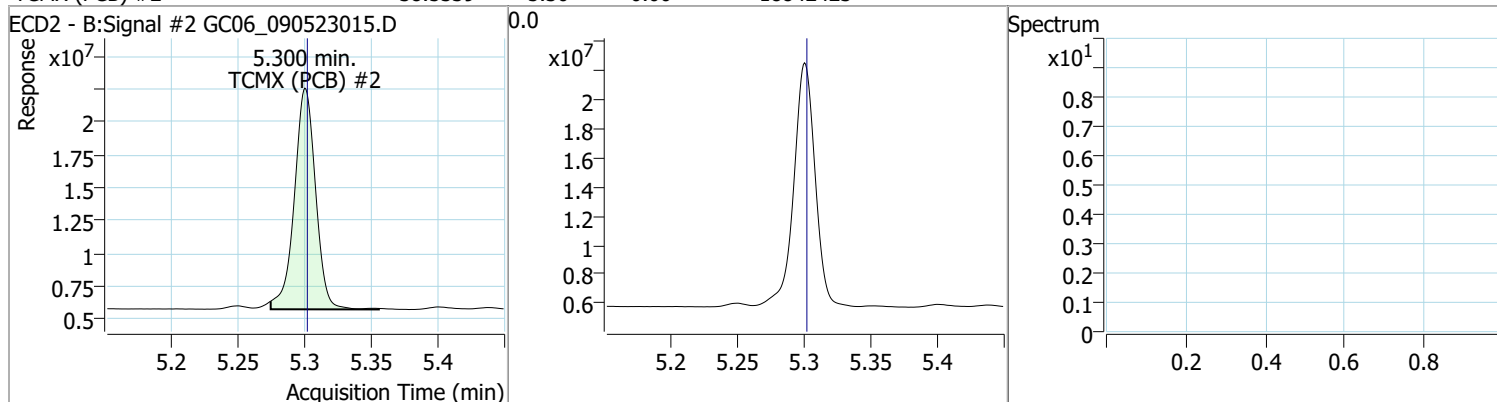
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

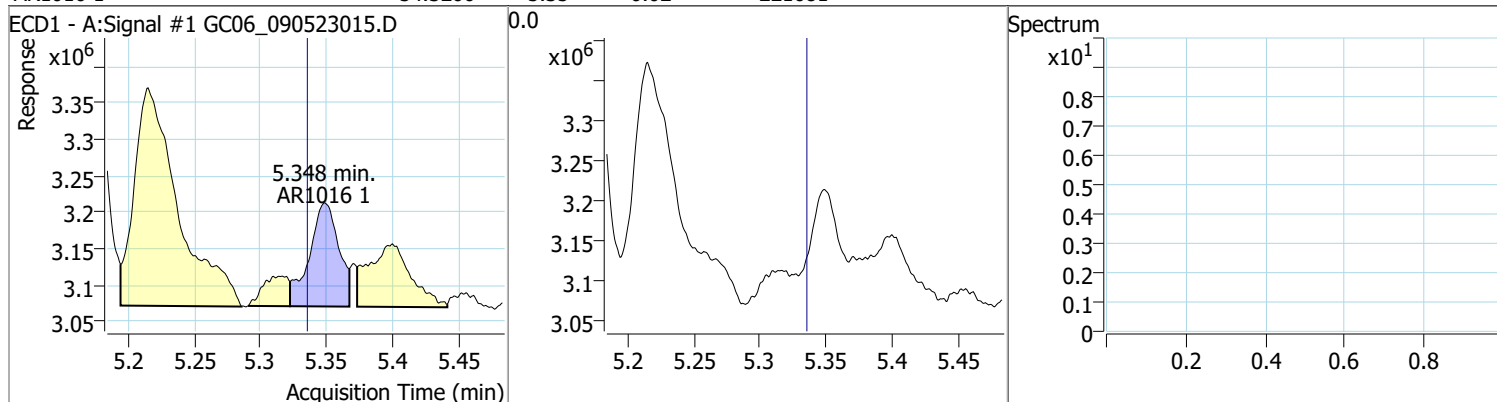
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	40.3763	4.97	0.00	7872334				



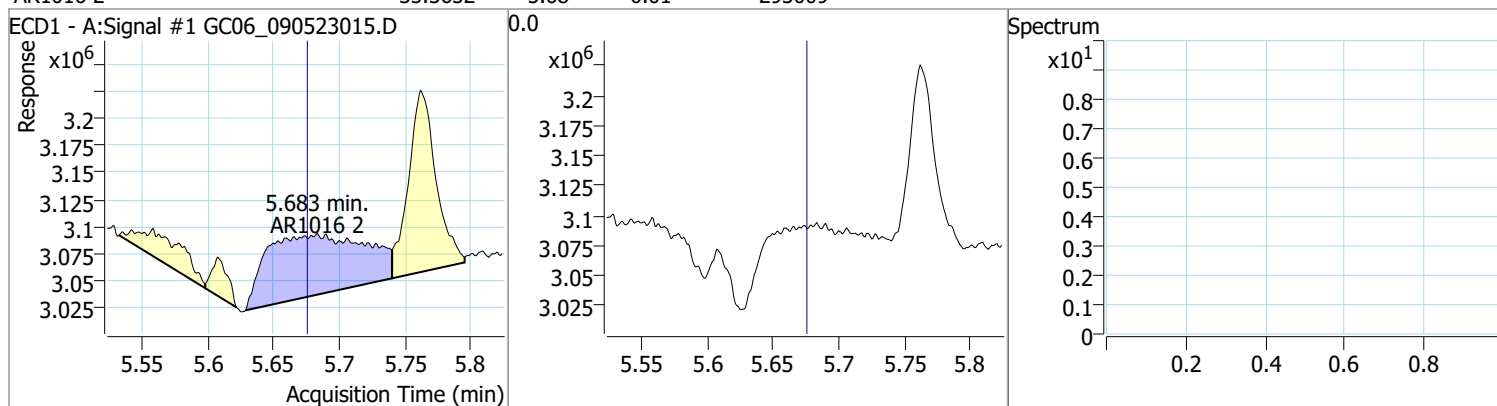
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	38.5339	5.30	0.00	18842423				



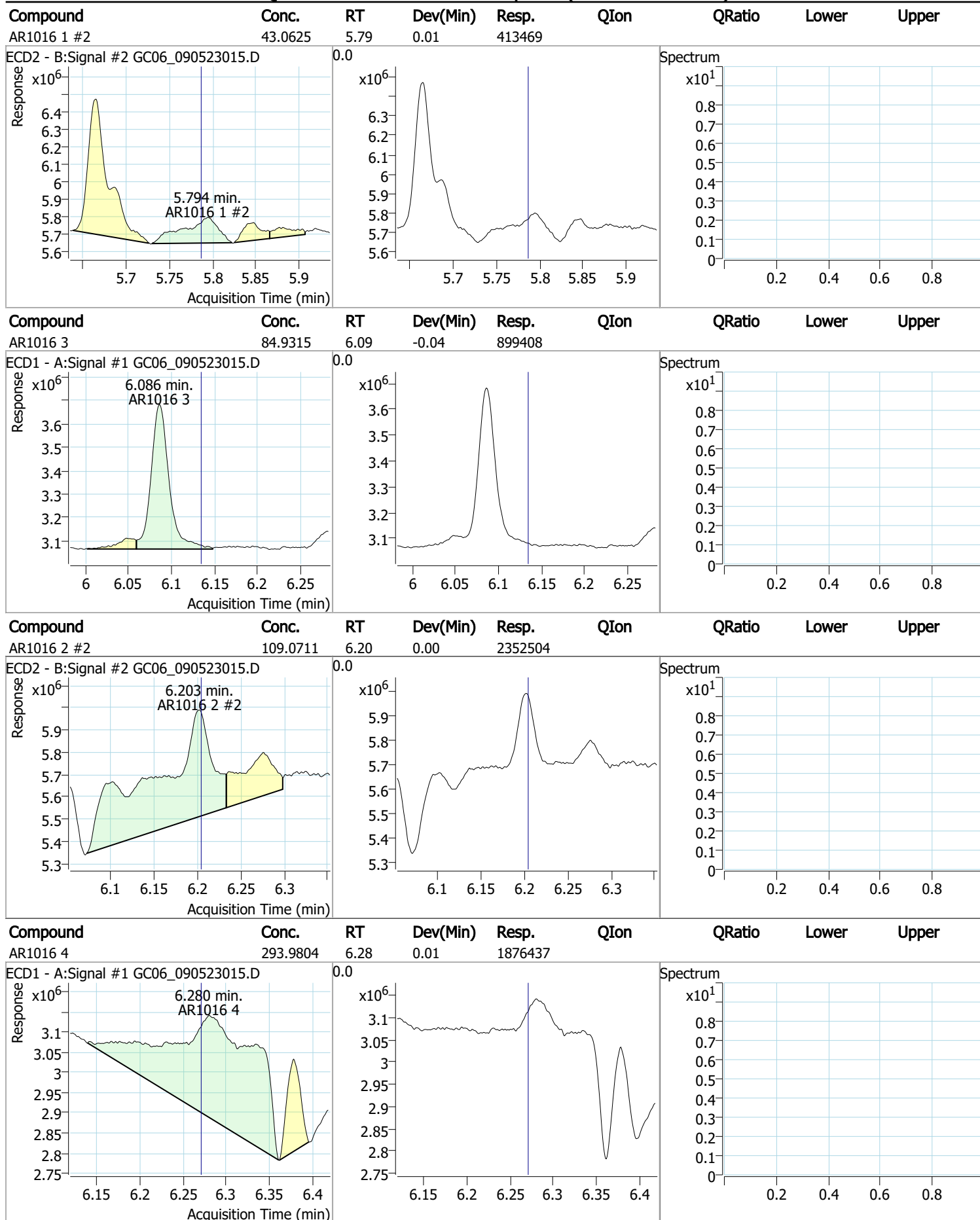
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	54.3200	5.35	0.02	221681				



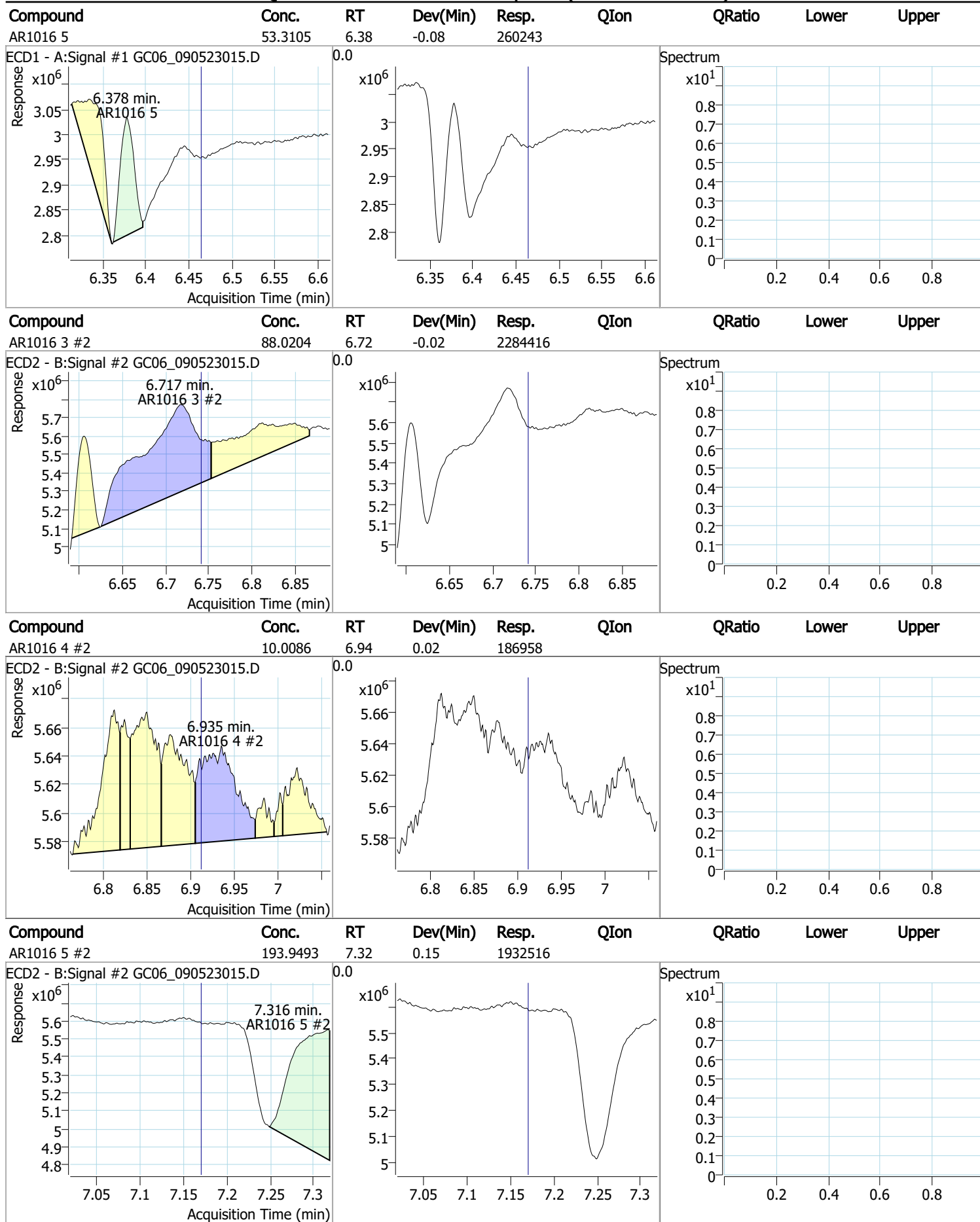
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	35.3652	5.68	0.01	293009				



Quantitation Results Report (Not Reviewed)

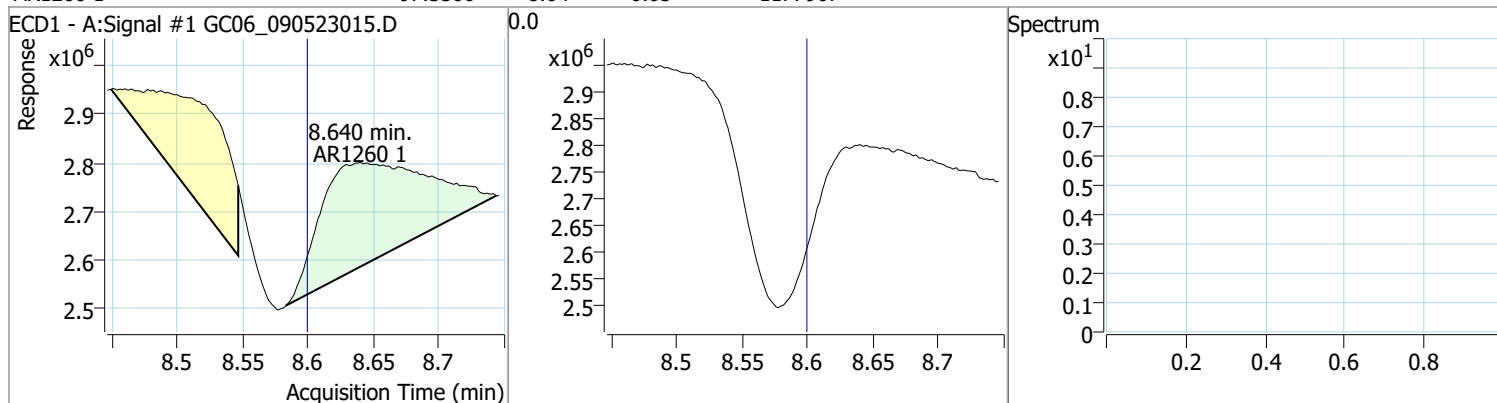


Quantitation Results Report (Not Reviewed)

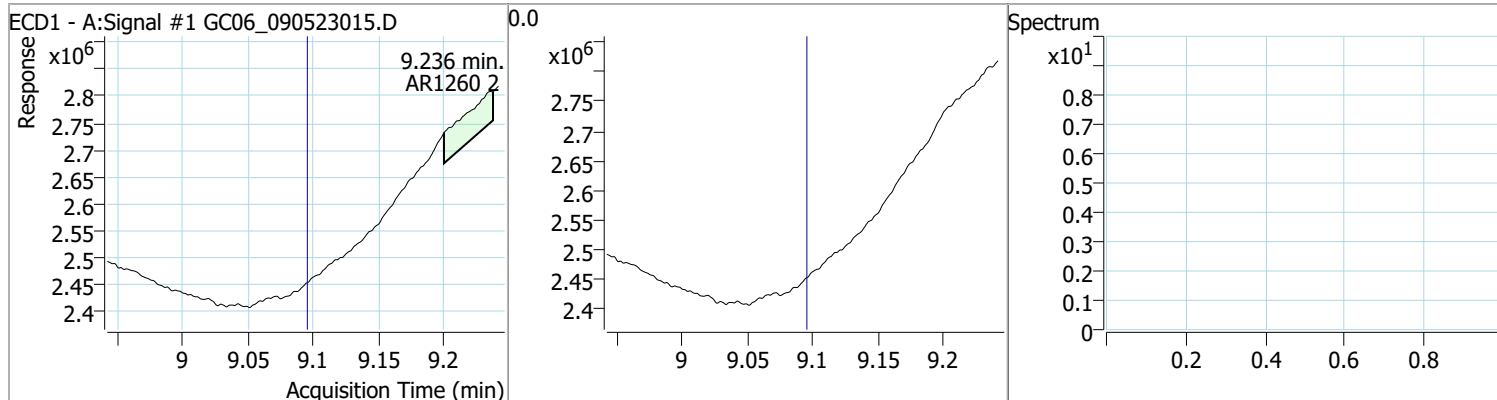


Quantitation Results Report (Not Reviewed)

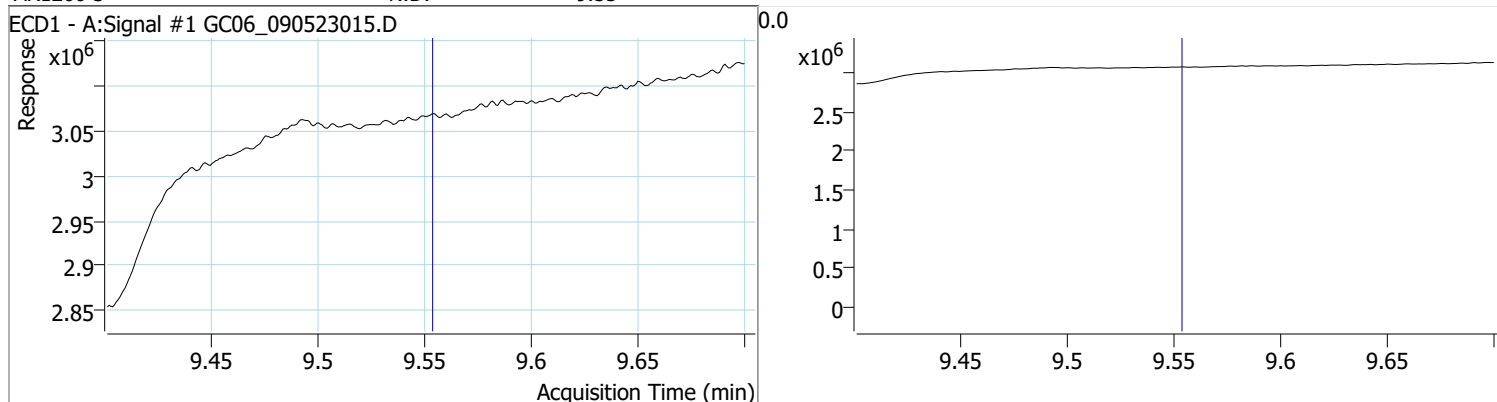
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	97.3500	8.64	0.05	1177907				



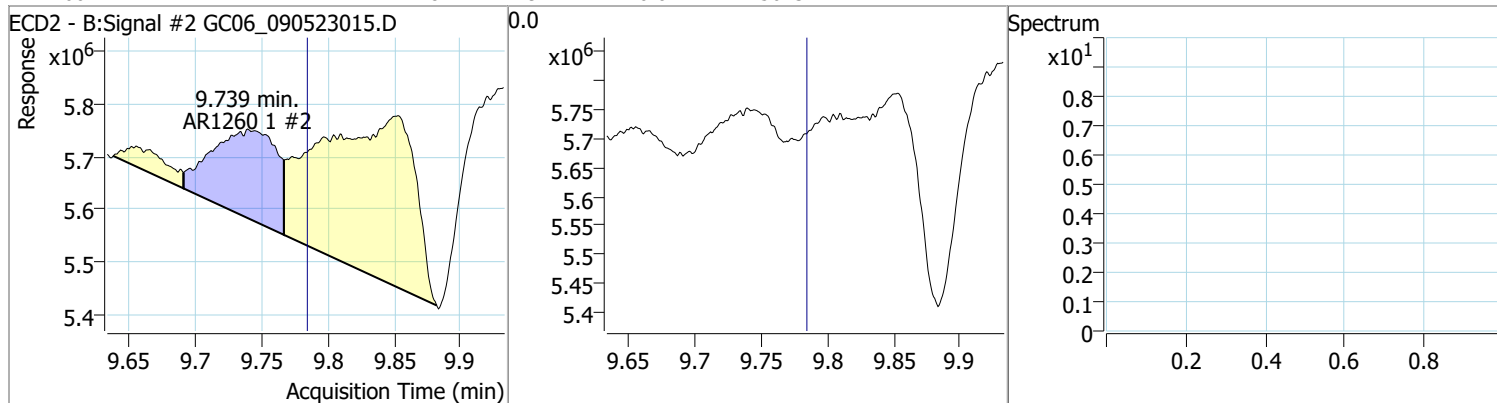
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	6.8172	9.24	0.15	125923				



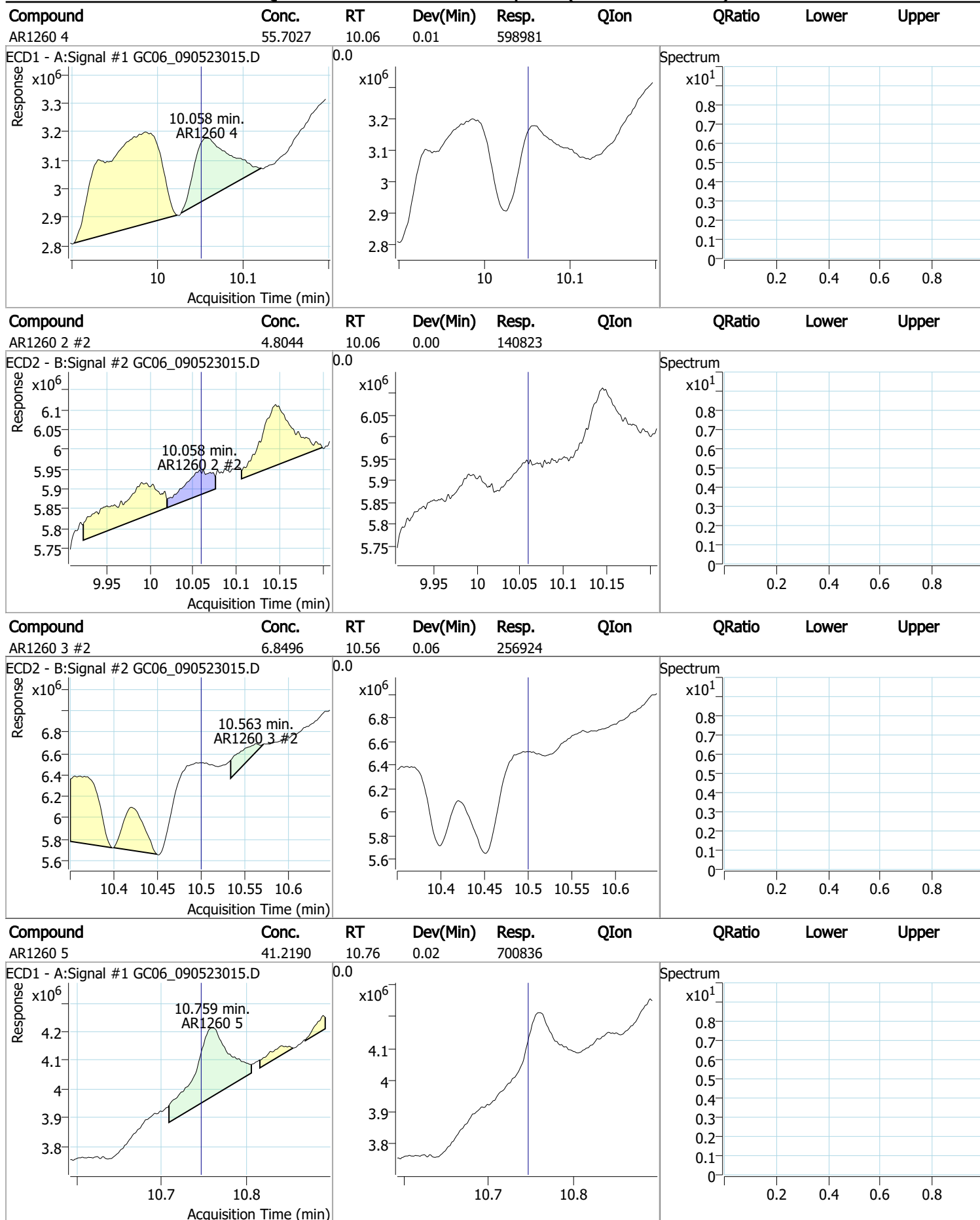
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.55		



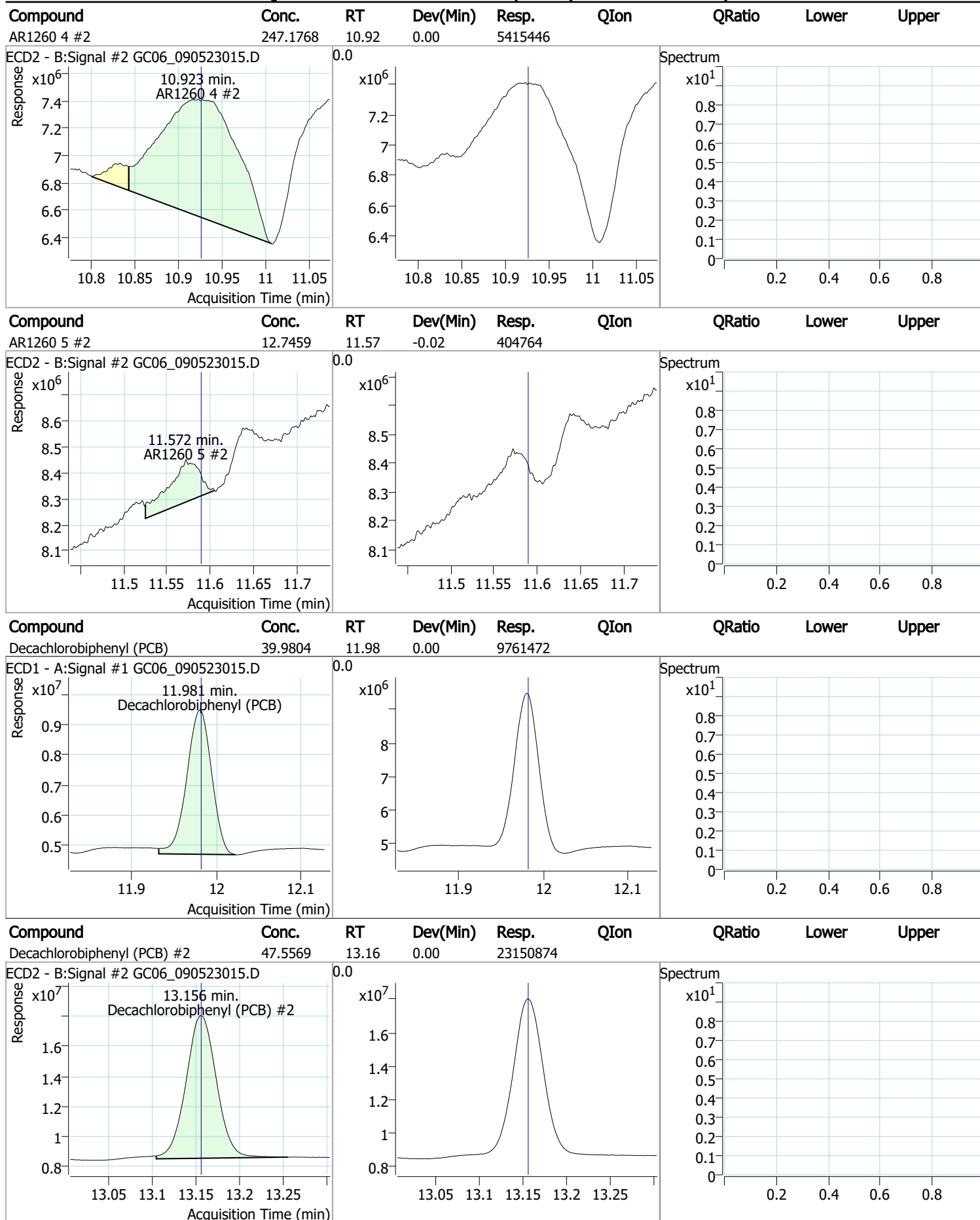
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	21.8221	9.74	-0.04	567312				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-008	Client ID: ARCH-C10W-DG-1.5 TO 2-230828-P-FB
Seqnum: 453357659016	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523016	Batch: 321684	Time: 05-SEP-2023 13:07
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	50.58	0.51 ^{FP}	1.1	70%	0.50		x u
Aroclor-1016 Peak # 1	B	38.22	0.38	0.75	65%			
Aroclor-1016 Peak # 2	B	111.9	1.12	0.60	61%			
Aroclor-1016 Peak # 3	B	75.36	0.75	1.32	55%			
Aroclor-1016 Peak # 4	B	7.905	0.08	2.08	185%			
Aroclor-1016 Peak # 5	B	19.58	0.20	0.52	90%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	43.97	ND	0.86	64%	0.50		u
Aroclor-1260 Peak # 1	B	20.86	0.21	3.74	179%			
Aroclor-1260 Peak # 2	B	13.65	0.14	0.01	186%			
Aroclor-1260 Peak # 3	B	14.25	0.14	0.03	140%			
Aroclor-1260 Peak # 4	B	169.7	1.70	0.51	108%			
Aroclor-1260 Peak # 5	B	1.402	0.01	ND				
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	39.37	0.5000	0.3937	79	19-121	u
Decachlorobiphenyl (PCB)	B	40.08	0.5000	0.4008	80	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	10537242	-16.68
1-bromo-2-nitrobenzene (PCB)	A	4899467	4188434	-14.51

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.37	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

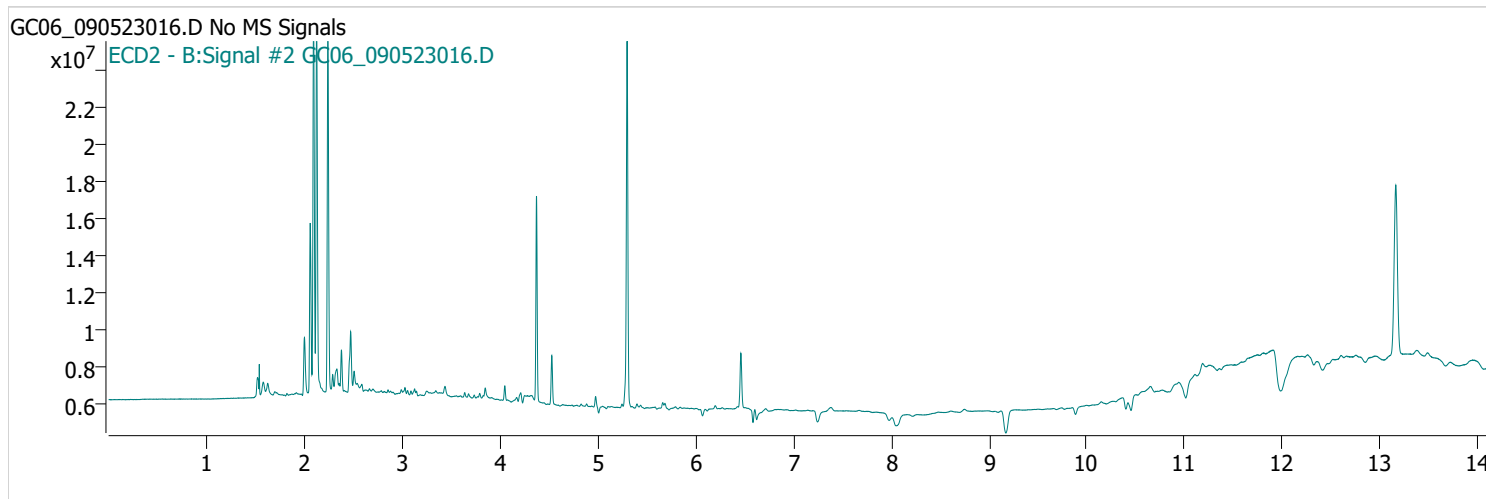
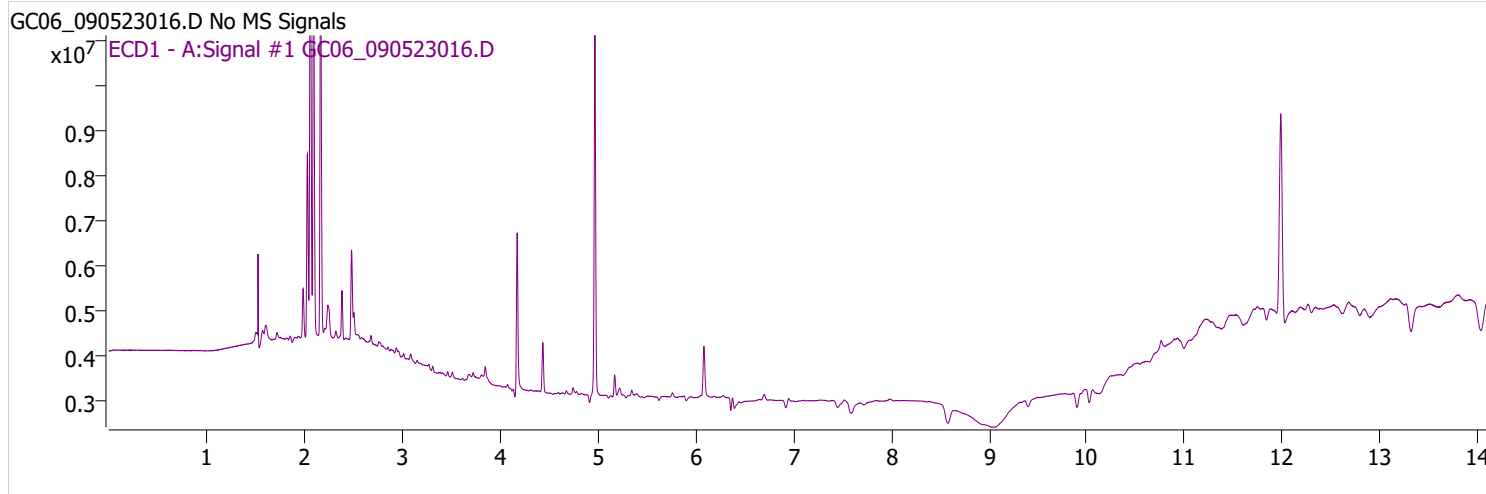
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523016.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 1:07:29 PM
Sample Name	491224-008, 321684, 1	Instrument	SVOA-GC06
Vial	7	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	4188433.657	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.374	0.0	10537241.655	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.972	0.0	9178961.865	41.1262	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 205.63%	*	
S TCMX (PCB) #2	5.301	0.0	22008315.684	39.3743	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 196.87%	*	
S Decachlorobiphenyl (PCB)	11.982	0.0	9351666.736	33.4597	ng/ml	0.005
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 167.30%	*	
S Decachlorobiphenyl (PCB) #2	13.158	0.0	22303631.158	40.0813	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 200.41%	*	

Target Compounds

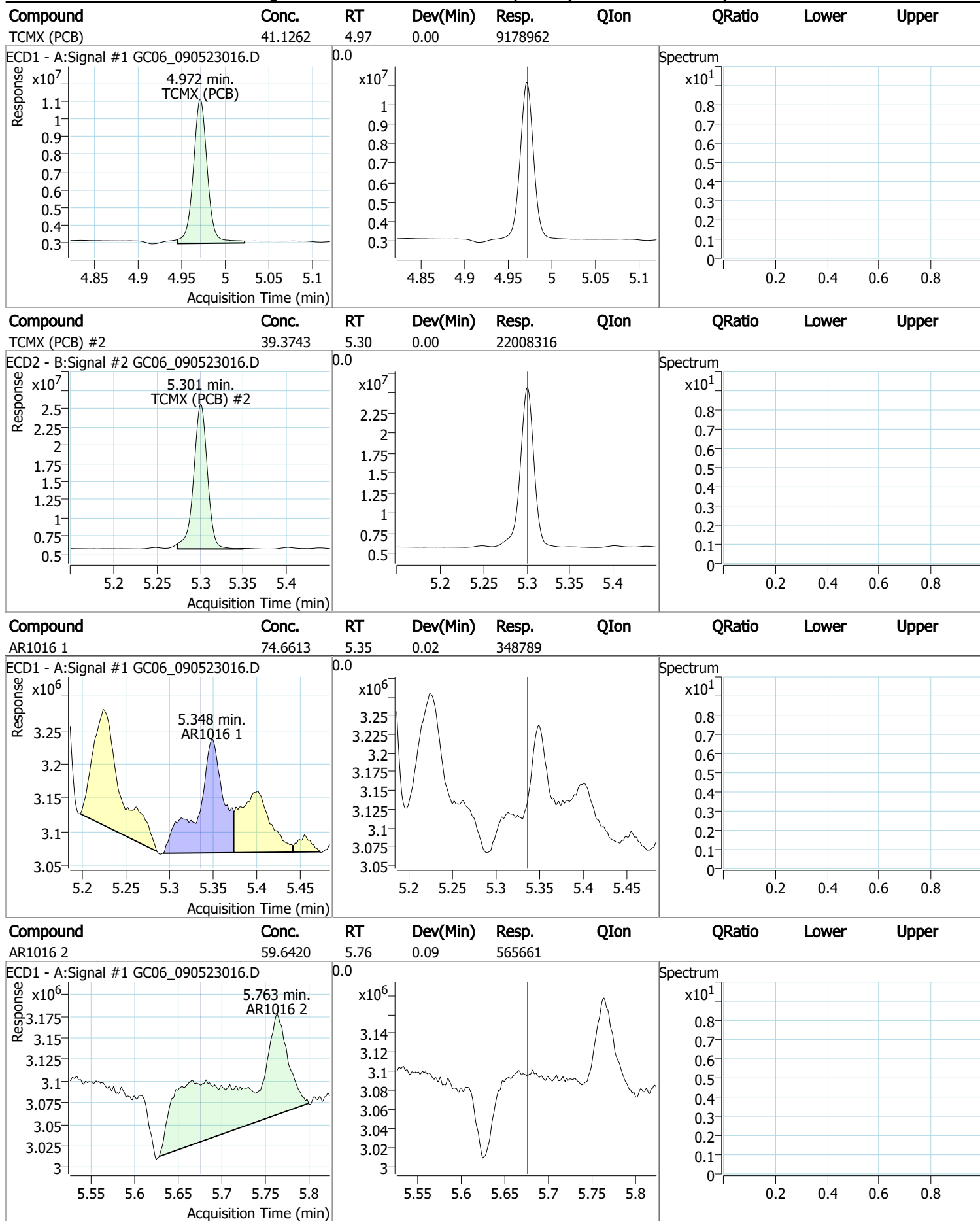
GC06_090523016.D

Quantitation Results Report (Not Reviewed)

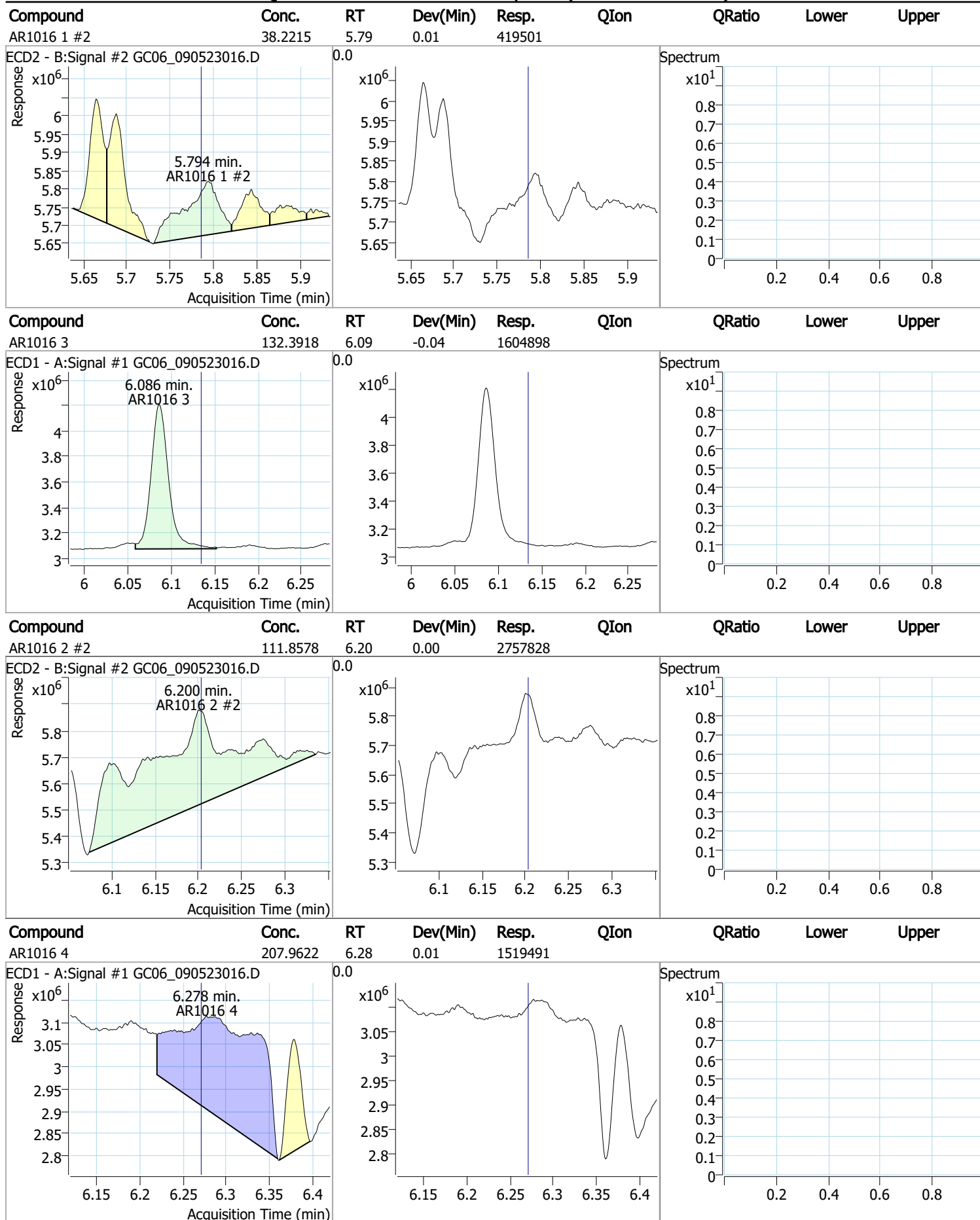
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.348	0.0	348788.865	74.6613	ng/ml	100
T AR1016 2	5.763	0.0	565661.215	59.6420	ng/ml	100
T AR1016 1 #2	5.794	0.0	419500.643	38.2215	ng/ml	100
T AR1016 3	6.086	0.0	1604898.075	132.3918	ng/ml	100
T AR1016 2 #2	6.200	0.0	2757828.294	111.8578	ng/ml	100
T AR1016 4	6.278	0.0	1519491.455	207.9622	ng/ml	100
T AR1016 5	6.378	0.0	288143.996	51.5639	ng/ml	100
T AR1016 3 #2	6.717	0.0	2235727.845	75.3610	ng/ml	100
T AR1016 4 #2	6.931	0.0	168790.676	7.9049	ng/ml	100
T AR1016 5 #2	7.310	0.0	222970.182	19.5763	ng/ml	100
T AR1260 1	8.646	0.0	5178772.695	373.8982	ng/ml	100
T AR1260 2	8.953	0.0	10847.661	0.5130	ng/ml	100
T AR1260 3	9.672	0.0	57068.337	2.5259	ng/ml	100
T AR1260 1 #2	9.746	0.0	620019.489	20.8641	ng/ml	100
T AR1260 4	10.058	0.0	625557.963	50.8197	ng/ml	100
T AR1260 2 #2	9.998	0.0	457329.534	13.6494	ng/ml	100
T AR1260 3 #2	10.421	0.0	611210.138	14.2550	ng/ml	100
T AR1260 5	0.000		0	N.D.		
T AR1260 4 #2	10.938	0.0	4249730.127	169.6893	ng/ml	100
T AR1260 5 #2	11.578	0.0	50881.626	1.4017	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

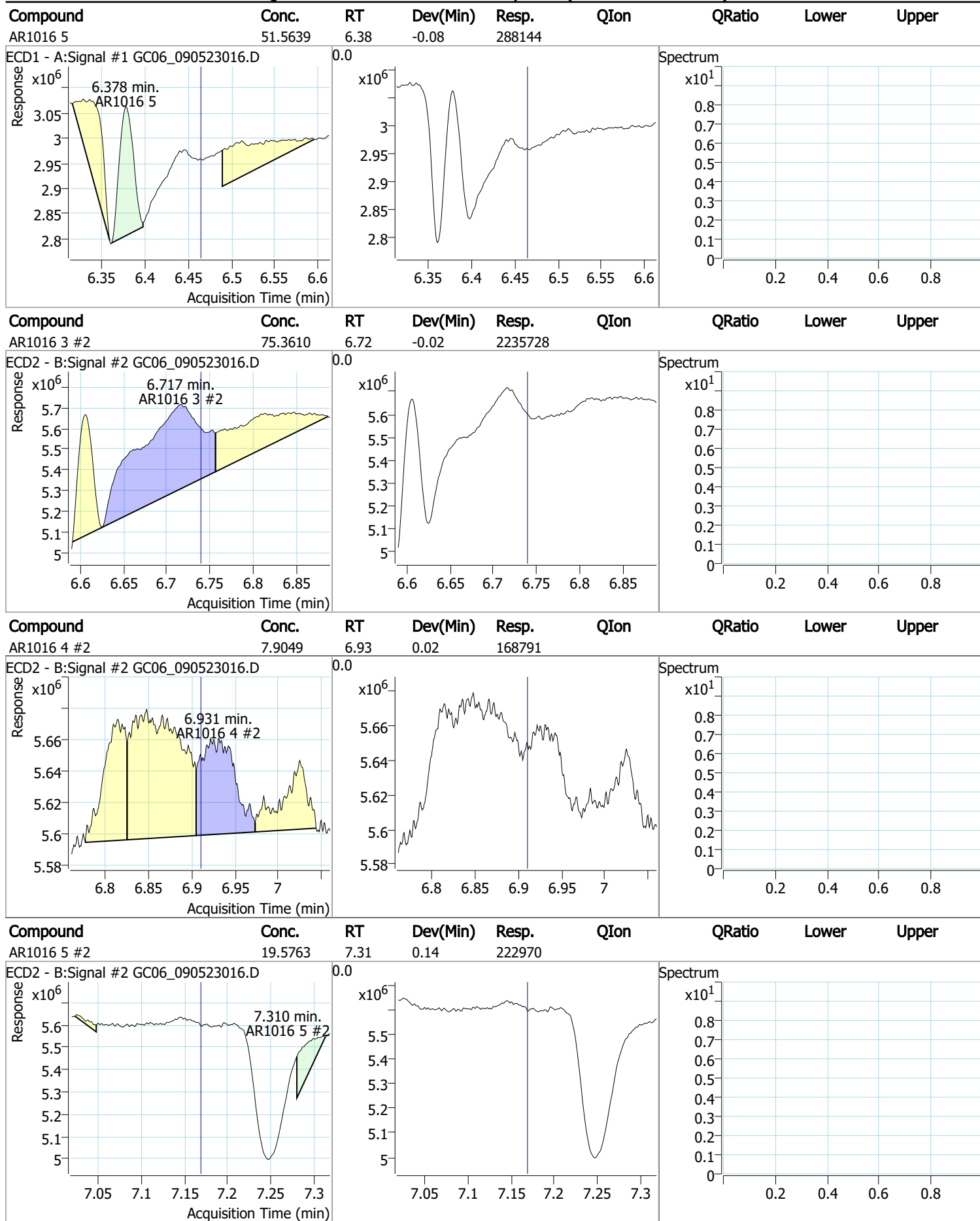
Quantitation Results Report (Not Reviewed)



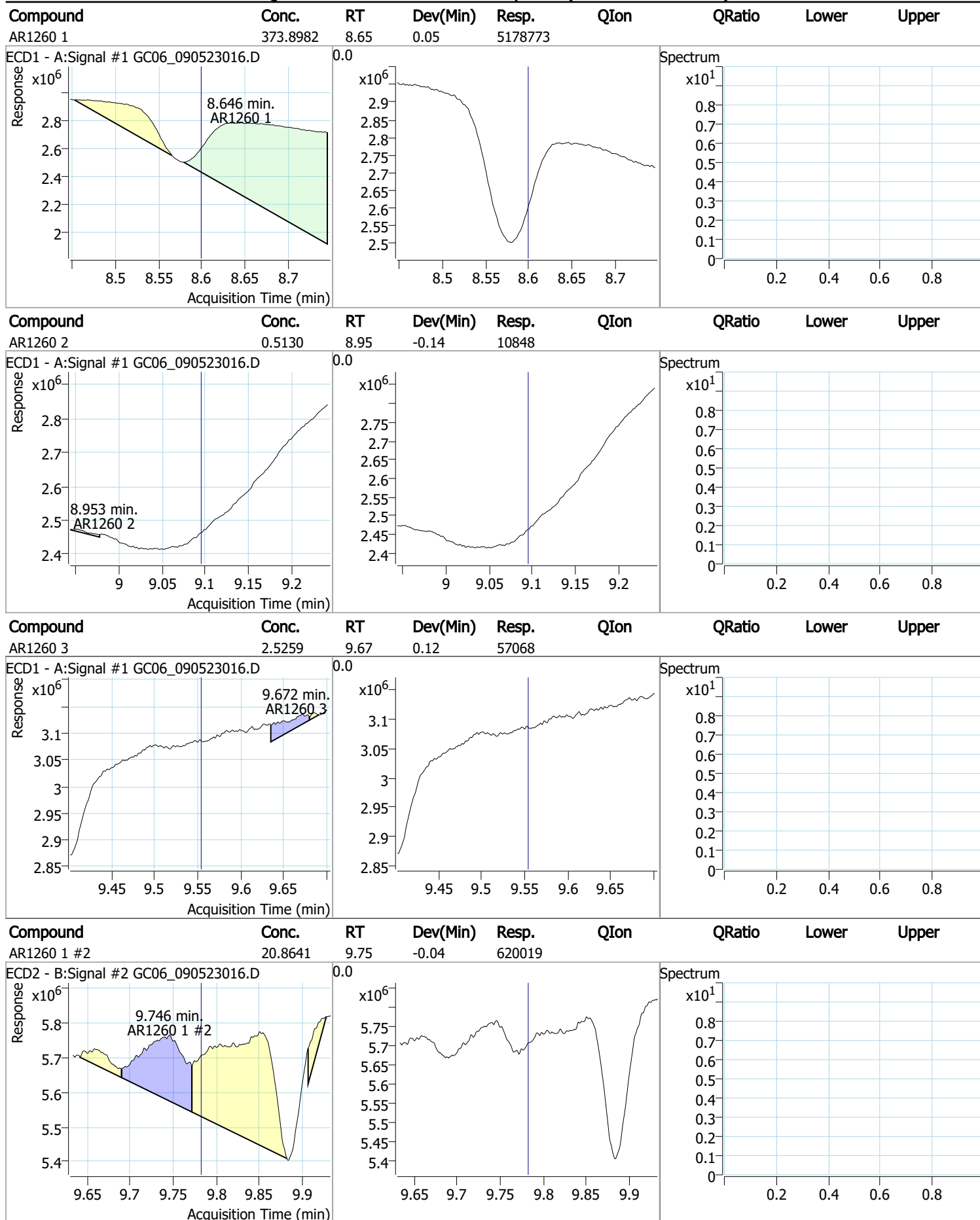
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

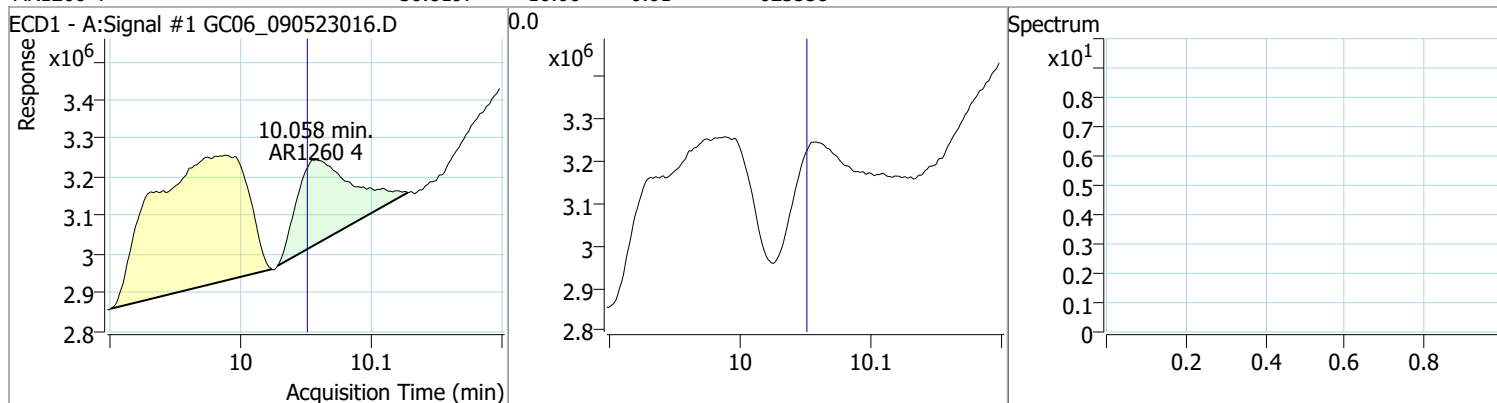


Quantitation Results Report (Not Reviewed)

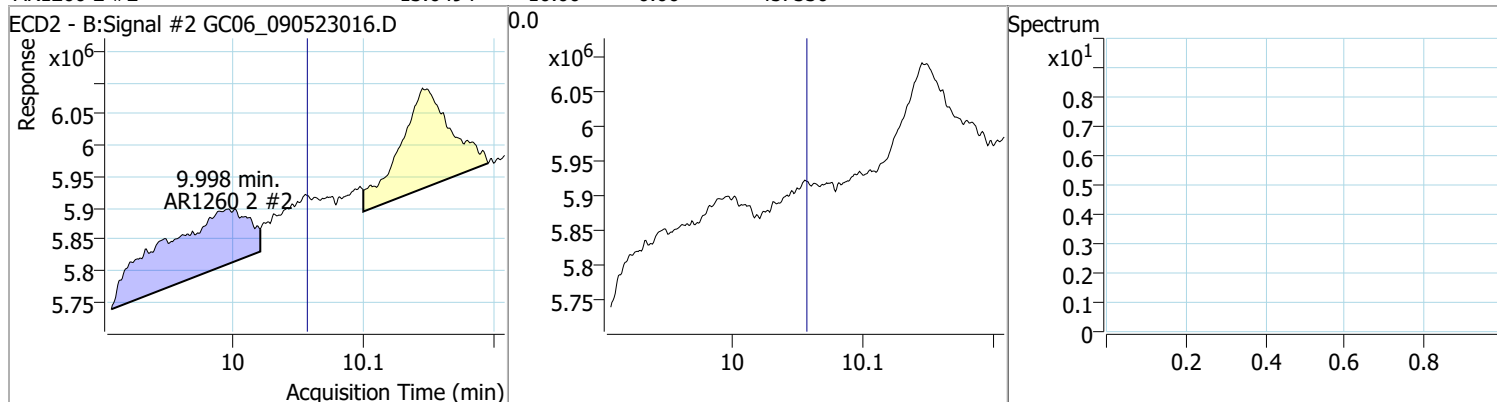


Quantitation Results Report (Not Reviewed)

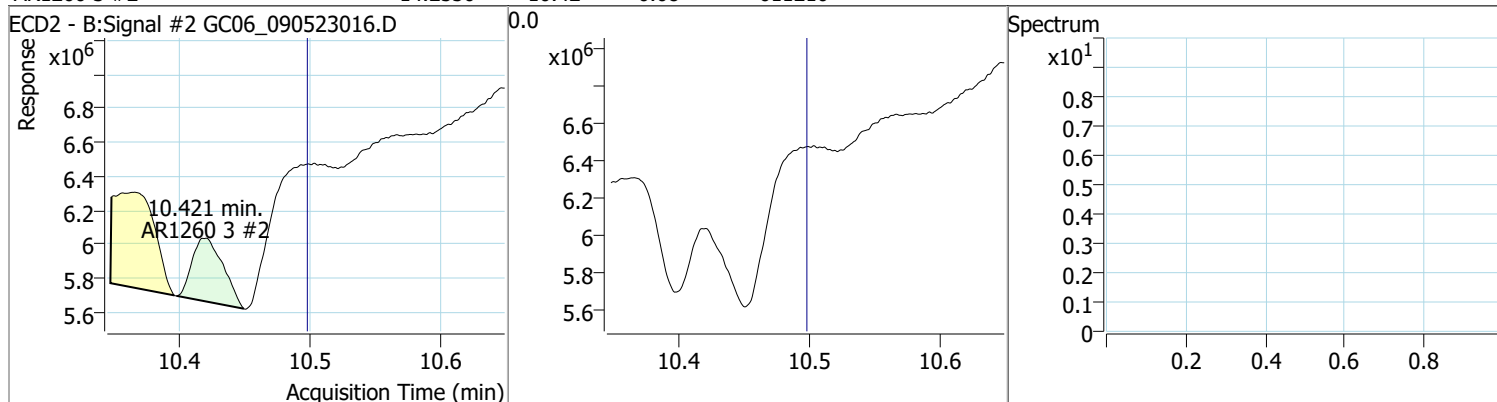
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	50.8197	10.06	0.01	625558				



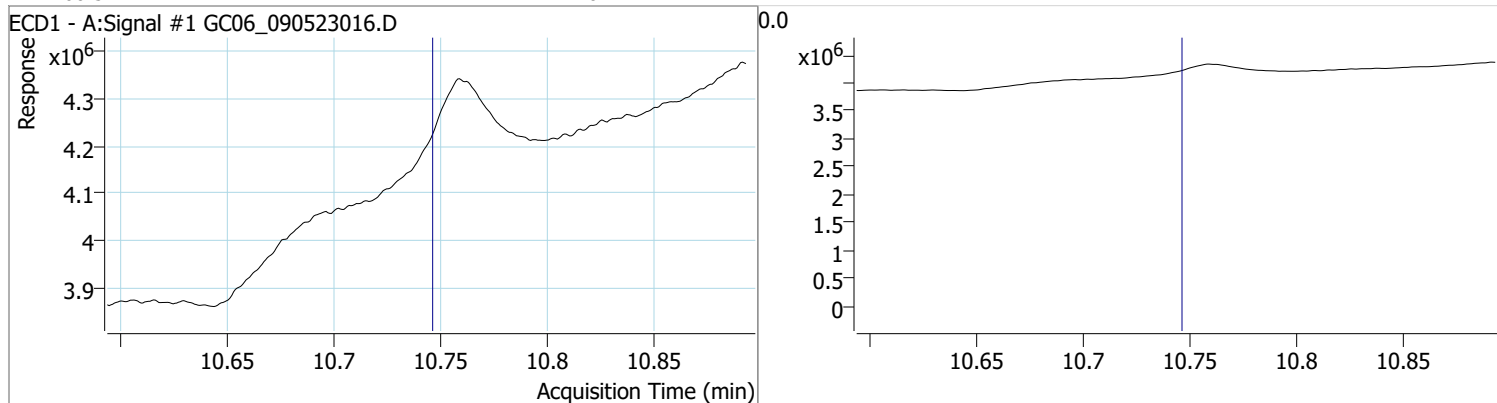
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	13.6494	10.00	-0.06	457330				



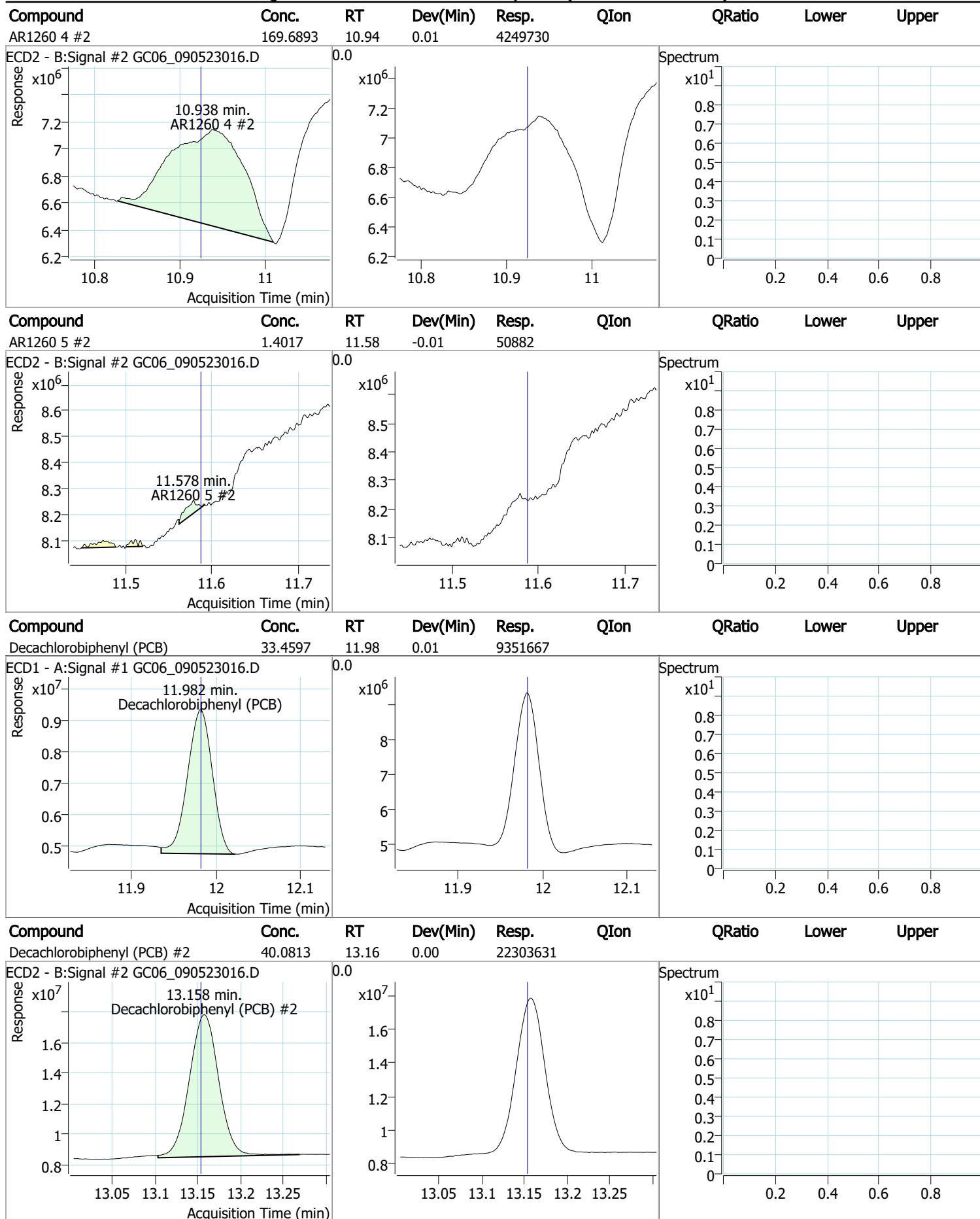
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	14.2550	10.42	-0.08	611210				



Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 5	N.D.	10.74		



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-011	Client ID: ARCH-C9W-DG-2 TO 2.5-230828-P-FB
Seqnum: 453357659017	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523017	Batch: 321684	Time: 05-SEP-2023 13:27
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 ⇒ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	111.2	1.1 ^{FP} 1.2		10%	0.50		x u
Aroclor-1016 Peak # 1	B	228.7	2.29	0.47	132%			
Aroclor-1016 Peak # 2	B	79.56	0.80	0.16	135%			
Aroclor-1016 Peak # 3	B	201.1	2.01	1.84	9%			
Aroclor-1016 Peak # 4	B	15.45	0.15	3.43	183%			
Aroclor-1016 Peak # 5	B	31.17	0.31	0.24	28%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	78.47	0.78 ^{FP} 0.86		9%	0.50		x u
Aroclor-1260 Peak # 1	B	21.22	0.21	1.93	160%			
Aroclor-1260 Peak # 2	B	5.497	0.05	1.09	181%			
Aroclor-1260 Peak # 3	B	36.88	0.37	ND				
Aroclor-1260 Peak # 4	B	314.7	3.15	0.63	133%			
Aroclor-1260 Peak # 5	B	14.09	0.14	0.63	126%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	38.62	0.5000	0.3862	77	19-121	u
Decachlorobiphenyl (PCB)	B	35.31	0.5000	0.3531	71	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	6767977	-46.48
1-bromo-2-nitrobenzene (PCB)	A	4899467	2819182	-42.46

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.38	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

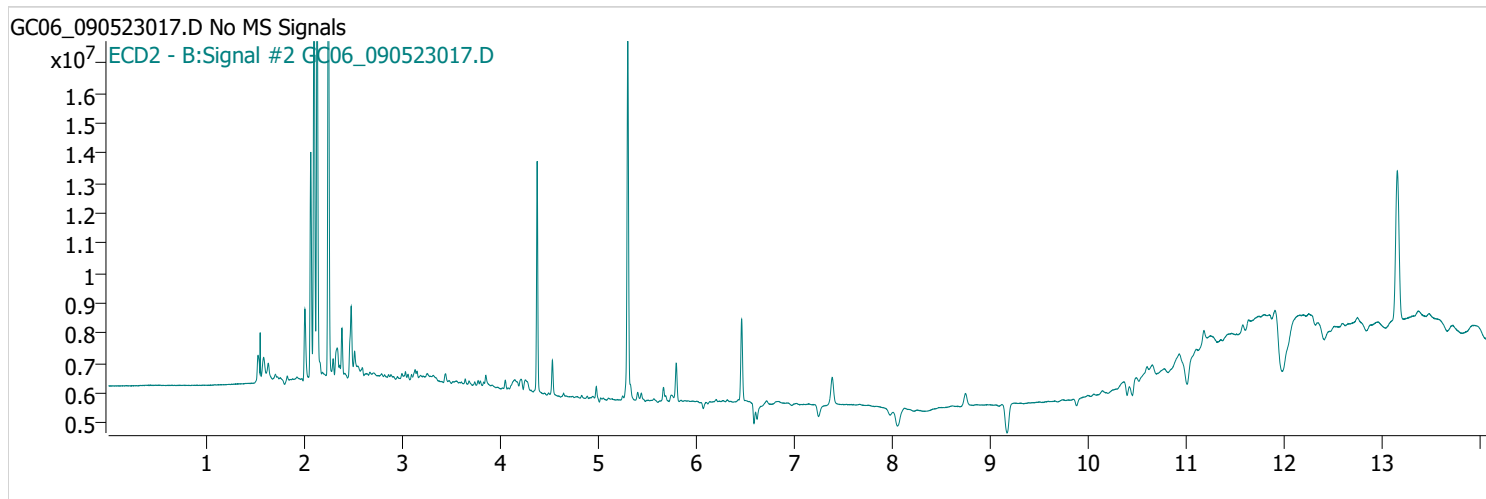
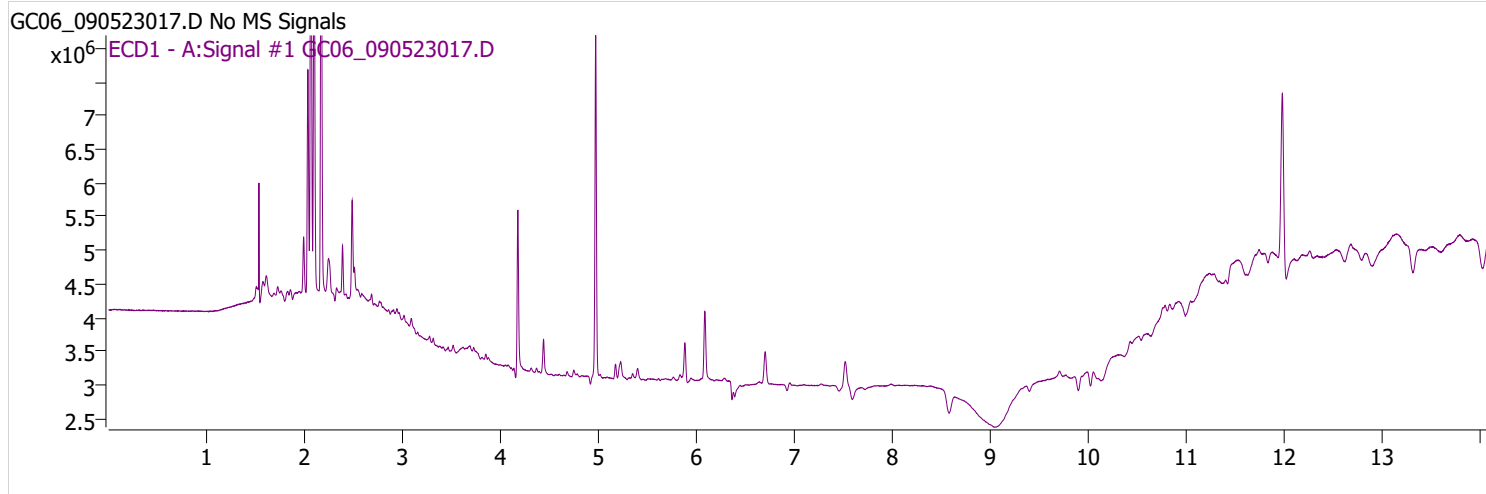
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523017.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 1:27:14 PM
Sample Name	491224-011, 321684, 1	Instrument	SVOA-GC06
Vial	8	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	2819182.05 3	20.0000	ng/ml	0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.376	0.0	6767976.84 8	20.0000	ng/ml	0.001
System Monitoring Compounds						
S TCMX (PCB)	4.973	0.0	5713407.90 6	38.0319	ng/ml	0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 190.16%	*	
S TCMX (PCB) #2	5.301	0.0	13864925.0 78	38.6199	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 193.10%	*	
S Decachlorobiphenyl (PCB)	11.983	0.0	5477481.41 8	29.1167	ng/ml	0.007
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 145.58%		
S Decachlorobiphenyl (PCB) #2	13.158	0.0	12619885.9 57	35.3093	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 176.55%	*	

Target Compounds

GC06_090523017.D

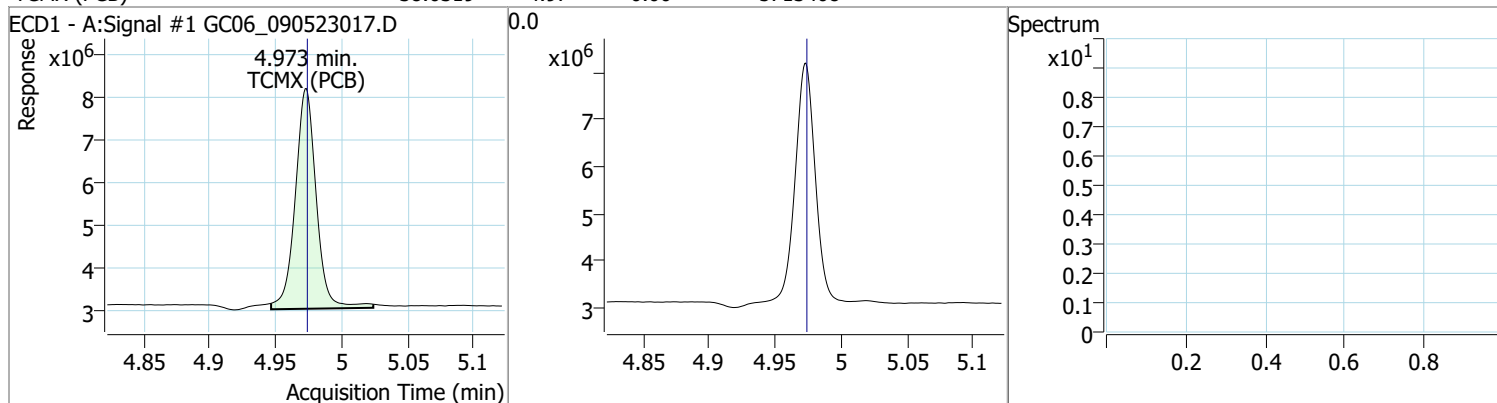
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.349	0.0	148239.052	47.1437	ng/ml	100
T AR1016 2	5.686	0.0	99366.218	15.5655	ng/ml	100
T AR1016 1 #2	5.795	0.0	1611974.885	228.6662	ng/ml	100
T AR1016 3	6.088	0.0	1500502.886	183.8988	ng/ml	100
T AR1016 2 #2	6.202	0.0	1259896.125	79.5613	ng/ml	100
T AR1016 4	6.286	0.0	1686639.380	342.9548	ng/ml	100
T AR1016 5	6.378	0.0	88615.434	23.5599	ng/ml	100
T AR1016 3 #2	6.718	0.0	3831927.000	201.1005	ng/ml	100
T AR1016 4 #2	6.925	0.0	211912.015	15.4516	ng/ml	100
T AR1016 5 #2	7.314	0.0	228056.562	31.1742	ng/ml	100
T AR1260 1	8.633	0.0	1799830.125	193.0575	ng/ml	100
T AR1260 2	9.235	0.0	1554156.375	109.2004	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.744	0.0	405002.712	21.2188	ng/ml	100
T AR1260 4	10.054	0.0	520650.302	62.8405	ng/ml	100
T AR1260 2 #2	10.062	0.0	118304.491	5.4973	ng/ml	100
T AR1260 3 #2	10.495	0.0	1015763.881	36.8840	ng/ml	100
T AR1260 5	10.788	0.0	819287.275	62.5385	ng/ml	100
T AR1260 4 #2	10.933	0.0	5061809.780	314.6784	ng/ml	100
T AR1260 5 #2	11.582	0.0	328511.218	14.0899	ng/ml	100

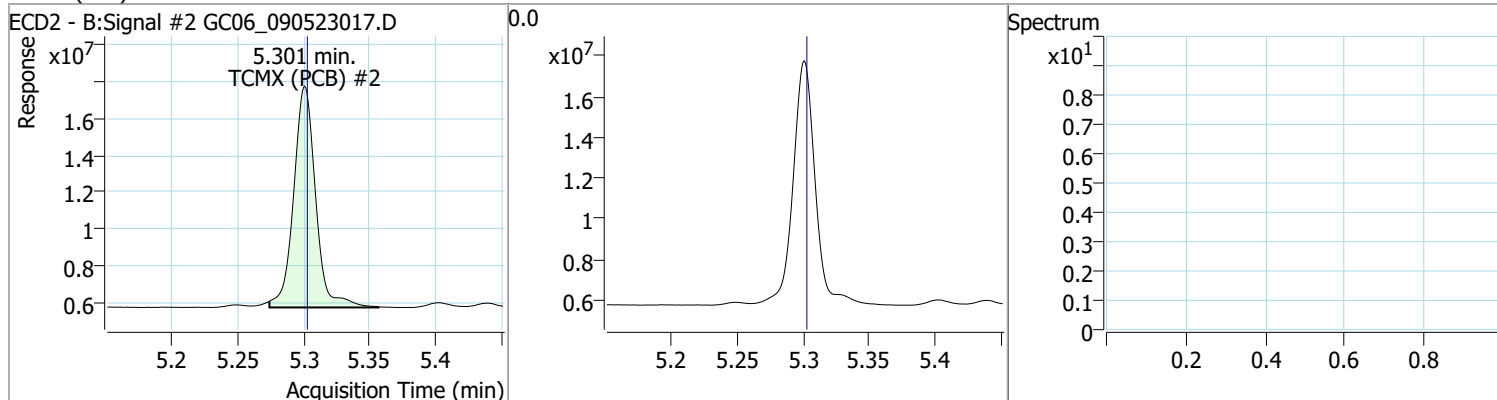
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

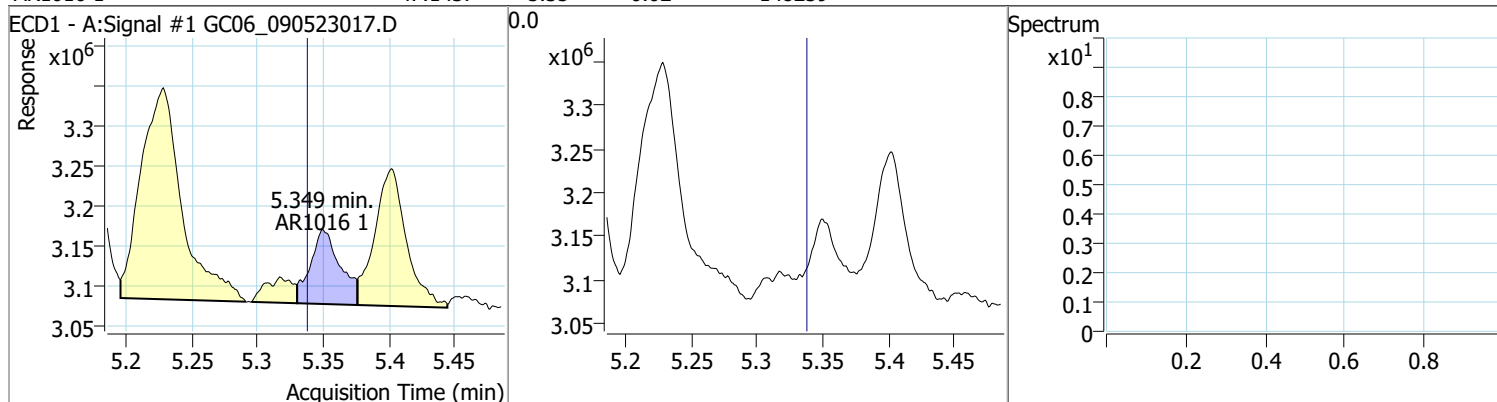
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	38.0319	4.97	0.00	5713408				



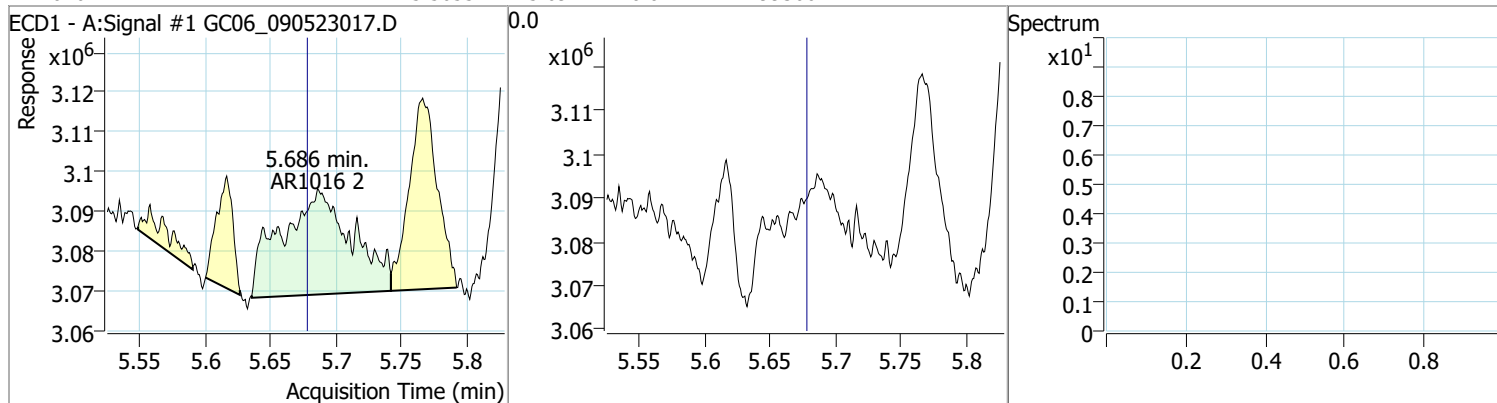
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	38.6199	5.30	0.00	13864925				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	47.1437	5.35	0.02	148239				

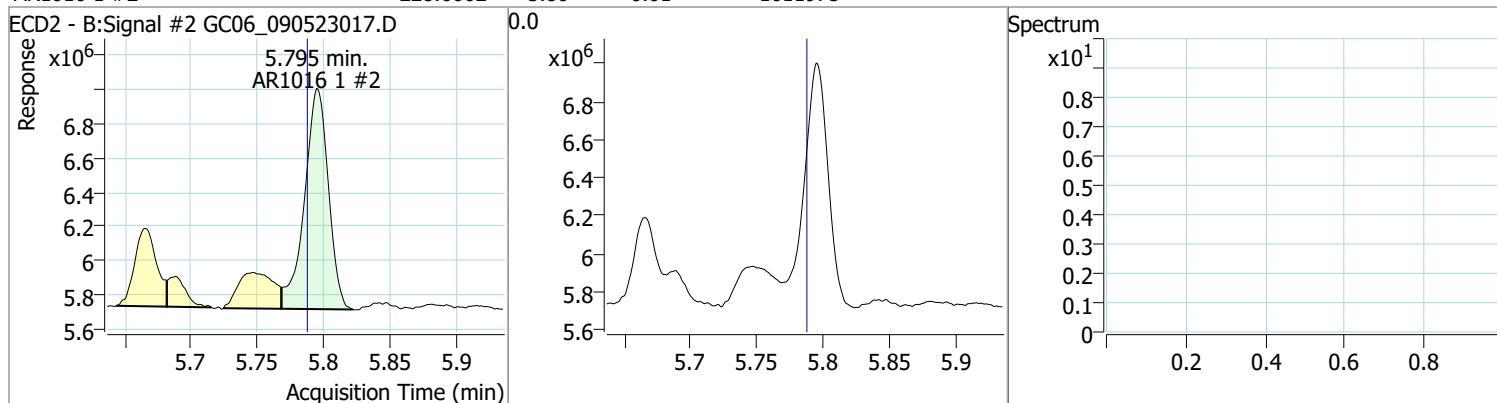


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	15.5655	5.69	0.01	99366				

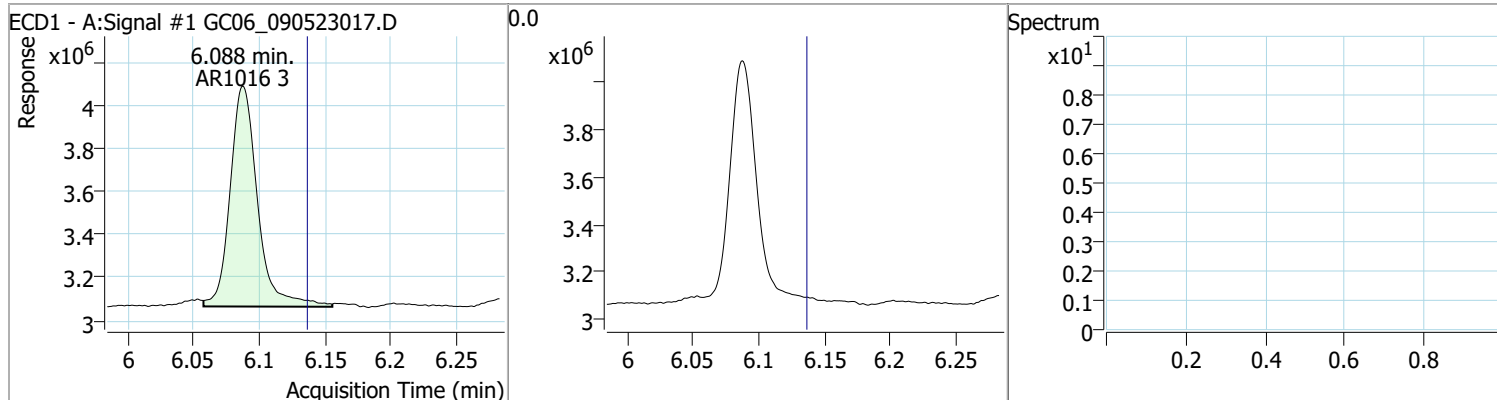


Quantitation Results Report (Not Reviewed)

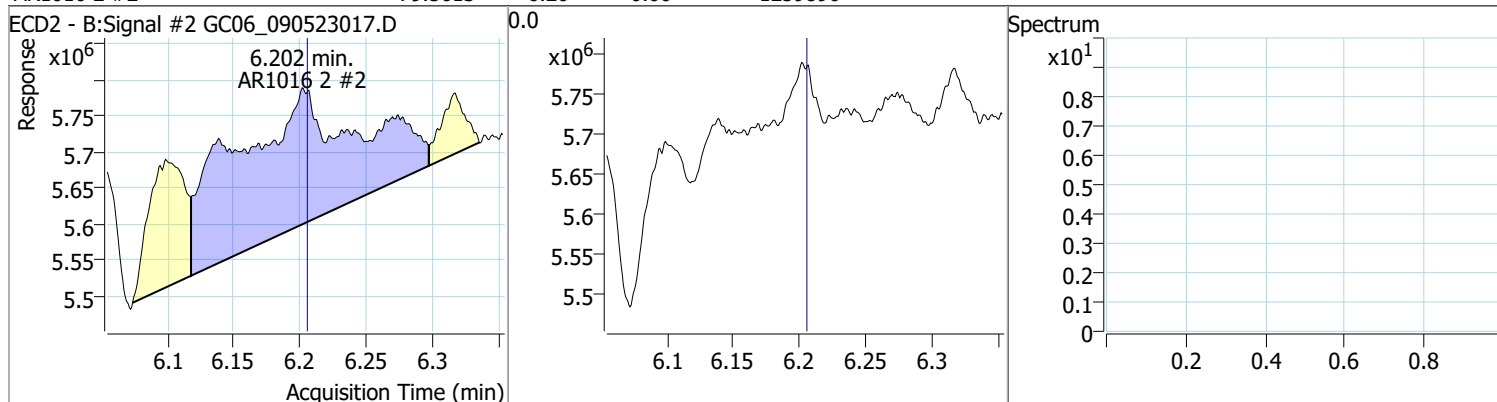
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	228.6662	5.80	0.01	1611975				



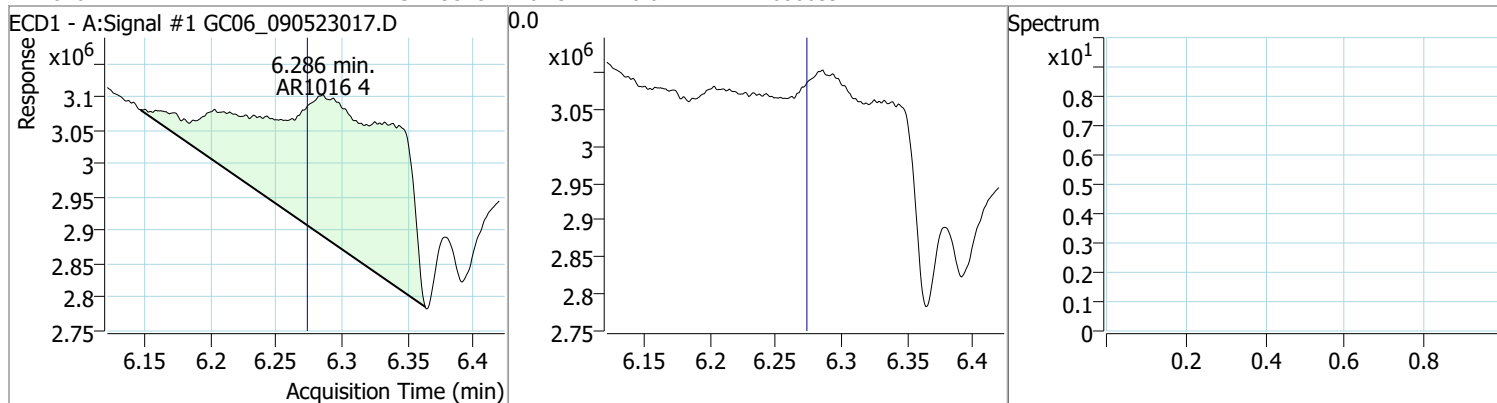
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	183.8988	6.09	-0.04	1500503				



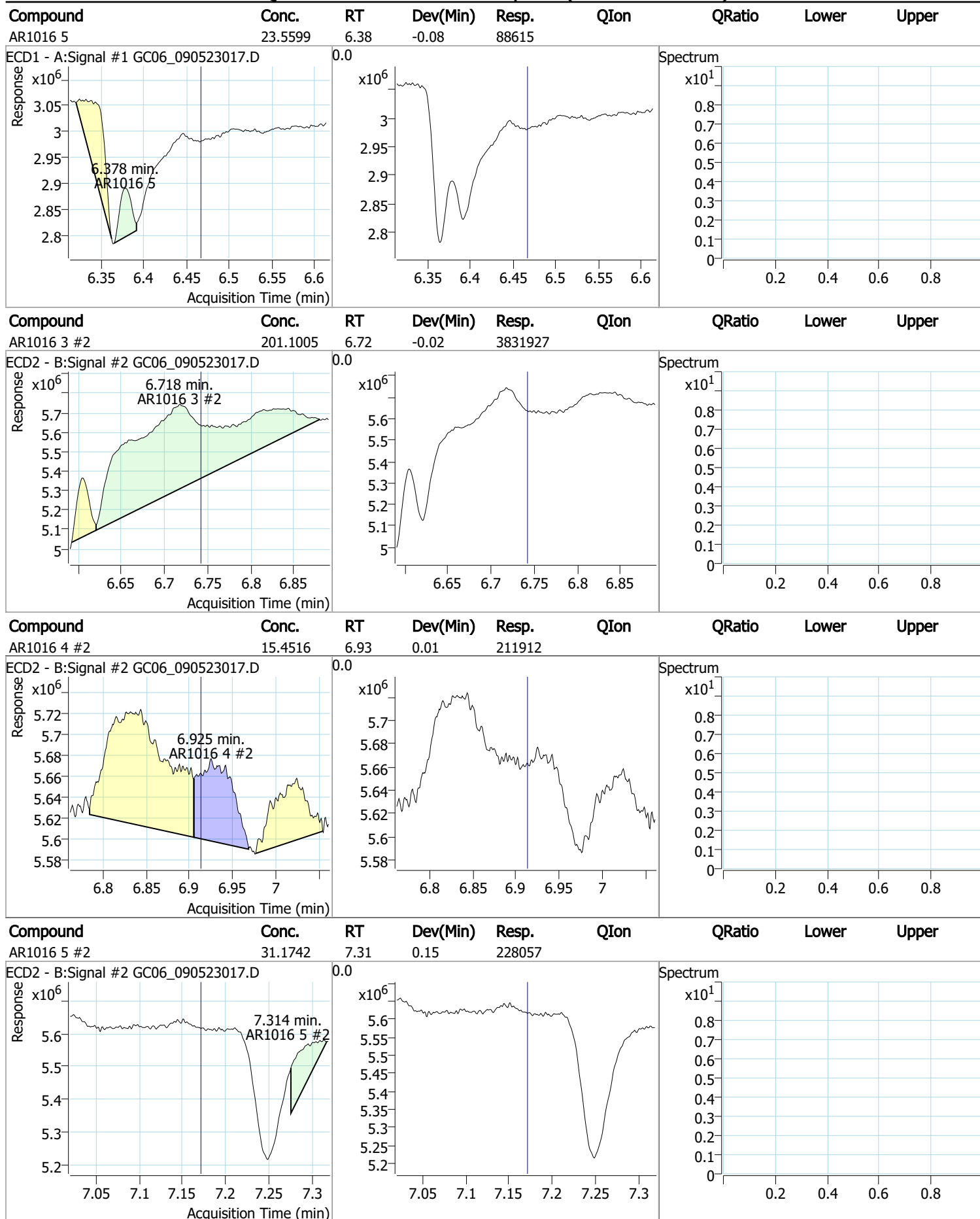
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	79.5613	6.20	0.00	1259896				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	342.9548	6.29	0.02	1686639				

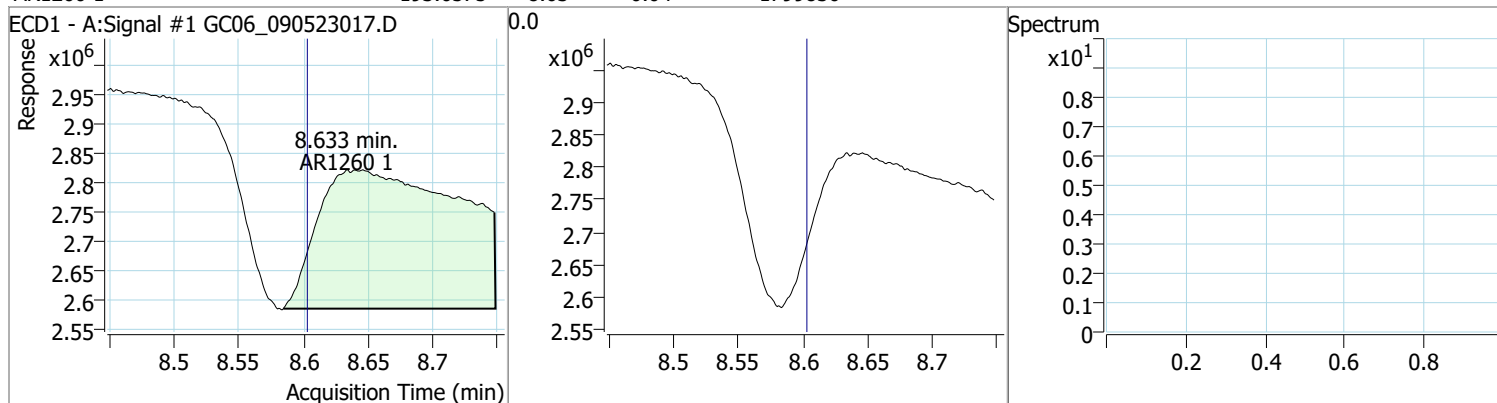


Quantitation Results Report (Not Reviewed)

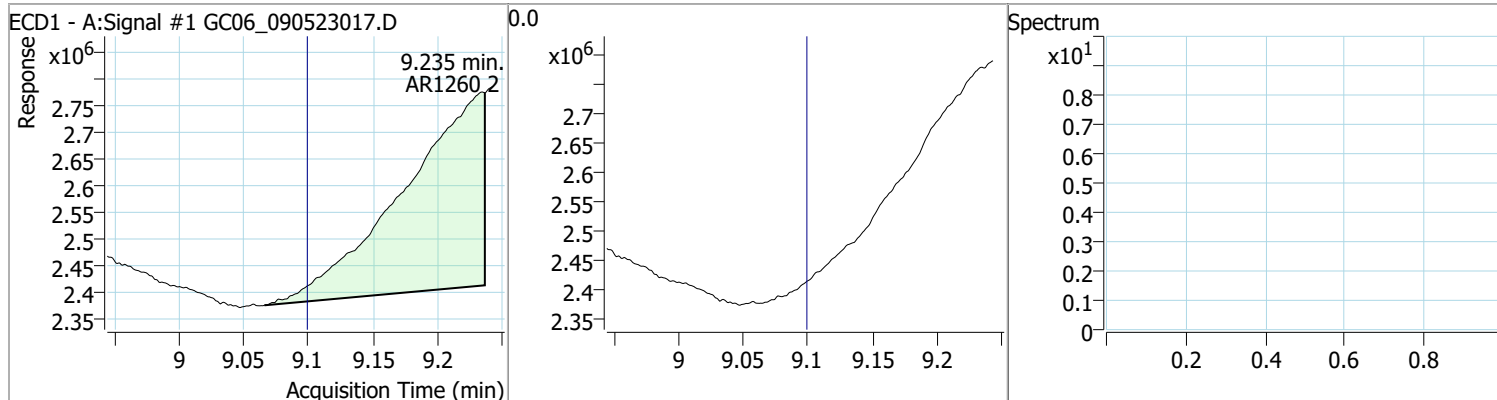


Quantitation Results Report (Not Reviewed)

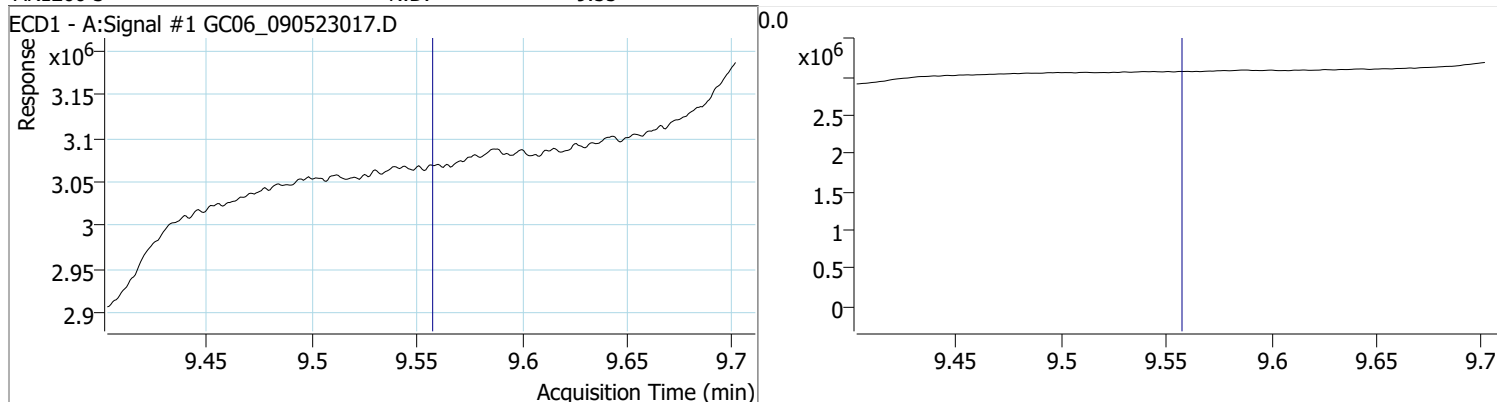
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	193.0575	8.63	0.04	1799830				



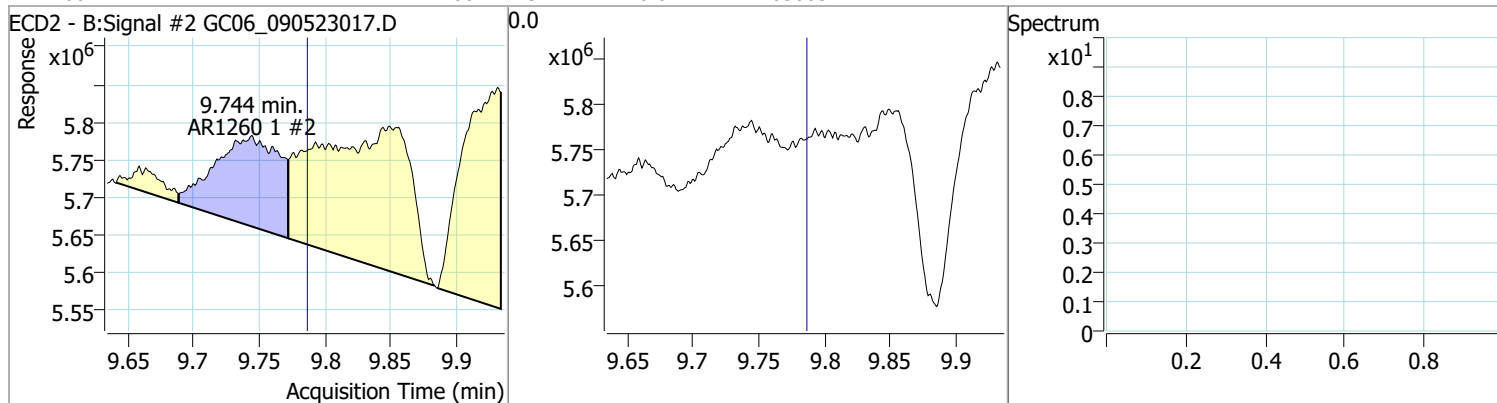
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	109.2004	9.24	0.14	1554156				



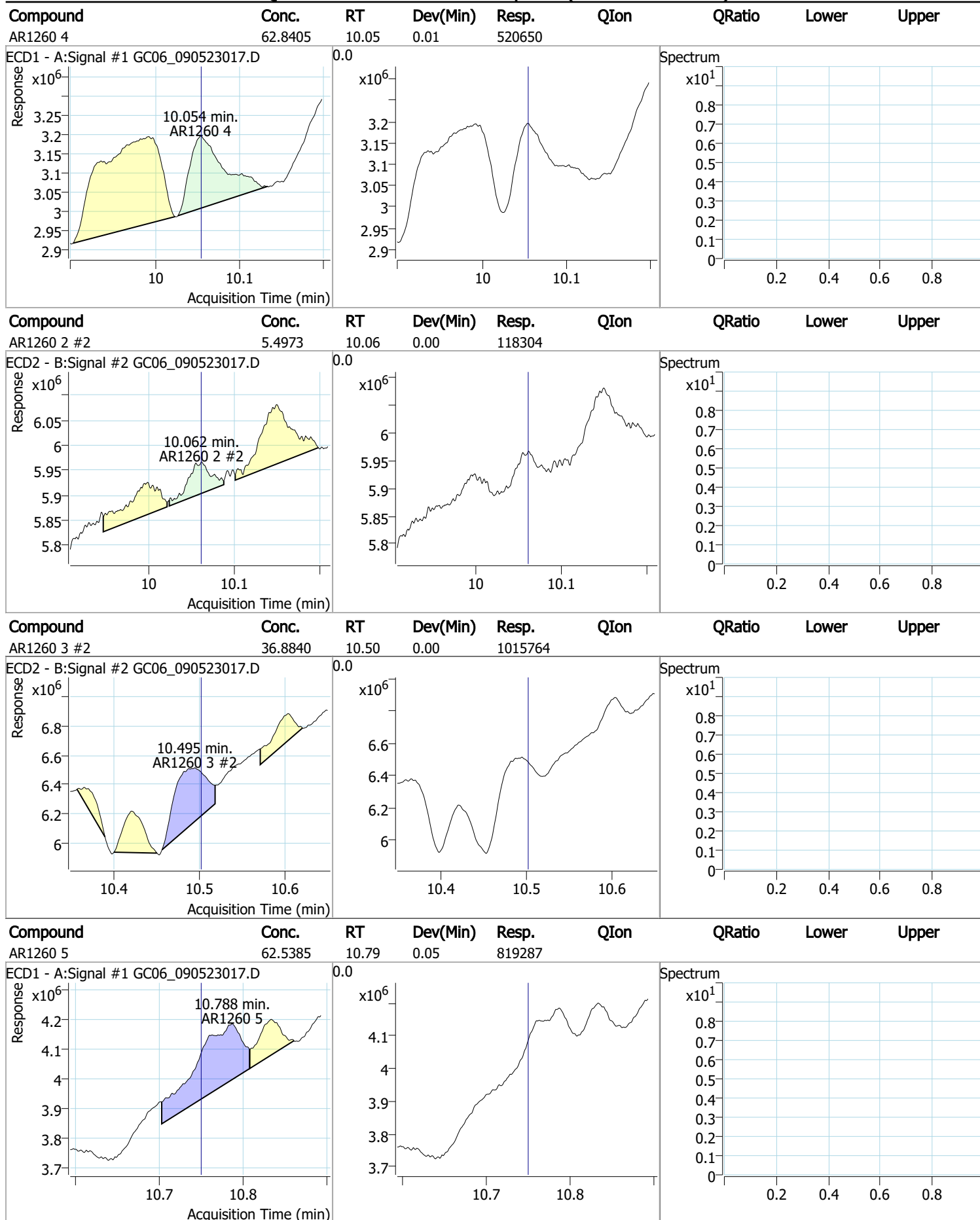
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.55		



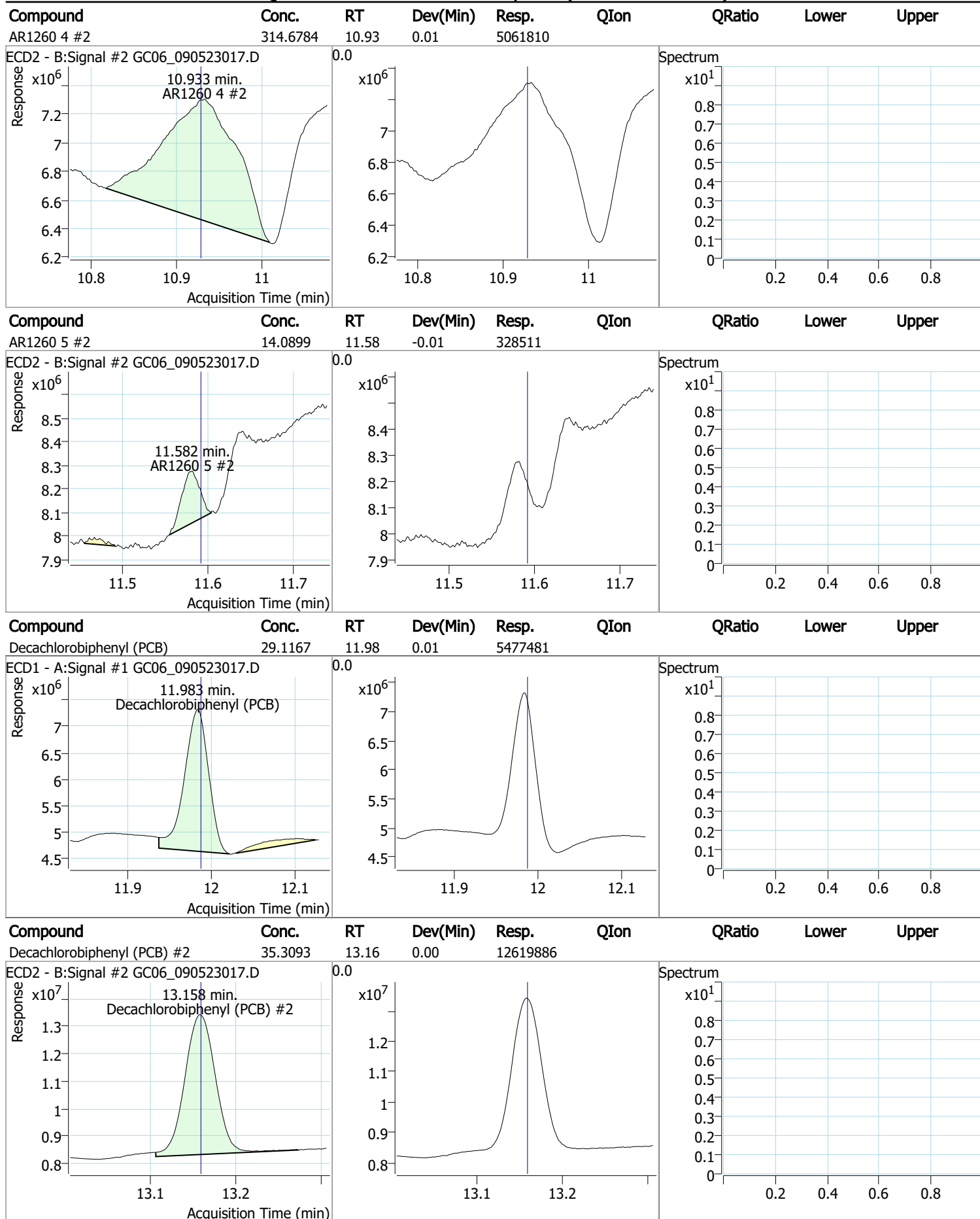
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	21.2188	9.74	-0.04	405003				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-013	Client ID: ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-P-LA
Seqnum: 453357659018	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523018	Batch: 321684	Time: 05-SEP-2023 13:46
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	43.90	ND	0.94	73%	0.50		u
Aroclor-1016 Peak # 1	B	42.81	0.43	0.79	59%			
Aroclor-1016 Peak # 2	B	75.29	0.75	0.11	150%			
Aroclor-1016 Peak # 3	B	64.14	0.64	1.12	54%			
Aroclor-1016 Peak # 4	B	27.53	0.28	2.32	158%			
Aroclor-1016 Peak # 5	B	9.703	0.10	0.37	116%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	44.07	ND	0.72	48%	0.50		u
Aroclor-1260 Peak # 1	B	24.46	0.24	1.08	126%			
Aroclor-1260 Peak # 2	B	6.232	0.06	1.31	182%			
Aroclor-1260 Peak # 3	B	36.32	0.36	ND				
Aroclor-1260 Peak # 4	B	147.1	1.47	0.83	56%			
Aroclor-1260 Peak # 5	B	6.238	0.06	0.37	142%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	42.10	0.5000	0.4210	84	19-121	u
Decachlorobiphenyl (PCB)	B	52.97	0.5000	0.5297	106	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	9947032	-21.34
1-bromo-2-nitrobenzene (PCB)	A	4899467	3959245	-19.19

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.37	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

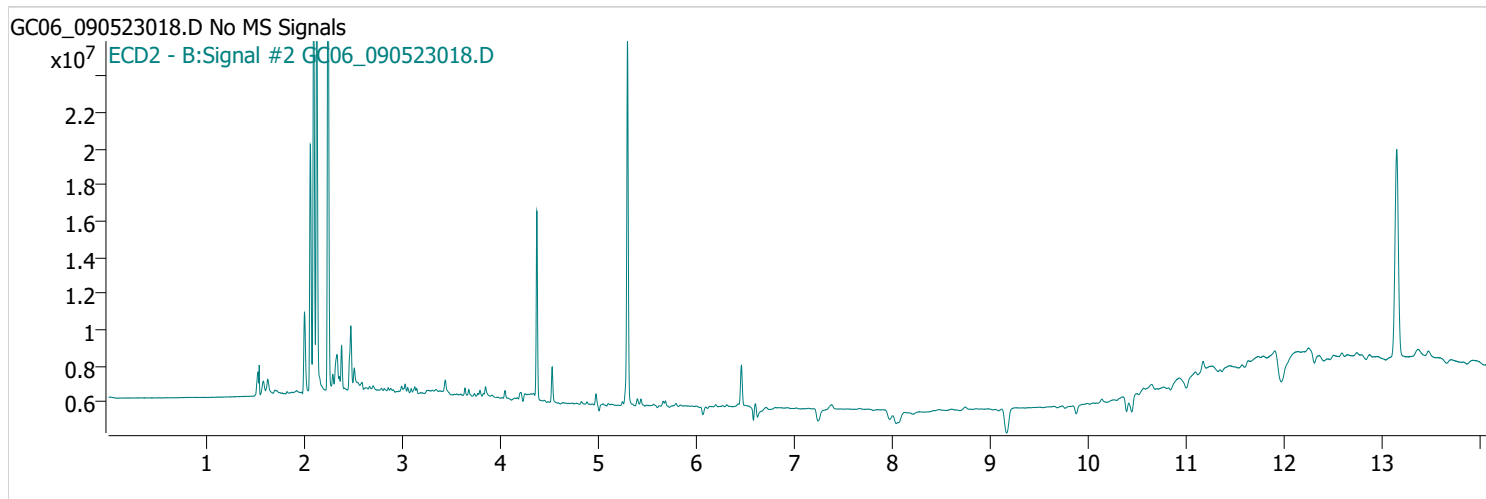
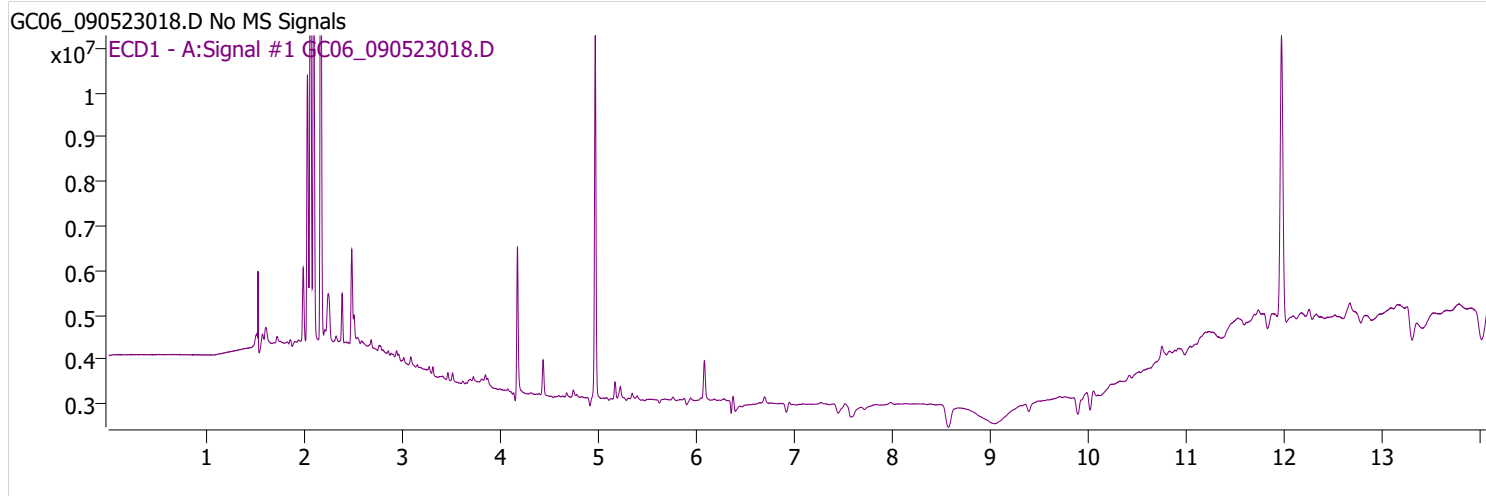
+ = high bias c = CCV u = use

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523018.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 1:46:08 PM
Sample Name	491224-013, 321684, 1	Instrument	SVOA-GC06
Vial	9	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	3959244.550	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.374	0.0	9947031.559	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.971	0.0	9389593.302	44.5052	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 222.53%	*	
S TCMX (PCB) #2	5.300	0.0	22214012.948	42.1004	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 210.50%	*	
S Decachlorobiphenyl (PCB)	11.979	0.0	12803771.105	48.4630	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 242.32%	*	
S Decachlorobiphenyl (PCB) #2	13.157	0.0	27823632.747	52.9679	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 264.84%	*	

Target Compounds

QValue

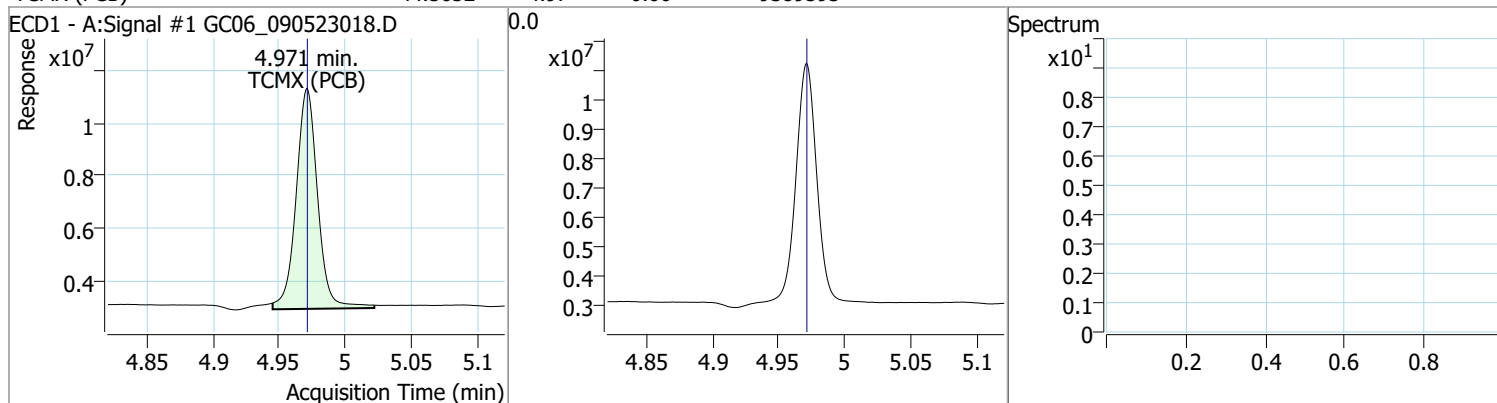
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.348	0.0	347909.200	78.7840	ng/ml	100
T AR1016 2	5.588	0.0	95625.218	10.6662	ng/ml	100
T AR1016 1 #2	5.797	0.0	443552.940	42.8109	ng/ml	100
T AR1016 3	6.086	0.0	1281005.23 5	111.7902	ng/ml	100
T AR1016 2 #2	6.201	0.0	1752396.64 7	75.2948	ng/ml	100
T AR1016 4	6.286	0.0	1604557.16 9	232.3168	ng/ml	100
T AR1016 5	6.444	0.0	192996.110	36.5363	ng/ml	100
T AR1016 3 #2	6.715	0.0	1796394.48 4	64.1450	ng/ml	100
T AR1016 4 #2	6.874	0.0	554922.603	27.5306	ng/ml	100
T AR1016 5 #2	7.027	0.0	104325.028	9.7030	ng/ml	100
T AR1260 1	8.685	0.0	1414118.39 1	108.0069	ng/ml	100
T AR1260 2	9.239	0.0	2624546.43 1	131.3091	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.742	0.0	686168.823	24.4601	ng/ml	100
T AR1260 4	10.058	0.0	967186.699	83.1217	ng/ml	100
T AR1260 2 #2	10.053	0.0	197099.798	6.2317	ng/ml	100
T AR1260 3 #2	10.569	0.0	1469932.95 2	36.3168	ng/ml	100
T AR1260 5	10.759	0.0	680825.423	37.0048	ng/ml	100
T AR1260 4 #2	10.936	0.0	3477572.42 4	147.0966	ng/ml	100
T AR1260 5 #2	11.578	0.0	213772.369	6.2384	ng/ml	100

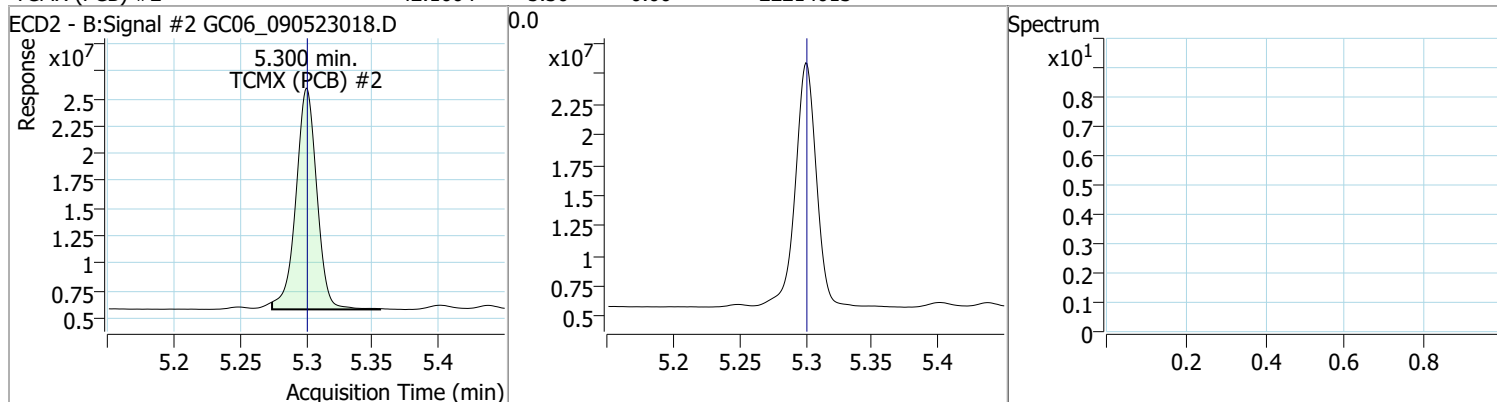
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

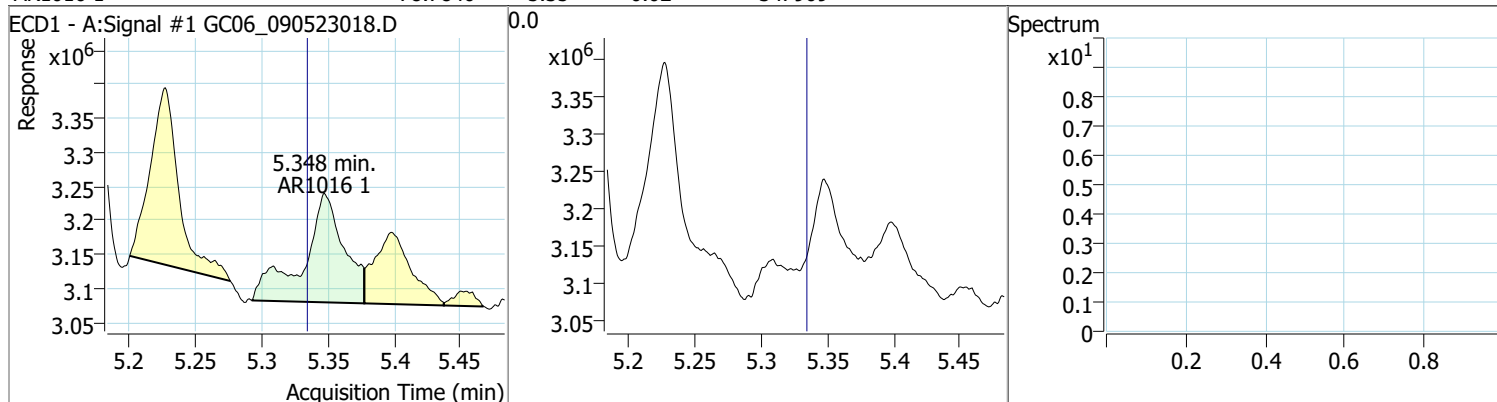
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	44.5052	4.97	0.00	9389593				



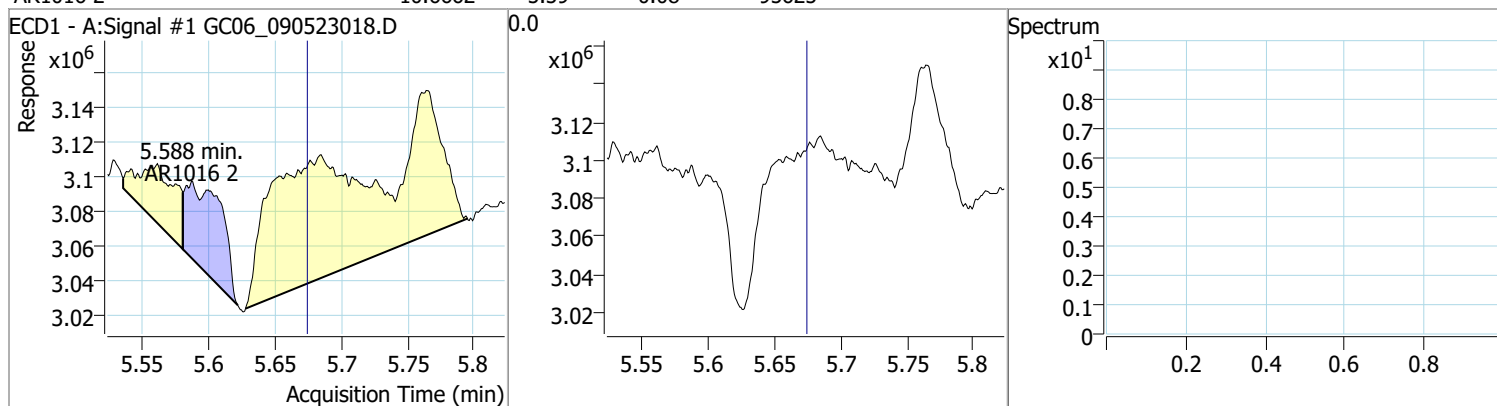
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	42.1004	5.30	0.00	22214013				



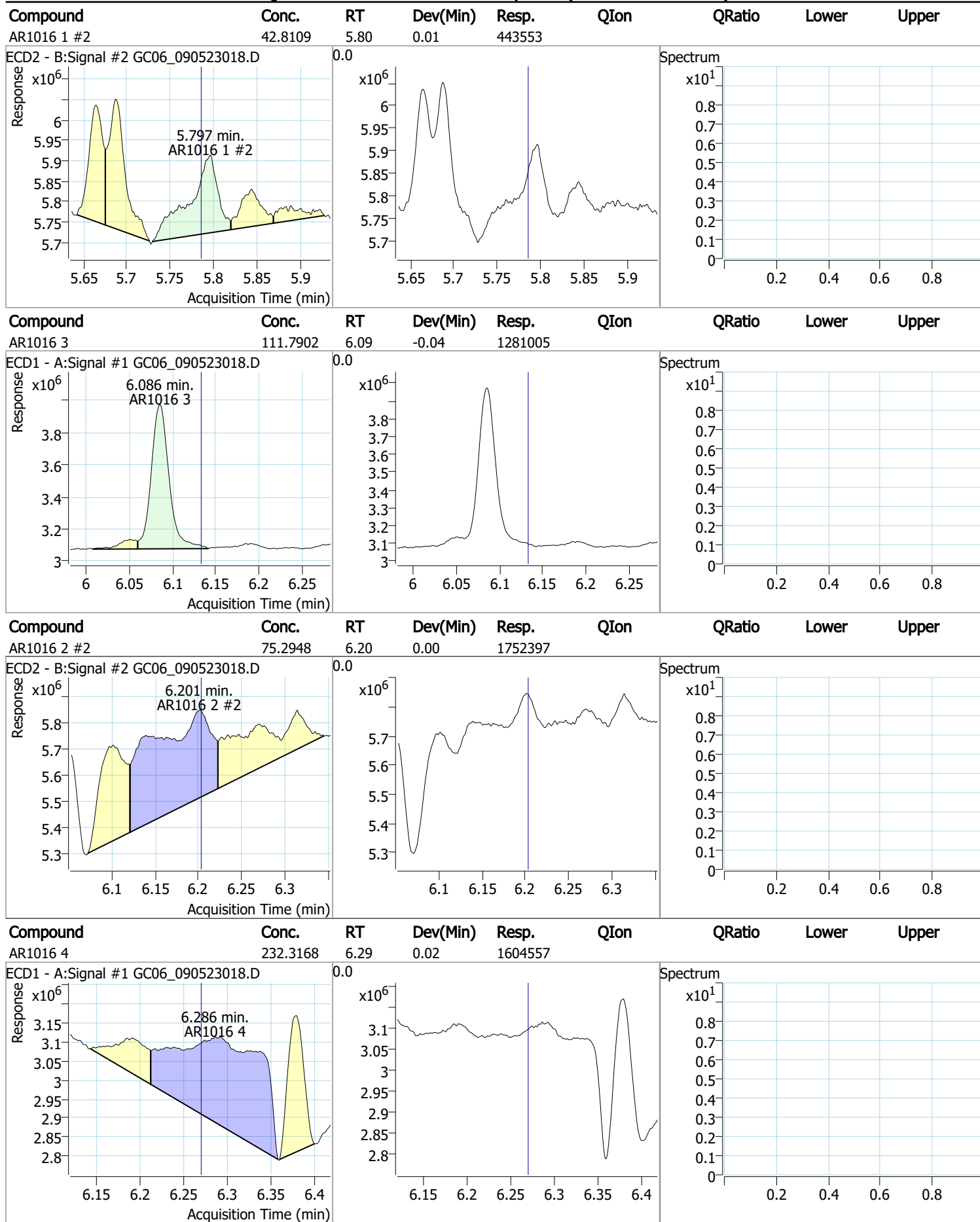
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	78.7840	5.35	0.02	347909				



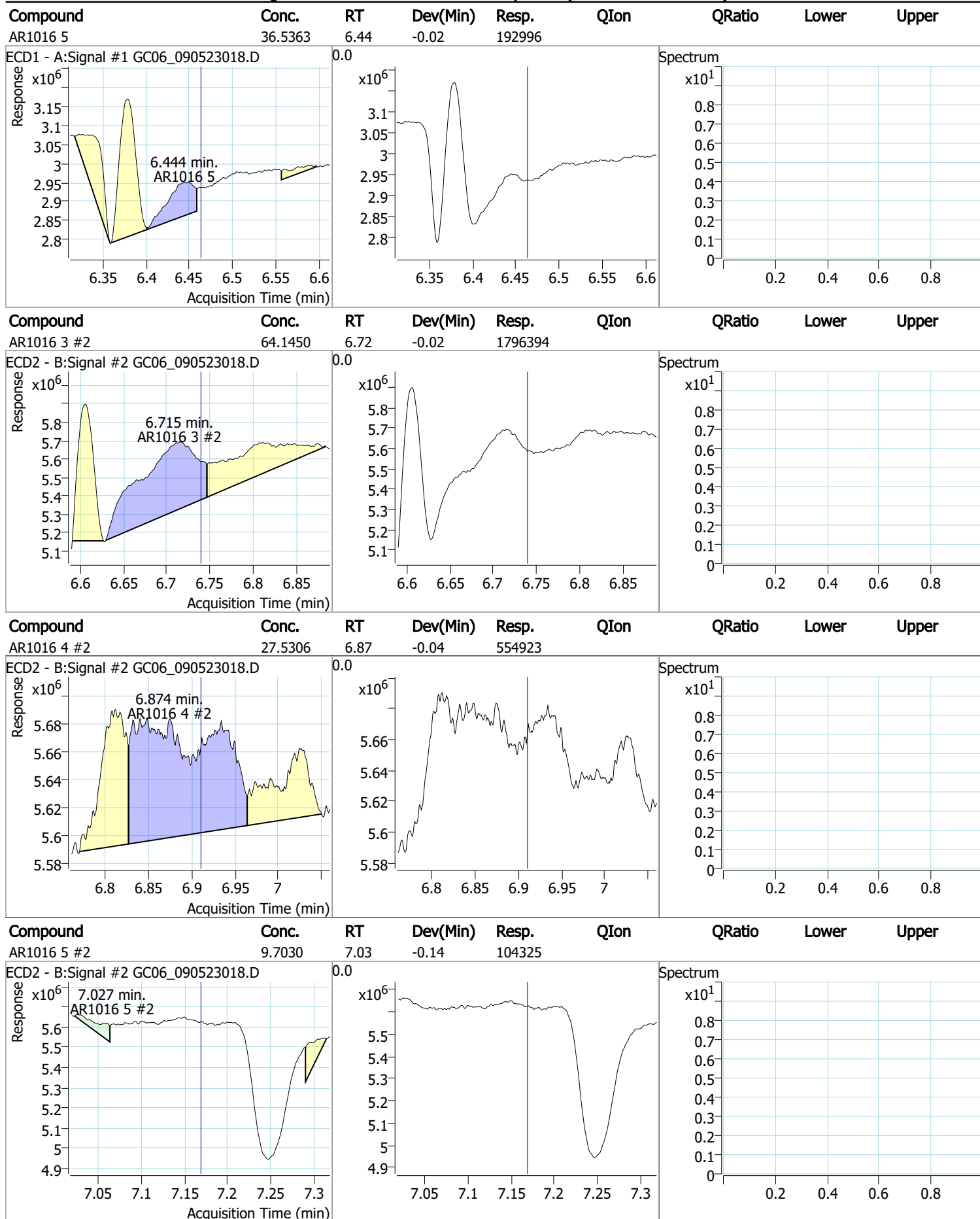
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	10.6662	5.59	-0.08	95625				



Quantitation Results Report (Not Reviewed)

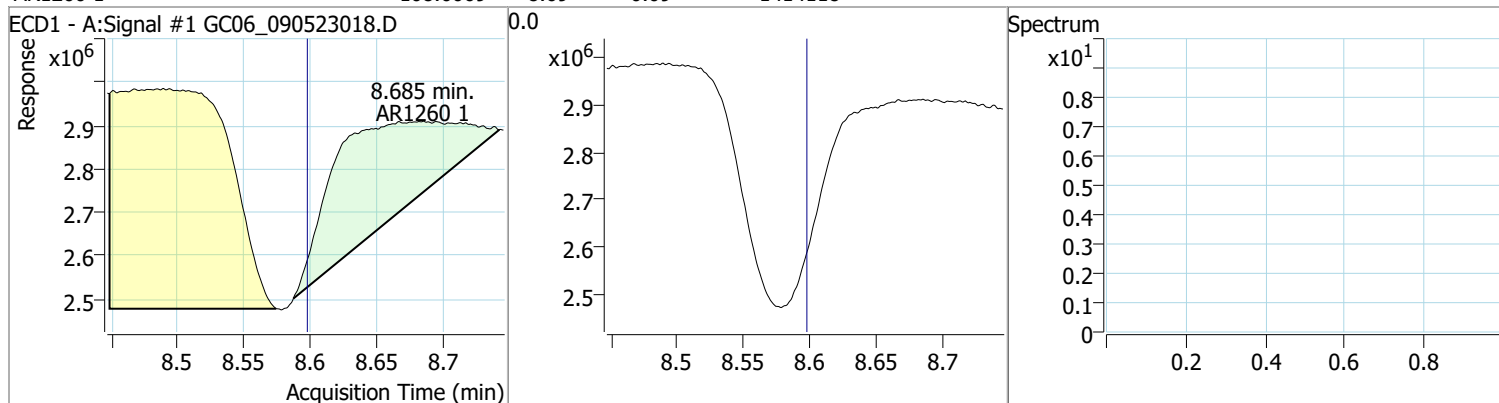


Quantitation Results Report (Not Reviewed)

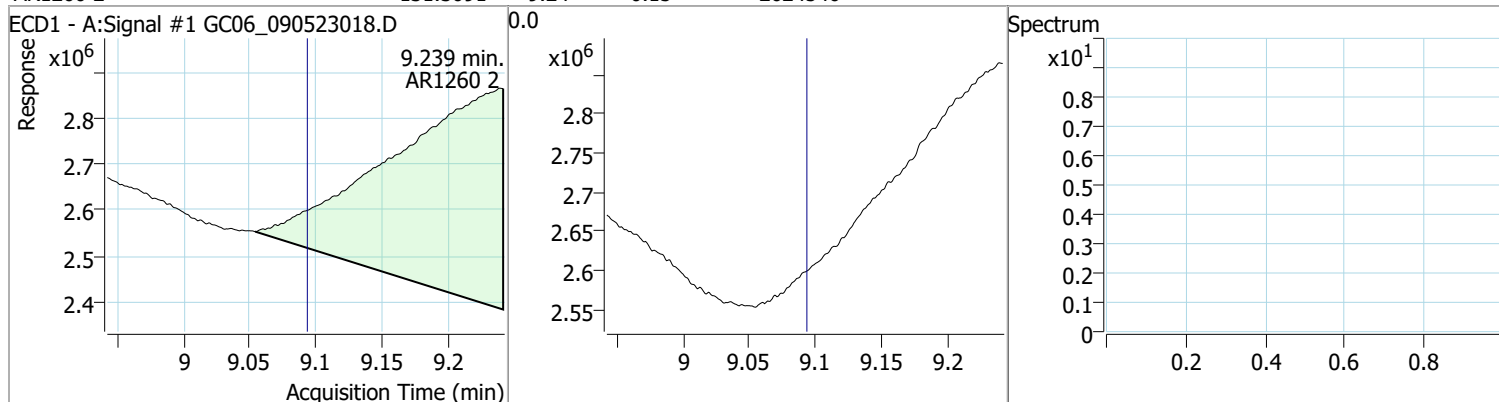


Quantitation Results Report (Not Reviewed)

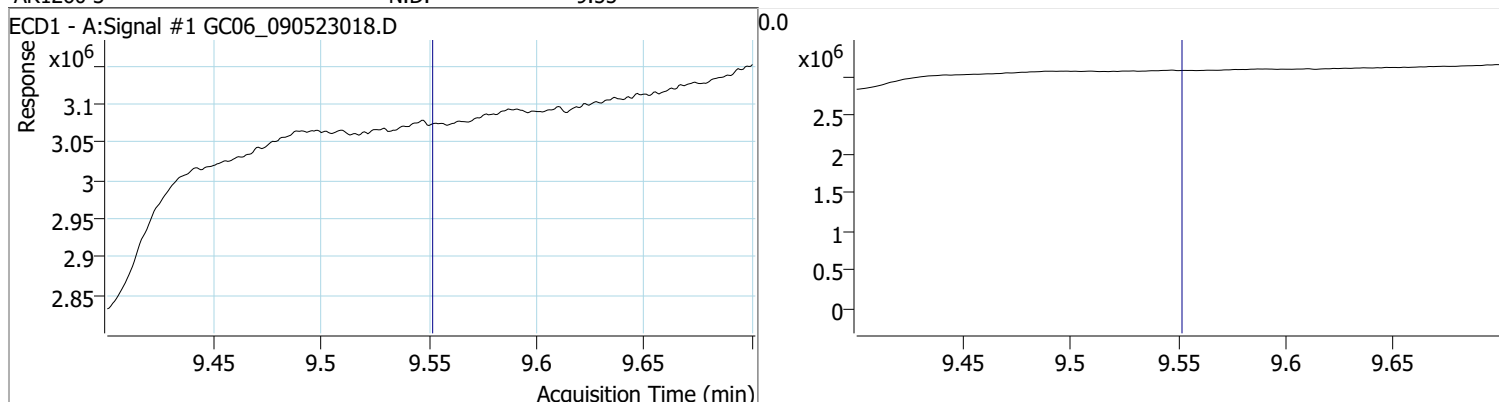
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	108.0069	8.69	0.09	1414118				



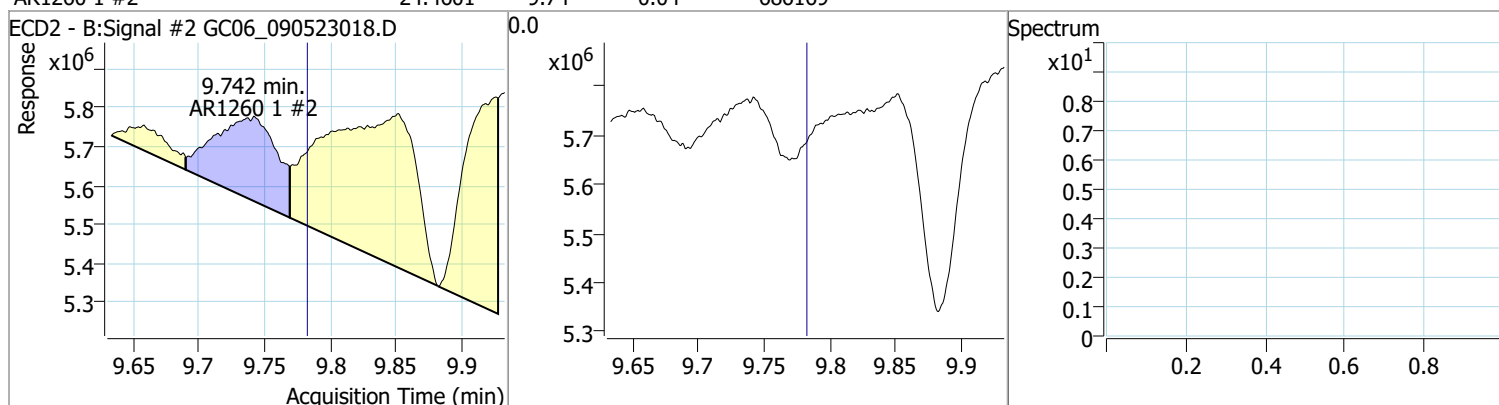
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	131.3091	9.24	0.15	2624546				



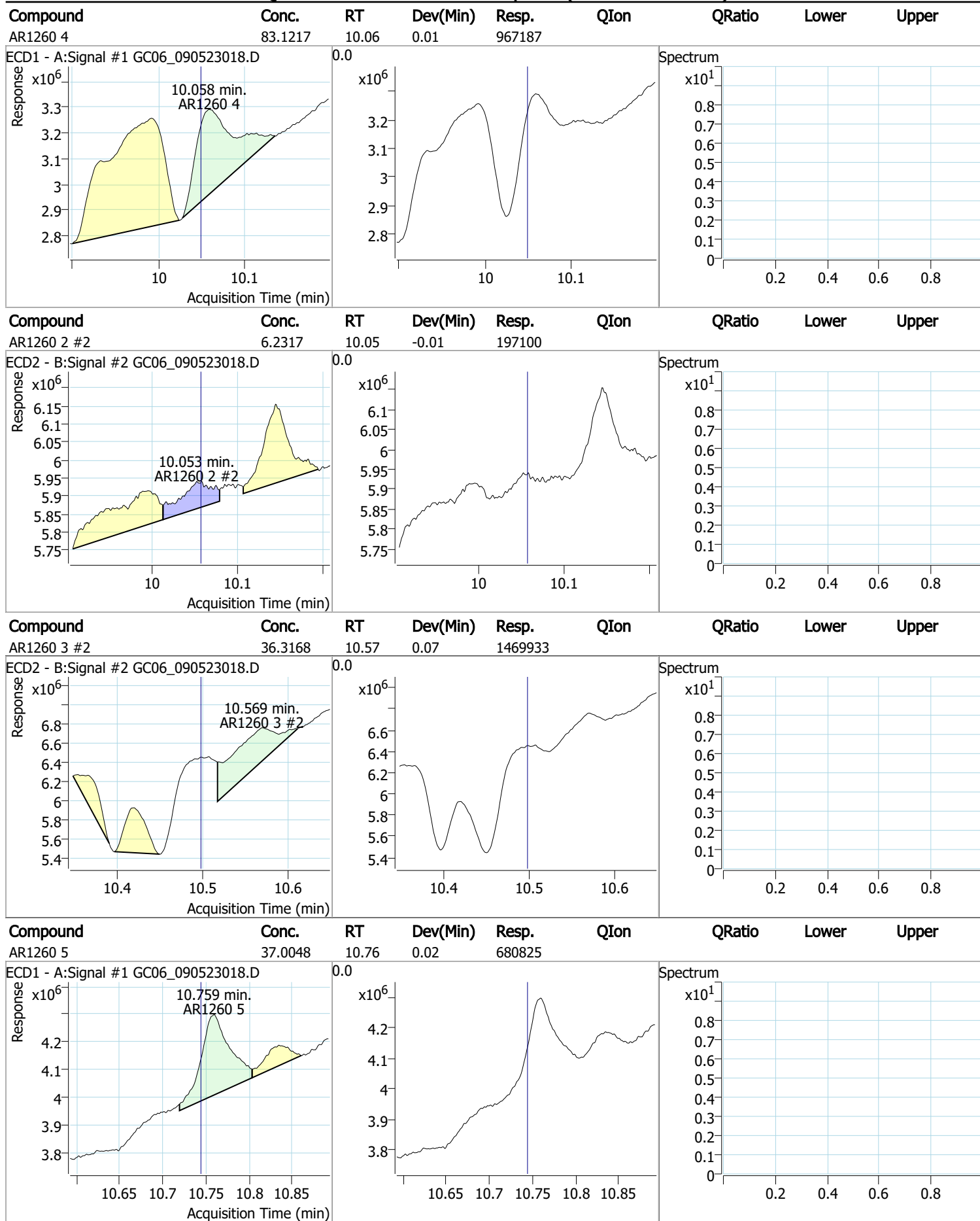
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.55		



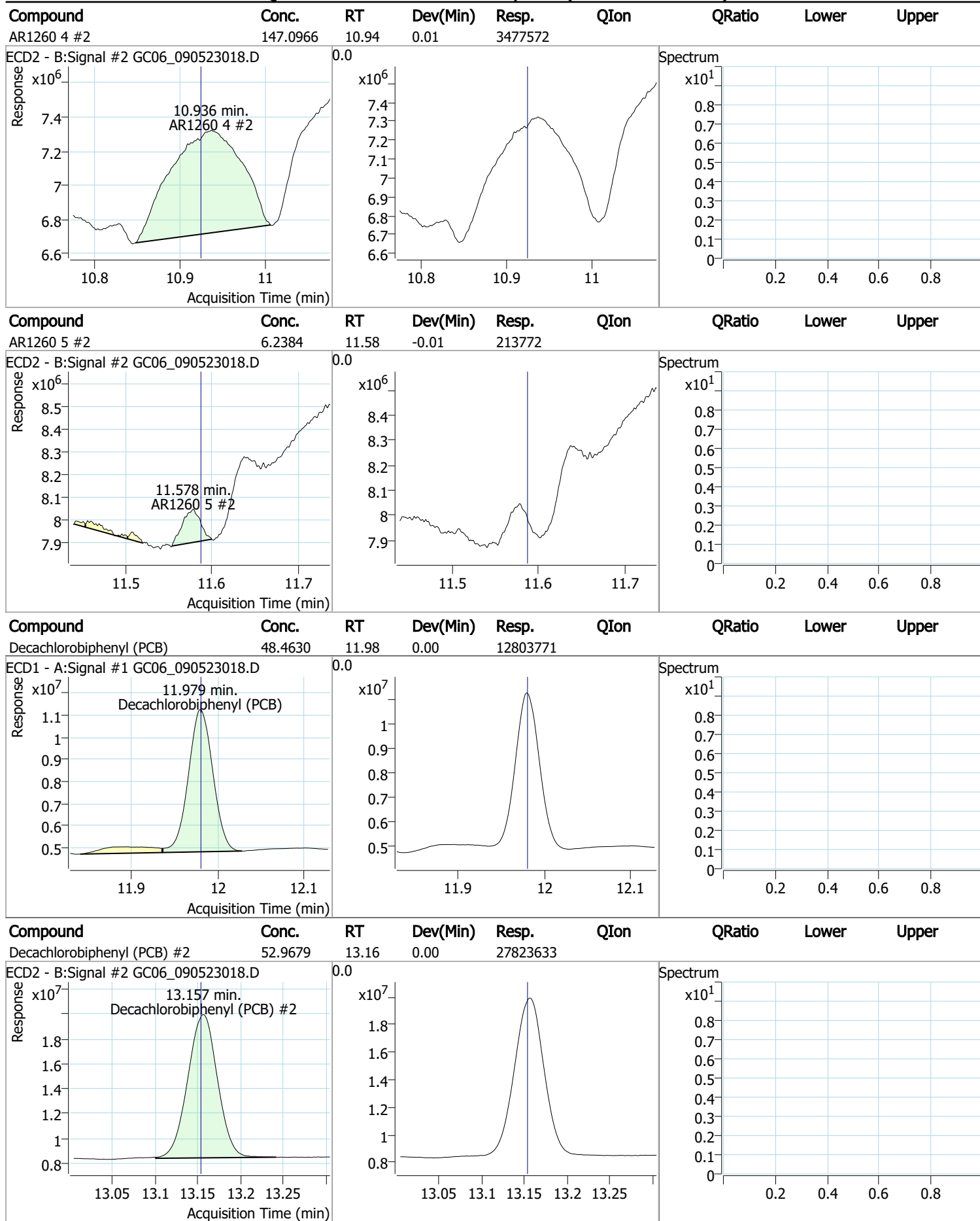
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	24.4601	9.74	-0.04	686169				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-014	Client ID: ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-P-DUP-LA
Seqnum: 453357659019	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523019	Batch: 321684	Time: 05-SEP-2023 14:04
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	44.03	ND	1.2	93%	0.50		u
Aroclor-1016 Peak # 1	B	45.14	0.45	0.84	60%			
Aroclor-1016 Peak # 2	B	64.10	0.64	0.60	7%			
Aroclor-1016 Peak # 3	B	102.1	1.02	1.52	40%			
Aroclor-1016 Peak # 4	B	8.850	0.09	2.46	186%			
Aroclor-1016 Peak # 5	B	0	ND	0.63				
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	43.08	ND	0.38	13%	0.50		u
Aroclor-1260 Peak # 1	B	22.95	0.23	0.87	116%			
Aroclor-1260 Peak # 2	B	14.03	0.14	0.01	182%			
Aroclor-1260 Peak # 3	B	15.30	0.15	ND				
Aroclor-1260 Peak # 4	B	158.2	1.58	0.54	98%			
Aroclor-1260 Peak # 5	B	4.967	0.05	0.47	162%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	40.90	0.5000	0.4090	82	19-121	u
Decachlorobiphenyl (PCB)	B	47.69	0.5000	0.4769	95	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	10553259	-16.55
1-bromo-2-nitrobenzene (PCB)	A	4899467	4052258	-17.29

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.37	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

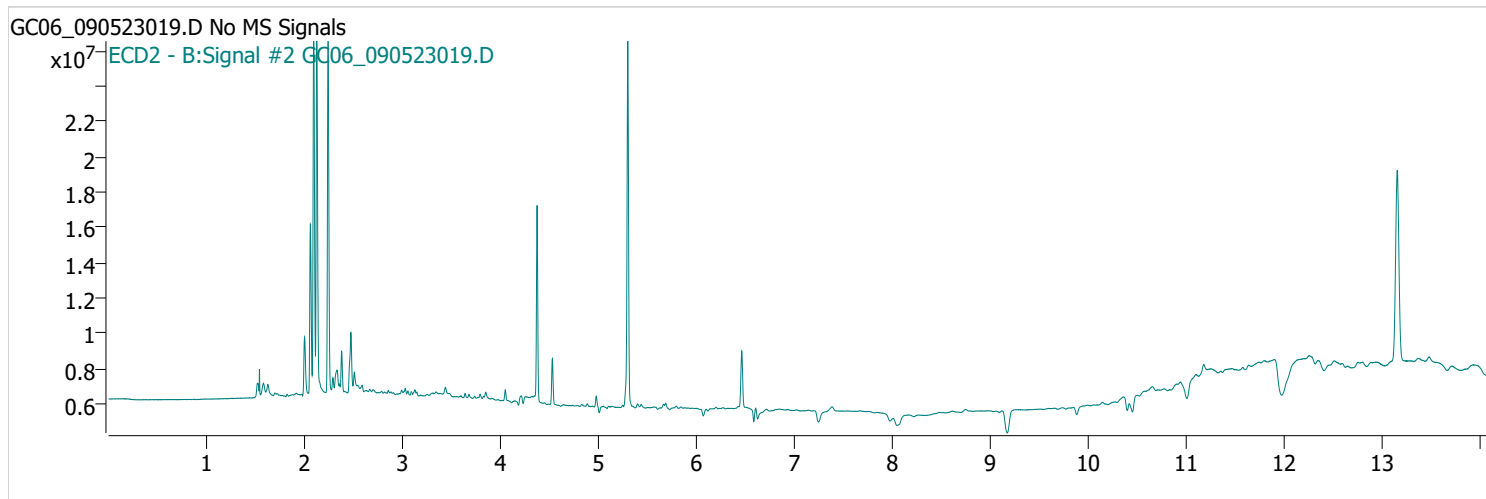
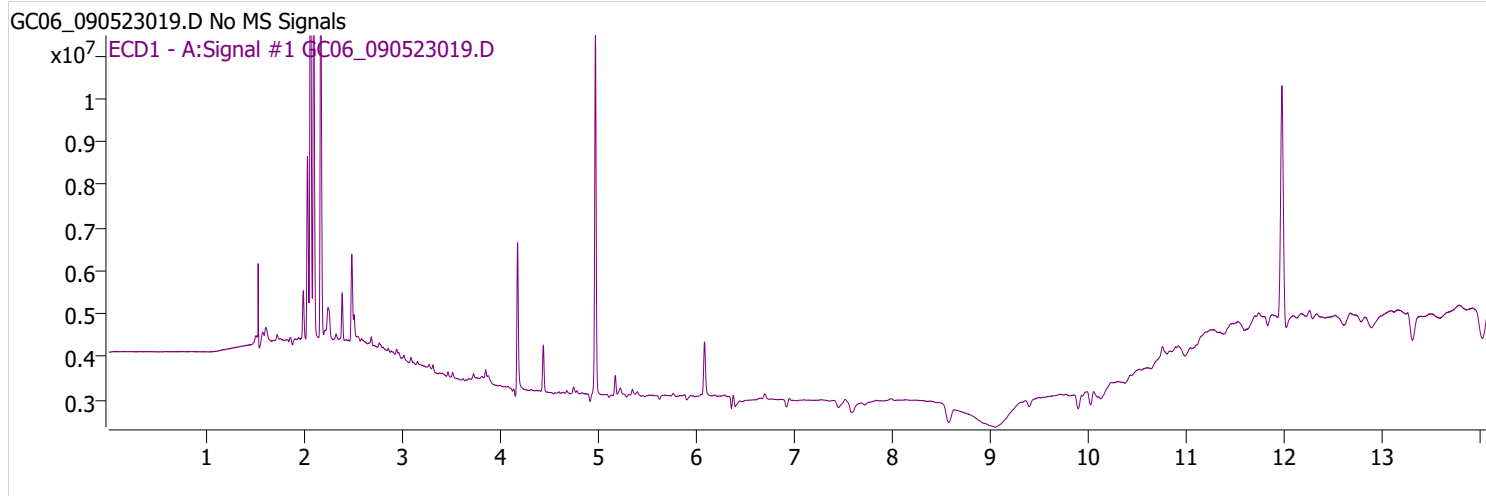
+ = high bias c = CCV u = use

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523019.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 2:04:51 PM
Sample Name	491224-014, 321684, 1	Instrument	SVOA-GC06
Vial	10	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.175	0.0	4052257.63 3	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.374	0.0	10553258.6 11	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.970	0.0	9534510.99 2	44.1548	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 220.77%	*	
S TCMX (PCB) #2	5.300	0.0	22896539.9 10	40.9012	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 204.51%	*	
S Decachlorobiphenyl (PCB)	11.977	0.0	10929373.2 51	40.4188	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 202.09%	*	
S Decachlorobiphenyl (PCB) #2	13.153	0.0	26579443.1 90	47.6927	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 238.46%	*	

Target Compounds

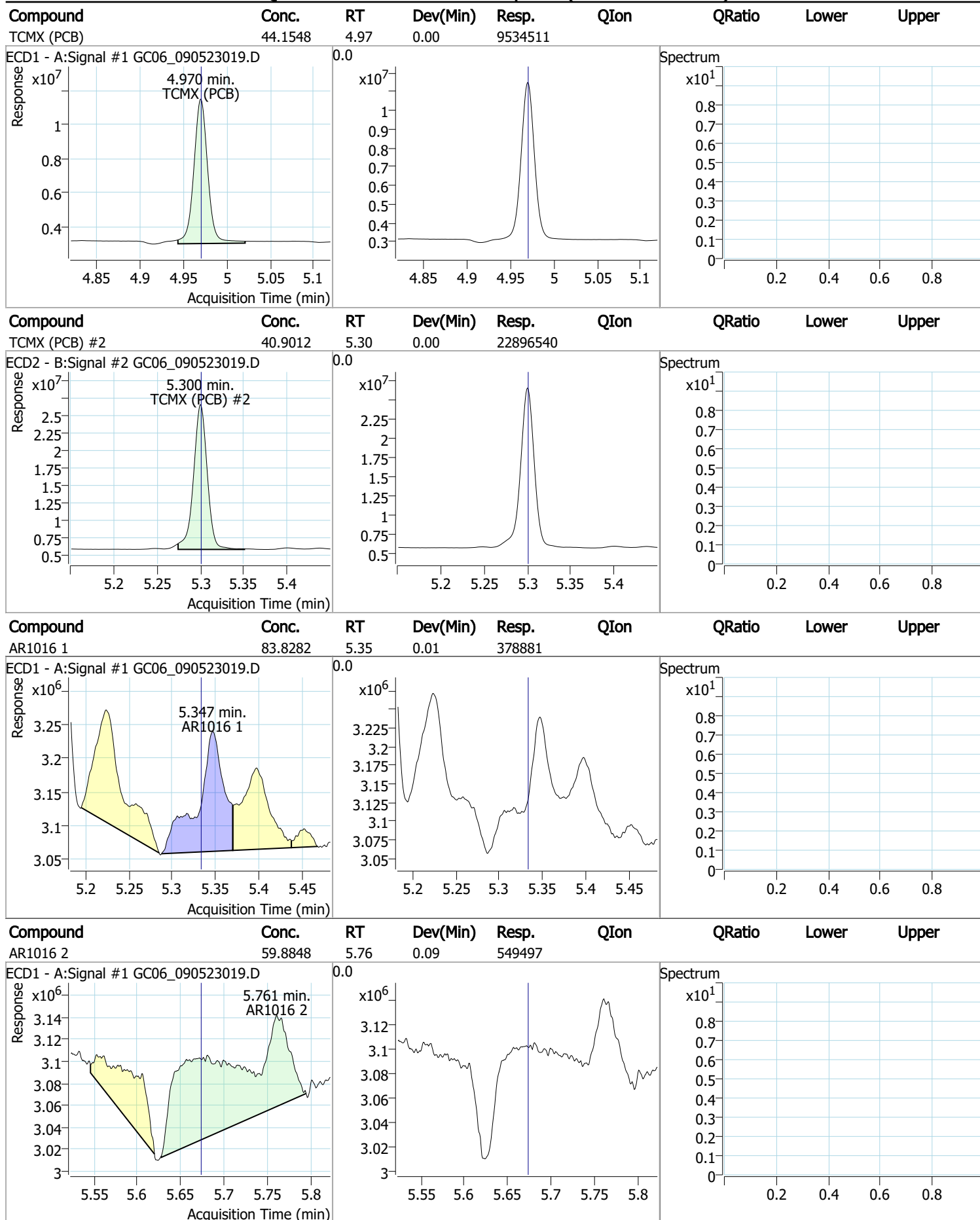
QValue

Quantitation Results Report (Not Reviewed)

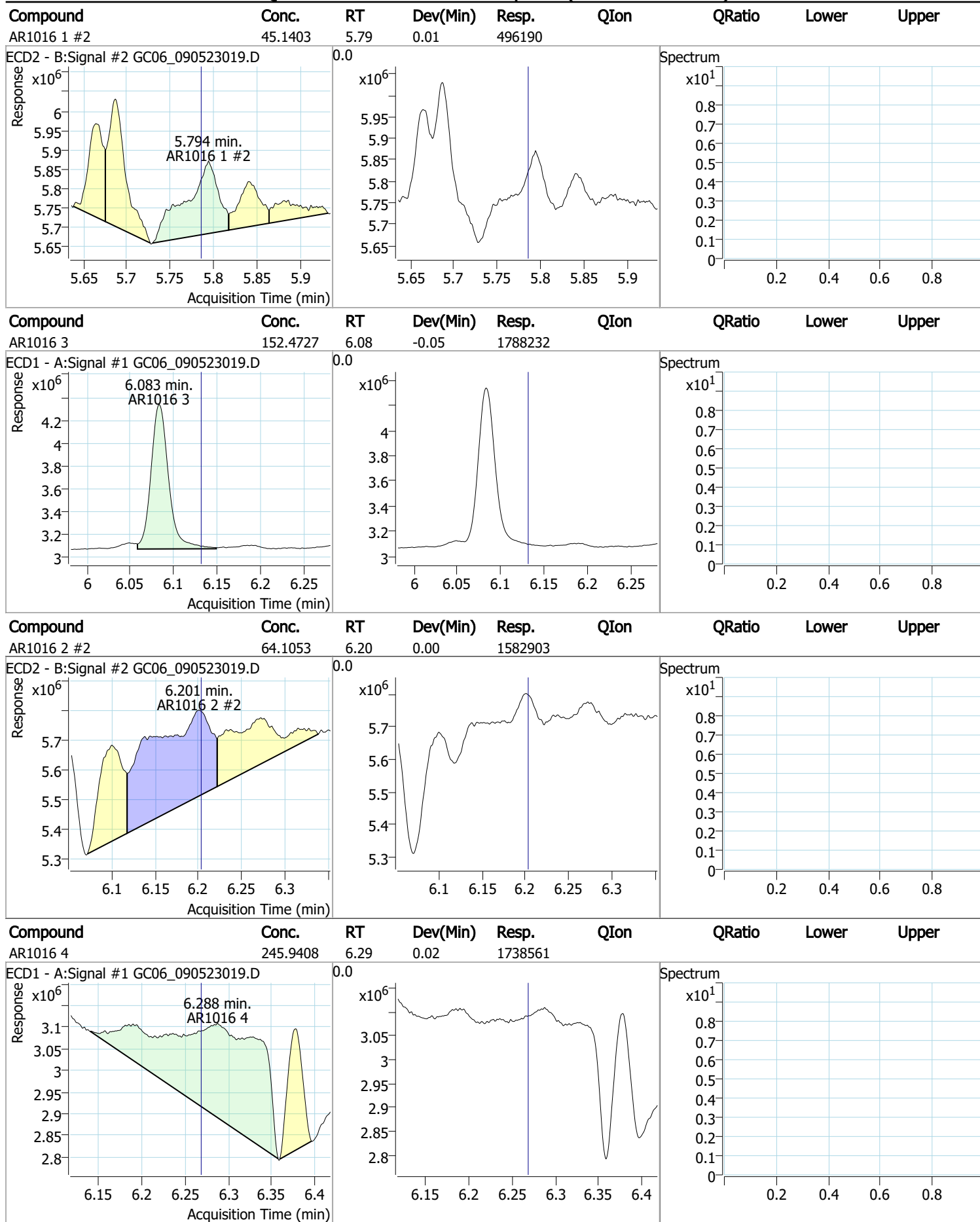
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.347	0.0	378880.844	83.8282	ng/ml	100
T AR1016 2	5.761	0.0	549497.377	59.8848	ng/ml	100
T AR1016 1 #2	5.794	0.0	496190.202	45.1403	ng/ml	100
T AR1016 3	6.083	0.0	1788231.75 0	152.4727	ng/ml	100
T AR1016 2 #2	6.201	0.0	1582903.47 7	64.1053	ng/ml	100
T AR1016 4	6.288	0.0	1738560.51 3	245.9408	ng/ml	100
T AR1016 5	6.378	0.0	342185.737	63.2926	ng/ml	100
T AR1016 3 #2	6.848	0.0	3032307.55 5	102.0567	ng/ml	100
T AR1016 4 #2	6.933	0.0	189261.686	8.8502	ng/ml	100
T AR1016 5 #2	0.000		0	N.D.		
T AR1260 1	8.630	0.0	1165350.86 3	86.9637	ng/ml	100
T AR1260 2	8.943	0.0	13499.016	0.6599	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.813	0.0	683073.080	22.9510	ng/ml	100
T AR1260 4	10.057	0.0	642913.693	53.9849	ng/ml	100
T AR1260 2 #2	9.990	0.0	470825.025	14.0308	ng/ml	100
T AR1260 3 #2	10.418	0.0	657181.607	15.3039	ng/ml	100
T AR1260 5	10.758	0.0	887390.779	47.1251	ng/ml	100
T AR1260 4 #2	10.940	0.0	3967309.00 6	158.1719	ng/ml	100
T AR1260 5 #2	11.575	0.0	180574.408	4.9669	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

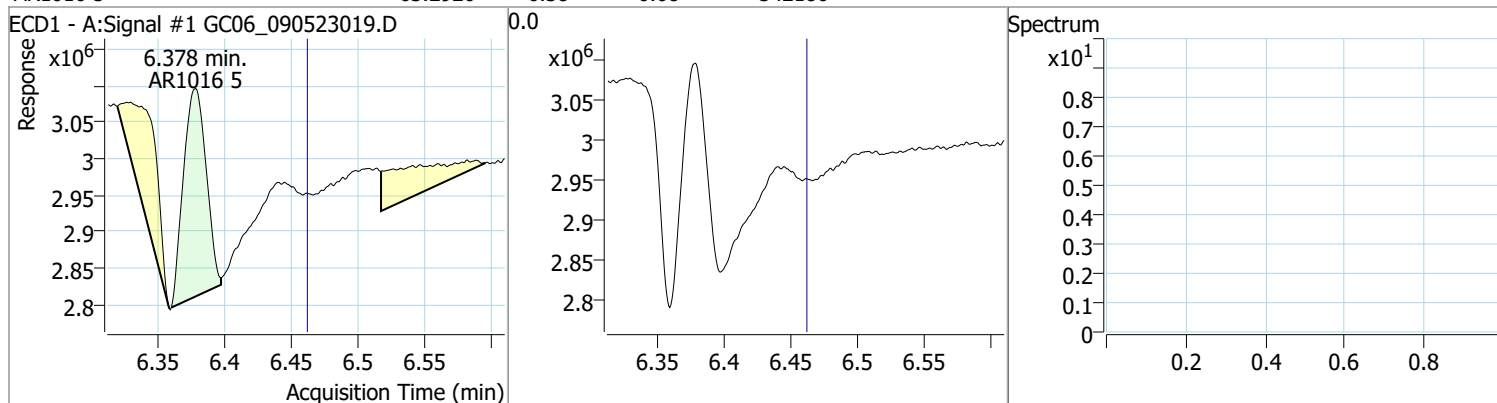


Quantitation Results Report (Not Reviewed)

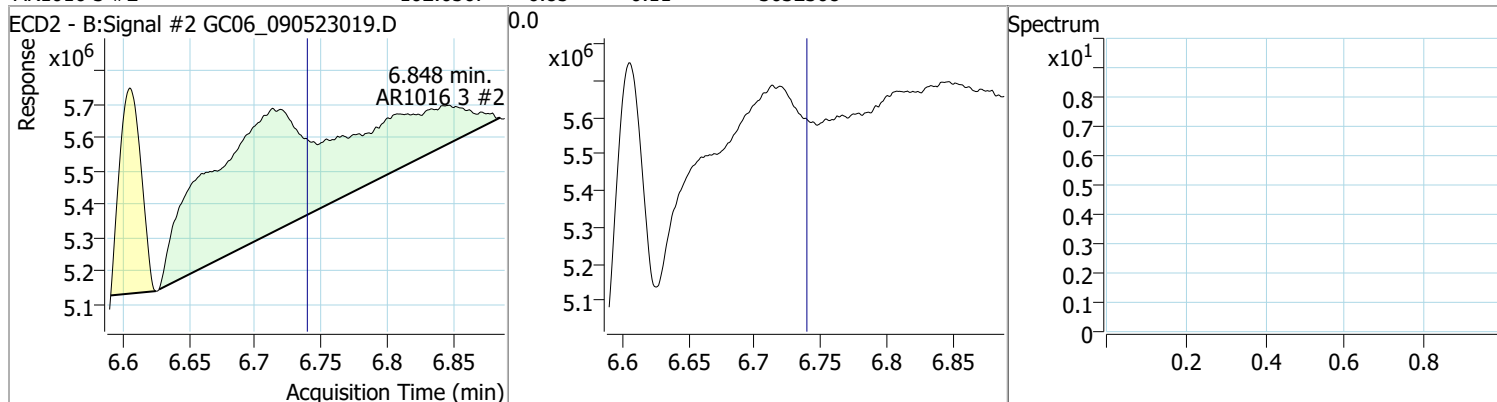


Quantitation Results Report (Not Reviewed)

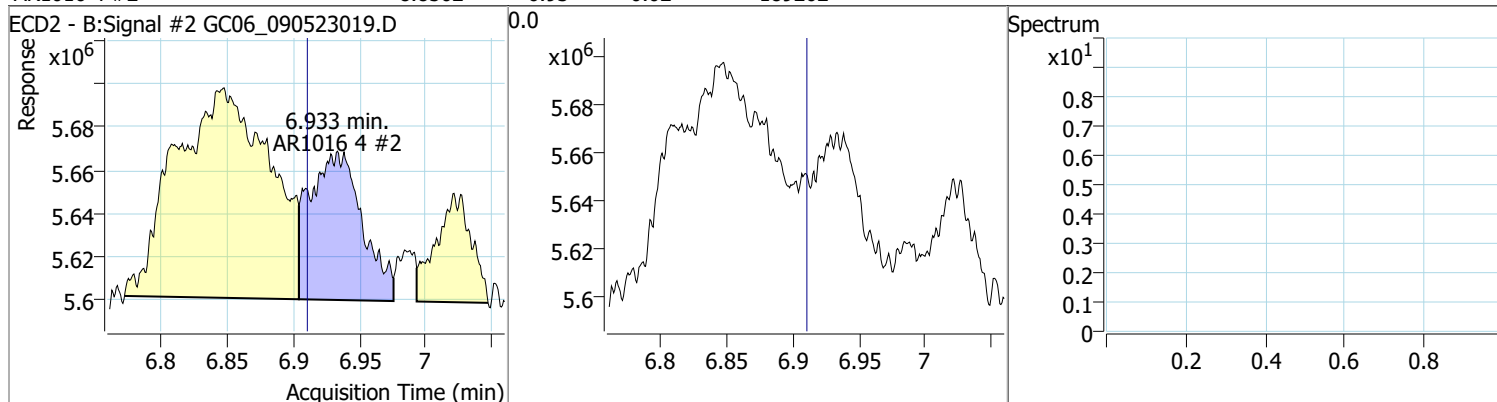
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	63.2926	6.38	-0.08	342186				



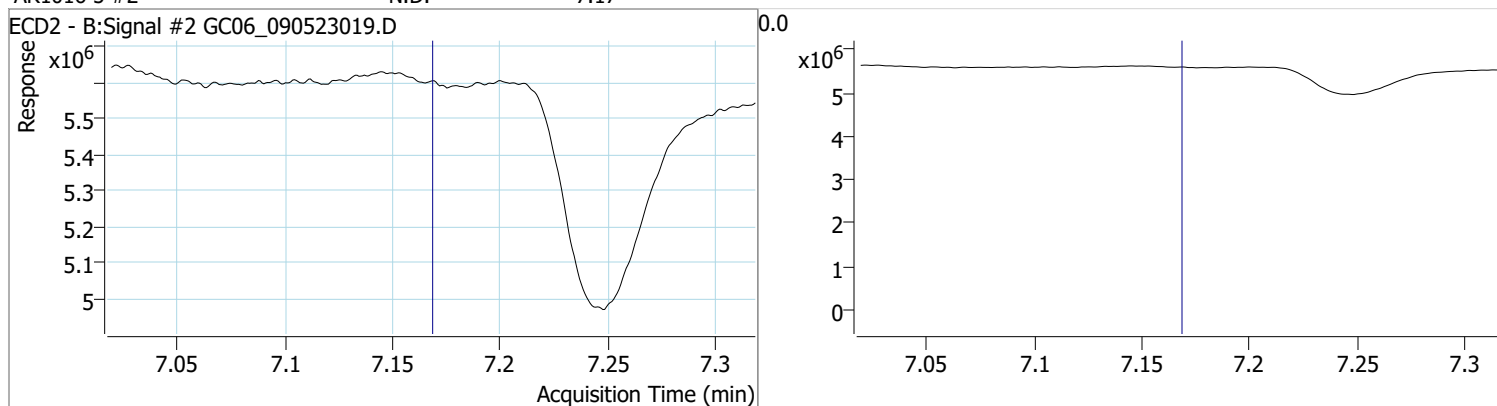
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	102.0567	6.85	0.11	3032308				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	8.8502	6.93	0.02	189262				



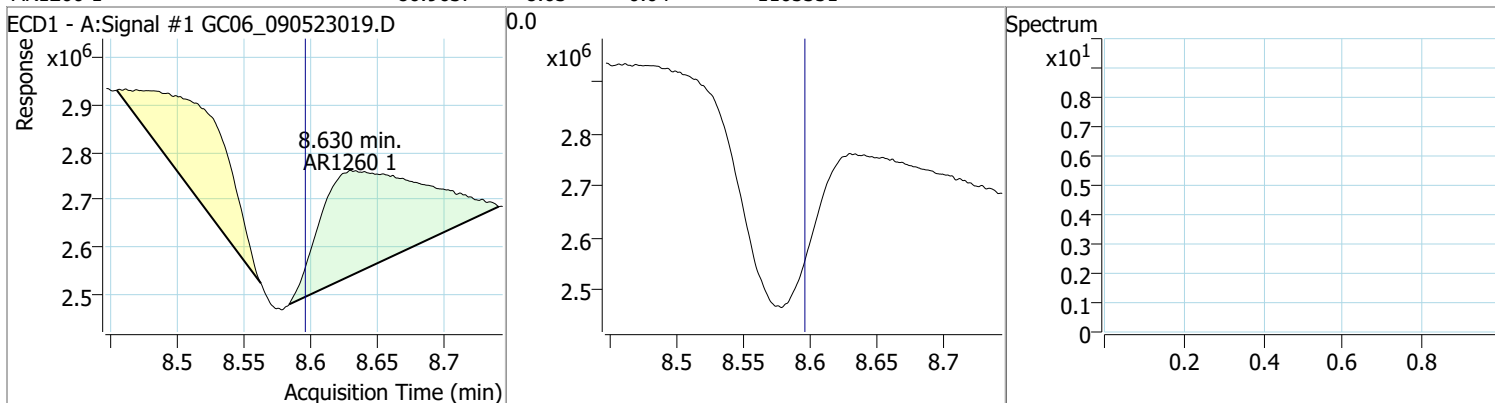
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1016 5 #2	N.D.	7.17		



Quantitation Results Report (Not Reviewed)

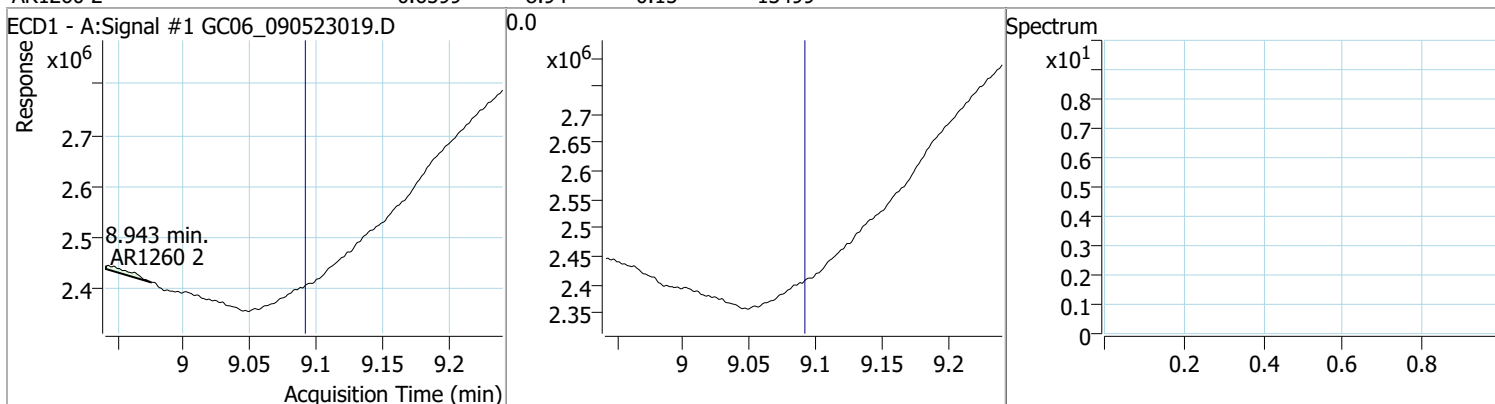
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 1 86.9637 8.63 0.04 1165351



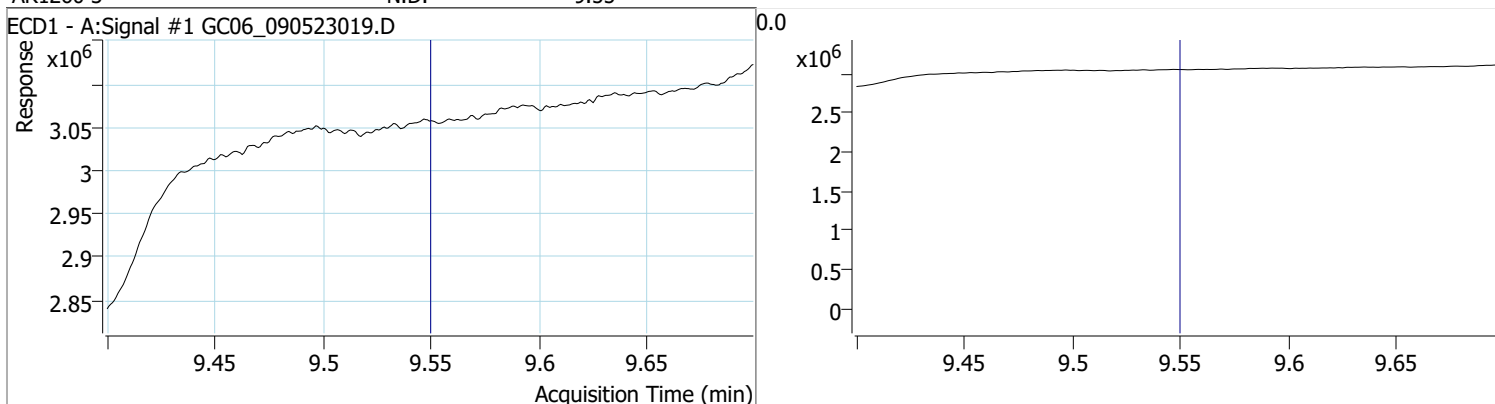
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 2 0.6599 8.94 -0.15 13499



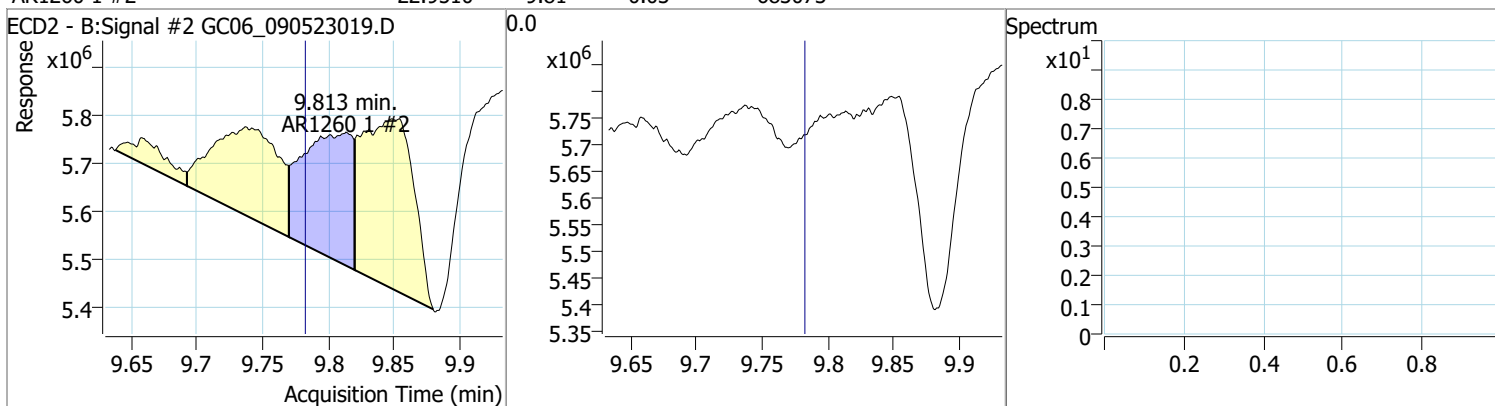
Compound	Conc.	Exp RT	QIon	Exp Ratio
----------	-------	--------	------	-----------

AR1260 3 N.D. 9.55

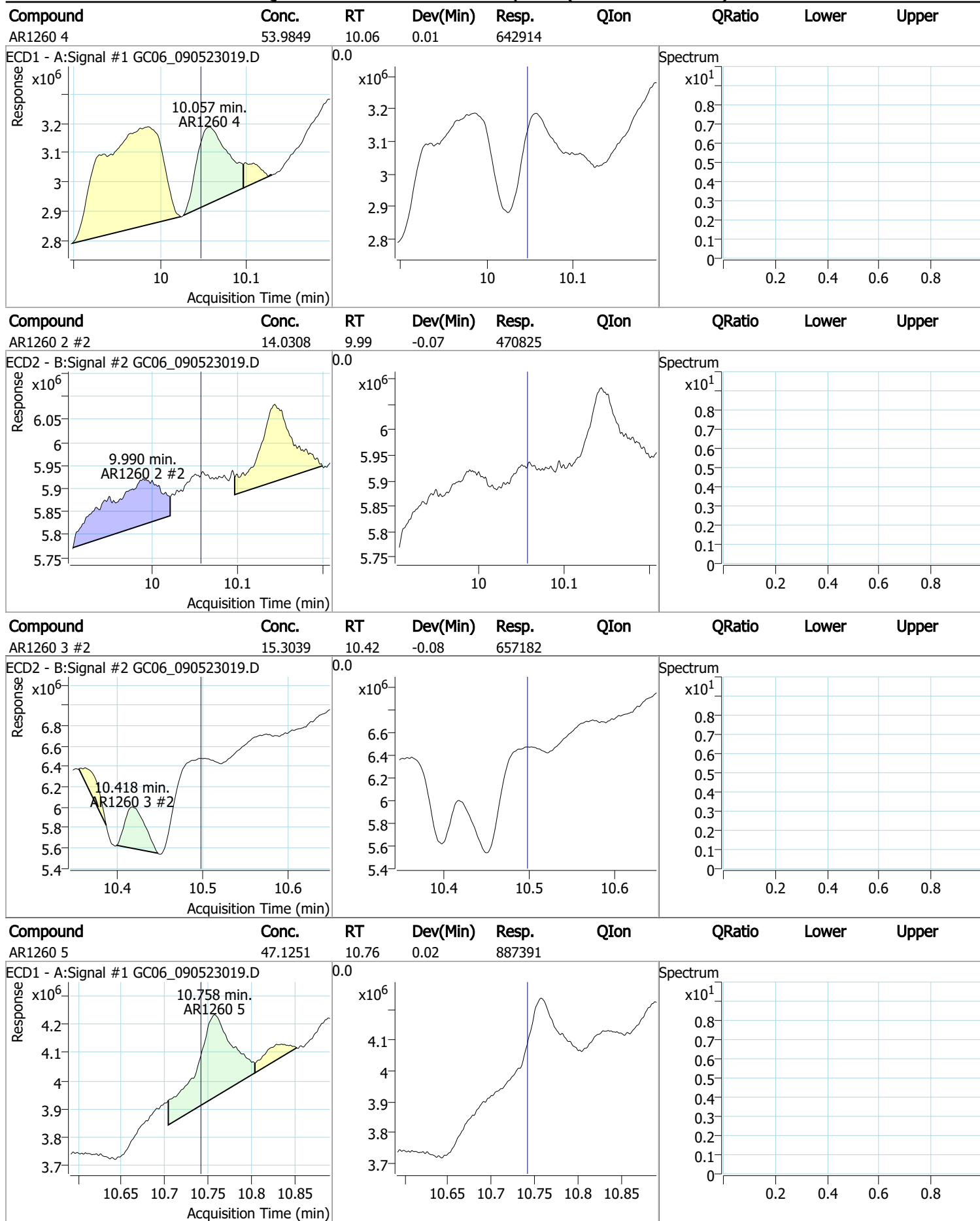


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

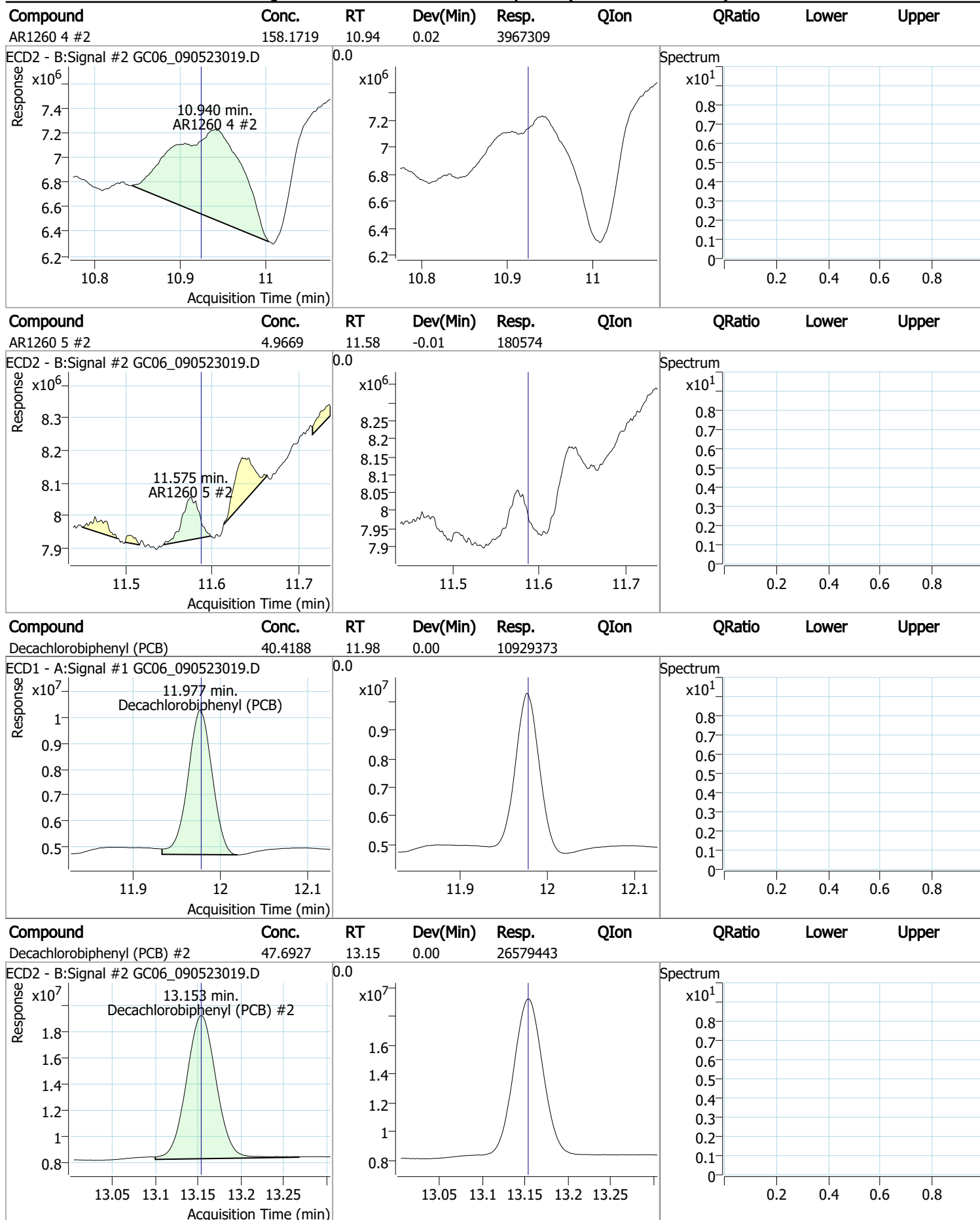
AR1260 1 #2 22.9510 9.81 0.03 683073



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-016	Client ID: ARCH-C11W-INT-1.5 TO 2.5-230828-P-WF
Seqnum: 453357659020	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523020	Batch: 321684	Time: 05-SEP-2023 14:23
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	85.74	0.86 FP	1.4	49%	0.50		x u
Aroclor-1016 Peak # 1	B	48.43	0.48	0.90	60%			
Aroclor-1016 Peak # 2	B	89.63	0.90	0.70	24%			
Aroclor-1016 Peak # 3	B	84.16	0.84	2.08	85%			
Aroclor-1016 Peak # 4	B	10.17	0.10	2.86	186%			
Aroclor-1016 Peak # 5	B	196.3	1.96	0.52	117%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	63.77	0.64 FP	0.43	39%	0.50		x u
Aroclor-1260 Peak # 1	B	23.16	0.23	0.81	111%			
Aroclor-1260 Peak # 2	B	6.834	0.07	0.03	69%			
Aroclor-1260 Peak # 3	B	15.88	0.16	ND				
Aroclor-1260 Peak # 4	B	253.2	2.53	0.54	129%			
Aroclor-1260 Peak # 5	B	19.75	0.20	0.77	118%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	43.01	0.5000	0.4301	86	19-121	u
Decachlorobiphenyl (PCB)	B	43.98	0.5000	0.4398	88	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	8951131	-29.22
1-bromo-2-nitrobenzene (PCB)	A	4899467	3484726	-28.88

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.37	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

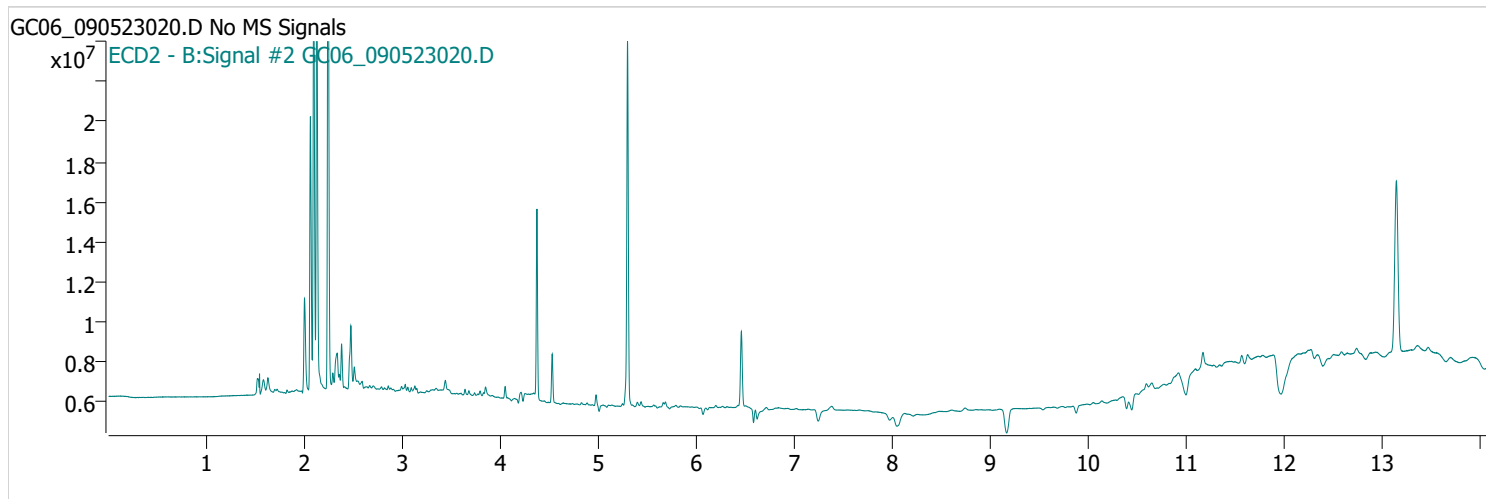
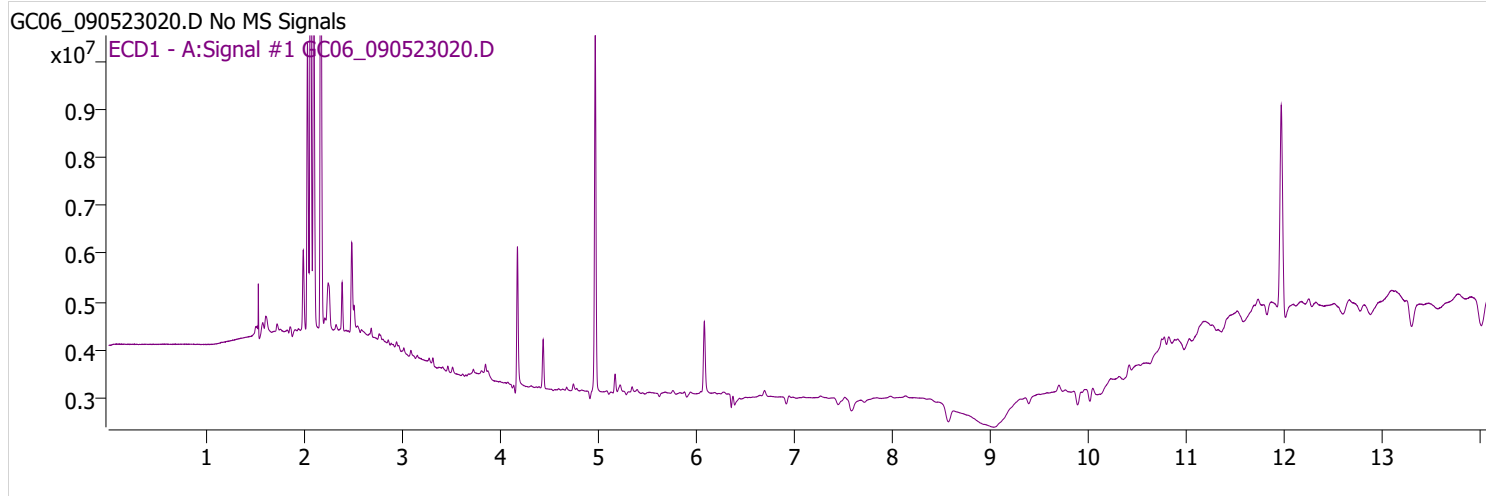
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523020.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 2:23:33 PM
Sample Name	491224-016, 321684, 1	Instrument	SVOA-GC06
Vial	11	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	3484725.87 1	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.374	0.0	8951130.99 2	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.970	0.0	8628196.47 5	46.4652	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 232.33%	*	
S TCMX (PCB) #2	5.300	0.0	20420750.7 46	43.0077	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 215.04%	*	
S Decachlorobiphenyl (PCB)	11.977	0.0	8568331.66 5	36.8479	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 184.24%	*	
S Decachlorobiphenyl (PCB) #2	13.153	0.0	20791910.2 29	43.9855	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 219.93%	*	

Target Compounds

GC06_090523020.D

Quantitation Results Report (Not Reviewed)

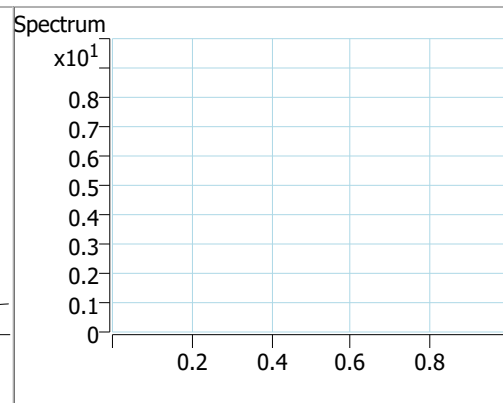
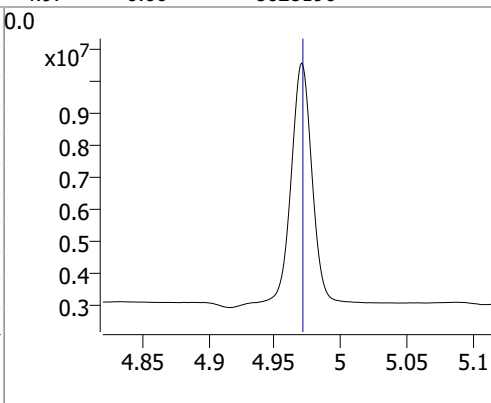
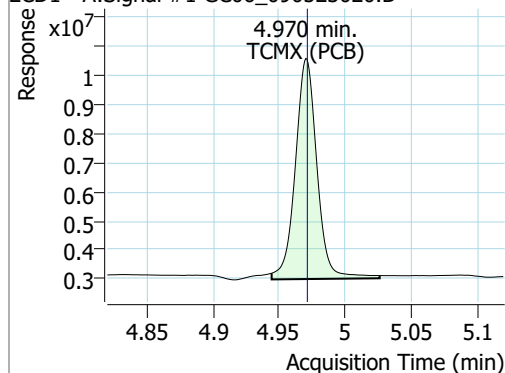
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.347	0.0	348372.773	89.6314	ng/ml	100
T AR1016 2	5.764	0.0	554801.209	70.3099	ng/ml	100
T AR1016 1 #2	5.794	0.0	451505.643	48.4270	ng/ml	100
T AR1016 3	6.084	0.0	2099252.380	208.1428	ng/ml	100
T AR1016 2 #2	6.201	0.0	1877120.939	89.6273	ng/ml	100
T AR1016 4	6.281	0.0	1740591.910	286.3295	ng/ml	100
T AR1016 5	6.377	0.0	240381.616	51.7036	ng/ml	100
T AR1016 3 #2	6.720	0.0	2120958.809	84.1607	ng/ml	100
T AR1016 4 #2	6.934	0.0	184418.022	10.1672	ng/ml	100
T AR1016 5 #2	7.316	0.0	1899533.440	196.3274	ng/ml	100
T AR1260 1	8.630	0.0	932252.889	80.8990	ng/ml	100
T AR1260 2	8.944	0.0	58445.070	3.3222	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.741	0.0	584624.484	23.1590	ng/ml	100
T AR1260 4	10.052	0.0	557662.160	54.4526	ng/ml	100
T AR1260 2 #2	10.058	0.0	194514.577	6.8342	ng/ml	100
T AR1260 3 #2	10.418	0.0	578310.249	15.8777	ng/ml	100
T AR1260 5	10.782	0.0	1244422.232	76.8482	ng/ml	100
T AR1260 4 #2	10.924	0.0	5387382.050	253.2327	ng/ml	100
T AR1260 5 #2	11.573	0.0	609128.287	19.7536	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

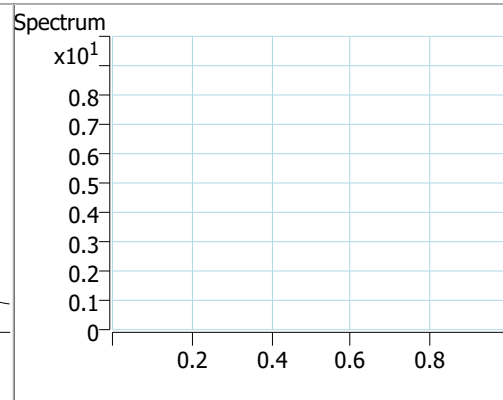
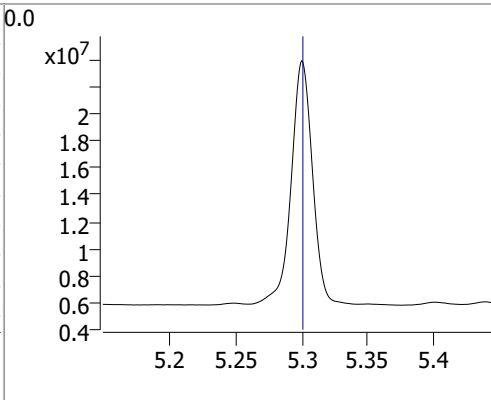
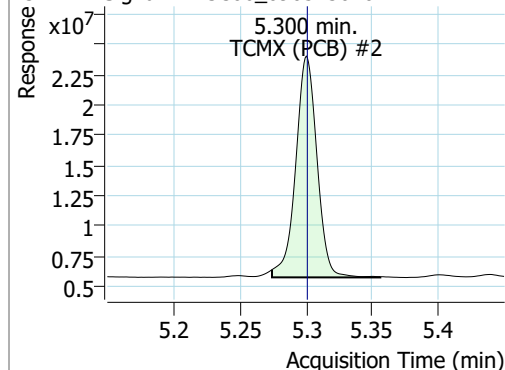
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	46.4652	4.97	0.00	8628196				

ECD1 - A:Signal #1 GC06_090523020.D



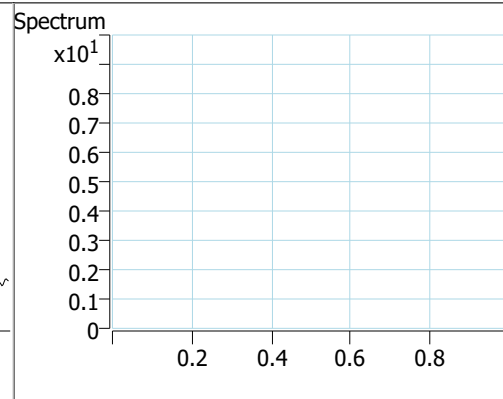
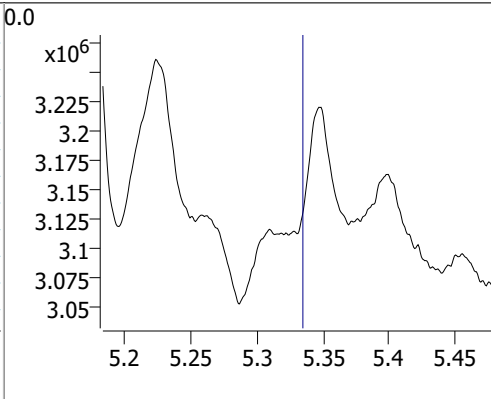
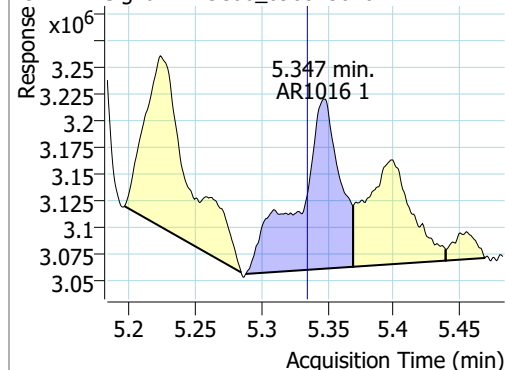
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	43.0077	5.30	0.00	20420751				

ECD2 - B:Signal #2 GC06_090523020.D



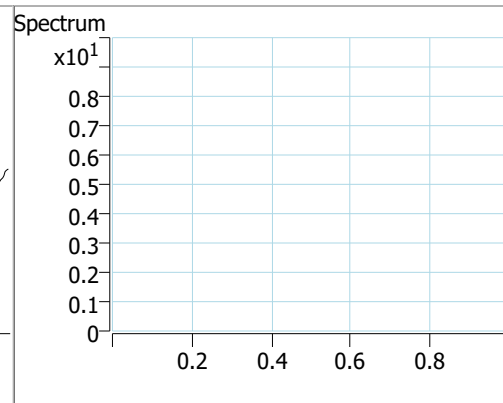
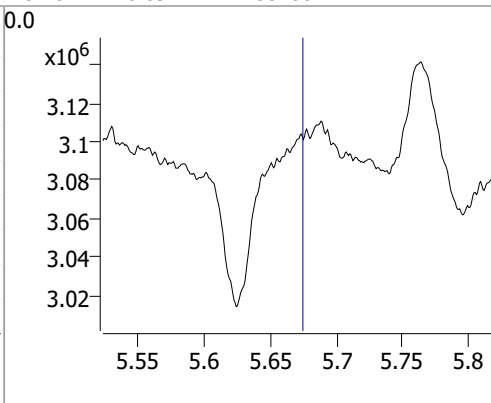
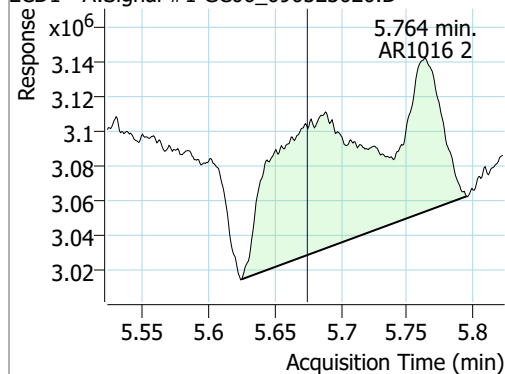
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	89.6314	5.35	0.01	348373				

ECD1 - A:Signal #1 GC06_090523020.D

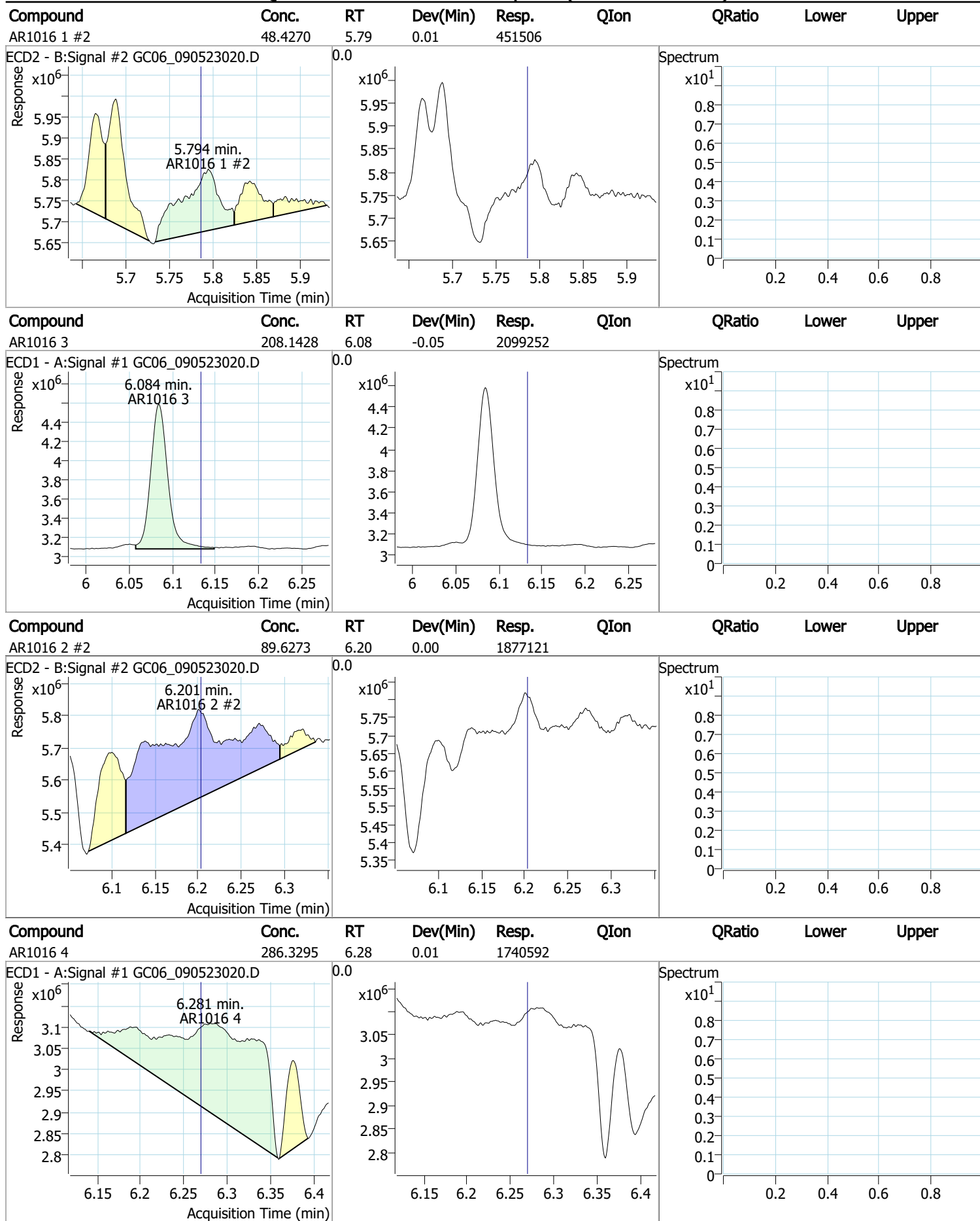


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	70.3099	5.76	0.09	554801				

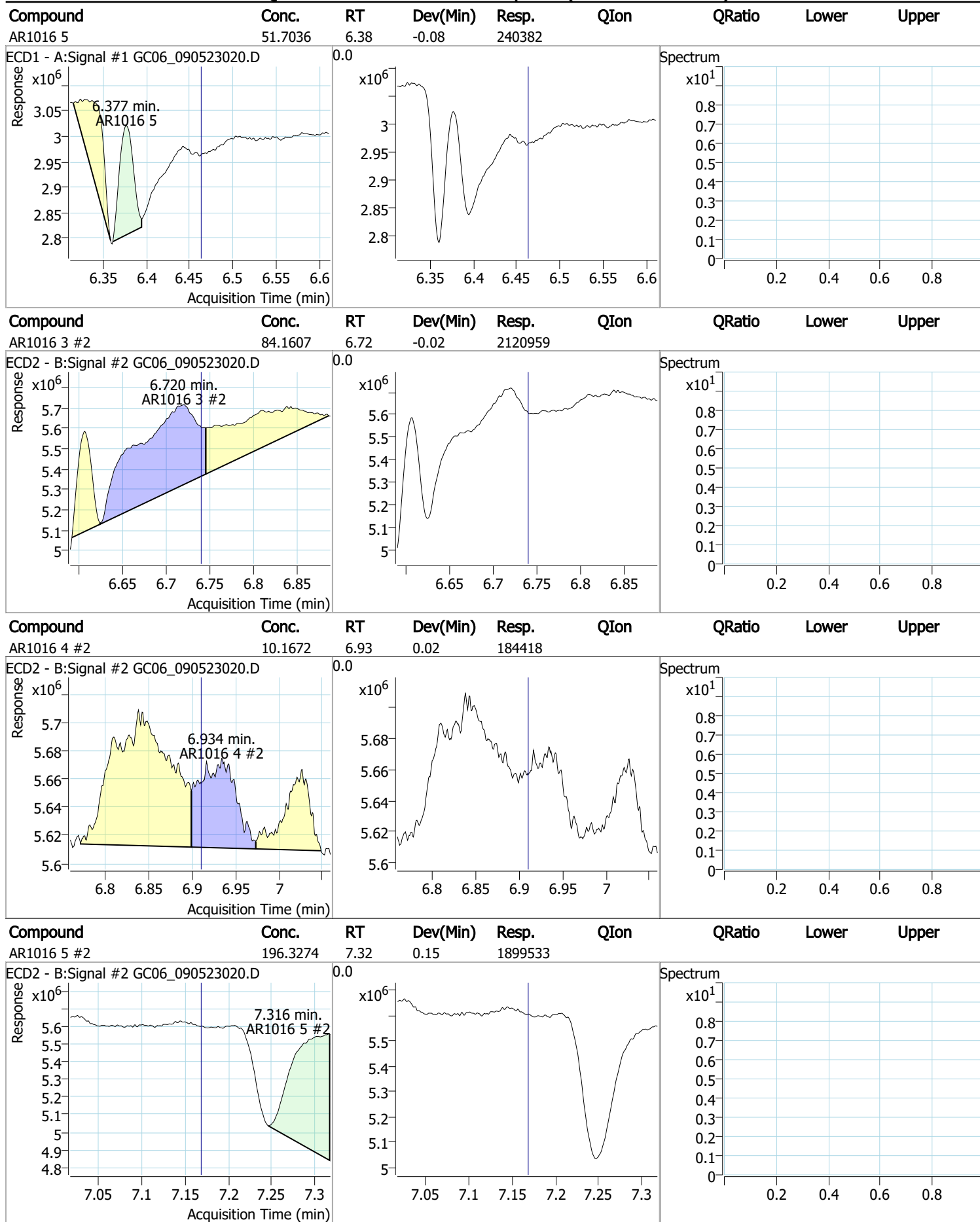
ECD1 - A:Signal #1 GC06_090523020.D



Quantitation Results Report (Not Reviewed)

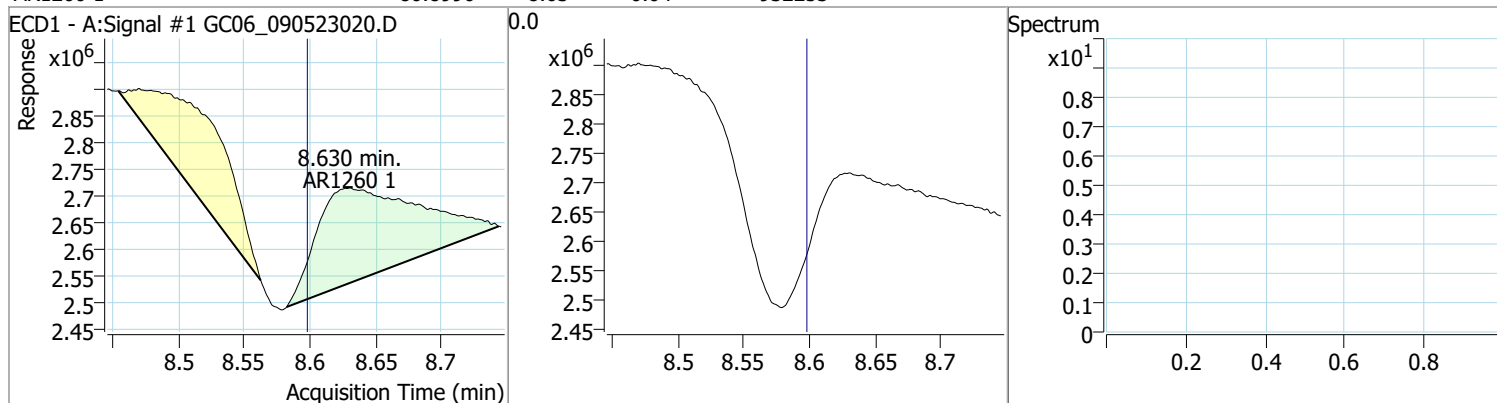


Quantitation Results Report (Not Reviewed)

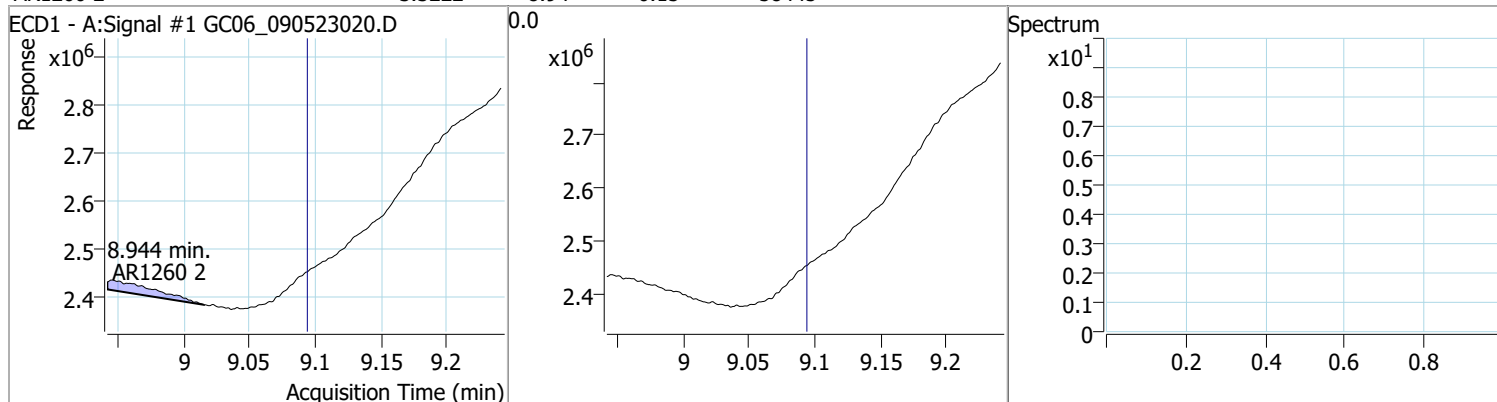


Quantitation Results Report (Not Reviewed)

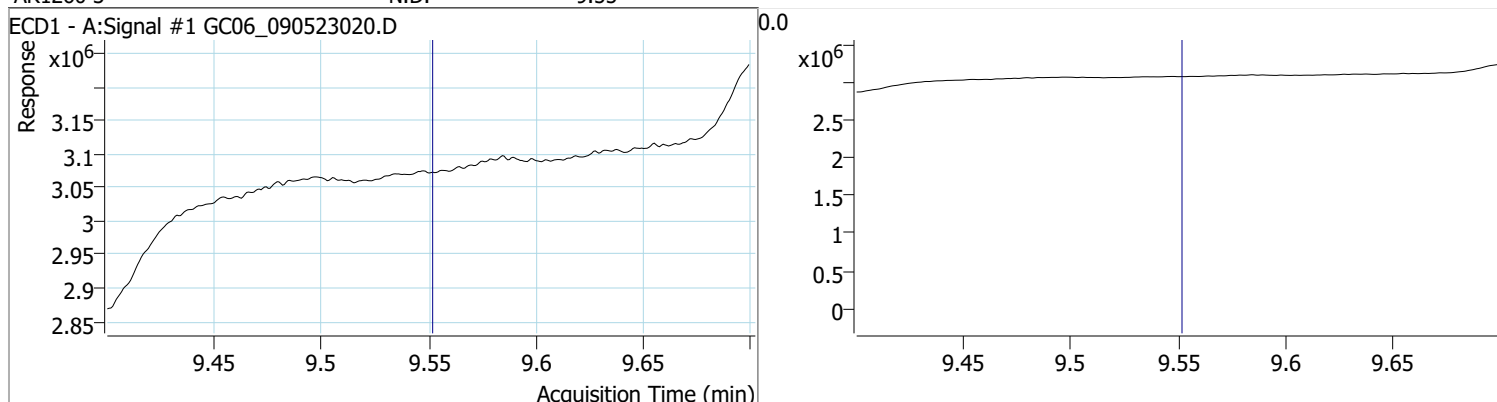
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	80.8990	8.63	0.04	932253				



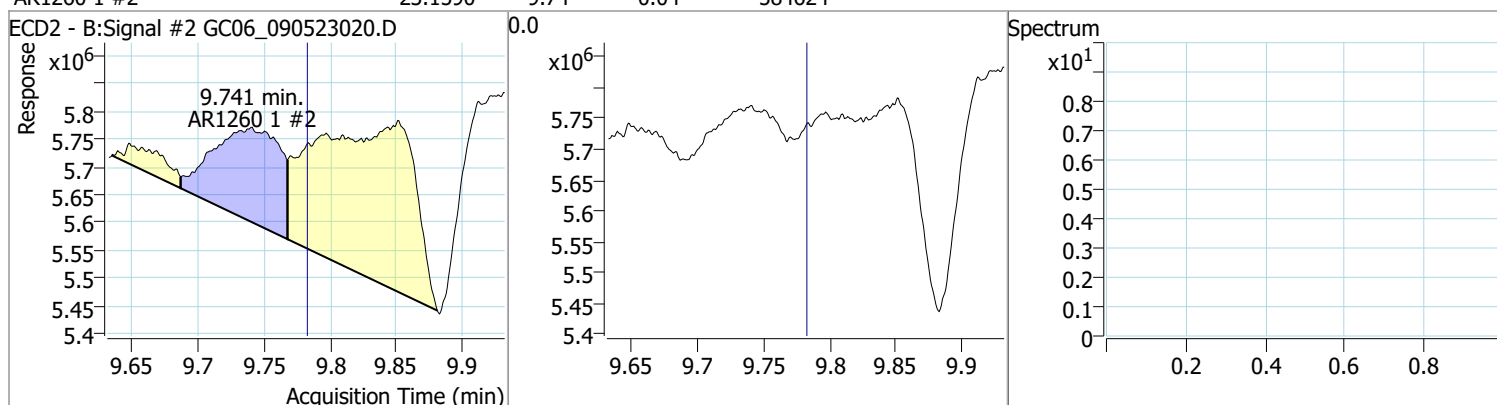
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	3.3222	8.94	-0.15	58445				



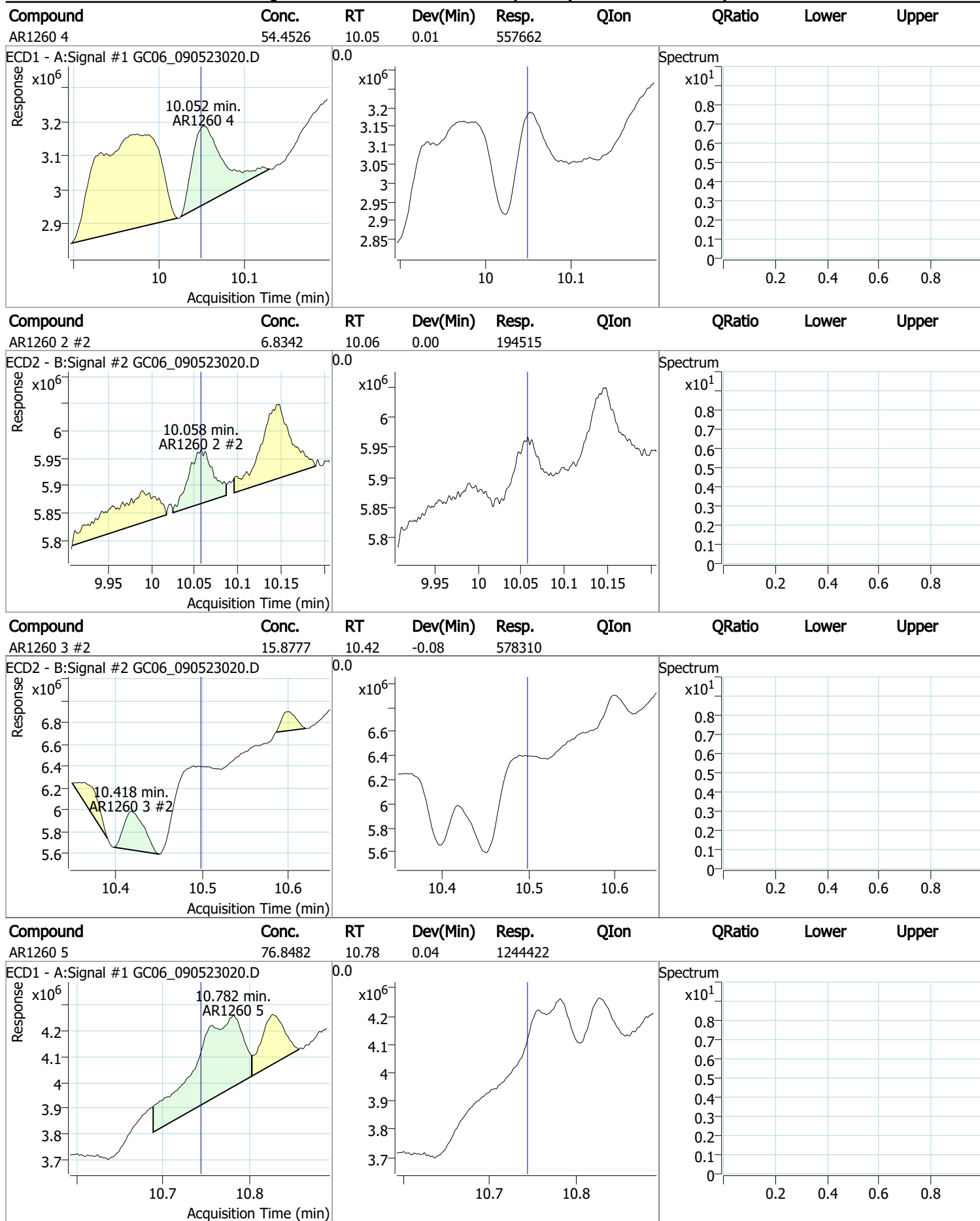
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.55		



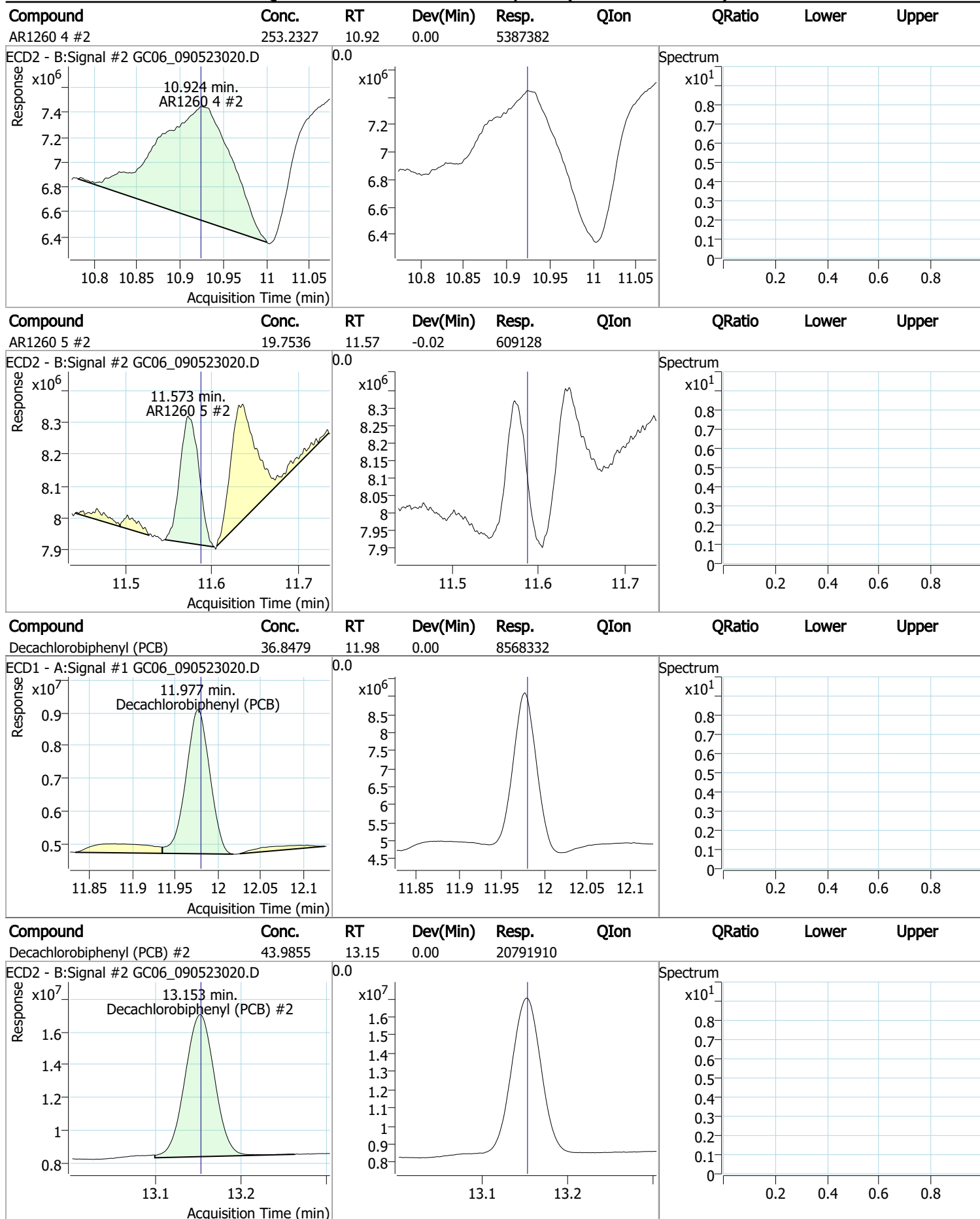
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	23.1590	9.74	-0.04	584624				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-018	Client ID: ARCH-C8W-PS-2.5-230828-P-G
Seqnum: 453357659021	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523021	Batch: 321684	Time: 05-SEP-2023 14:42
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	572.9 >LR	5.7 >LR ^{FP}	5.5 >LR	4%	0.50		x u
Aroclor-1016 Peak # 1	B	2363 >LR	23.63 >LR	22.90 >LR	3%			>LR b*
Aroclor-1016 Peak # 2	B	95.90	0.96	0.19	134%			
Aroclor-1016 Peak # 3	B	90.07	0.90	0.83	8%			
Aroclor-1016 Peak # 4	B	9.442	0.09	3.05	188%			
Aroclor-1016 Peak # 5	B	306.4	3.06	0.53	141%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	58.73	0.59 ^{FP}	0.38	43%	0.50		x u
Aroclor-1260 Peak # 1	B	67.53	0.68	0.92	31%			
Aroclor-1260 Peak # 2	B	3.979	0.04	0.00	160%			
Aroclor-1260 Peak # 3	B	14.71	0.15	ND				
Aroclor-1260 Peak # 4	B	204.0	2.04	0.58	111%			
Aroclor-1260 Peak # 5	B	3.423	0.03	0.40	168%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	37.04	0.5000	0.3704	74	19-121	u
Decachlorobiphenyl (PCB)	B	40.04	0.5000	0.4004	80	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	9917833	-21.57
1-bromo-2-nitrobenzene (PCB)	A	4899467	3703023	-24.42

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.37	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

+=high bias >LR=overrange b=noncompliant c=CCV u=use x=false positive

Analyst: TRN 09/05/23

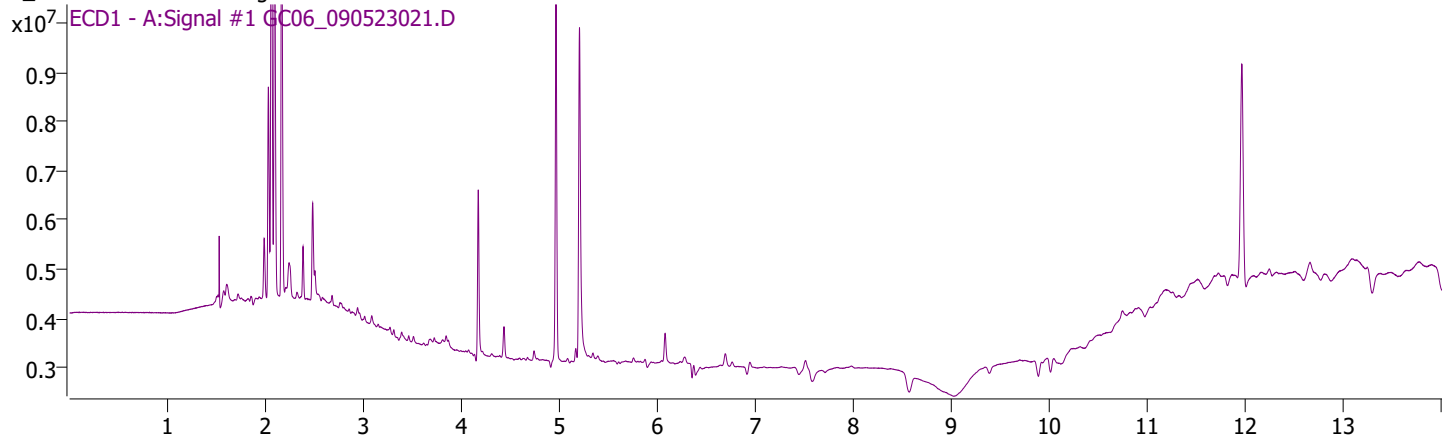
Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

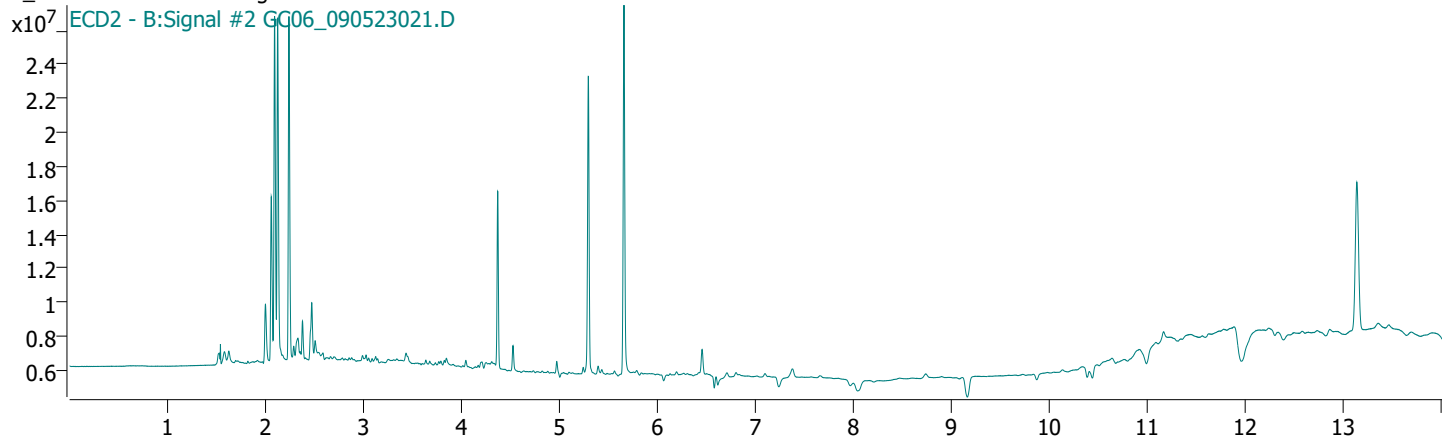
Data File GC06_090523021.D
 Acq. Method Acq_Pesticide_122221_2
 Sample Name 491224-018, 321684, 1
 Vial 12
 DA Method File PCB_608_052323_GC06_59.m
 Tune File ATUNE.U
 Batch Name 090523PCB.batch.bin
 Ref Library

Operator
 Acq. Date-Time 9/5/2023 2:42:31 PM
 Instrument SVOA-GC06
 Multiplier 1.00
 Comment WIPE/1dm2-10ML
 Tune Date
 Last Calib Update 5/23/2023 1:46:10 PM

GC06_090523021.D No MS Signals



GC06_090523021.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	3703022.81 4	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.374	0.0	9917833.17 8	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.970	0.0	8273429.92 5	41.9281	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 209.64%	*	
S TCMX (PCB) #2	5.300	0.0	19485618.7 79	37.0382	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 185.19%	*	
S Decachlorobiphenyl (PCB)	11.977	0.0	9018508.76 5	36.4975	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 182.49%	*	
S Decachlorobiphenyl (PCB) #2	13.152	0.0	20972951.5 20	40.0438	ng/ml	-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 200.22%	*	

Target Compounds

QValue

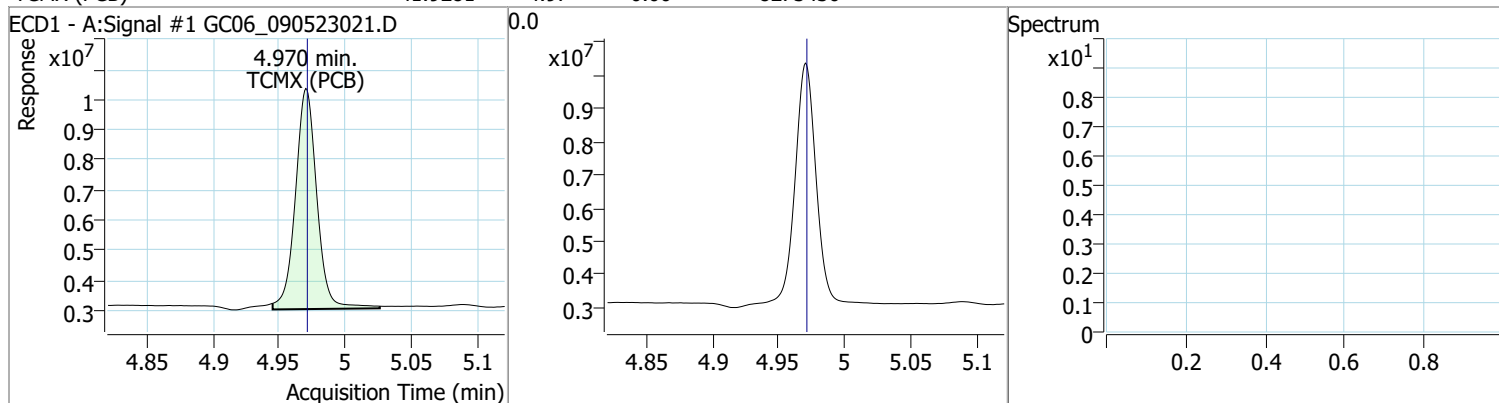
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.210	0.0	9457726.30 0	2289.8918	ng/ml	100
T AR1016 2	5.680	0.0	158615.930	18.9164	ng/ml	100
T AR1016 1 #2	5.664	0.0	24406834.0 72	2362.6378	ng/ml	100
T AR1016 3	6.085	0.0	888112.284	82.8661	ng/ml	100
T AR1016 2 #2	6.202	0.0	2225435.64 2	95.9012	ng/ml	100
T AR1016 4	6.286	0.0	1968016.99 1	304.6564	ng/ml	100
T AR1016 5	6.378	0.0	262597.530	53.1523	ng/ml	100
T AR1016 3 #2	6.718	0.0	2514926.67 5	90.0665	ng/ml	100
T AR1016 4 #2	6.935	0.0	189761.394	9.4421	ng/ml	100
T AR1016 5 #2	7.104	0.0	3284306.32 0	306.3647	ng/ml	100
T AR1260 1	8.638	0.0	1130391.22 5	92.3104	ng/ml	100
T AR1260 2	8.955	0.0	8160.510	0.4365	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.844	0.0	1888845.36 0	67.5307	ng/ml	100
T AR1260 4	10.054	0.0	634465.955	58.3000	ng/ml	100
T AR1260 2 #2	10.052	0.0	125484.875	3.9791	ng/ml	100
T AR1260 3 #2	10.419	0.0	593771.675	14.7132	ng/ml	100
T AR1260 5	10.757	0.0	680621.573	39.5534	ng/ml	100
T AR1260 4 #2	10.930	0.0	4808409.68 3	203.9880	ng/ml	100
T AR1260 5 #2	11.573	0.0	116957.984	3.4232	ng/ml	100

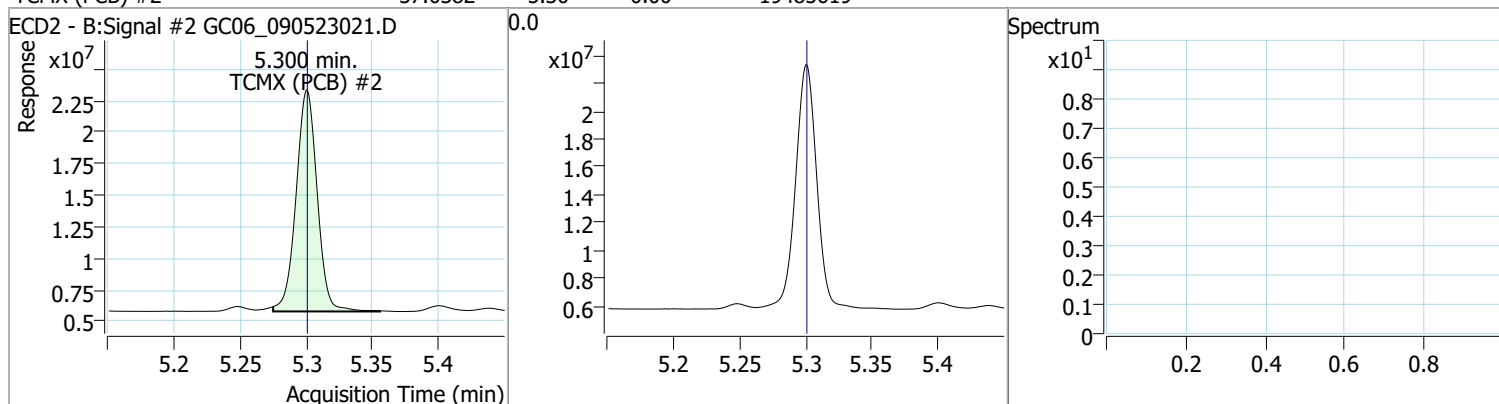
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

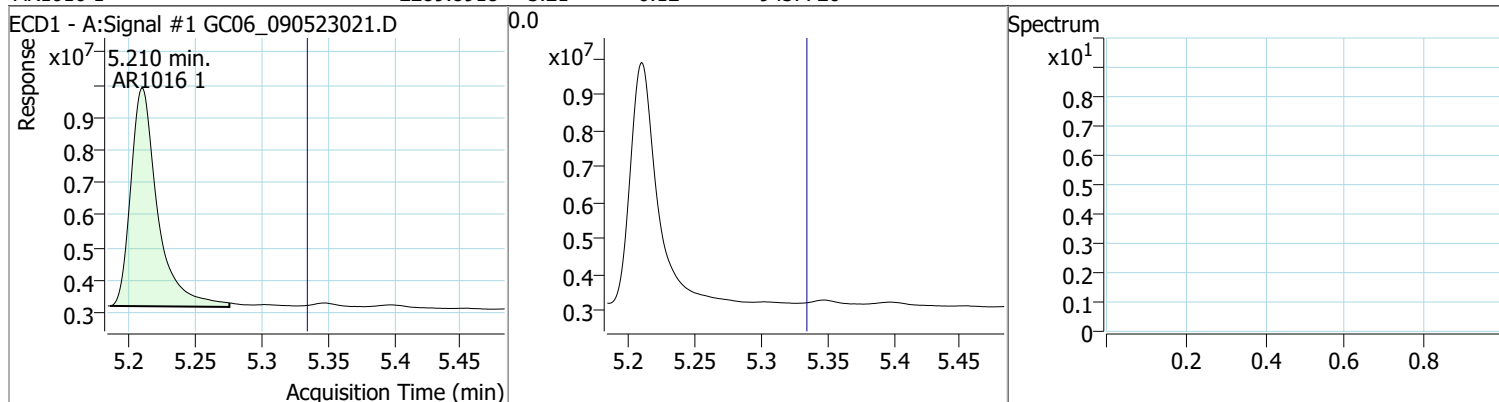
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	41.9281	4.97	0.00	8273430				



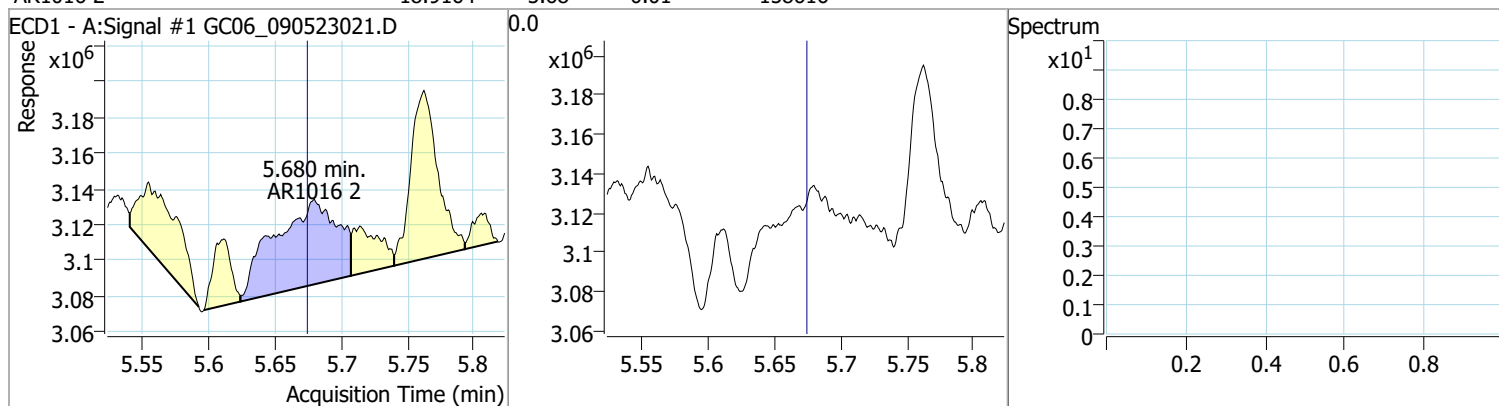
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	37.0382	5.30	0.00	19485619				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	2289.8918	5.21	-0.12	9457726				

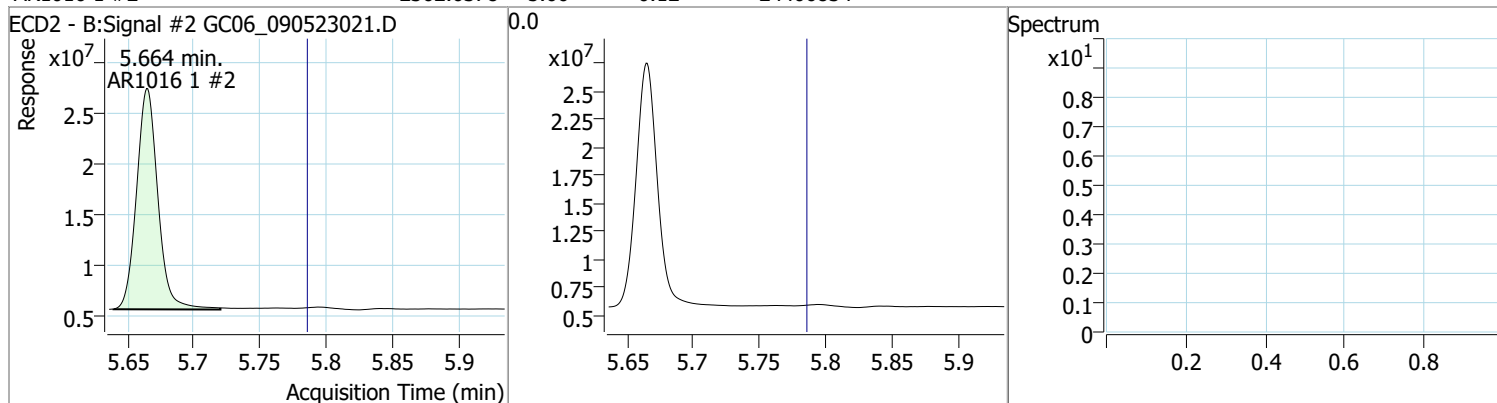


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	18.9164	5.68	0.01	158616				

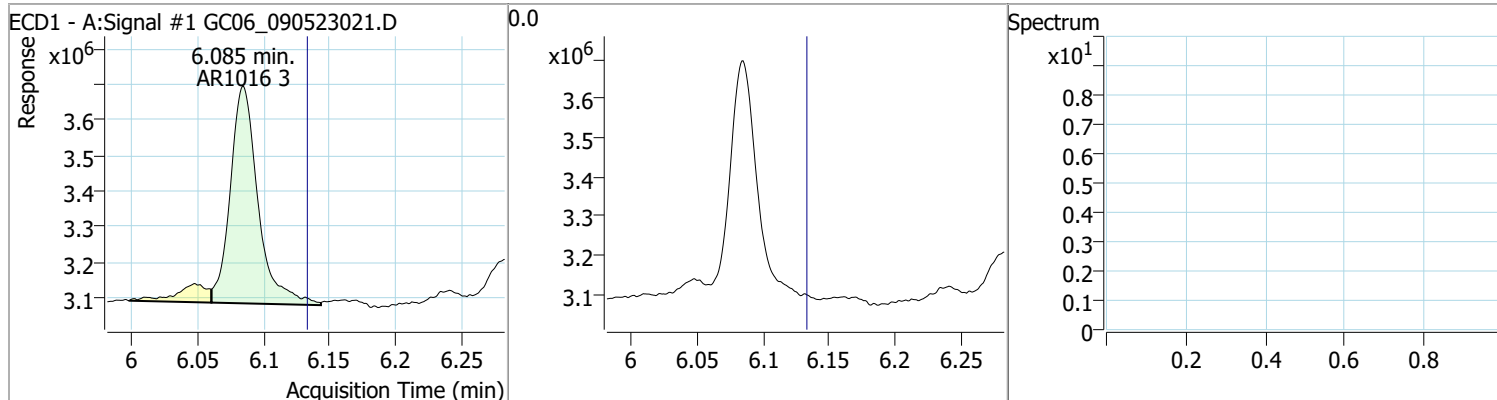


Quantitation Results Report (Not Reviewed)

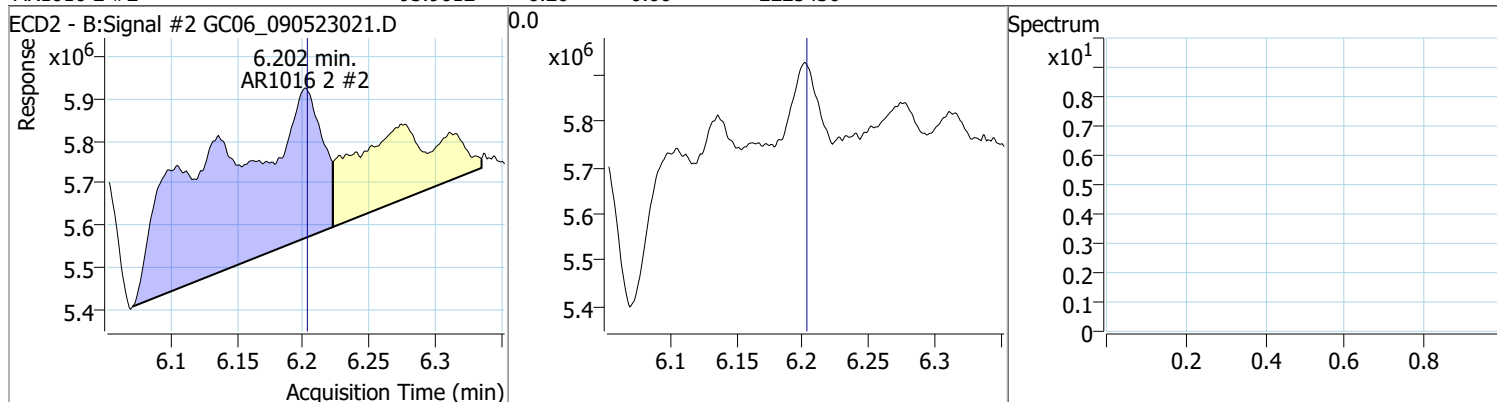
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	2362.6378	5.66	-0.12	24406834				



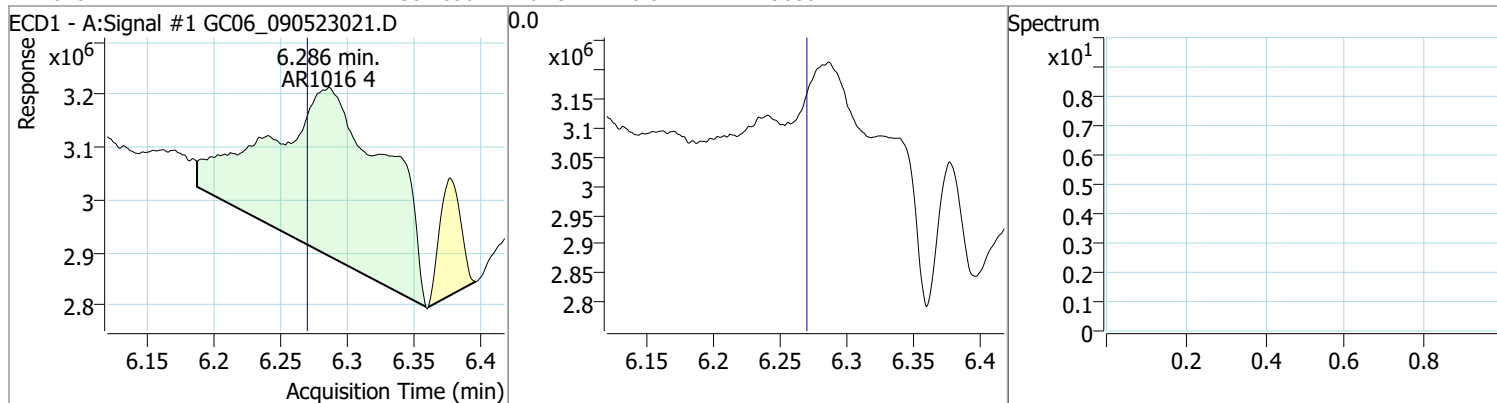
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	82.8661	6.09	-0.05	888112				



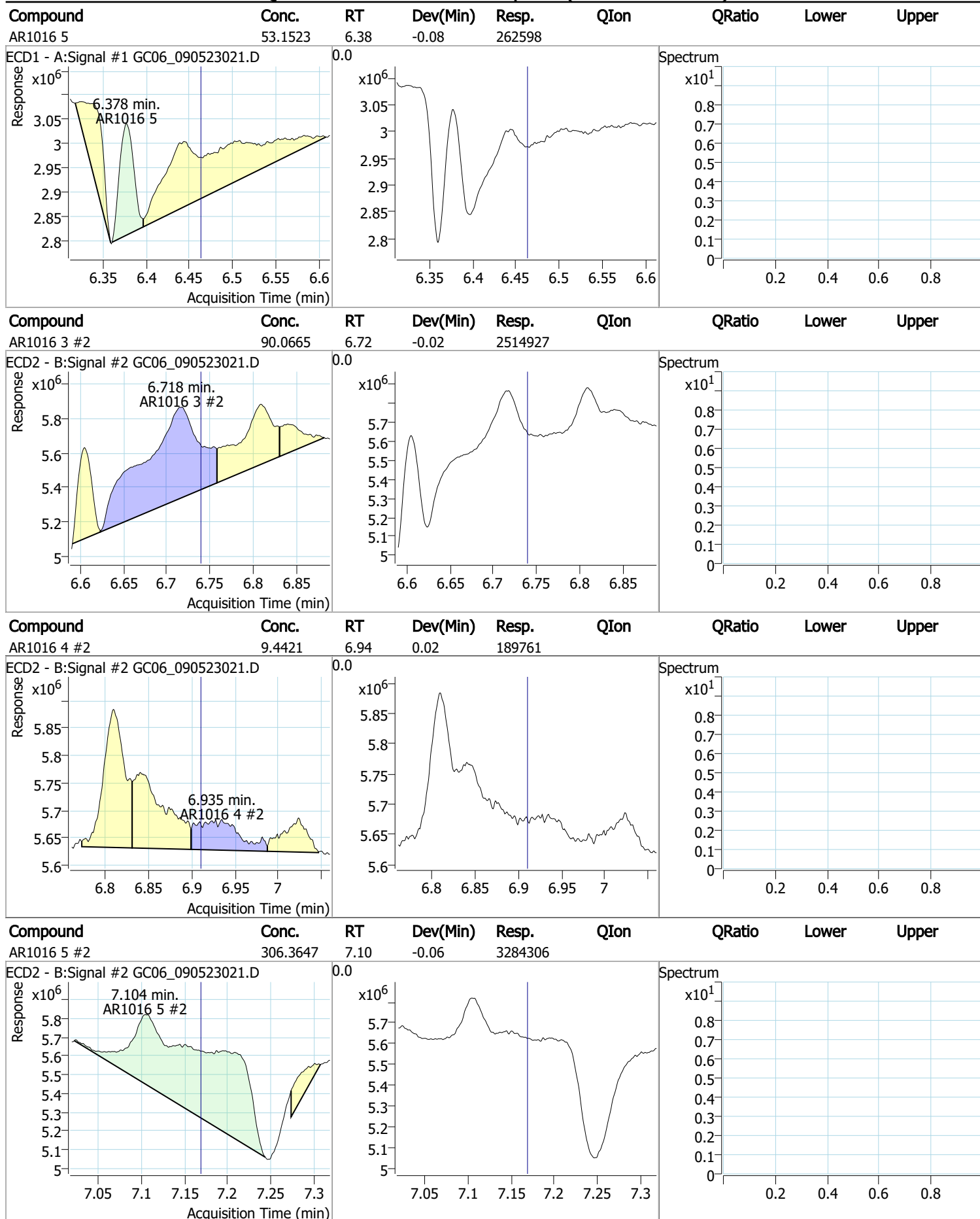
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	95.9012	6.20	0.00	2225436				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	304.6564	6.29	0.02	1968017				

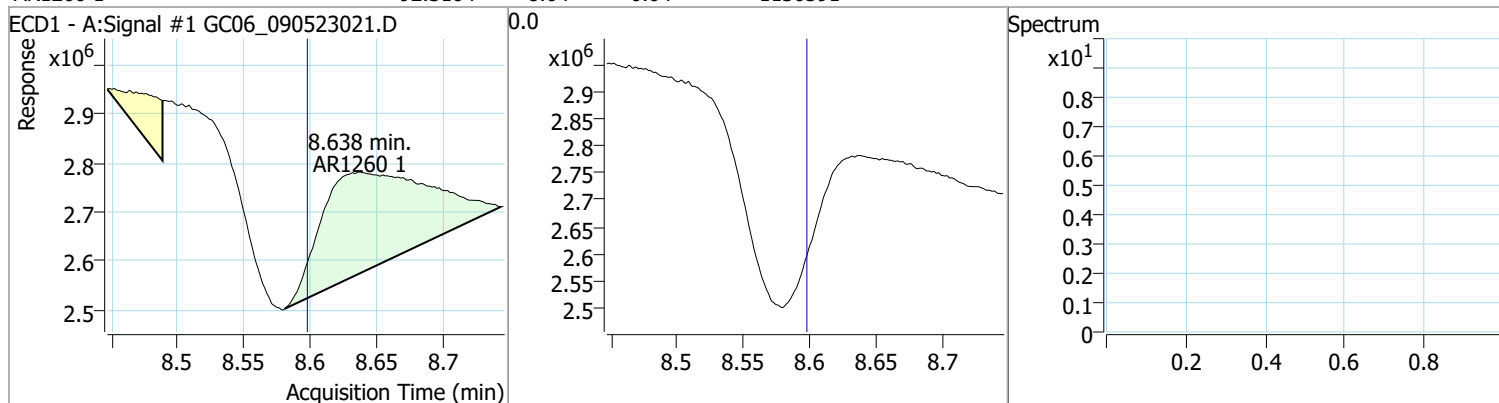


Quantitation Results Report (Not Reviewed)

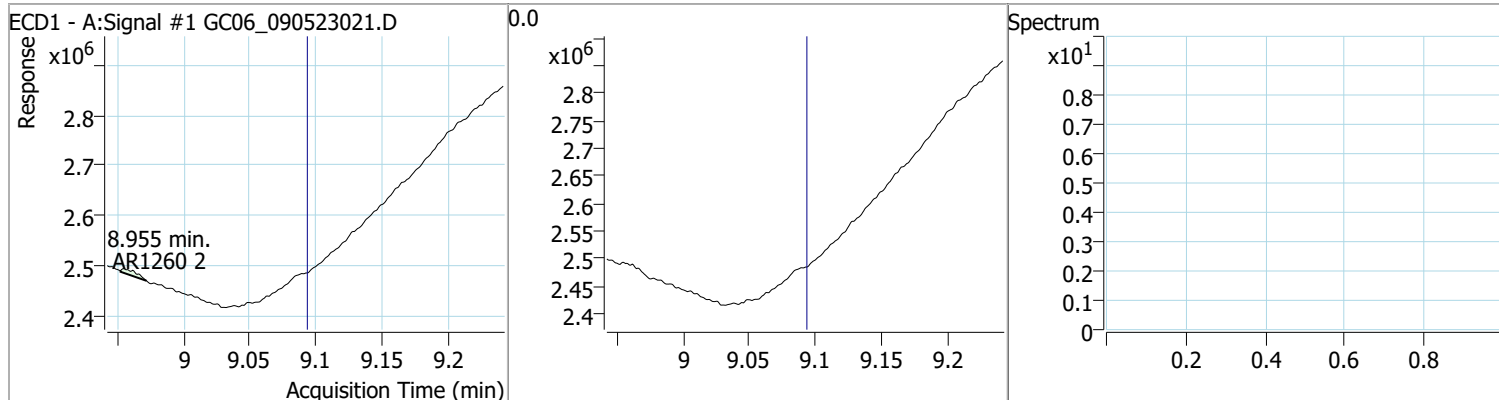


Quantitation Results Report (Not Reviewed)

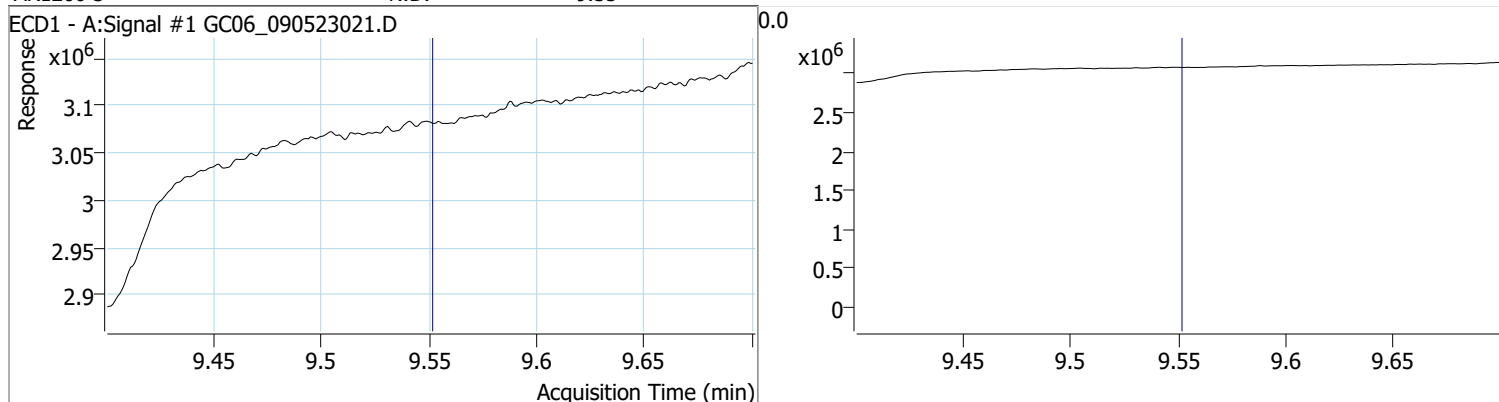
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	92.3104	8.64	0.04	1130391				



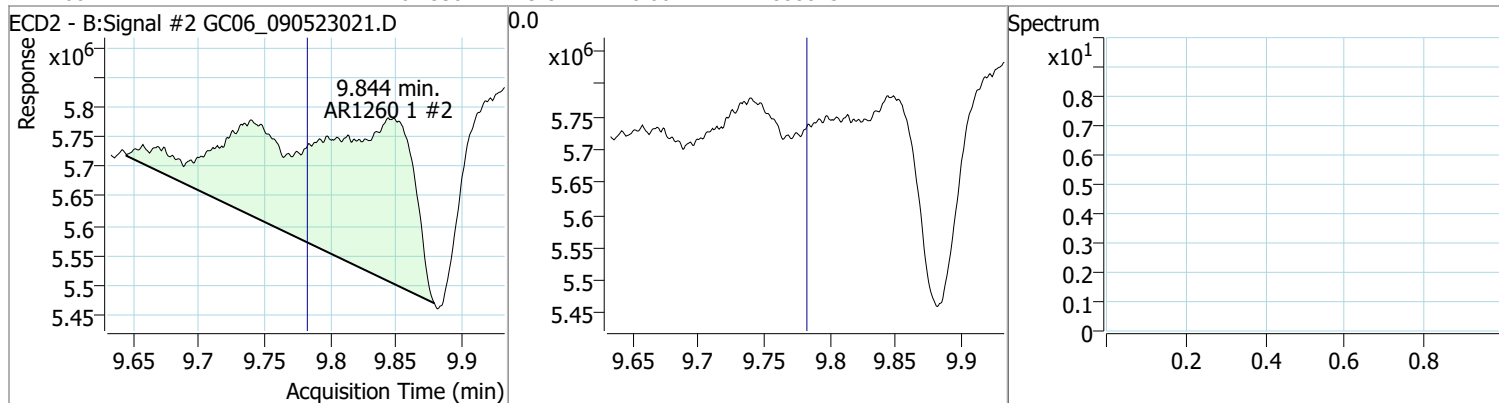
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.4365	8.96	-0.14	8161				



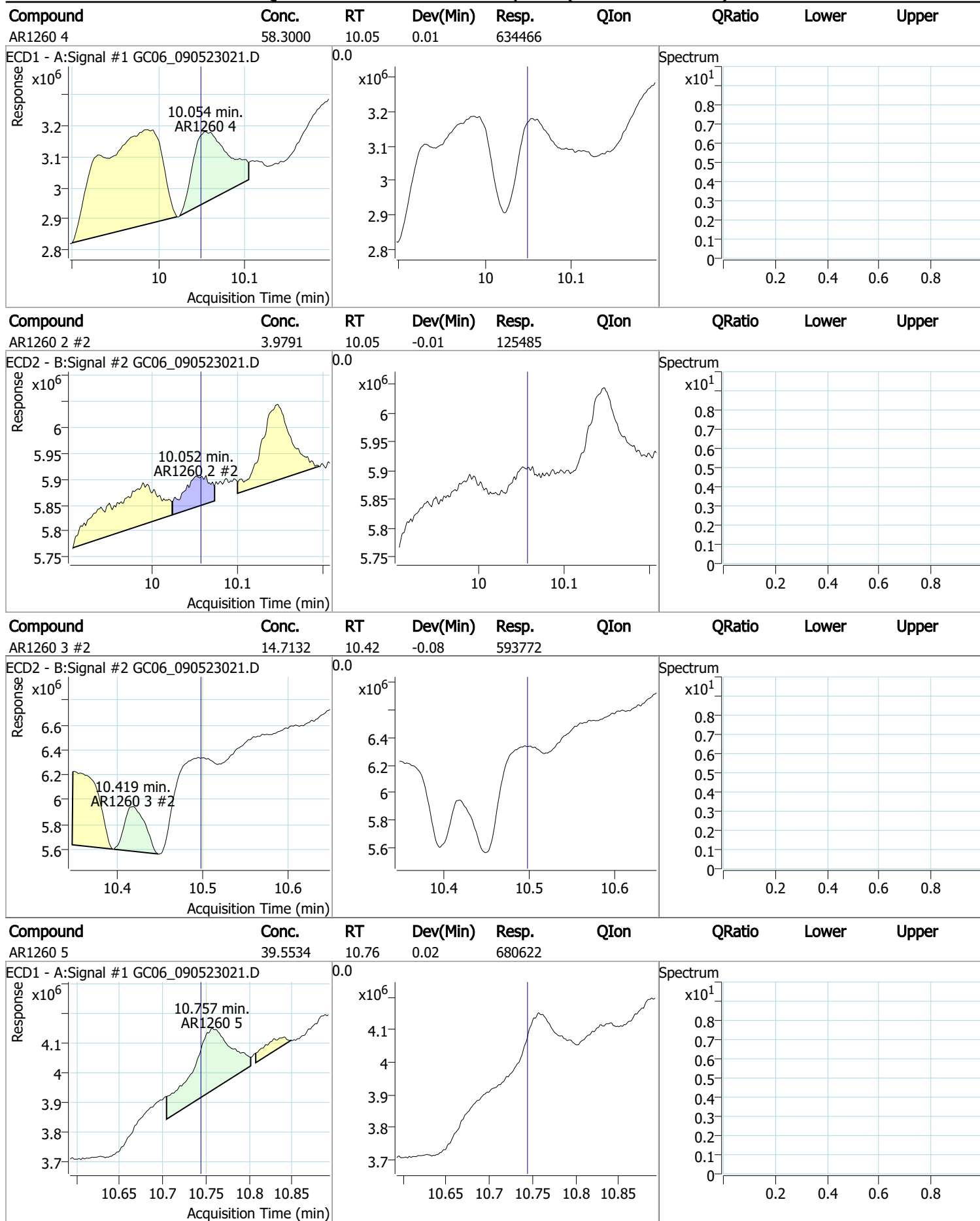
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.55		



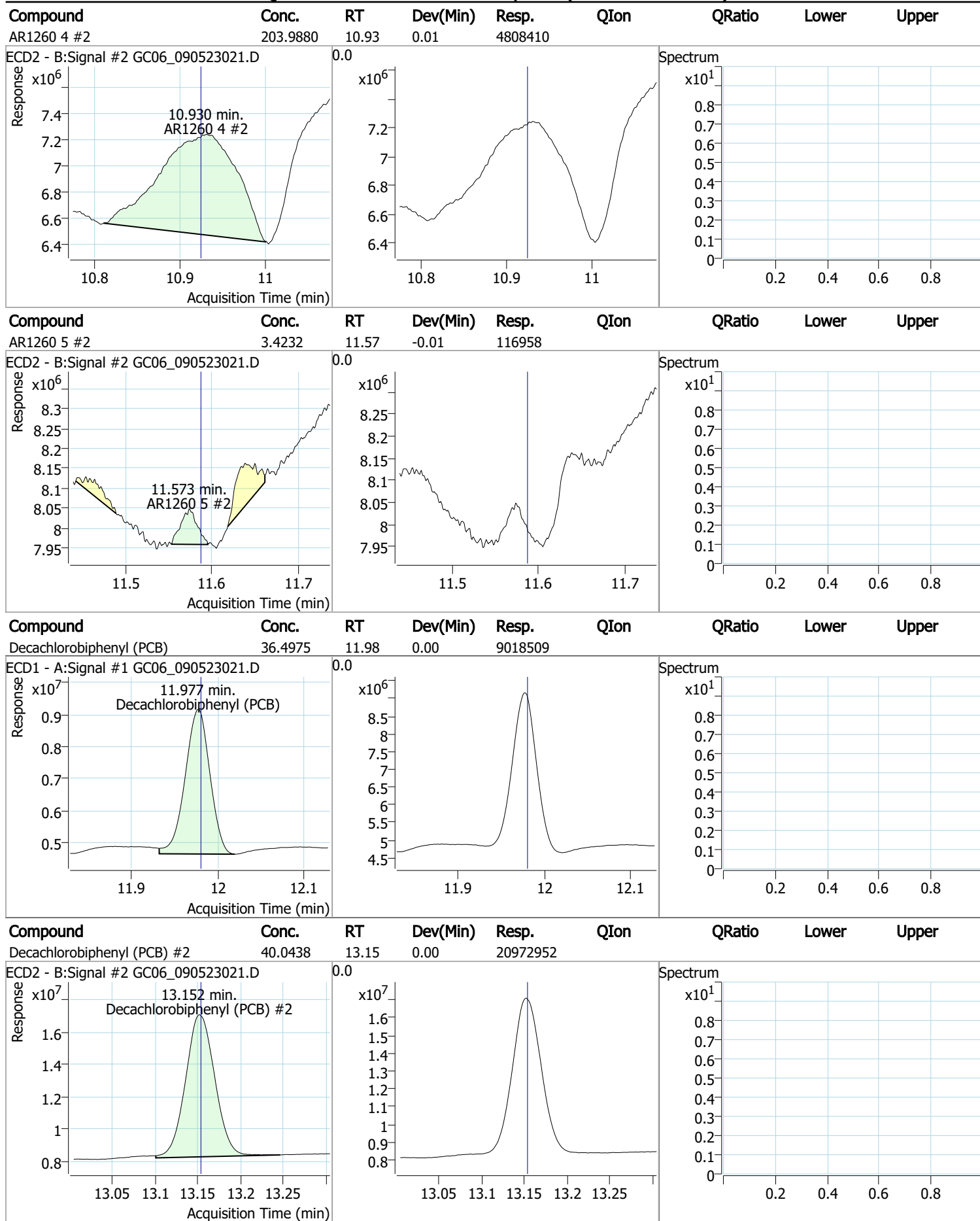
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	67.5307	9.84	0.06	1888845				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-020	Client ID: ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-LA
Seqnum: 453357659022	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523022	Batch: 321684	Time: 05-SEP-2023 15:01
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	47.22	ND	1.1	76%	0.50		u
Aroclor-1016 Peak # 1	B	35.17	0.35	0.68	64%			
Aroclor-1016 Peak # 2	B	102.5	1.02	0.52	66%			
Aroclor-1016 Peak # 3	B	66.84	0.67	0.91	31%			
Aroclor-1016 Peak # 4	B	24.75	0.25	2.67	166%			
Aroclor-1016 Peak # 5	B	6.897	0.07	0.46	148%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	40.43	ND	0.38	5%	0.50		u
Aroclor-1260 Peak # 1	B	22.89	0.23	1.00	126%			
Aroclor-1260 Peak # 2	B	7.163	0.07	0.00	186%			
Aroclor-1260 Peak # 3	B	16.48	0.16	ND				
Aroclor-1260 Peak # 4	B	149.1	1.49	0.55	92%			
Aroclor-1260 Peak # 5	B	6.543	0.07	0.37	139%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	37.80	0.5000	0.3780	76	19-121	u
Decachlorobiphenyl (PCB)	B	47.82	0.5000	0.4782	96	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	10387193	-17.86
1-bromo-2-nitrobenzene (PCB)	A	4899467	4001581	-18.33

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.37	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

+ = high bias c = CCV u = use

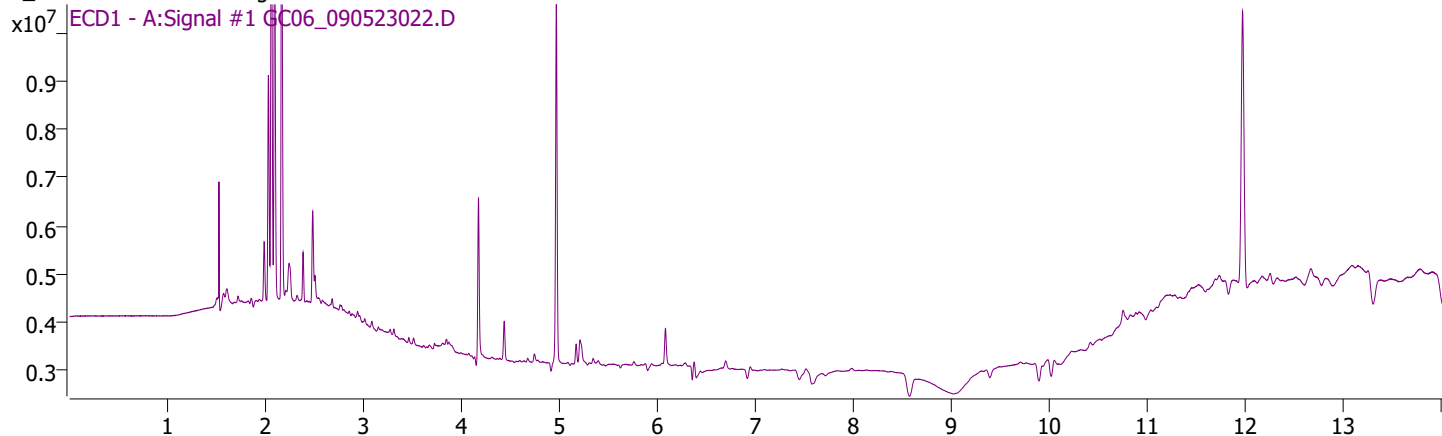
Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

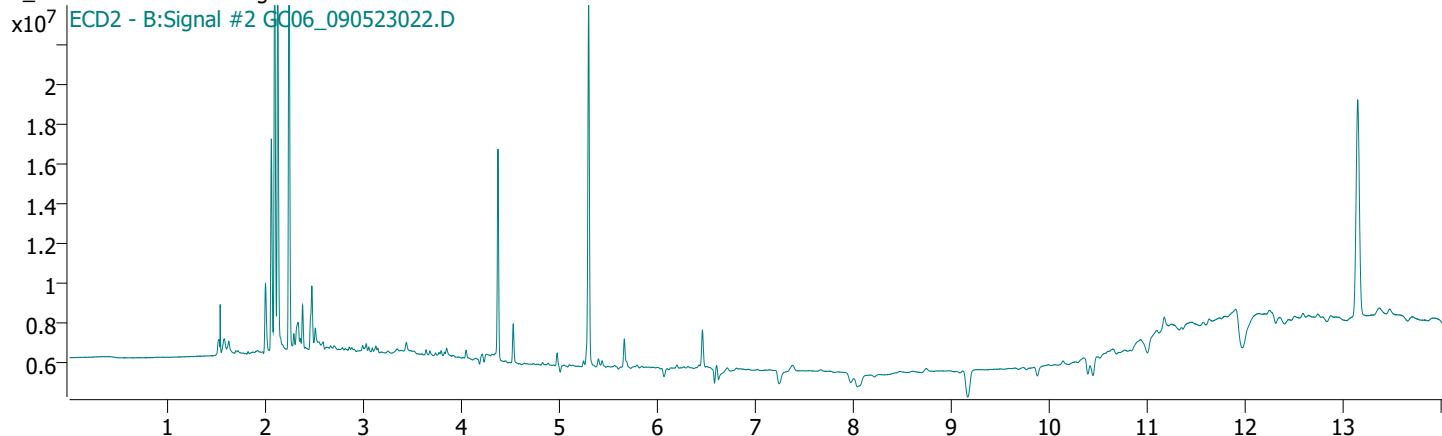
Quantitation Results Report (Not Reviewed)

Data File	GC06_090523022.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 3:01:00 PM
Sample Name	491224-020, 321684, 1	Instrument	SVOA-GC06
Vial	13	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			

GC06_090523022.D No MS Signals



GC06_090523022.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.175	0.0	4001580.54 2	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.374	0.0	10387193.1 83	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.970	0.0	8759915.15 9	41.0814	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 205.41%	*	
S TCMX (PCB) #2	5.300	0.0	20828757.1 98	37.8023	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 189.01%	*	
S Decachlorobiphenyl (PCB)	11.978	0.0	11539165.1 56	43.2143	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 216.07%	*	
S Decachlorobiphenyl (PCB) #2	13.154	0.0	26229974.8 48	47.8181	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 239.09%	*	

Target Compounds

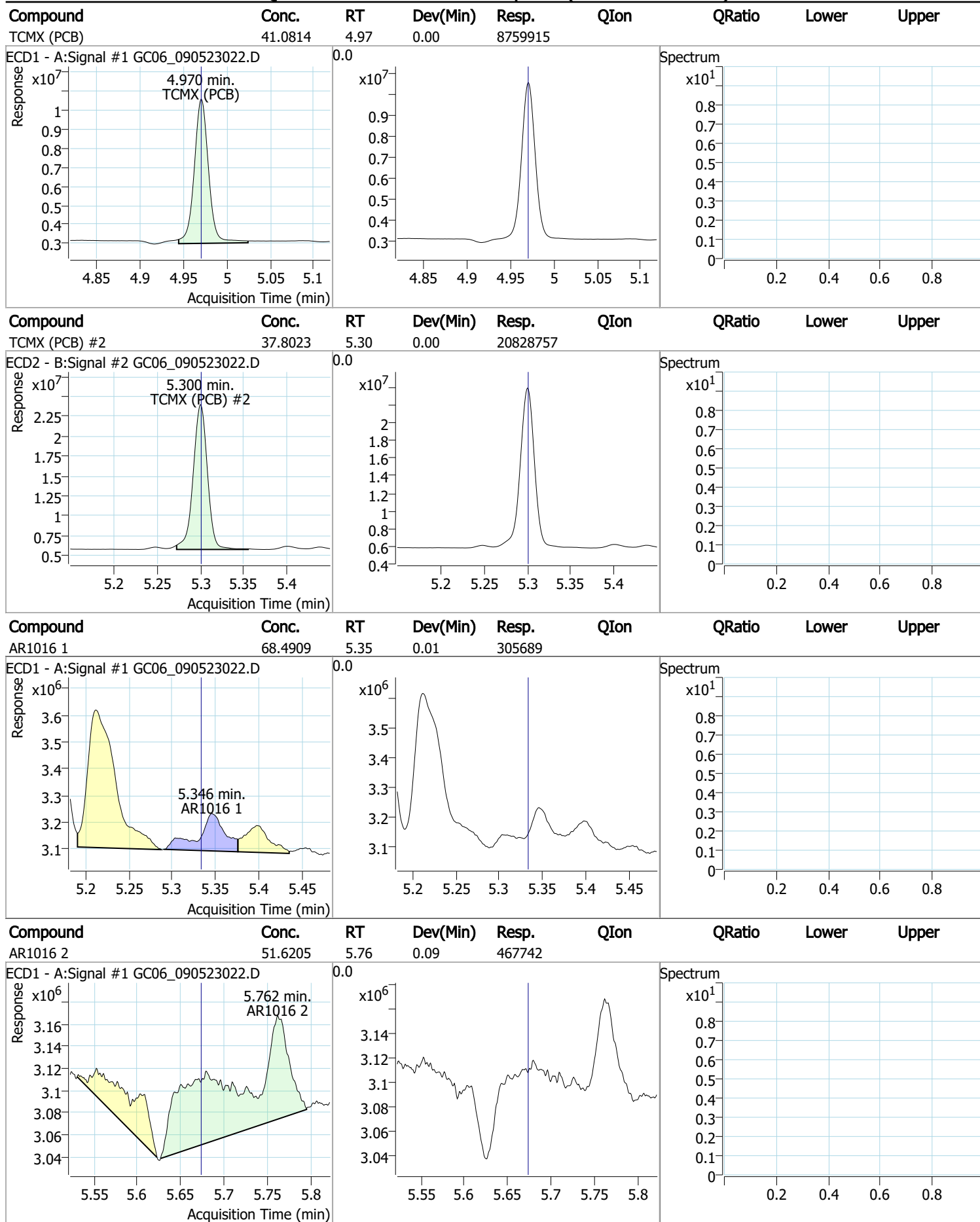
QValue

Quantitation Results Report (Not Reviewed)

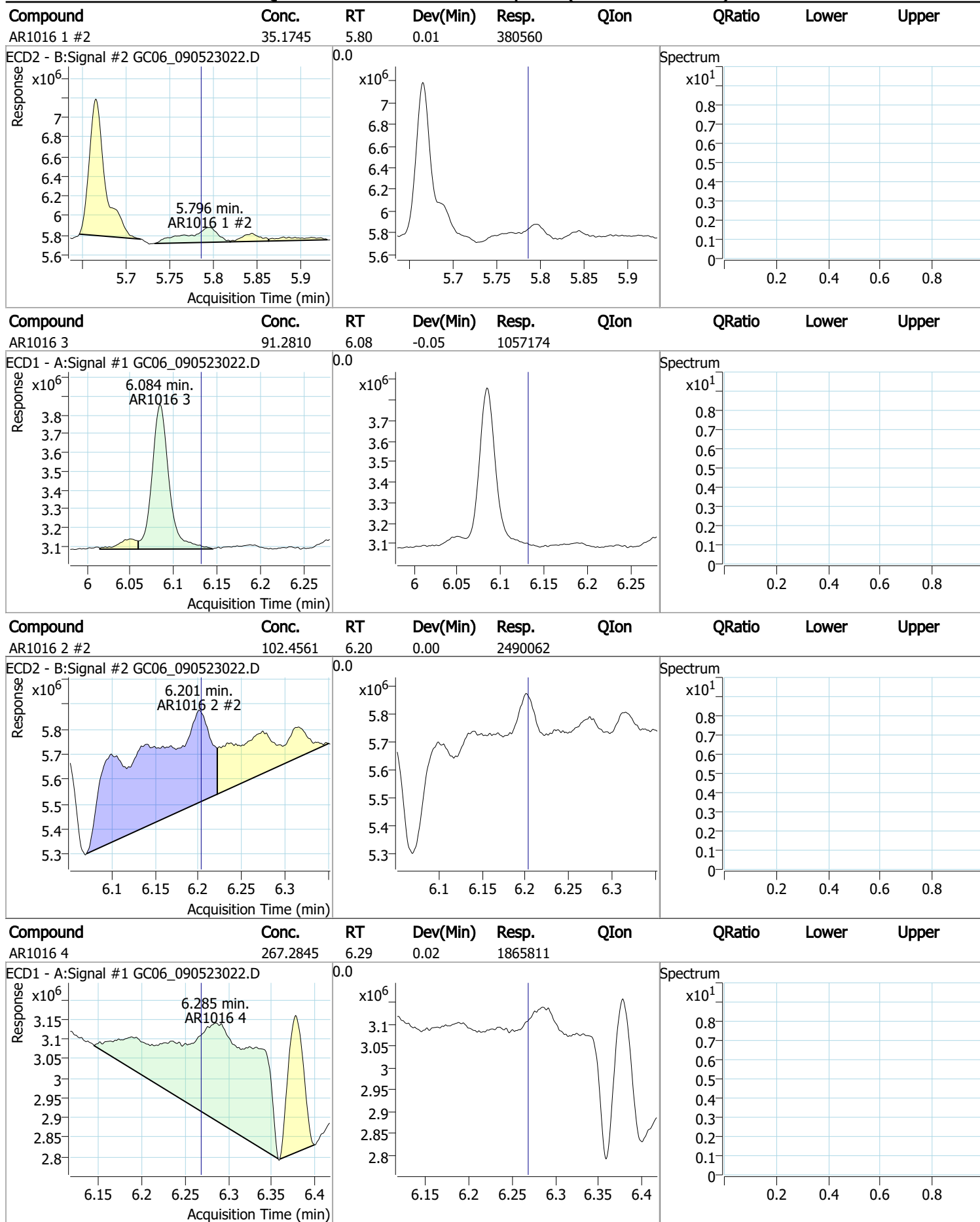
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.346	0.0	305688.844	68.4909	ng/ml	100
T AR1016 2	5.762	0.0	467741.711	51.6205	ng/ml	100
T AR1016 1 #2	5.796	0.0	380560.454	35.1745	ng/ml	100
T AR1016 3	6.084	0.0	1057174.023	91.2810	ng/ml	100
T AR1016 2 #2	6.201	0.0	2490062.438	102.4561	ng/ml	100
T AR1016 4	6.285	0.0	1865810.548	267.2845	ng/ml	100
T AR1016 5	6.442	0.0	247679.771	46.3924	ng/ml	100
T AR1016 3 #2	6.717	0.0	1954796.722	66.8434	ng/ml	100
T AR1016 4 #2	6.841	0.0	520860.330	24.7457	ng/ml	100
T AR1016 5 #2	7.304	0.0	77435.744	6.8969	ng/ml	100
T AR1260 1	8.652	0.0	1323600.051	100.0238	ng/ml	100
T AR1260 2	8.955	0.0	5108.066	0.2529	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.738	0.0	670420.406	22.8860	ng/ml	100
T AR1260 4	10.054	0.0	649839.275	55.2574	ng/ml	100
T AR1260 2 #2	10.058	0.0	236579.679	7.1629	ng/ml	100
T AR1260 3 #2	10.419	0.0	696403.884	16.4766	ng/ml	100
T AR1260 5	10.758	0.0	678947.907	36.5123	ng/ml	100
T AR1260 4 #2	10.941	0.0	3680180.286	149.0702	ng/ml	100
T AR1260 5 #2	11.578	0.0	234139.301	6.5432	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

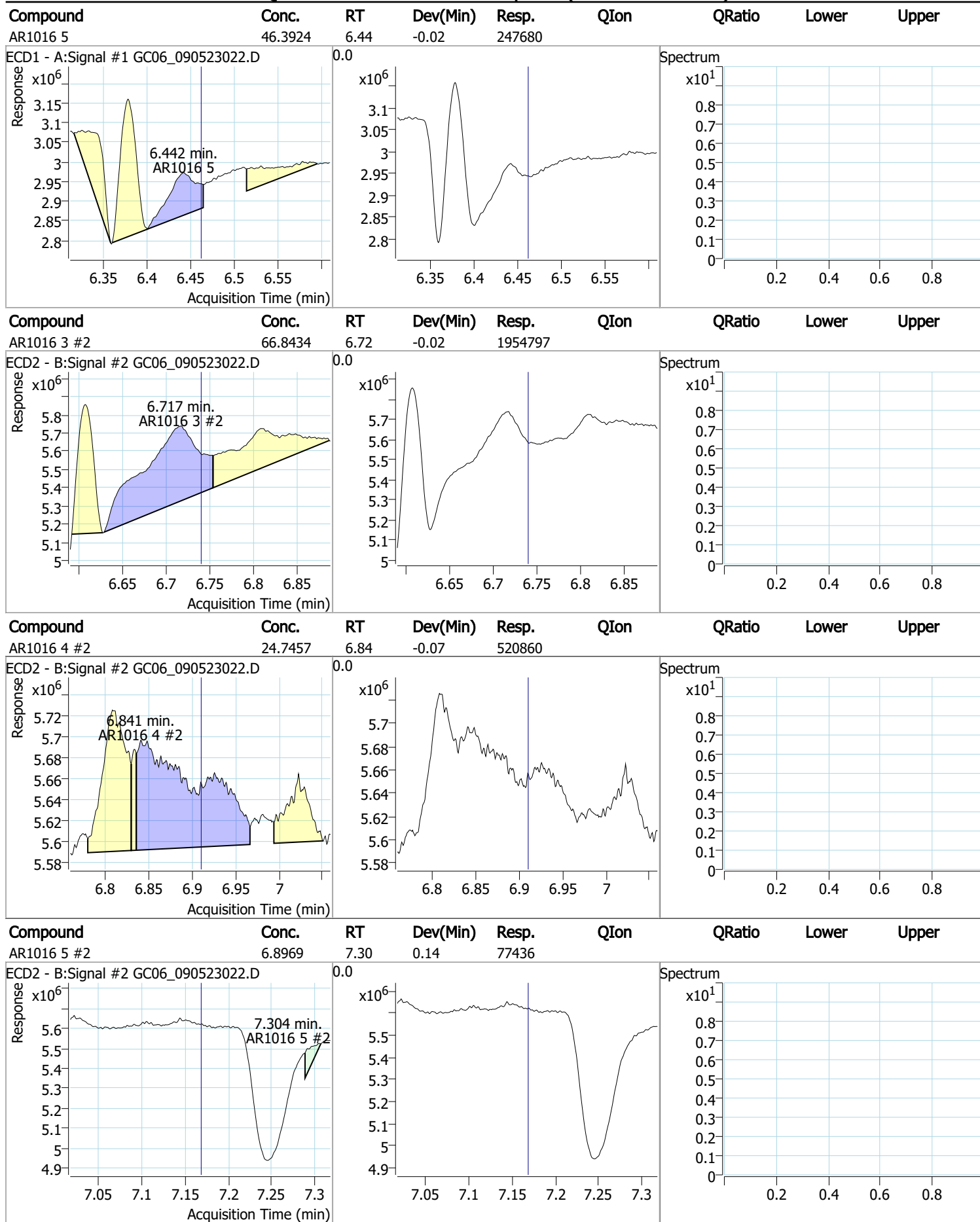
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

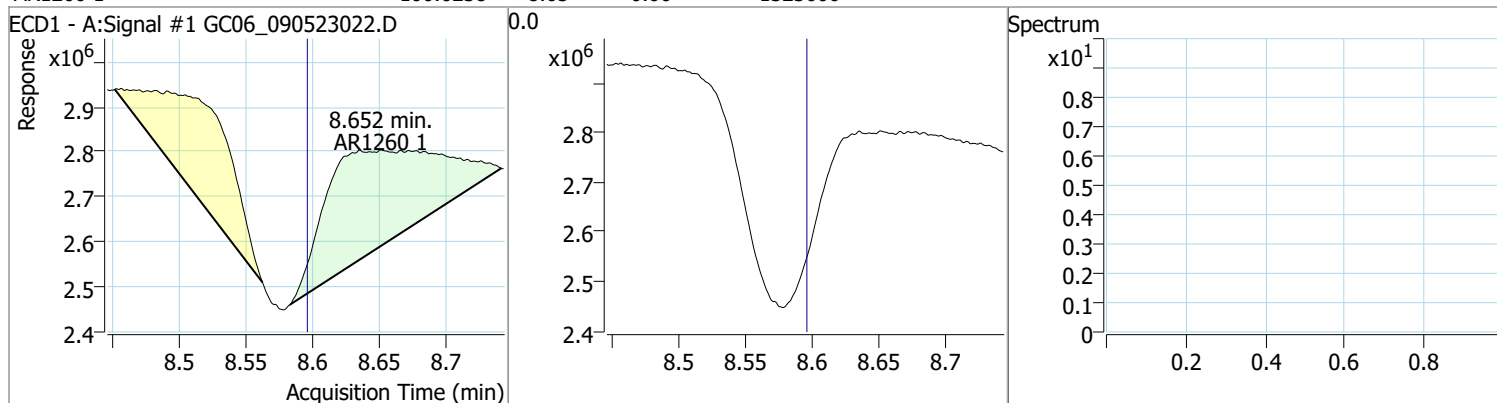


Quantitation Results Report (Not Reviewed)

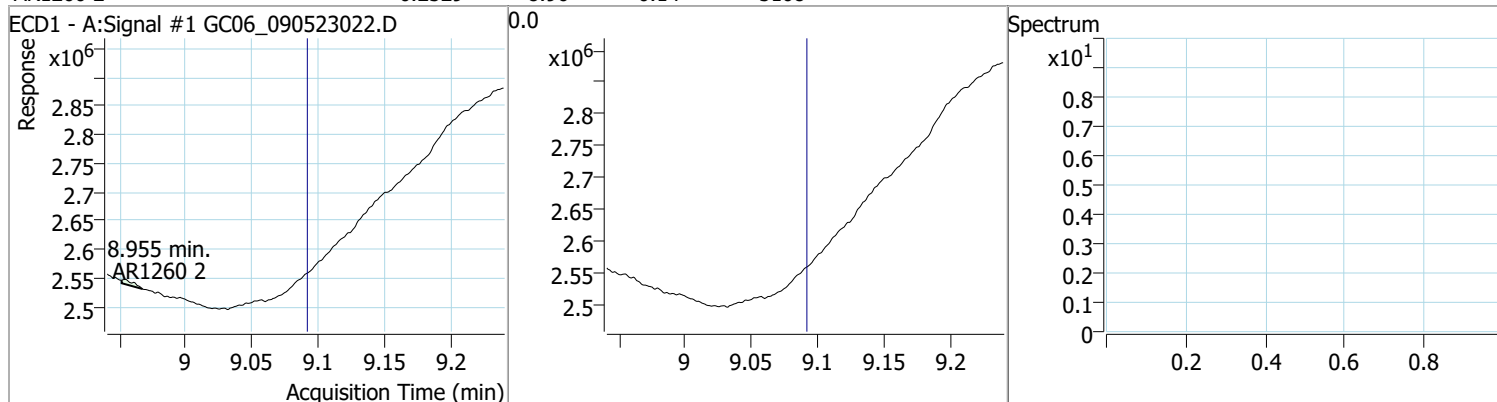


Quantitation Results Report (Not Reviewed)

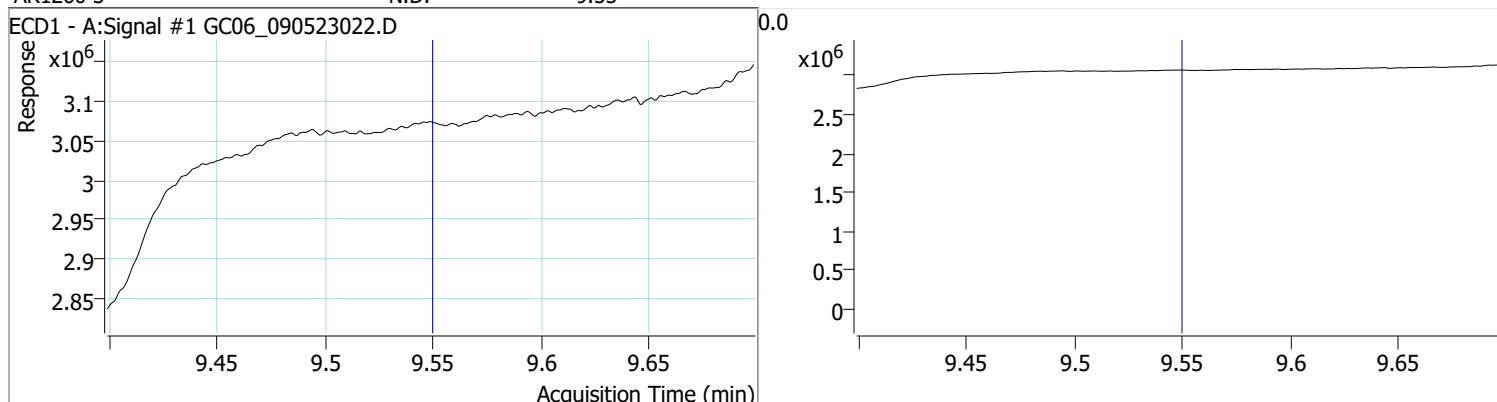
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	100.0238	8.65	0.06	1323600				



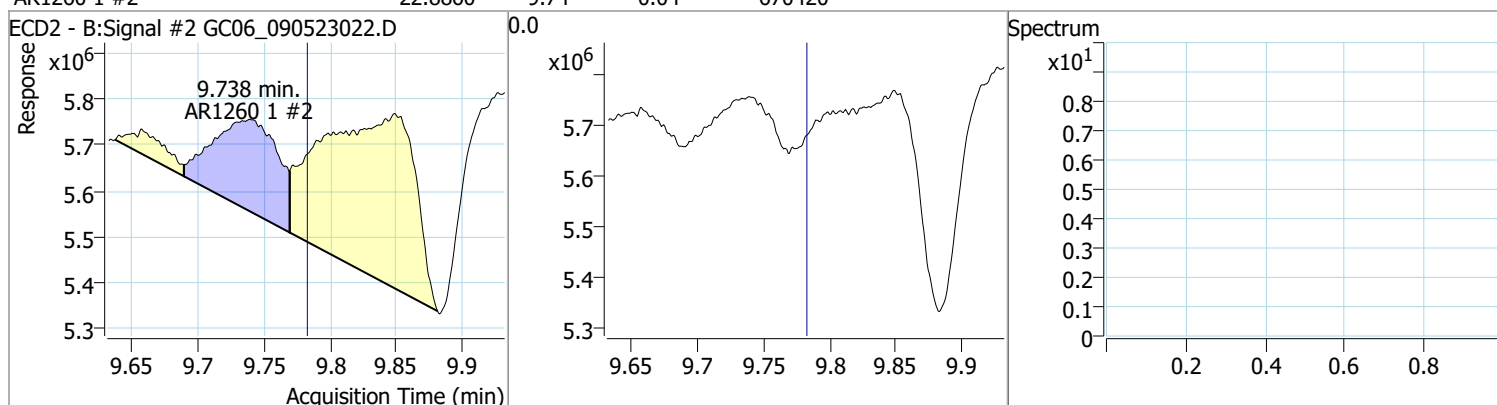
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.2529	8.96	-0.14	5108				



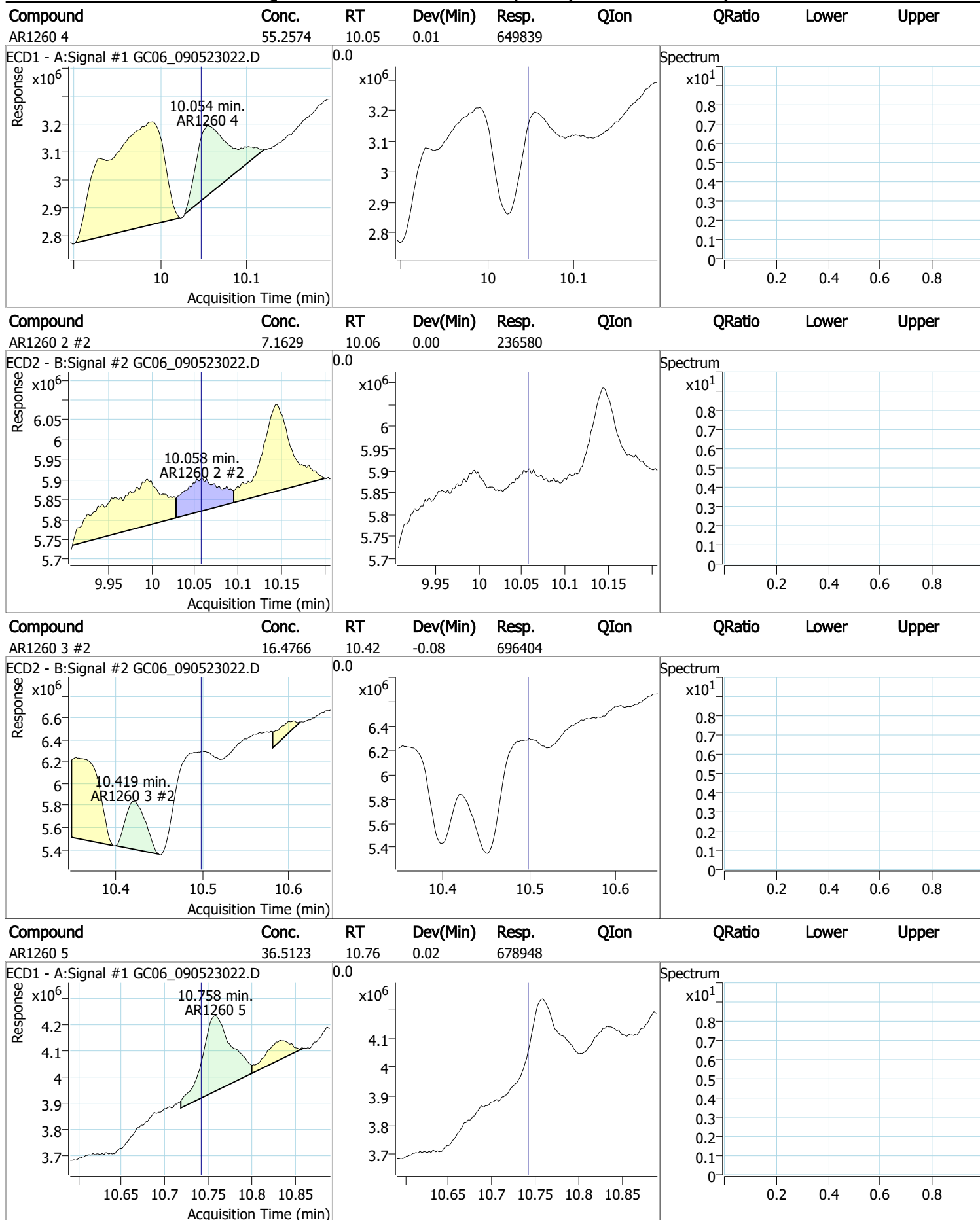
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.55		



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	22.8860	9.74	-0.04	670420				

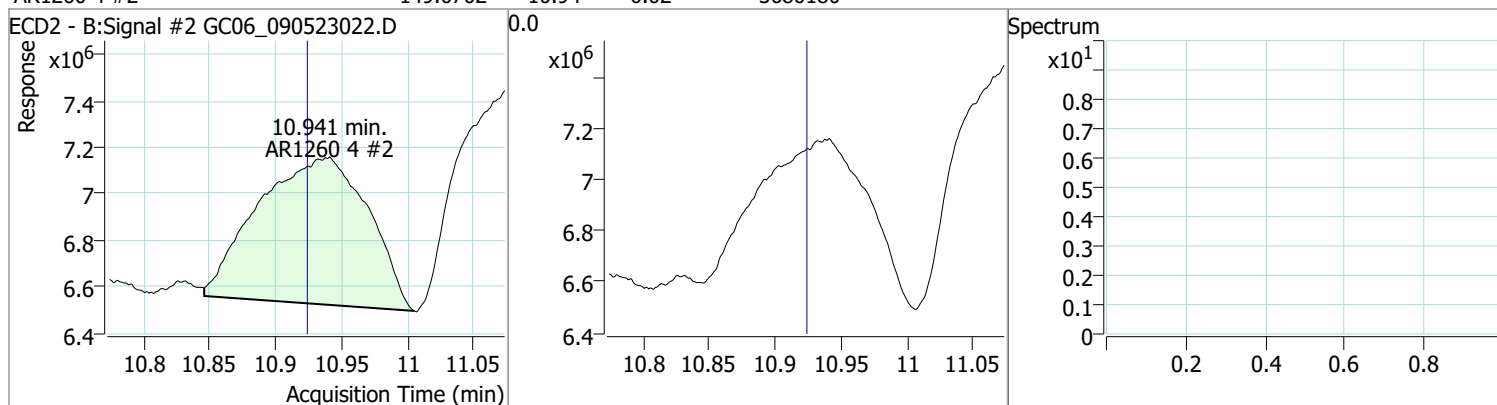


Quantitation Results Report (Not Reviewed)

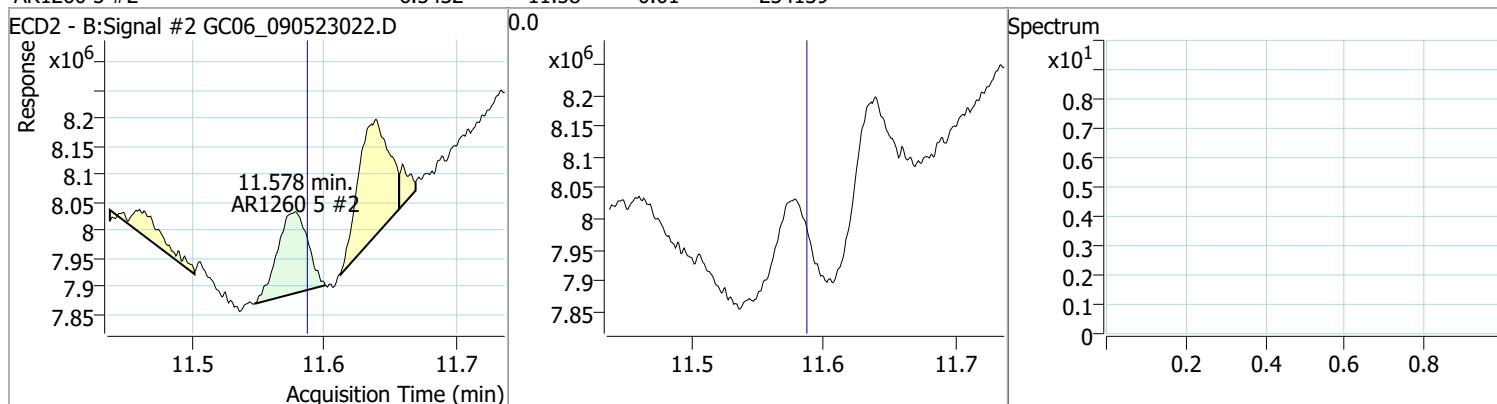


Quantitation Results Report (Not Reviewed)

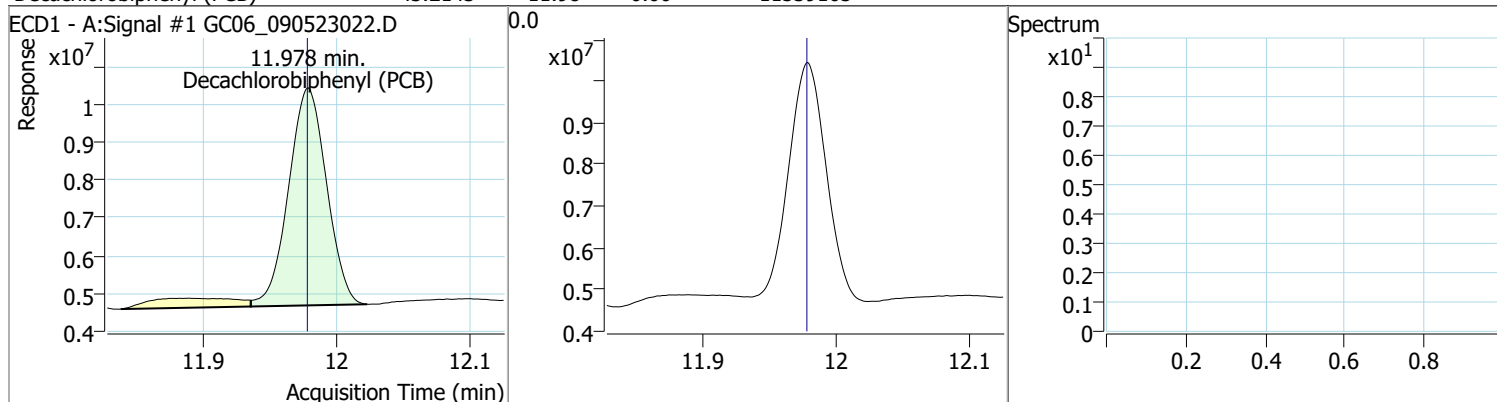
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	149.0702	10.94	0.02	3680180				



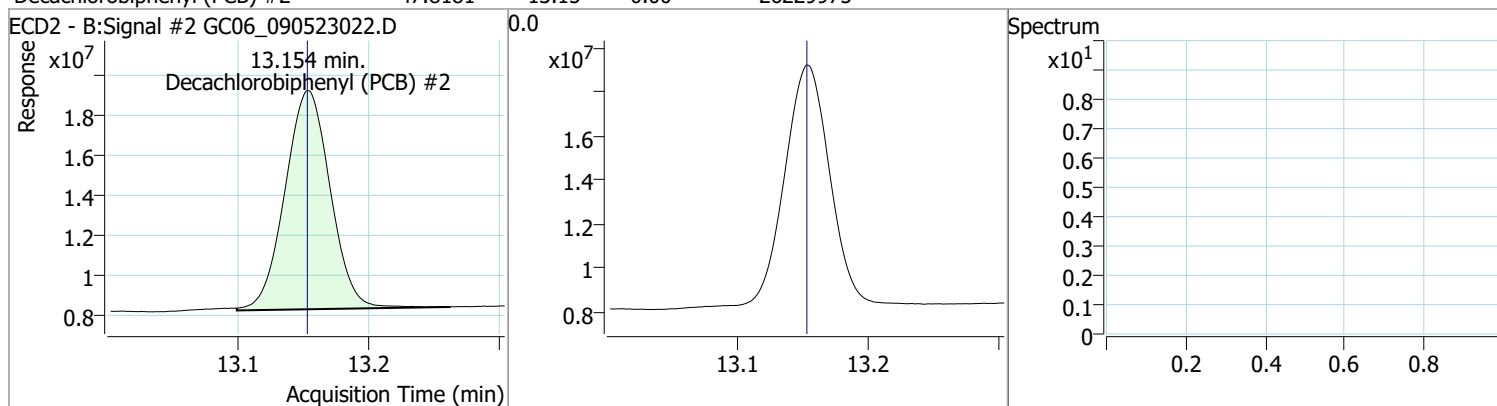
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	6.5432	11.58	-0.01	234139				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	43.2143	11.98	0.00	11539165				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	47.8181	13.15	0.00	26229975				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-021	Client ID: ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-DUP-LA
Seqnum: 453357659023	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523023	Batch: 321684	Time: 05-SEP-2023 15:20
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	55.52	0.56 ^{FP}	1.8	105%	0.50		x u
Aroclor-1016 Peak # 1	B	39.71	0.40	0.74	60%			
Aroclor-1016 Peak # 2	B	131.1	1.31	0.60	74%			
Aroclor-1016 Peak # 3	B	91.25	0.91	3.18	111%			
Aroclor-1016 Peak # 4	B	2.342	0.02	3.77	198%			
Aroclor-1016 Peak # 5	B	13.21	0.13	0.61	129%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	52.45	0.52 ^{FP}	0.42	22%	0.50		x u
Aroclor-1260 Peak # 1	B	25.53	0.26	0.91	112%			
Aroclor-1260 Peak # 2	B	17.49	0.17	0.02	155%			
Aroclor-1260 Peak # 3	B	17.25	0.17	ND				
Aroclor-1260 Peak # 4	B	196.1	1.96	0.60	107%			
Aroclor-1260 Peak # 5	B	5.893	0.06	0.57	163%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	40.55	0.5000	0.4055	81	19-121	u
Decachlorobiphenyl (PCB)	B	49.13	0.5000	0.4913	98	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	8998197	-28.85
1-bromo-2-nitrobenzene (PCB)	A	4899467	3643477	-25.64

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.38	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

+ = high bias c = CCV u = use x = false positive

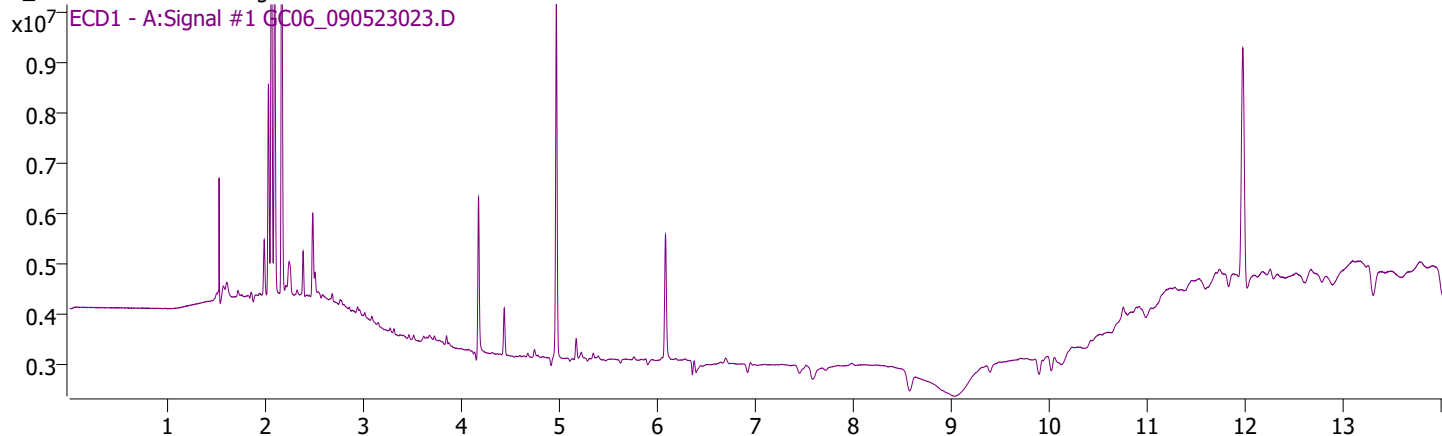
Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

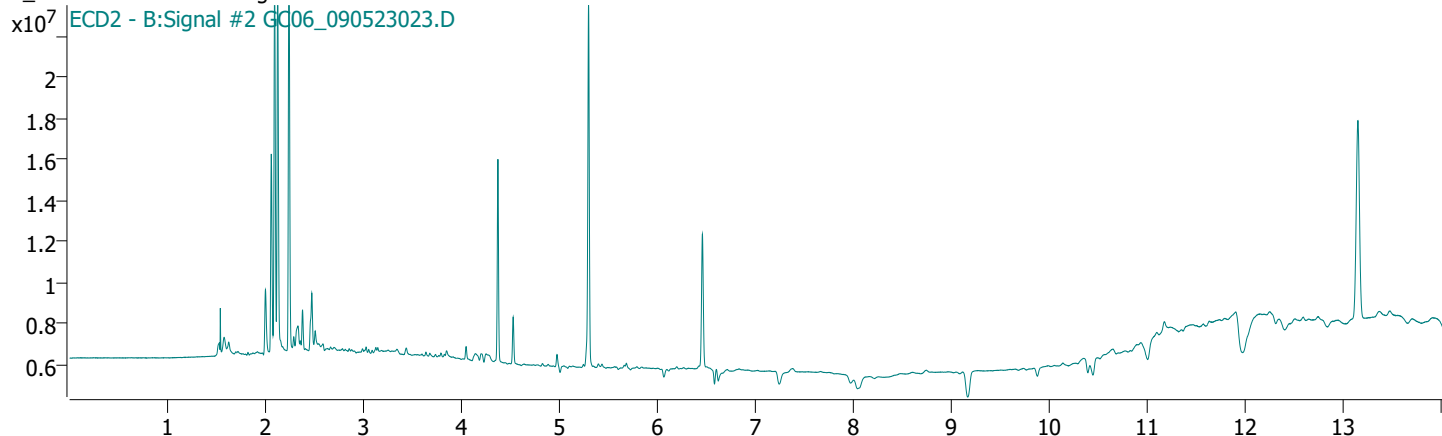
Quantitation Results Report (Not Reviewed)

Data File	GC06_090523023.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 3:20:38 PM
Sample Name	491224-021, 321684, 1	Instrument	SVOA-GC06
Vial	14	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			

GC06_090523023.D No MS Signals



GC06_090523023.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	3643476.55 2	20.0000	ng/ml	0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.375	0.0	8998197.36 9	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.972	0.0	8149331.44 2	41.9742	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 209.87%	*	
S TCMX (PCB) #2	5.301	0.0	19356155.0 50	40.5524	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 202.76%	*	
S Decachlorobiphenyl (PCB)	11.983	0.0	9909808.77 4	40.7600	ng/ml	0.006
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 203.80%	*	
S Decachlorobiphenyl (PCB) #2	13.158	0.0	23344470.0 41	49.1271	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 245.64%	*	

Target Compounds

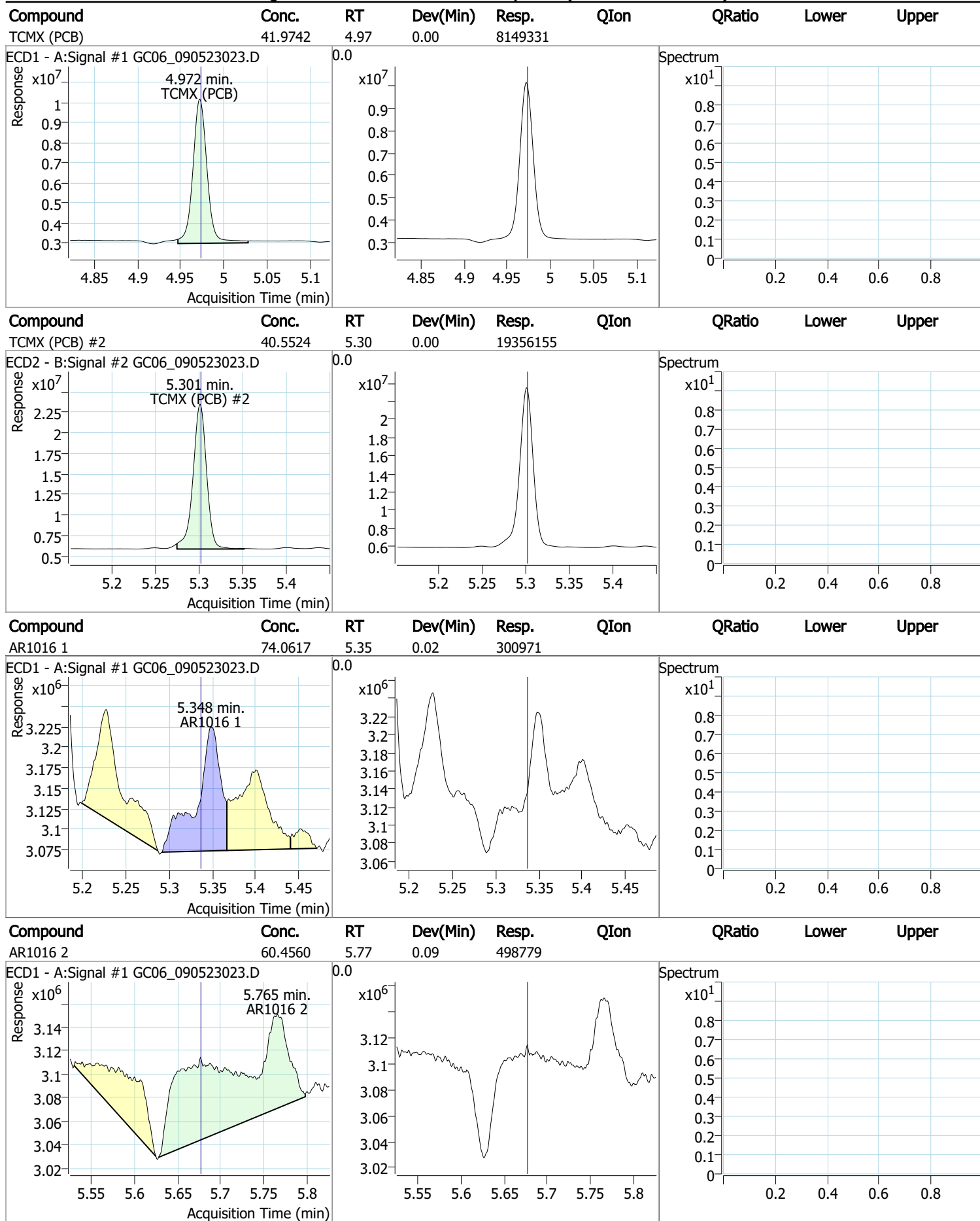
QValue

Quantitation Results Report (Not Reviewed)

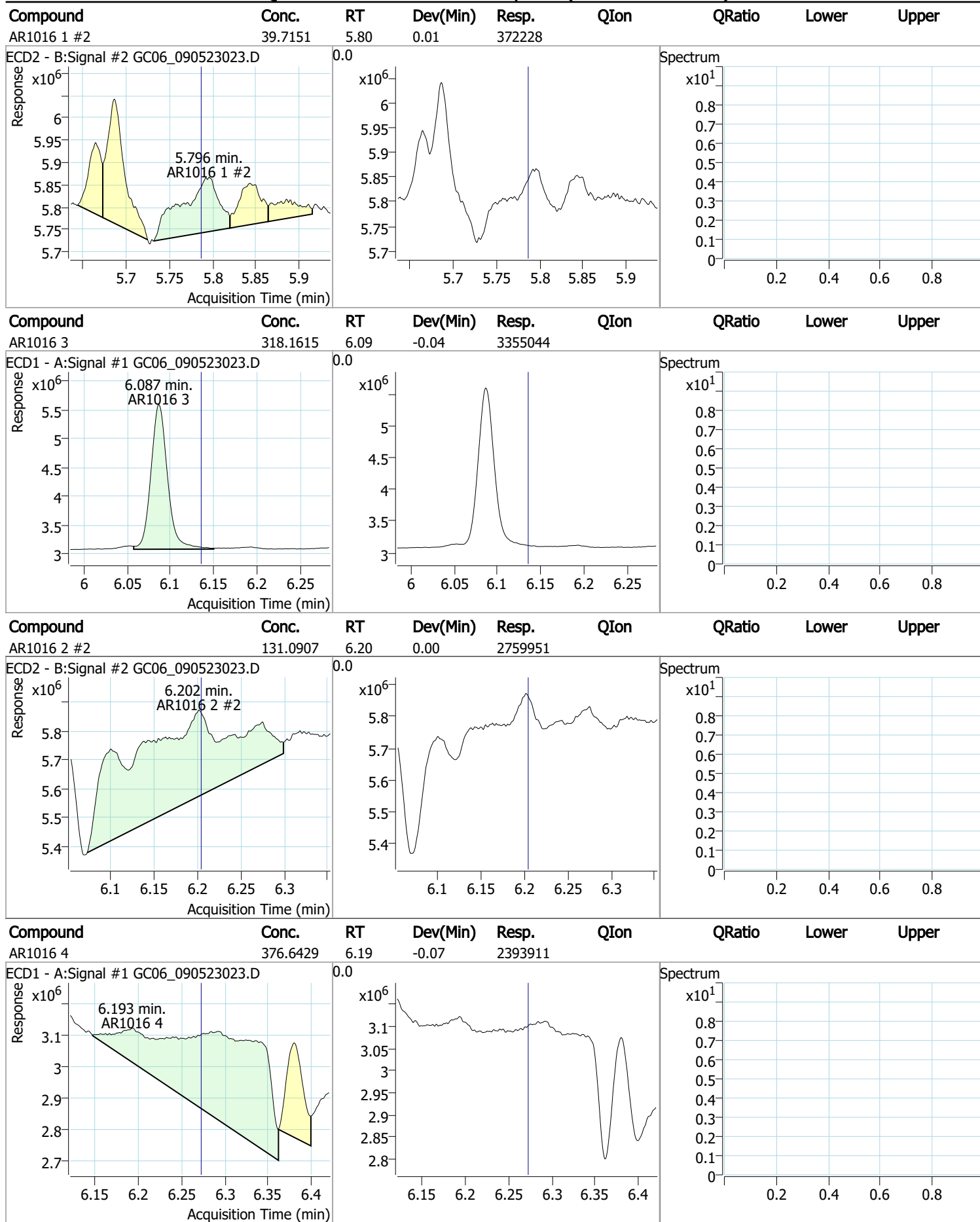
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.348	0.0	300971.450	74.0617	ng/ml	100
T AR1016 2	5.765	0.0	498778.634	60.4560	ng/ml	100
T AR1016 1 #2	5.796	0.0	372228.003	39.7151	ng/ml	100
T AR1016 3	6.087	0.0	3355044.376	318.1615	ng/ml	100
T AR1016 2 #2	6.202	0.0	2759951.421	131.0907	ng/ml	100
T AR1016 4	6.193	0.0	2393910.938	376.6429	ng/ml	100
T AR1016 5	6.380	0.0	297954.222	61.2945	ng/ml	100
T AR1016 3 #2	6.717	0.0	2311754.245	91.2517	ng/ml	100
T AR1016 4 #2	6.911	0.0	42700.372	2.3418	ng/ml	100
T AR1016 5 #2	7.028	0.0	128483.926	13.2101	ng/ml	100
T AR1260 1	8.641	0.0	1095471.073	90.9208	ng/ml	100
T AR1260 2	9.063	0.0	41059.430	2.2323	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.746	0.0	647972.369	25.5342	ng/ml	100
T AR1260 4	10.058	0.0	639746.328	59.7459	ng/ml	100
T AR1260 2 #2	10.148	0.0	500399.081	17.4893	ng/ml	100
T AR1260 3 #2	10.421	0.0	631449.525	17.2459	ng/ml	100
T AR1260 5	10.763	0.0	970895.698	57.3444	ng/ml	100
T AR1260 4 #2	10.943	0.0	4193755.433	196.0955	ng/ml	100
T AR1260 5 #2	11.581	0.0	182666.591	5.8928	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

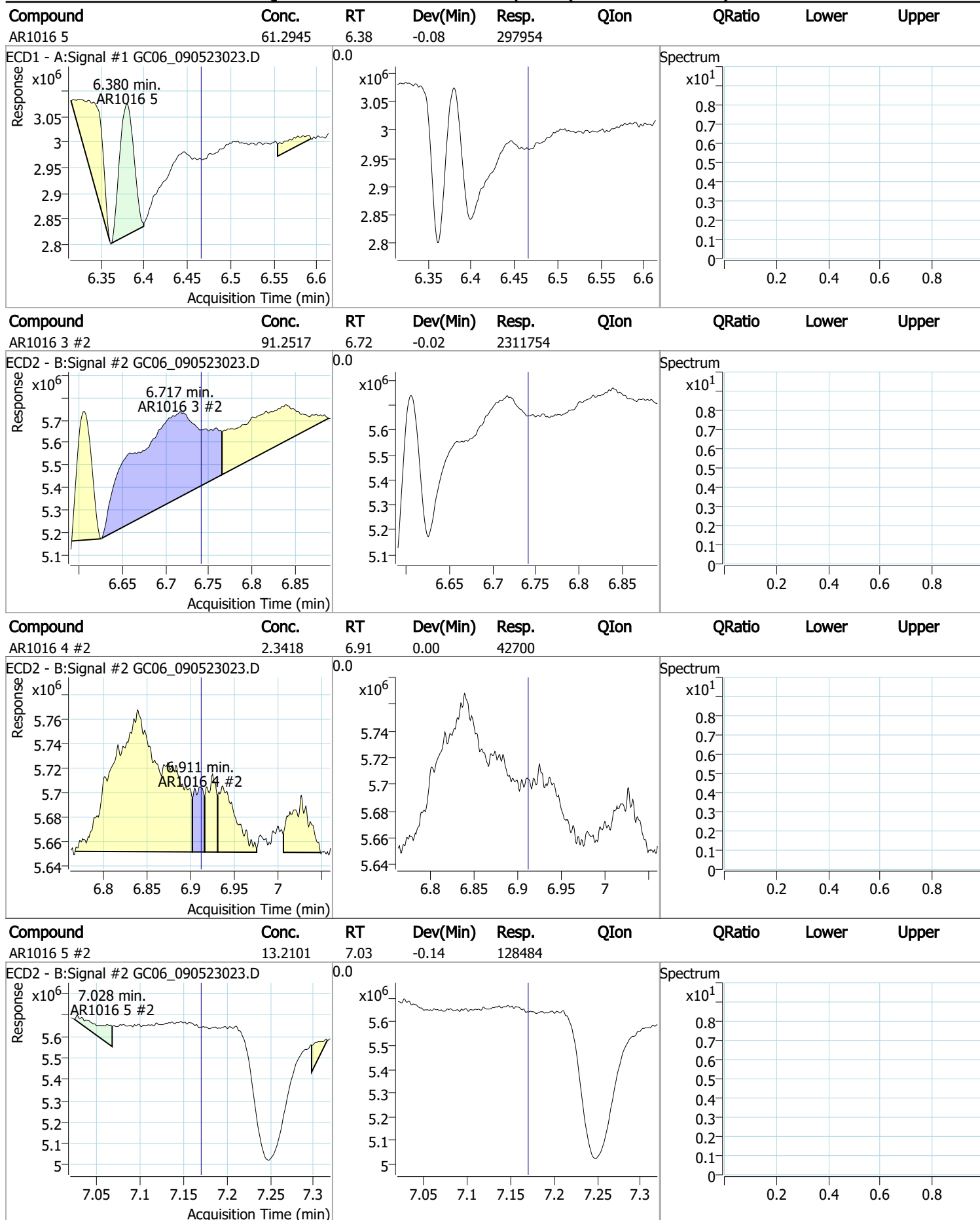
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



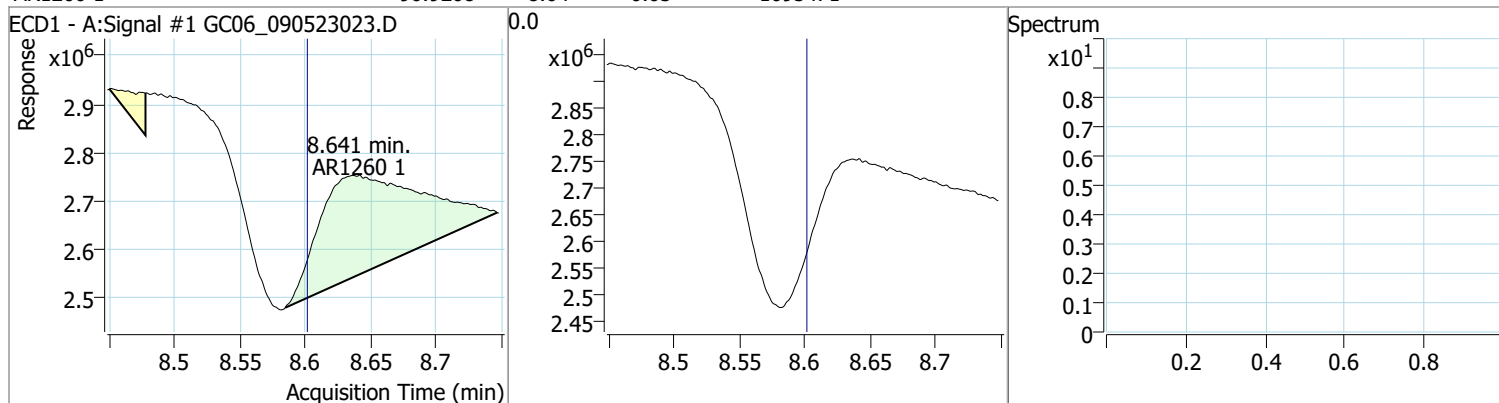
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

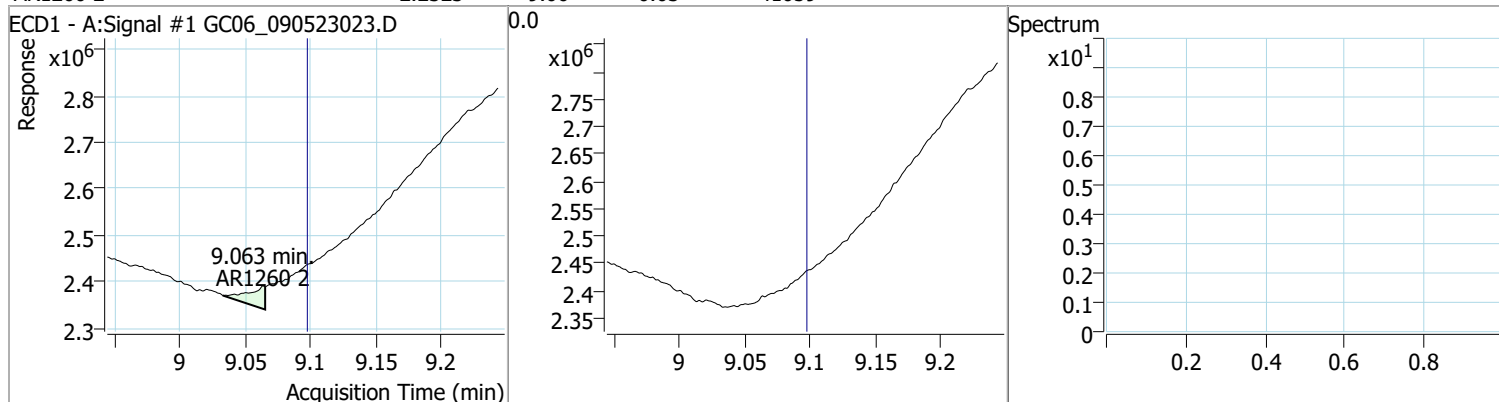
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 1 90.9208 8.64 0.05 1095471



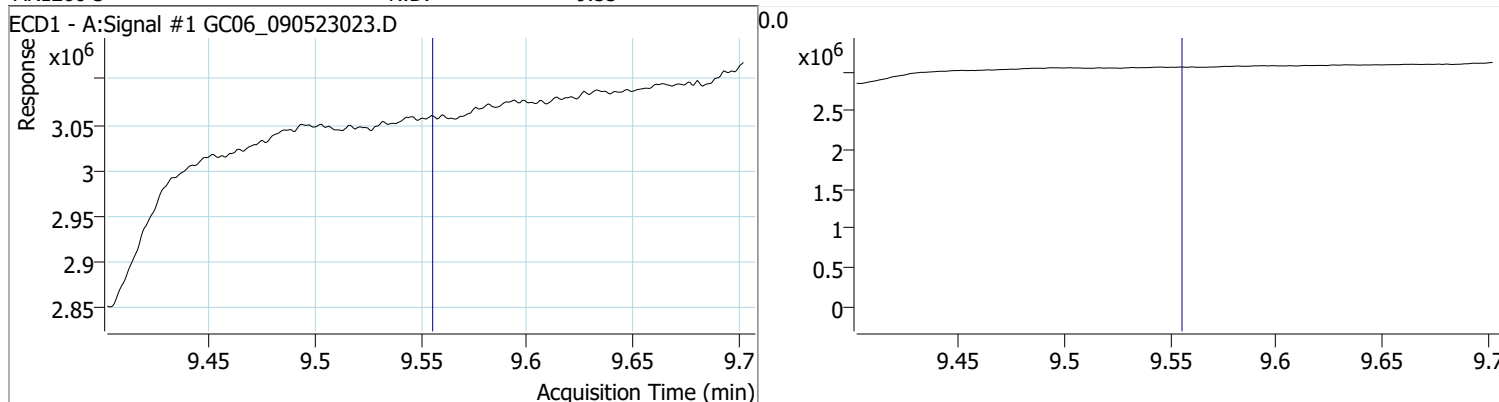
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1260 2 2.2323 9.06 -0.03 41059



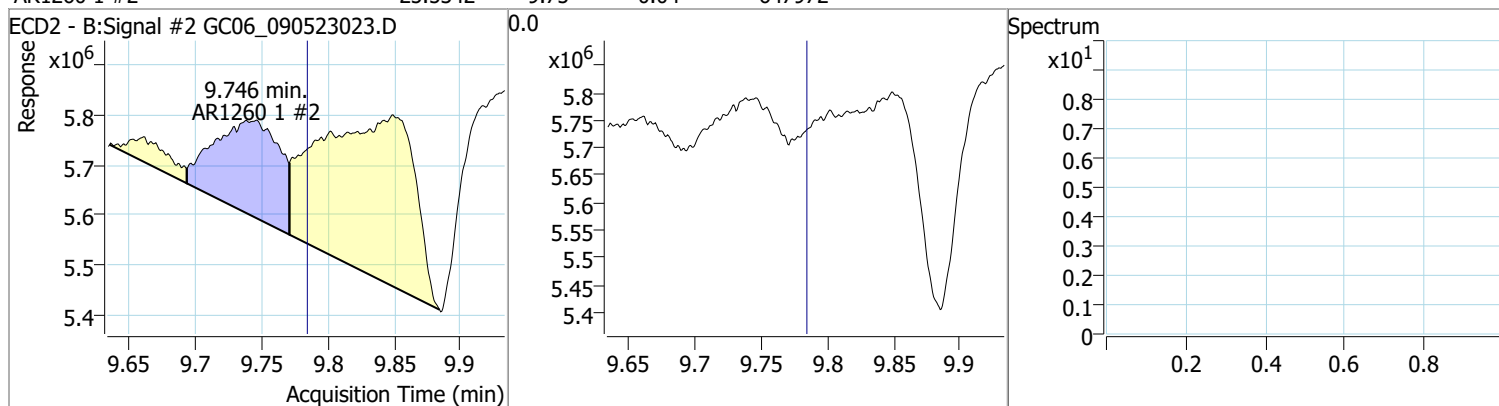
Compound	Conc.	Exp RT	QIon	Exp Ratio
----------	-------	--------	------	-----------

AR1260 3 N.D. 9.55

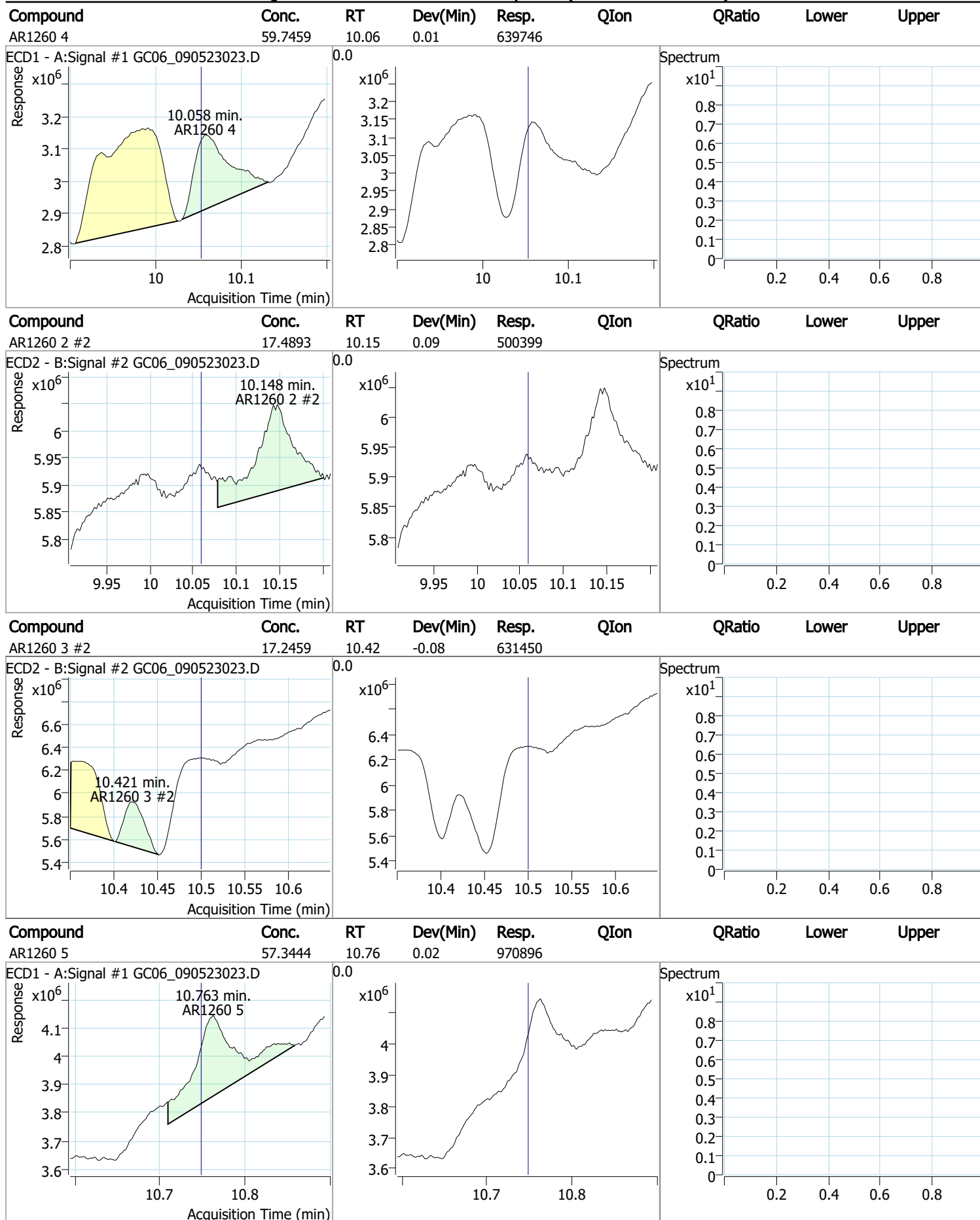


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

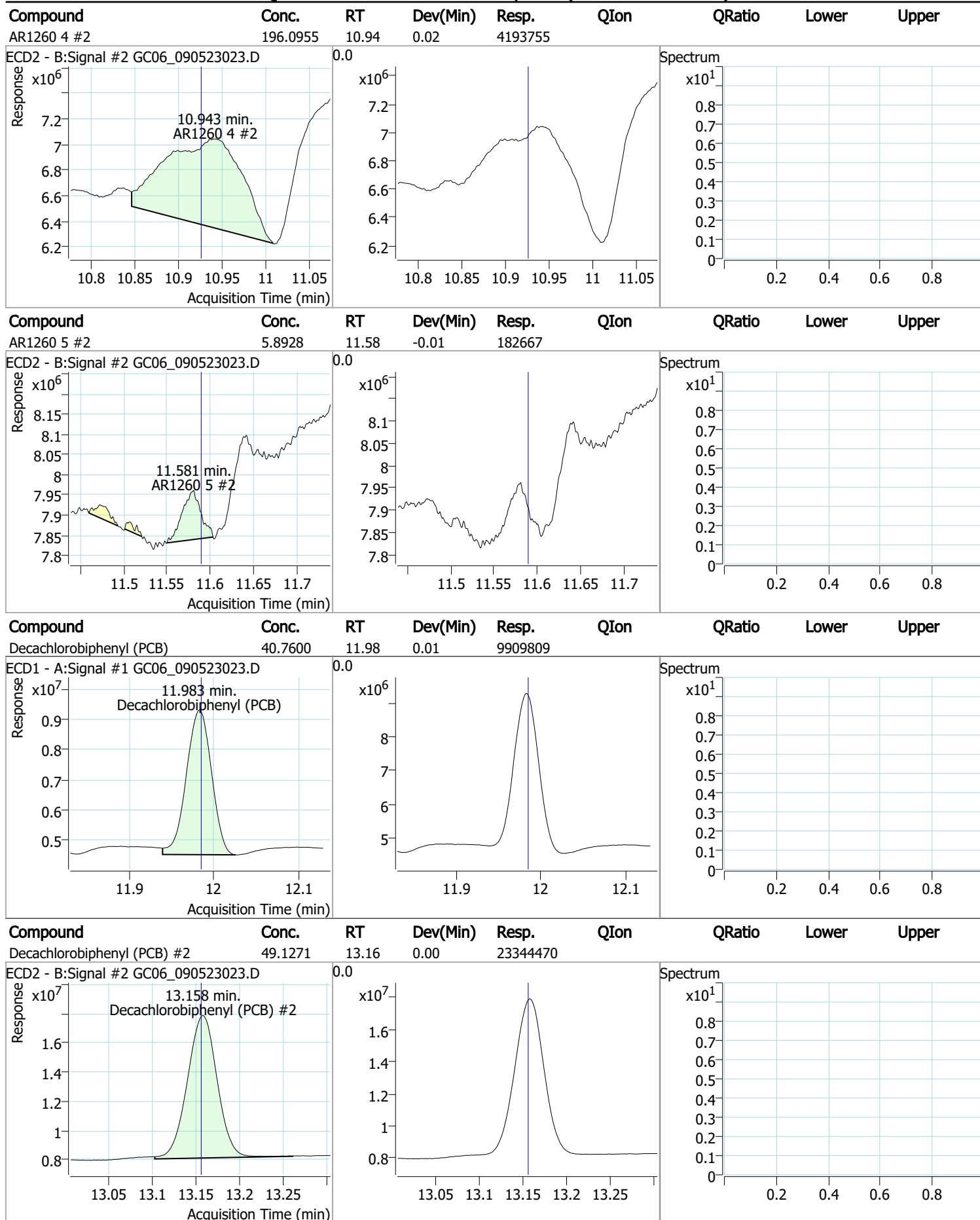
AR1260 1 #2 25.5342 9.75 -0.04 647972



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst: SVOA-GC06	Lab ID: 491224-023	Client ID: ARCH-C10W-PS-2.5-230828-P-G
Seqnum: 453357659024	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: gc06_090523024	Batch: 321684	Time: 05-SEP-2023 15:39
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	61.03	0.61 FP	1.2	66%	0.50		x u
Aroclor-1016 Peak # 1	B	91.37	0.91	0.67	31%			
Aroclor-1016 Peak # 2	B	81.21	0.81	0.65	21%			
Aroclor-1016 Peak # 3	B	117.3	1.17	1.61	31%			
Aroclor-1016 Peak # 4	B	7.062	0.07	2.72	190%			
Aroclor-1016 Peak # 5	B	8.171	0.08	0.43	136%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	53.39	0.53 FP	1.1	72%	0.50		x u
Aroclor-1260 Peak # 1	B	27.58	0.28	4.55	177%			
Aroclor-1260 Peak # 2	B	8.552	0.09	0.00	194%			
Aroclor-1260 Peak # 3	B	18.18	0.18	ND				
Aroclor-1260 Peak # 4	B	206.5	2.07	0.65	104%			
Aroclor-1260 Peak # 5	B	6.156	0.06	0.48	154%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	38.71	0.5000	0.3871	77	19-121	u
Decachlorobiphenyl (PCB)	B	45.46	0.5000	0.4546	91	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	9779982	-22.66
1-bromo-2-nitrobenzene (PCB)	A	4899467	3897606	-20.45

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.37	-0.01
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

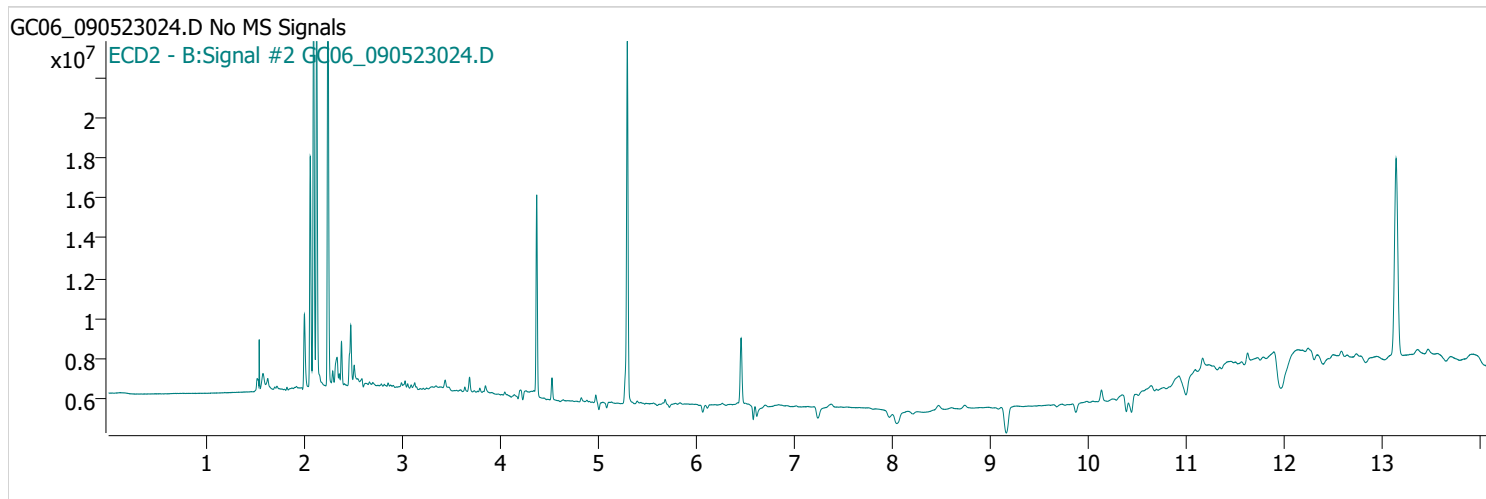
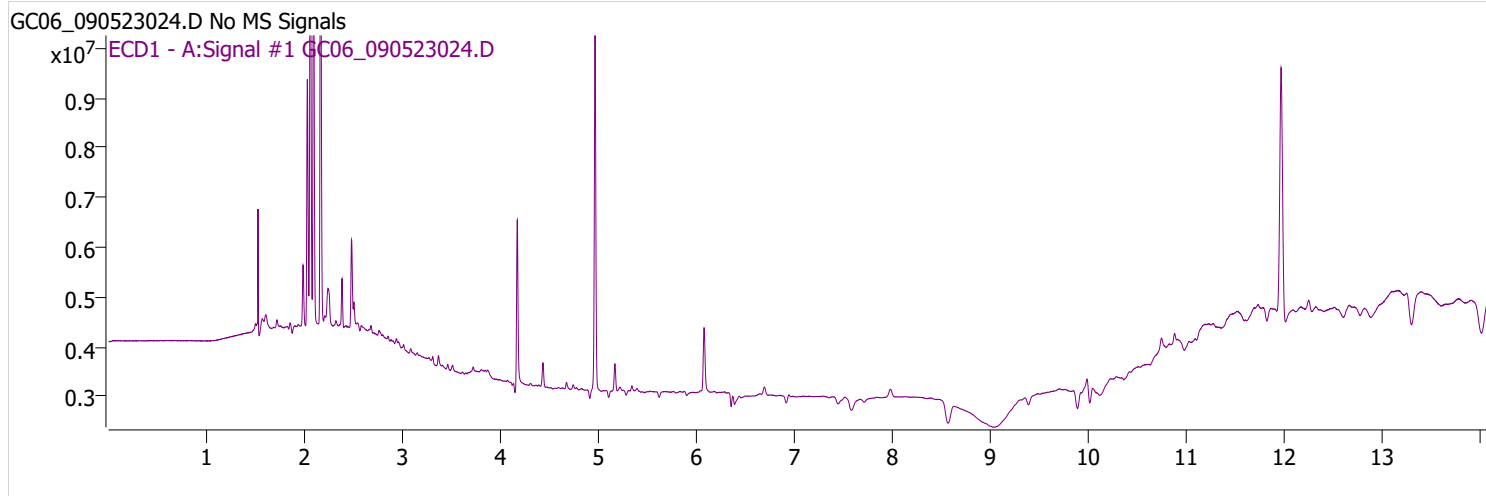
+ = high bias c = CCV u = use x = false positive

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523024.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 3:39:20 PM
Sample Name	491224-023, 321684, 1	Instrument	SVOA-GC06
Vial	15	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	3897605.618	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.374	0.0	9779982.454	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.971	0.0	8364561.007	40.2737	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 201.37%	*	
S TCMX (PCB) #2	5.300	0.0	20083404.795	38.7126	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 193.56%	*	
S Decachlorobiphenyl (PCB)	11.980	0.0	10262571.978	39.4587	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 197.29%	*	
S Decachlorobiphenyl (PCB) #2	13.155	0.0	23477611.648	45.4578	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 227.29%	*	

Target Compounds

GC06_090523024.D

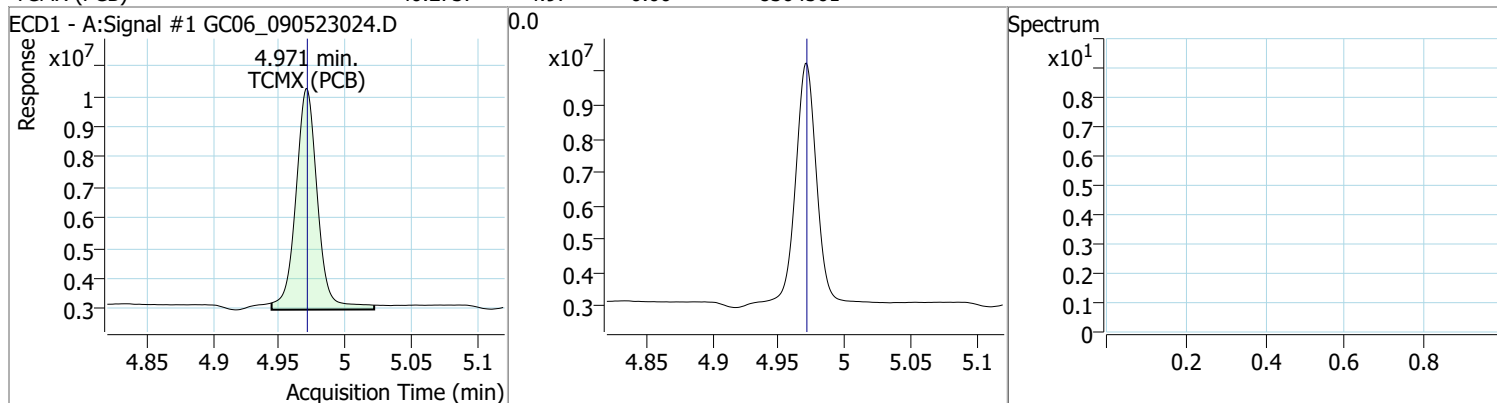
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.348	0.0	290306.030	66.7794	ng/ml	100
T AR1016 2	5.773	0.0	577995.910	65.4899	ng/ml	100
T AR1016 1 #2	5.841	0.0	930730.900	91.3668	ng/ml	100
T AR1016 3	6.084	0.0	1813548.039	160.7668	ng/ml	100
T AR1016 2 #2	6.271	0.0	1858377.240	81.2123	ng/ml	100
T AR1016 4	6.189	0.0	1847475.139	271.7181	ng/ml	100
T AR1016 5	6.378	0.0	223555.329	42.9907	ng/ml	100
T AR1016 3 #2	6.848	0.0	3231019.374	117.3428	ng/ml	100
T AR1016 4 #2	6.933	0.0	139953.243	7.0619	ng/ml	100
T AR1016 5 #2	7.028	0.0	86379.962	8.1712	ng/ml	100
T AR1260 1	8.642	0.0	5864630.617	455.0100	ng/ml	100
T AR1260 2	9.041	0.0	2739.256	0.1392	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.746	0.0	760646.935	27.5782	ng/ml	100
T AR1260 4	10.056	0.0	747572.601	65.2637	ng/ml	100
T AR1260 2 #2	10.050	0.0	265935.729	8.5516	ng/ml	100
T AR1260 3 #2	10.419	0.0	723361.525	18.1769	ng/ml	100
T AR1260 5	10.760	0.0	866876.284	47.8623	ng/ml	100
T AR1260 4 #2	10.938	0.0	4800070.942	206.5045	ng/ml	100
T AR1260 5 #2	11.574	0.0	207422.674	6.1565	ng/ml	100

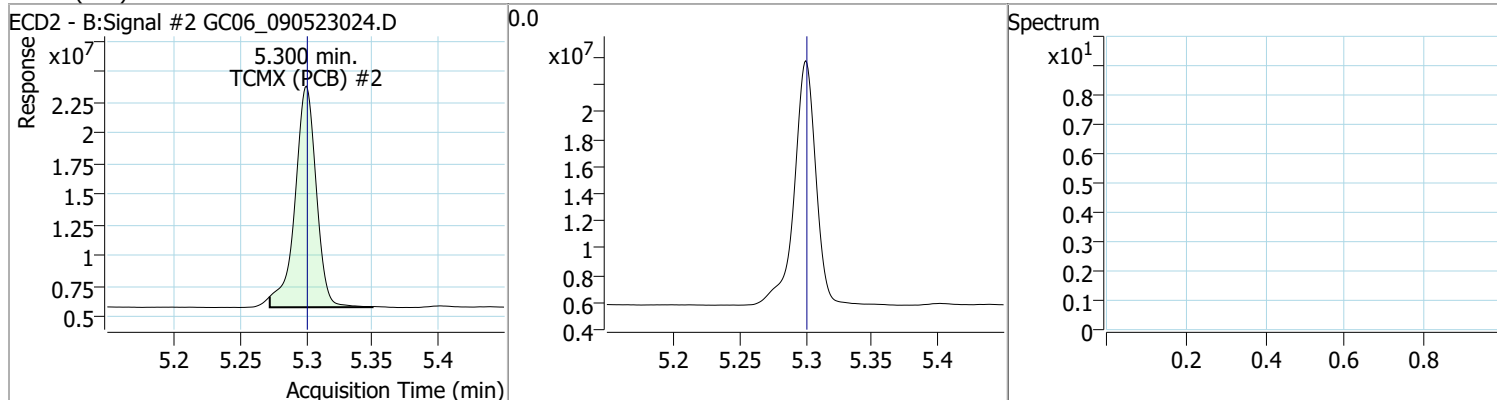
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

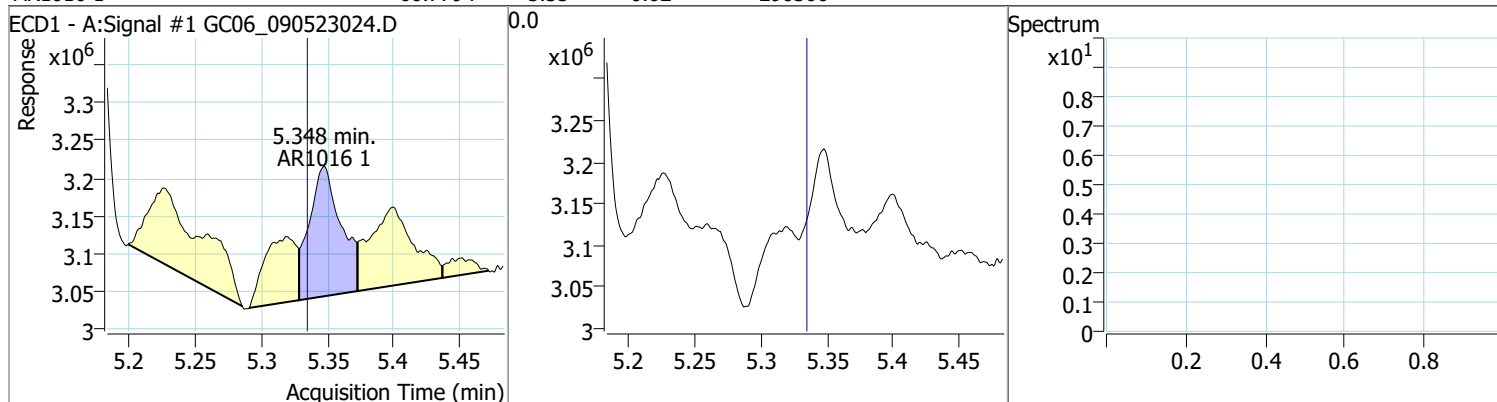
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	40.2737	4.97	0.00	8364561				



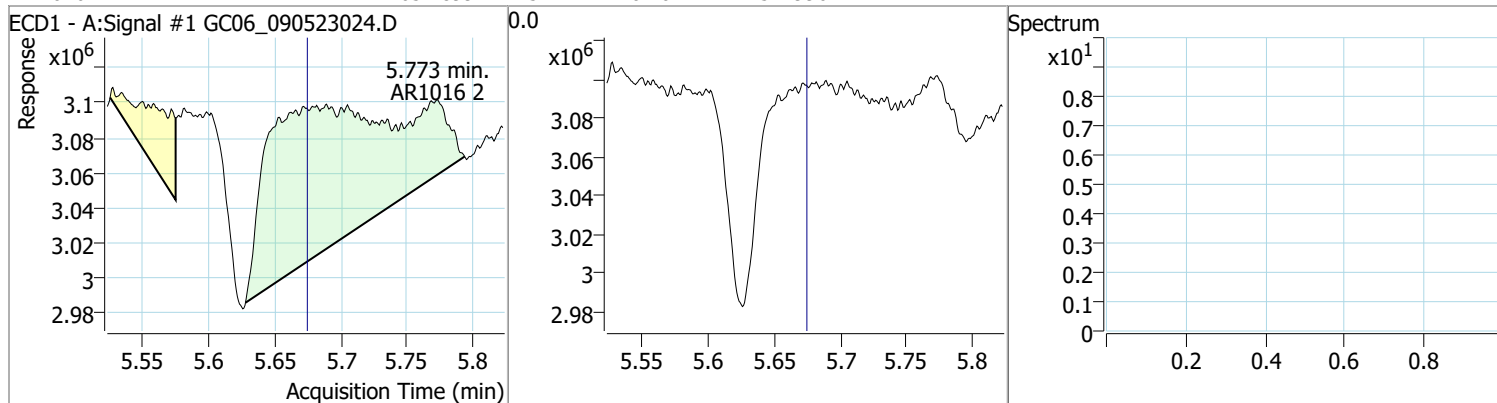
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	38.7126	5.30	0.00	20083405				



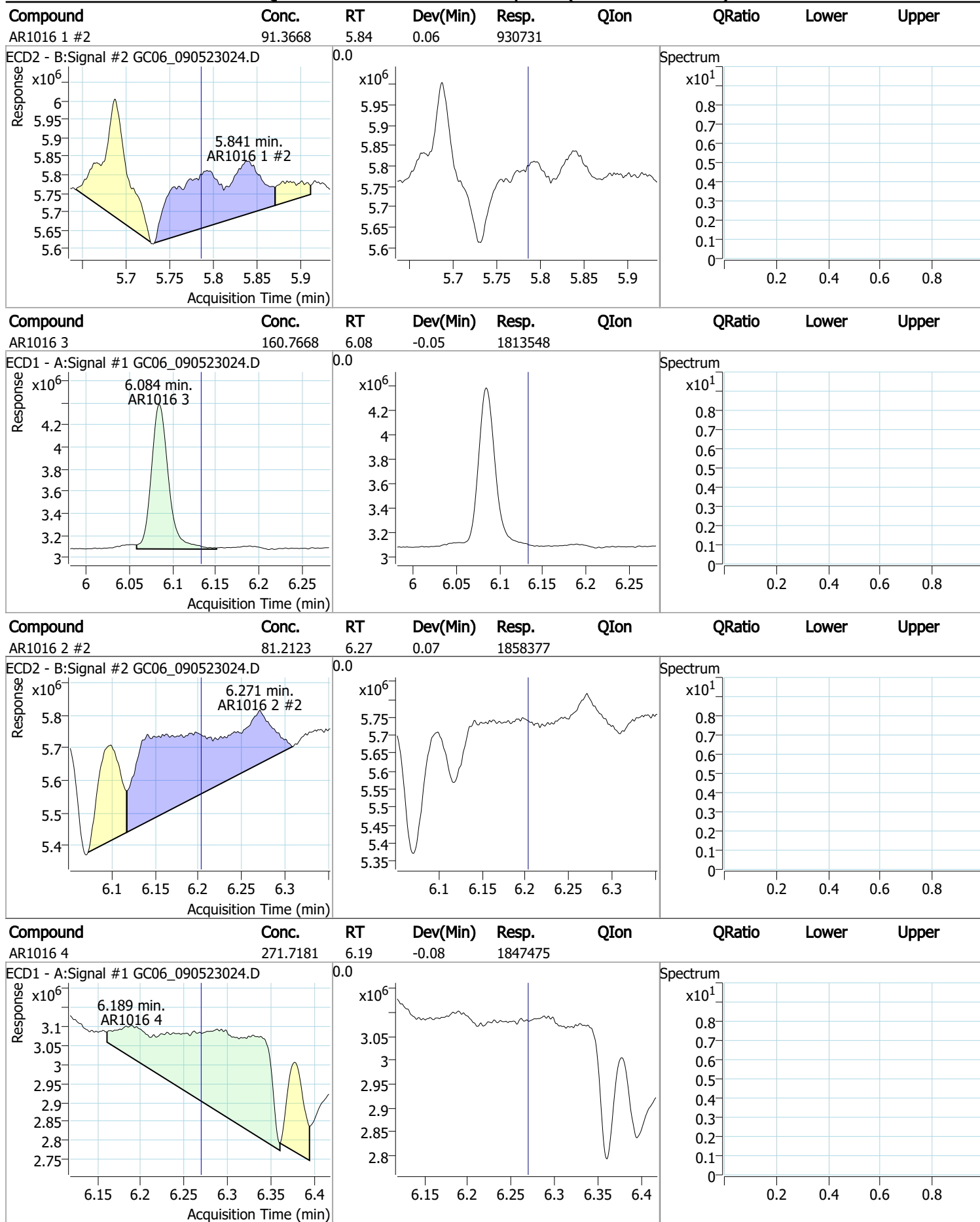
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	66.7794	5.35	0.02	290306				



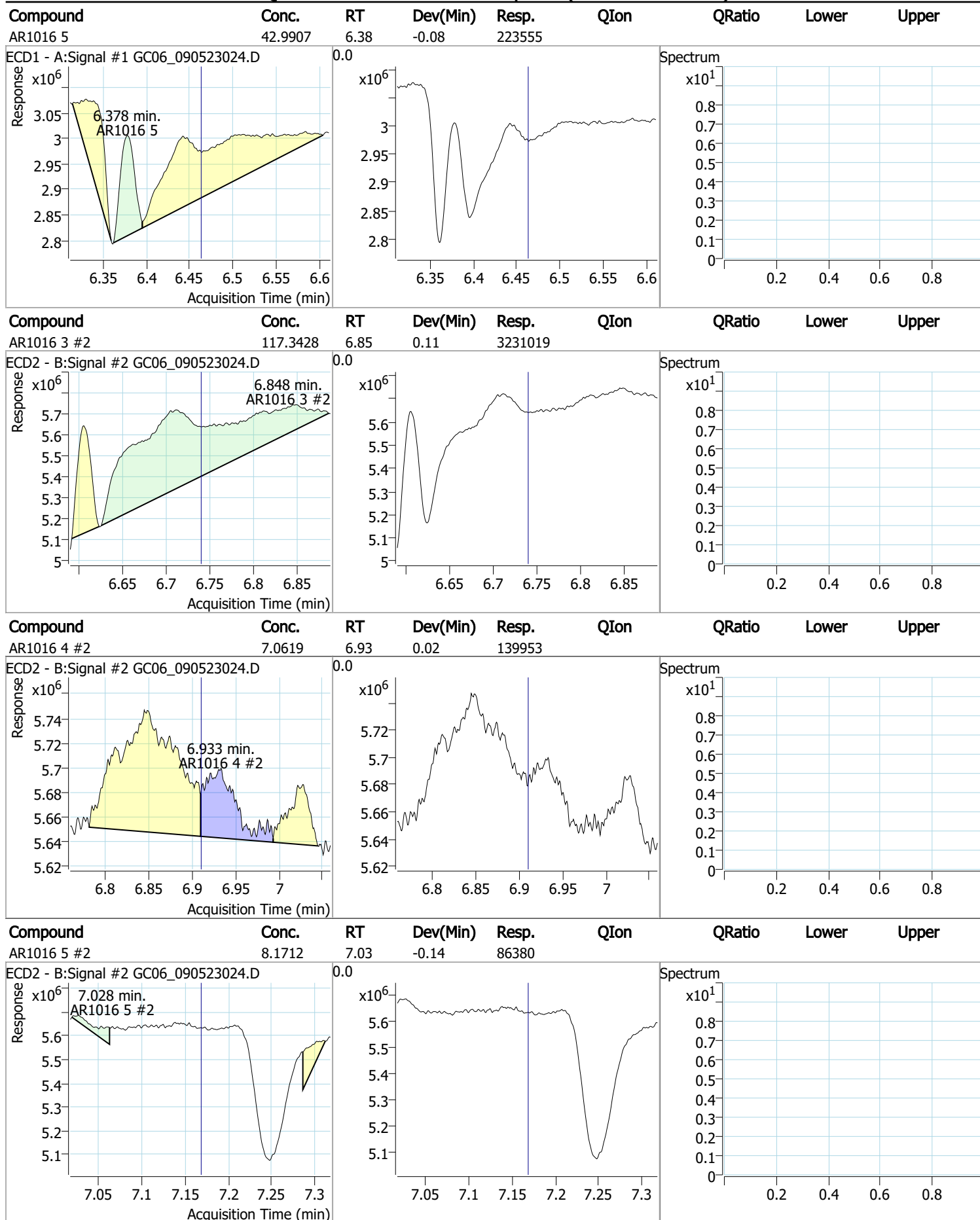
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	65.4899	5.77	0.10	577996				



Quantitation Results Report (Not Reviewed)

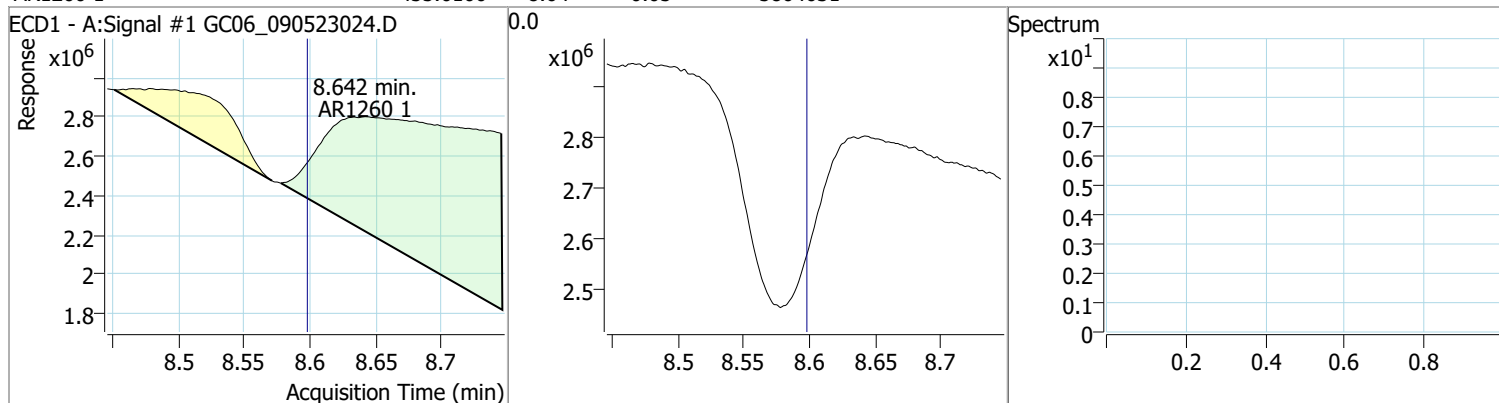


Quantitation Results Report (Not Reviewed)

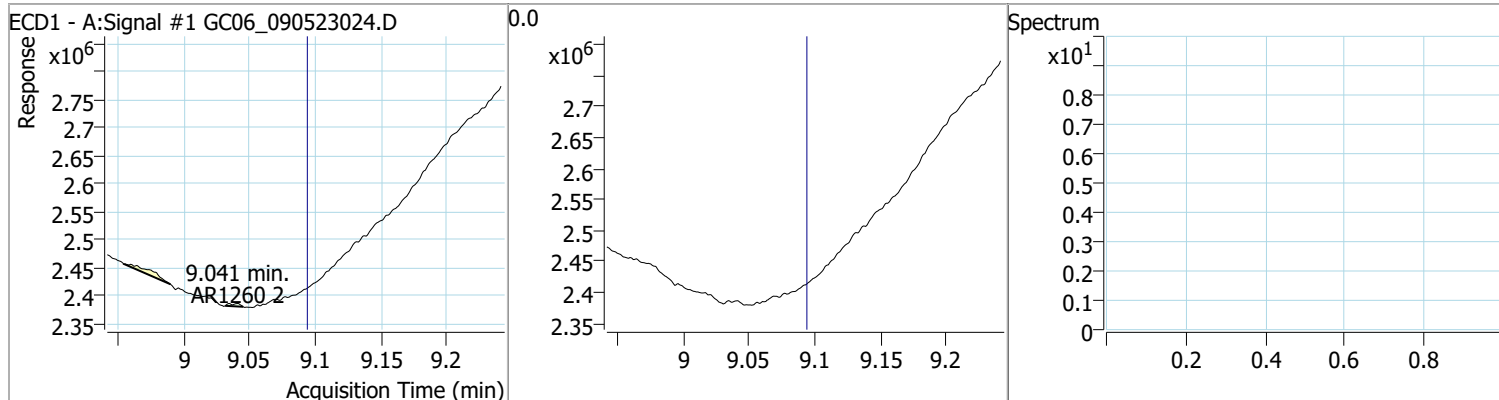


Quantitation Results Report (Not Reviewed)

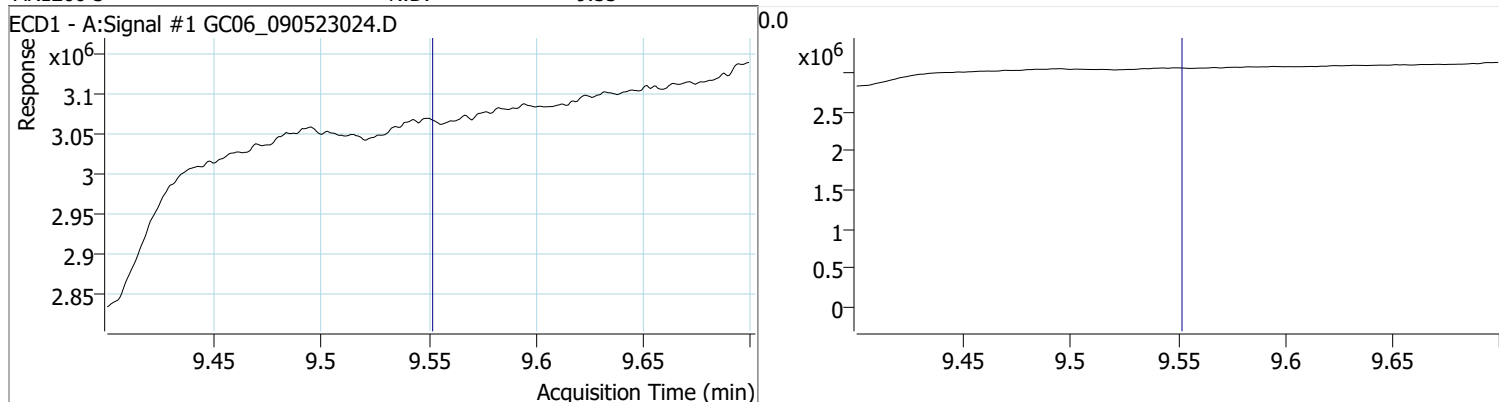
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	455.0100	8.64	0.05	5864631				



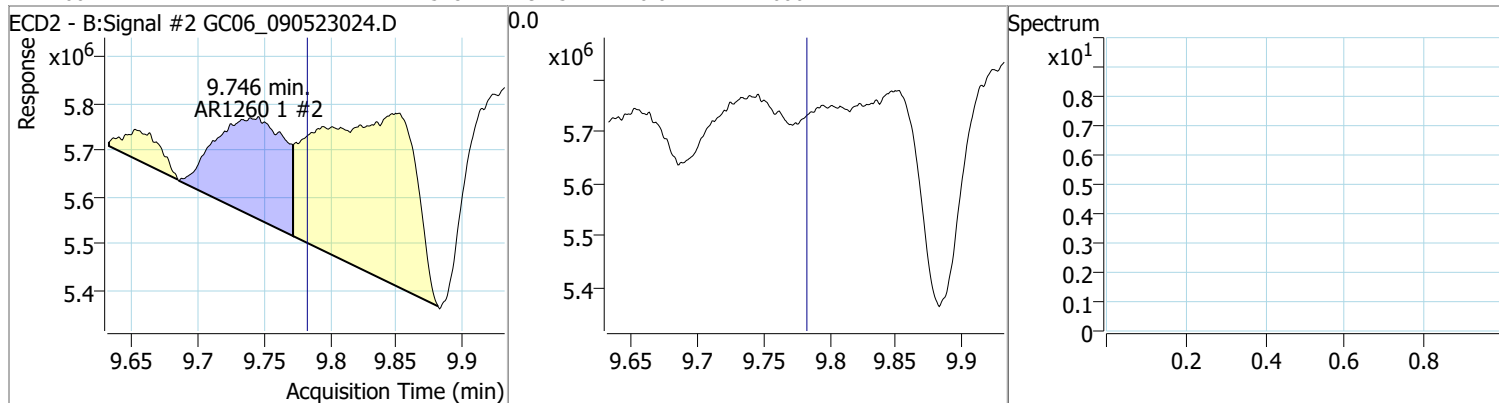
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.1392	9.04	-0.05	2739				



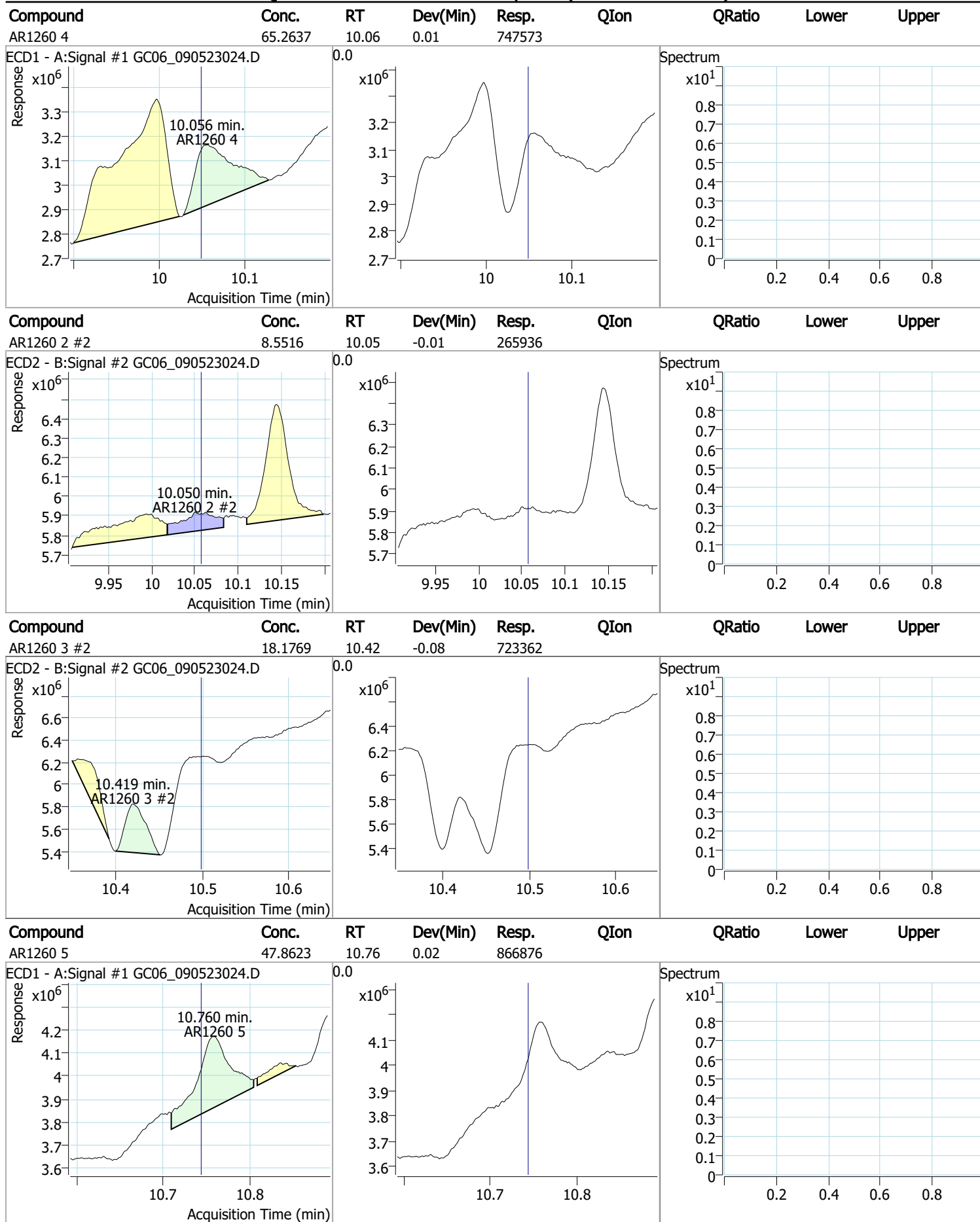
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.55		



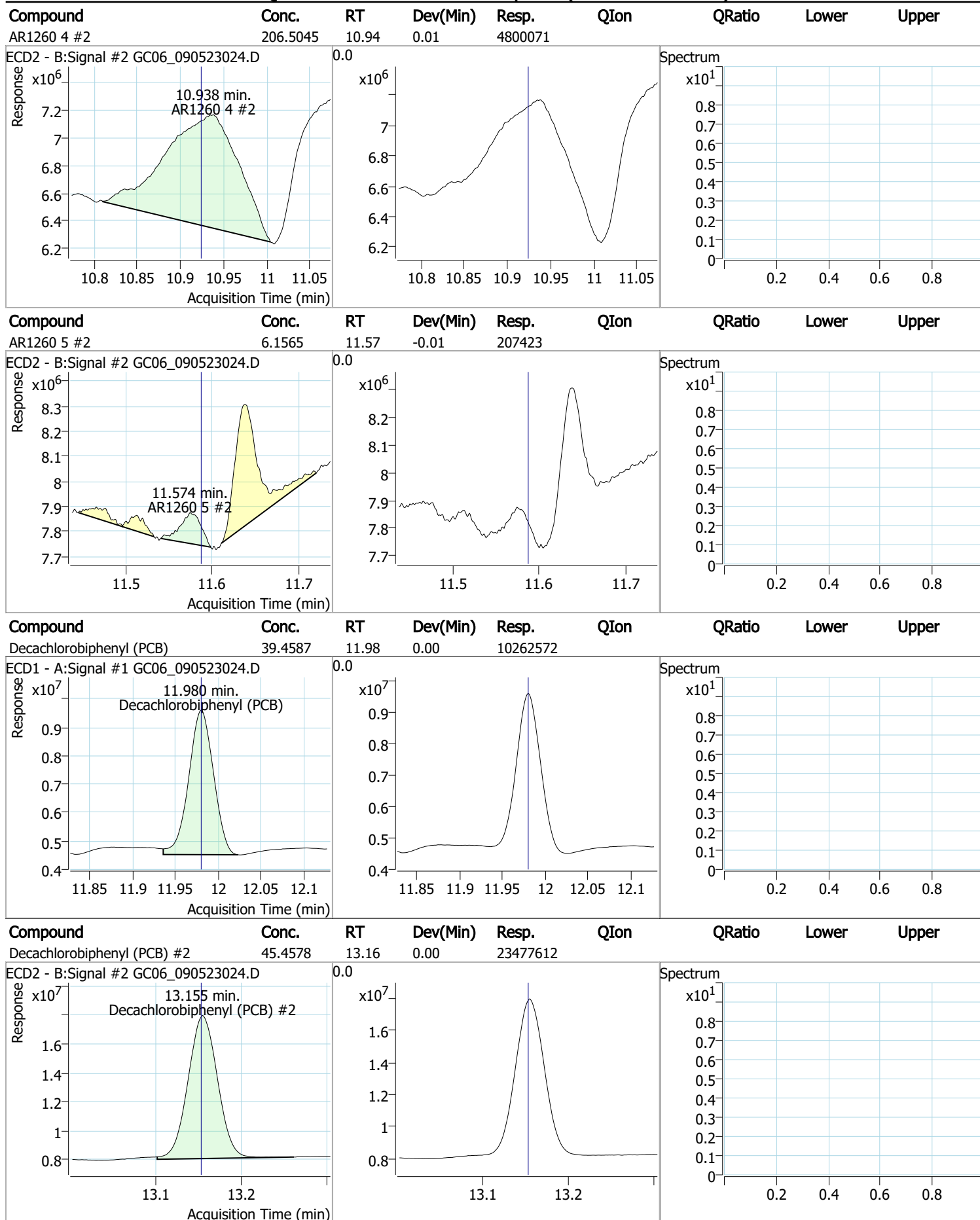
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	27.5782	9.75	-0.04	760647				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 491224 PCBS Wipe

EPA 8082

Inst: SVOA-GC06	Lab ID: QC1091264	
Seqnum: 453357659010.1	Matrix: Wipe	
File: gc06_090523010	Batch: 321684	Time: 05-SEP-2023 11:13
Cal: 453205686001	Caldate: 22-MAY-2023	
IDF: 1.0	Raw Units: ug/L	Units: ug/dm2

- 1.00 dm2 $\Rightarrow$ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Flags
Aroclor-1016	B	38.41	ND	0.34	12%	0.50	u
Aroclor-1221	B		ND			0.50	u
Aroclor-1232	B		ND			0.50	u
Aroclor-1242	B		ND			0.50	u
Aroclor-1248	B		ND			0.50	u
Aroclor-1254	B		ND			0.50	u
Aroclor-1260	B	36.76	ND	0.37	1%	0.50	u
Aroclor-1262	B		ND			0.50	u
Aroclor-1268	B		ND			0.50	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	38.10	0.5000	0.3810	76	19-121	u
Decachlorobiphenyl (PCB)	B	42.54	0.5000	0.4254	85	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV Abund	BLANK Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	10545923	-16.61
1-bromo-2-nitrobenzene (PCB)	A	4899467	3618954	-26.14

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR

CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_090523004)	Ch	CCV RT	BLANK RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.38	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

09/05/23 : WIPE/1dm2-10ML [general version]

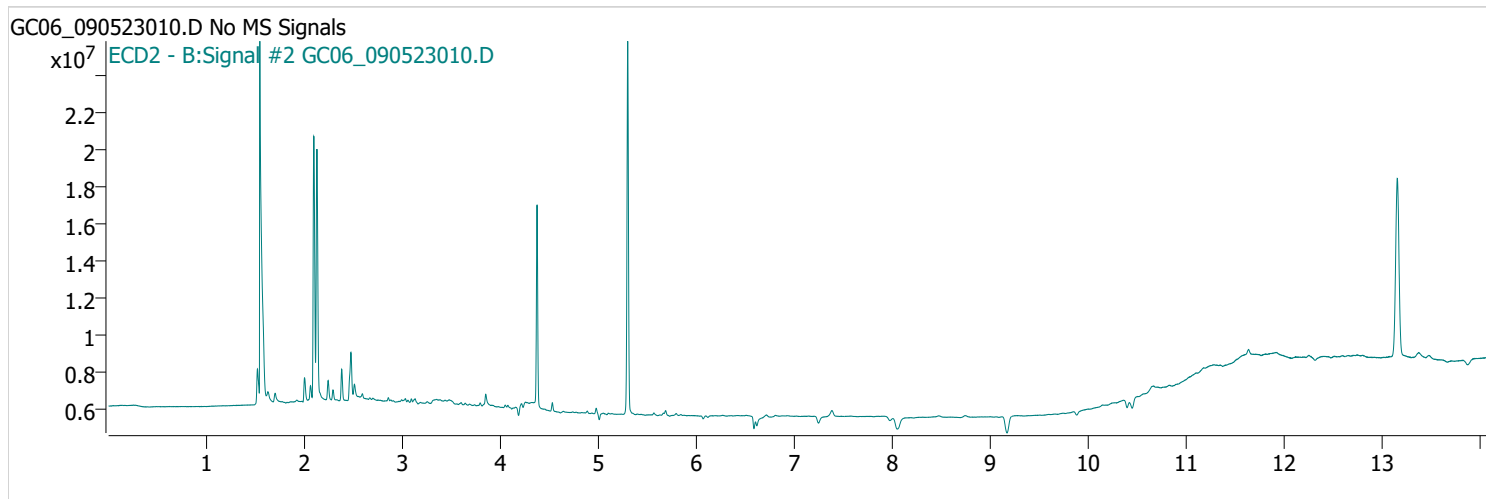
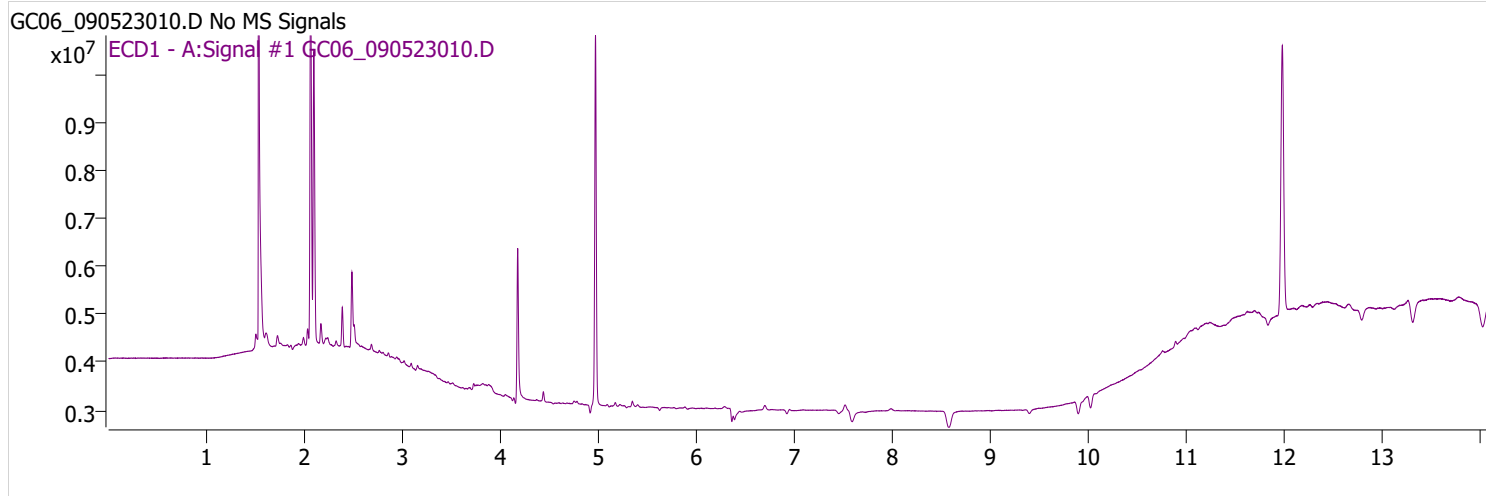
+ = high bias c = CCV u = use

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523010.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 11:13:52 AM
Sample Name	QC1091264, 321684, 1	Instrument	SVOA-GC06
Vial	1	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	3618954.25 3	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.375	0.0	10545923.3 87	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.971	0.0	9116834.32 4	47.2756	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 236.38%	*	
S TCMX (PCB) #2	5.300	0.0	21316418.3 75	38.1050	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 190.53%	*	
S Decachlorobiphenyl (PCB)	11.983	0.0	11826406.8 54	48.9728	ng/ml	0.007
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 244.86%	*	
S Decachlorobiphenyl (PCB) #2	13.158	0.0	23690128.1 67	42.5379	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 212.69%	*	

Target Compounds

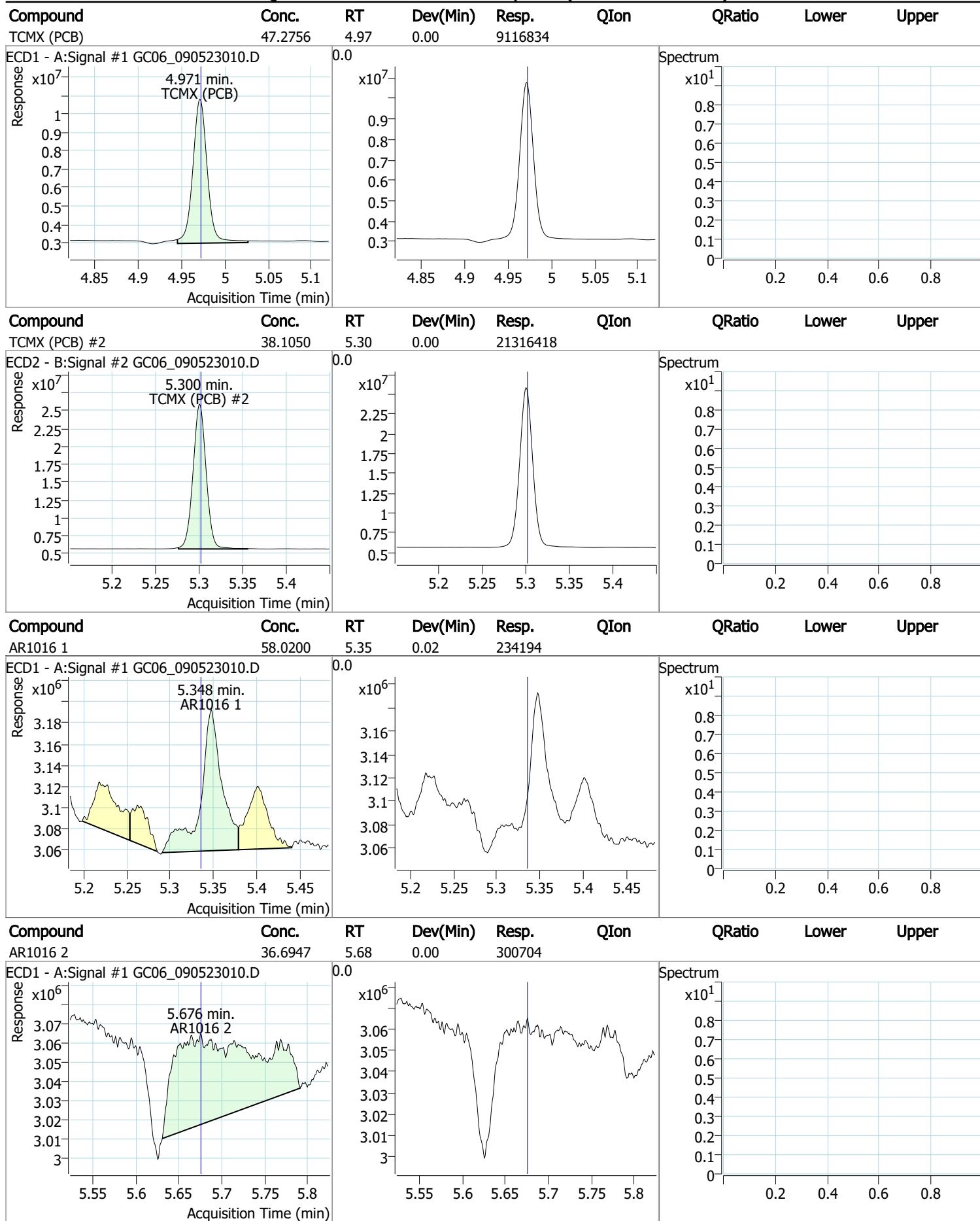
QValue

Quantitation Results Report (Not Reviewed)

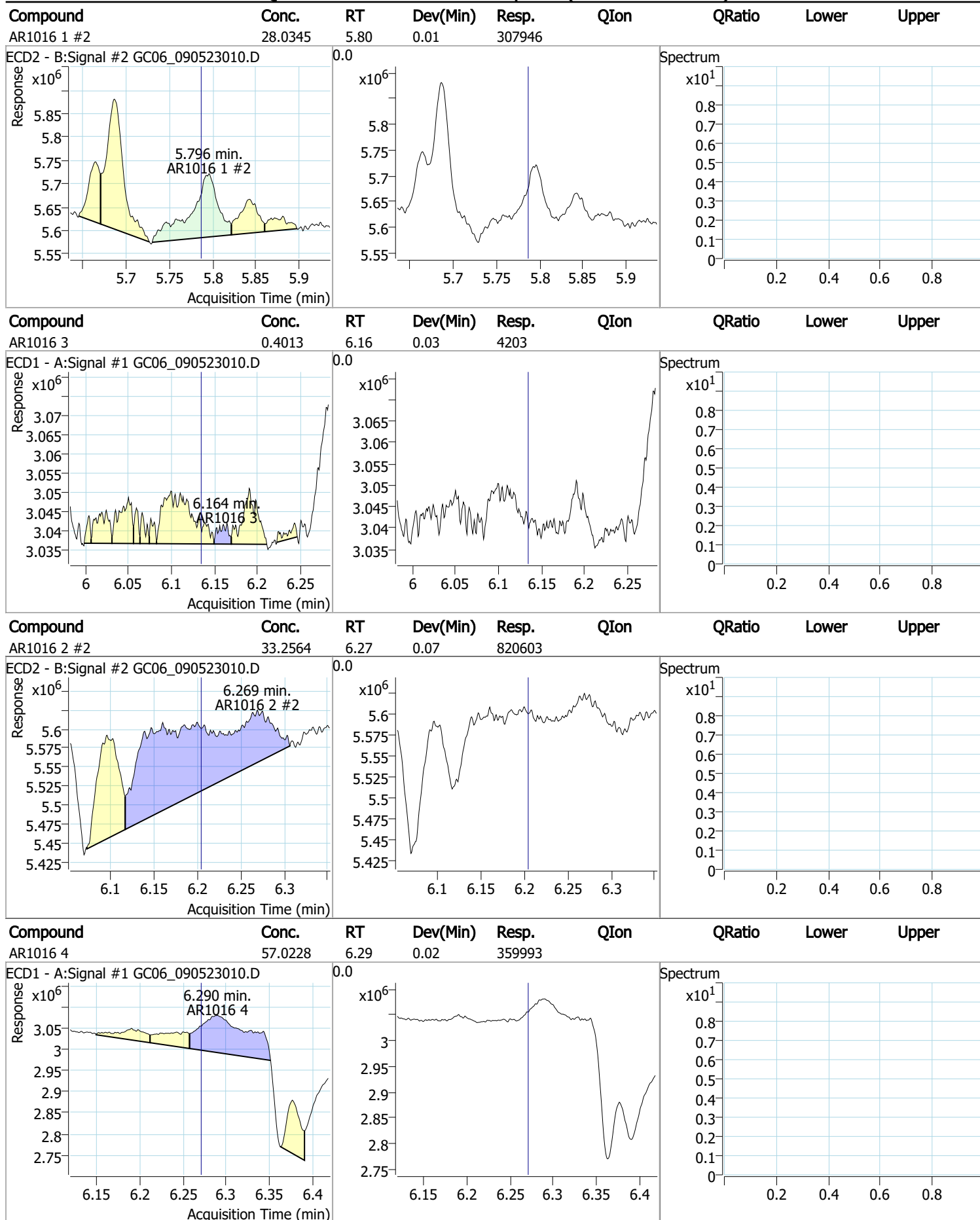
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.348	0.0	234194.085	58.0200	ng/ml	100
T AR1016 2	5.676	0.0	300703.583	36.6947	ng/ml	100
T AR1016 1 #2	5.796	0.0	307946.484	28.0345	ng/ml	100
T AR1016 3	6.164	0.0	4203.430	0.4013	ng/ml	100
T AR1016 2 #2	6.269	0.0	820603.470	33.2564	ng/ml	100
T AR1016 4	6.290	0.0	359992.574	57.0228	ng/ml	100
T AR1016 5	6.377	0.0	84412.116	17.4827	ng/ml	100
T AR1016 3 #2	6.716	0.0	132939.517	4.4774	ng/ml	100
T AR1016 4 #2	6.924	0.0	340934.830	15.9538	ng/ml	100
T AR1016 5 #2	7.315	0.0	1257951.203	110.3547	ng/ml	100
T AR1260 1	8.478	0.0	737691.877	61.6411	ng/ml	100
T AR1260 2	9.090	0.0	17166.817	0.9396	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.746	0.0	246785.503	8.2977	ng/ml	100
T AR1260 4	9.996	0.0	1313616.500	123.5099	ng/ml	100
T AR1260 2 #2	10.150	0.0	143105.078	4.2676	ng/ml	100
T AR1260 3 #2	10.422	0.0	484895.250	11.2997	ng/ml	100
T AR1260 5	0.000		0	N.D.		
T AR1260 4 #2	11.071	0.0	2559005.182	102.0955	ng/ml	100
T AR1260 5 #2	11.640	0.0	2101423.598	57.8422	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

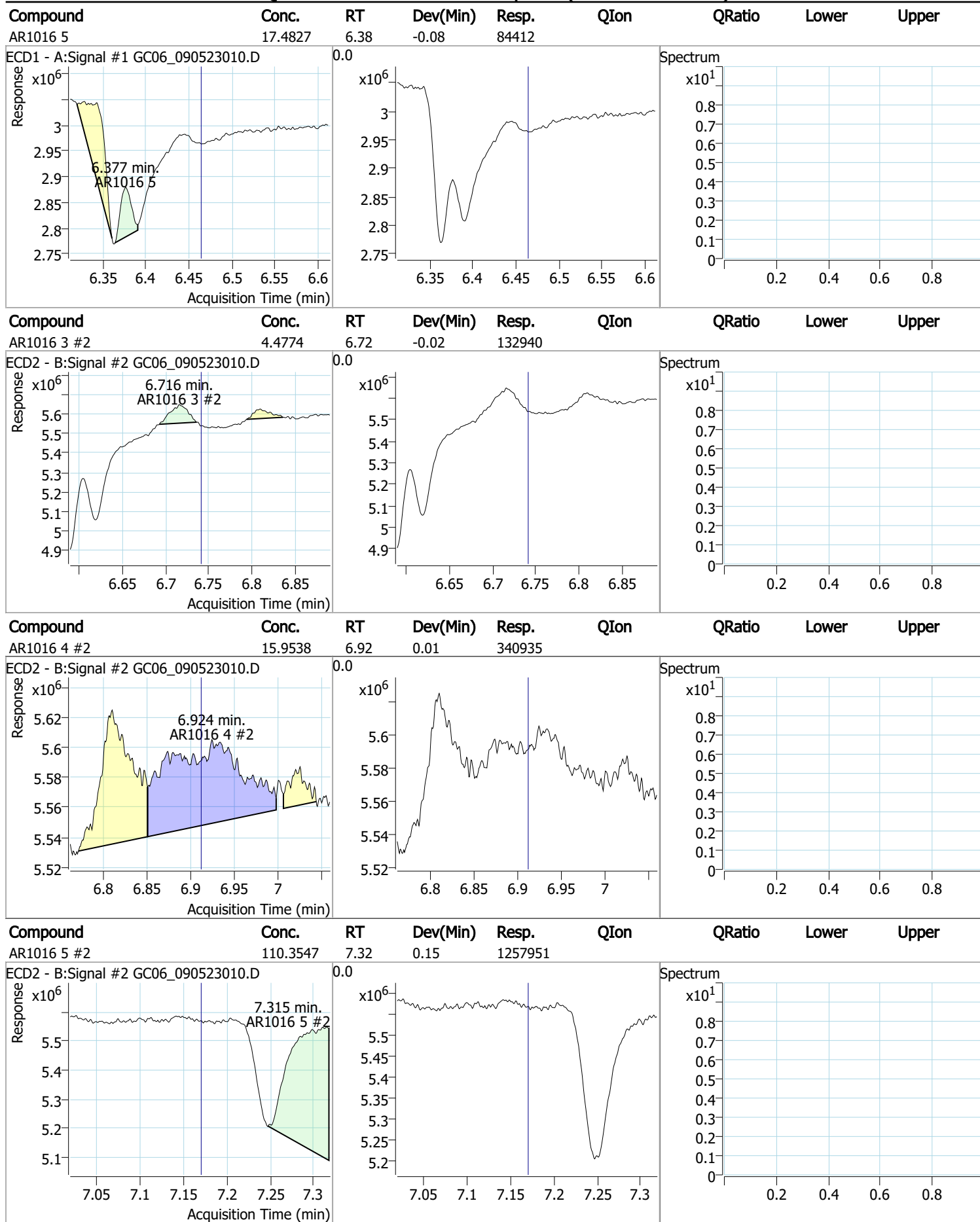
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

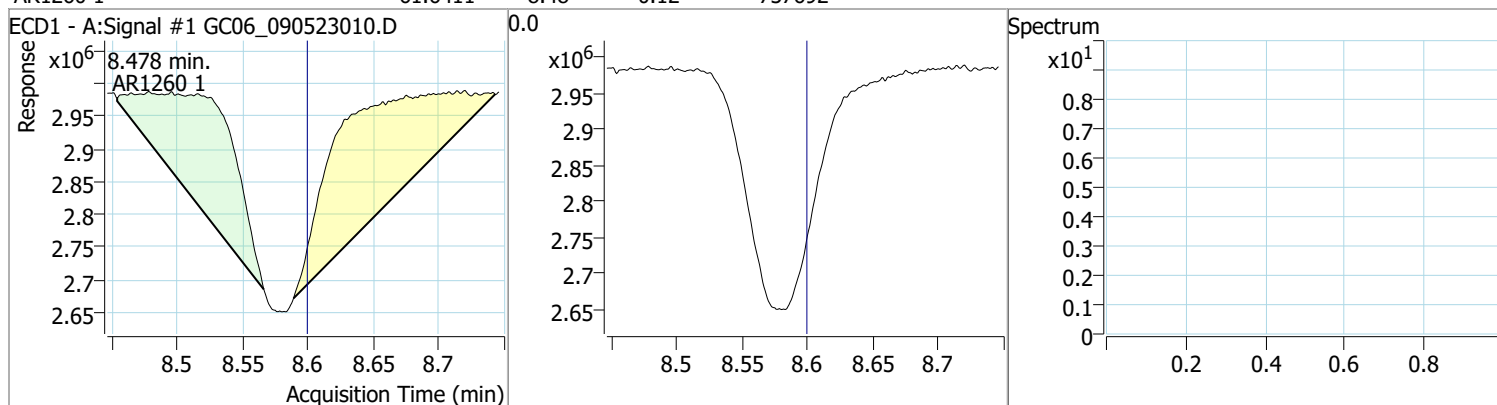


Quantitation Results Report (Not Reviewed)

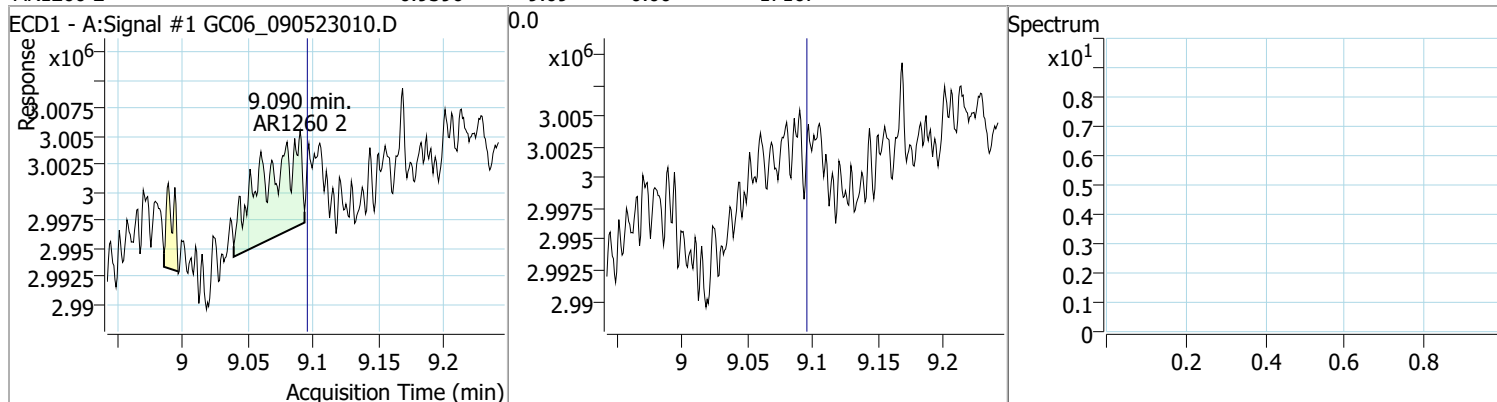


Quantitation Results Report (Not Reviewed)

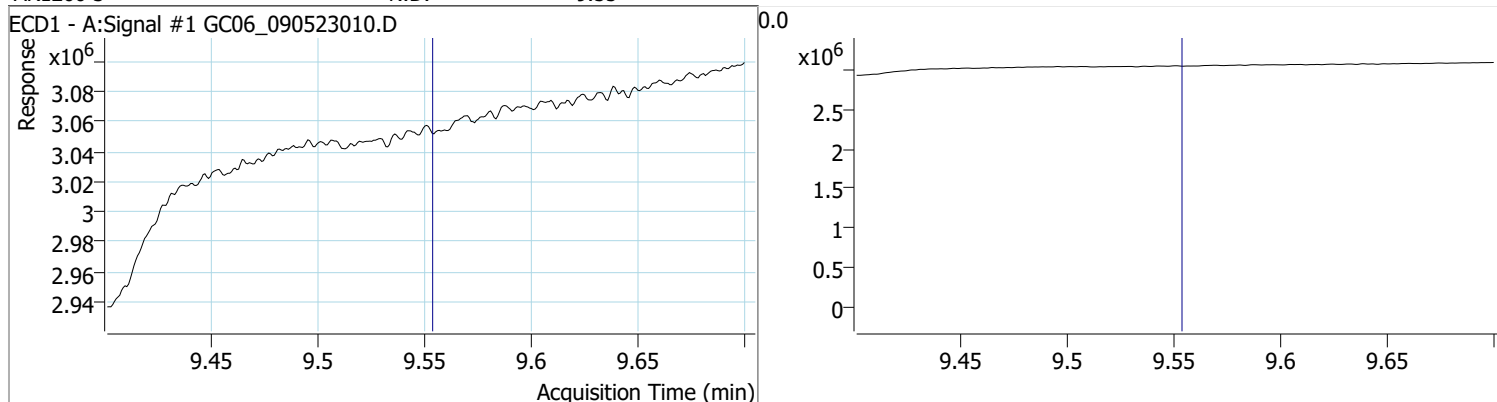
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------



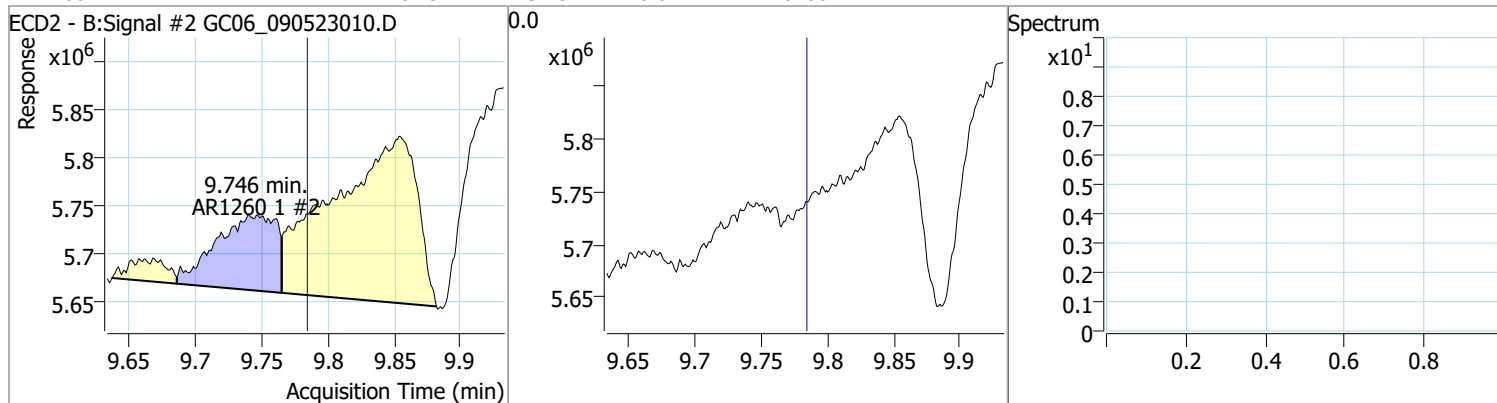
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------



Compound	Conc.	Exp RT	QIon	Exp Ratio
----------	-------	--------	------	-----------

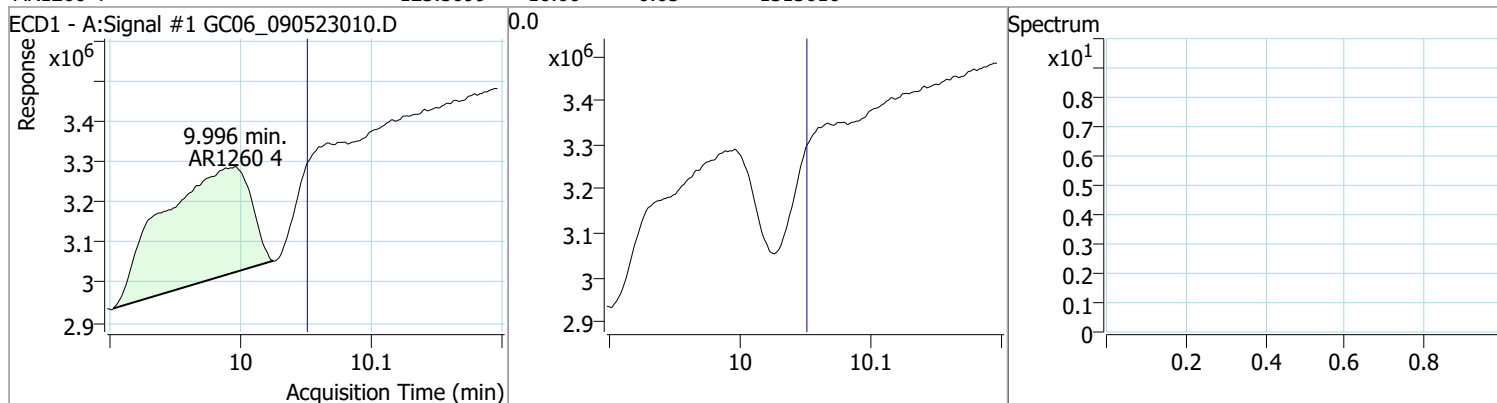


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

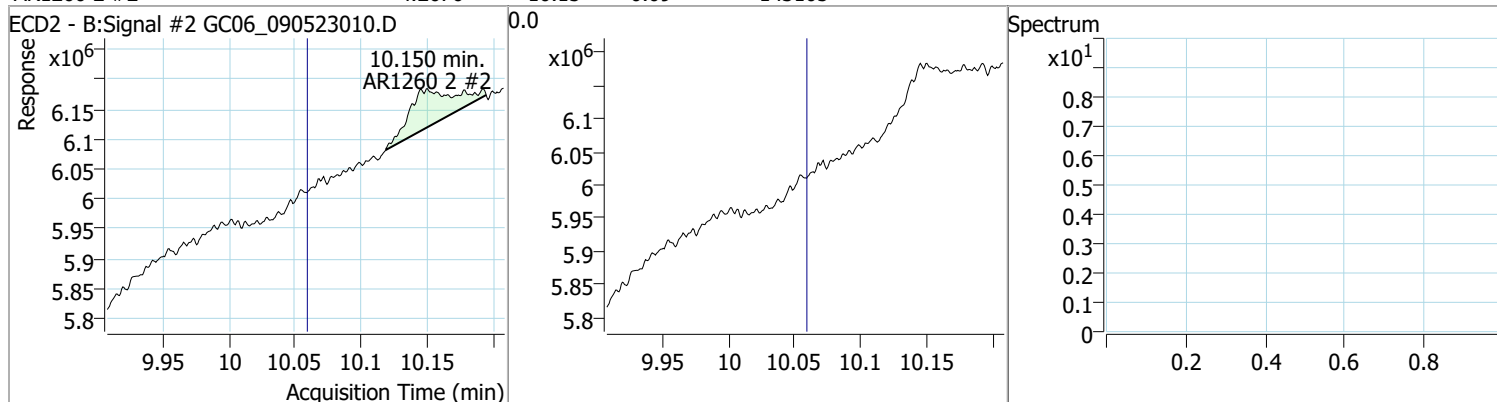


Quantitation Results Report (Not Reviewed)

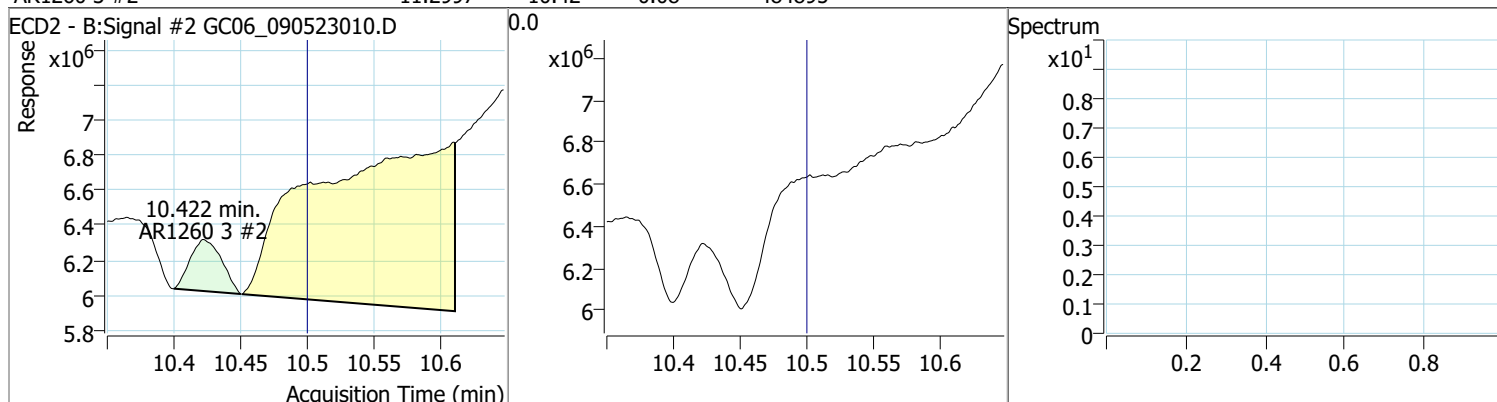
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	123.5099	10.00	-0.05	1313616				



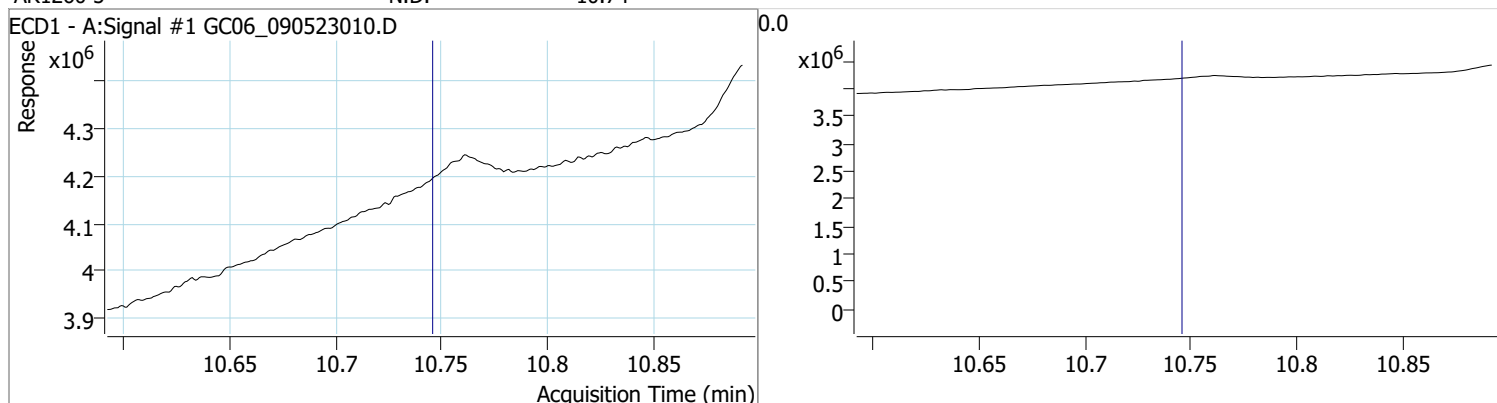
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	4.2676	10.15	0.09	143105				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	11.2997	10.42	-0.08	484895				

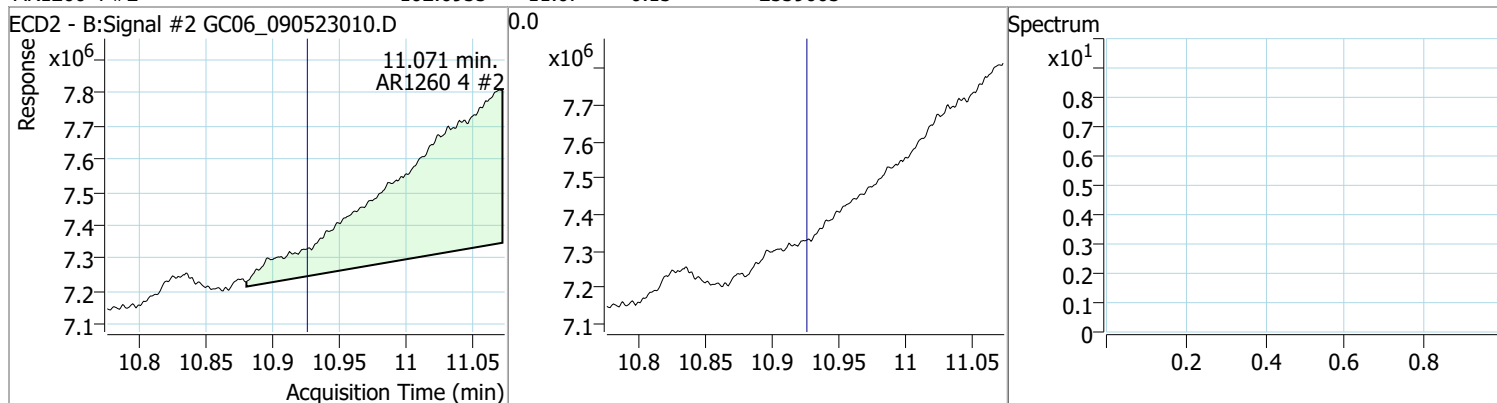


Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 5	N.D.	10.74		

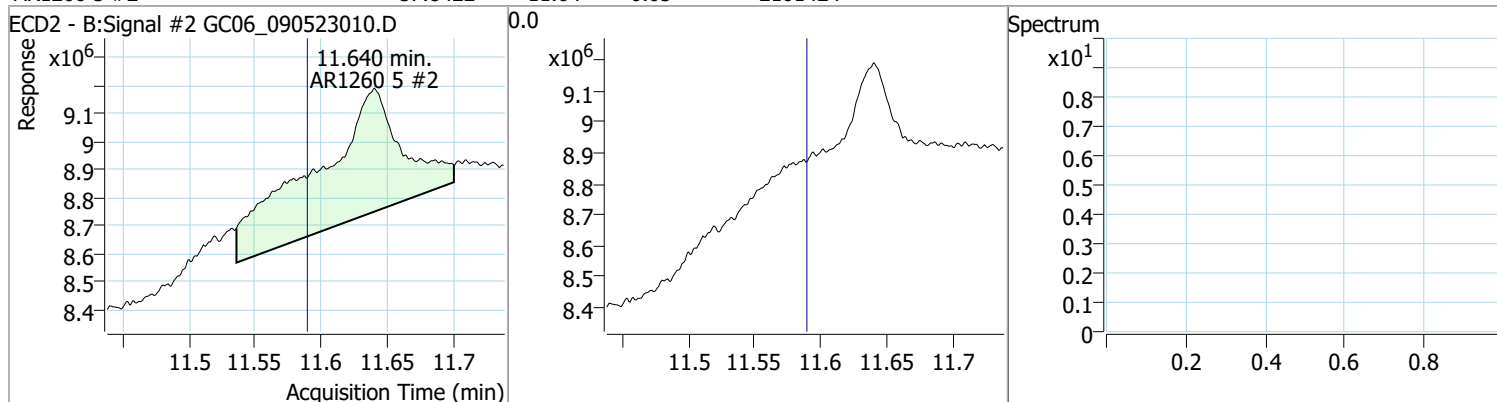


Quantitation Results Report (Not Reviewed)

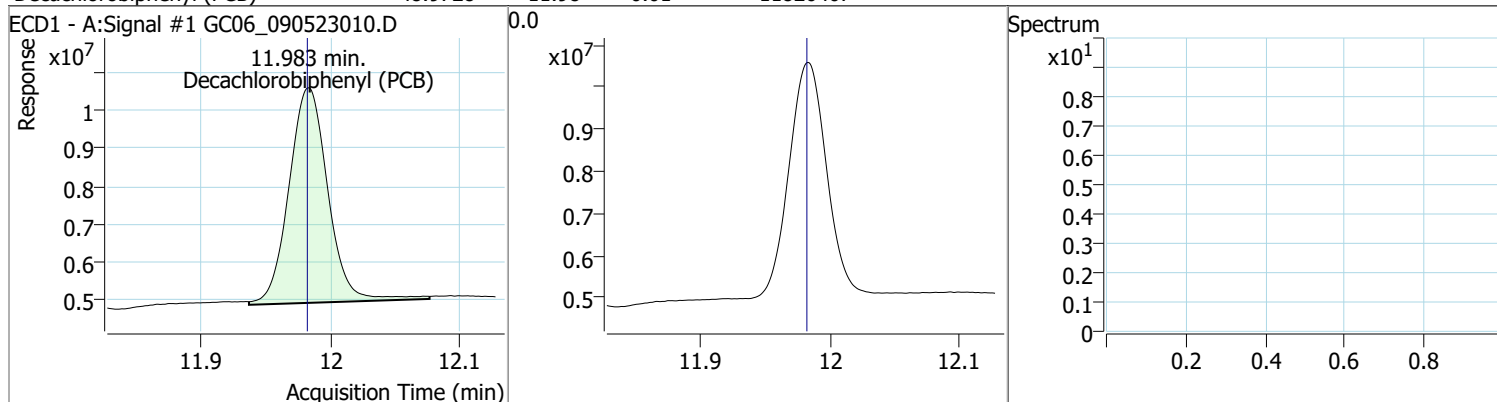
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	102.0955	11.07	0.15	2559005				



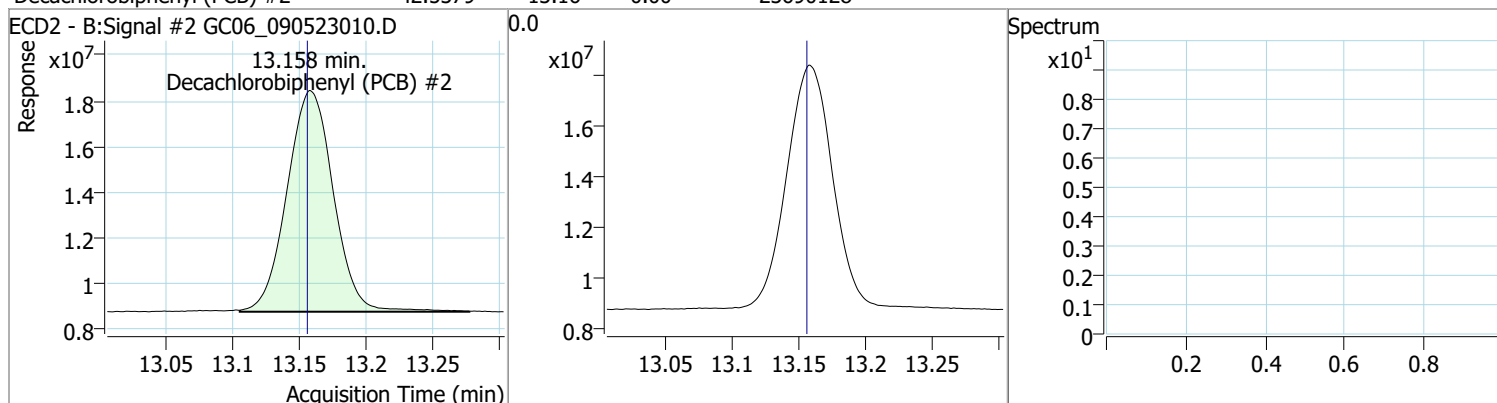
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	57.8422	11.64	0.05	2101424				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	48.9728	11.98	0.01	11826407				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	42.5379	13.16	0.00	23690128				



ENTHALPY SPIKE USER REPORT FOR 491224 PCBS Wipe
EPA 8082

Type: BS	Type: BSD
Inst: SVOA-GC06	Inst: SVOA-GC06
Seqnum: 453357659011.2	Seqnum: 453357659012.2
File: gc06_090523011	File: gc06_090523012
IDF: 1.0	IDF: 1.0
Lab ID: QC1091265	Lab ID: QC1091266
Matrix: Wipe	Matrix: Wipe
Batch: 321684	Batch: 321684
Time: 05-SEP-2023 11:32	Time: 05-SEP-2023 11:52
Cal: 453205686001	Cal: 453205686001
Units: ug/dm2	

- BS: 1.00 dm2 ⇒ 10.0 ml = 10.0 ml/dm2 PDF
- BSD: 1.00 dm2 ⇒ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Aroclor-1016	5.000	457.3	4.573	B	91	494.7	4.947	B	99	60-140	8	20	u
Aroclor-1016 Peak # 1		461.1	4.611	B		492.2	4.922	B					
Aroclor-1016 Peak # 2		439.6	4.396	B		478.4	4.784	B					
Aroclor-1016 Peak # 3		466.3	4.663	B		510.2	5.102	B					
Aroclor-1016 Peak # 4		456.2	4.562	B		492.3	4.923	B					
Aroclor-1016 Peak # 5		463.1	4.631	B		500.3	5.003	B					
Aroclor-1260	5.000	512.9	5.129	B	103	541.1	5.411	B	108	60-140	5	20	u
Aroclor-1260 Peak # 1		518.8	5.188	B		551.2	5.512	B					
Aroclor-1260 Peak # 2		549.3	5.493	B		585.8	5.858	B					
Aroclor-1260 Peak # 3		551.8	5.518	B		589.1	5.891	B					
Aroclor-1260 Peak # 4		457.4	4.574	B		491.8	4.918	B					
Aroclor-1260 Peak # 5		487.3	4.873	B		487.7	4.877	B					
Surrogates													
TCMX (PCB)	0.5000	39.49	0.3949	B	79	42.82	0.4282	B	86	19-121			u
Decachlorobiphenyl (PCB)	0.5000	47.32	0.4732	B	95	50.34	0.5034	B	101	19-121			c+ u

ISTD (CCV gc06_090523004)	Ch	CCV Abund	BS Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	9841681	-22.18
1-bromo-2-nitrobenzene (PCB)	A	4899467	3530043	-27.95

ISTD (CCV gc06_090523004)	Ch	CCV RT	BS RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.38	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

ISTD (CCV gc06_090523004)	Ch	CCV Abund	BSD Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	12645971	8917206	-29.49
1-bromo-2-nitrobenzene (PCB)	A	4899467	3397158	-30.66

ISTD (CCV gc06_090523004)	Ch	CCV RT	BSD RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.38	4.38	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

09/05/23 : WIPE/1dm2-10ML [general version]

TRN 09/05/23 [Aroclor-1016 Peak # 3 A]: Separated from coeluting peak for Ch. A for spike & dup. [general version]

TRN 09/05/23 [Aroclor-1016 Peak # 5 A]: Corrected baseline noise or negative peak for Ch. A for spike & dup. [general version]

TRN 09/05/23 [Aroclor-1260 Peak # 2 A]: Corrected baseline noise or negative peak for Ch. A for spike & dup. [general version]

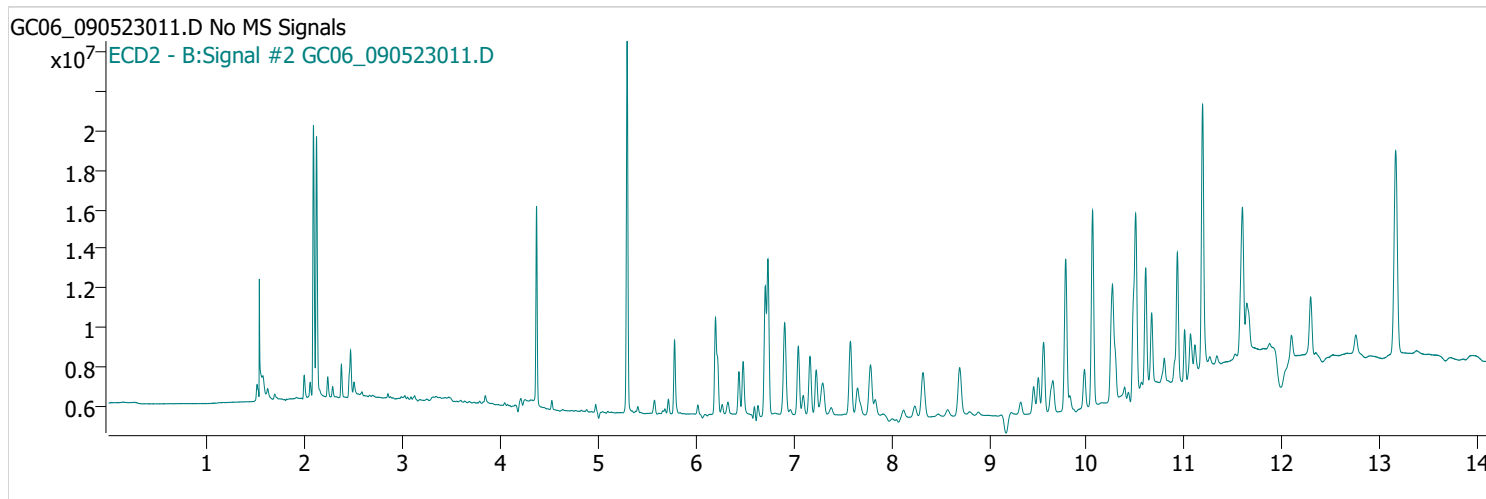
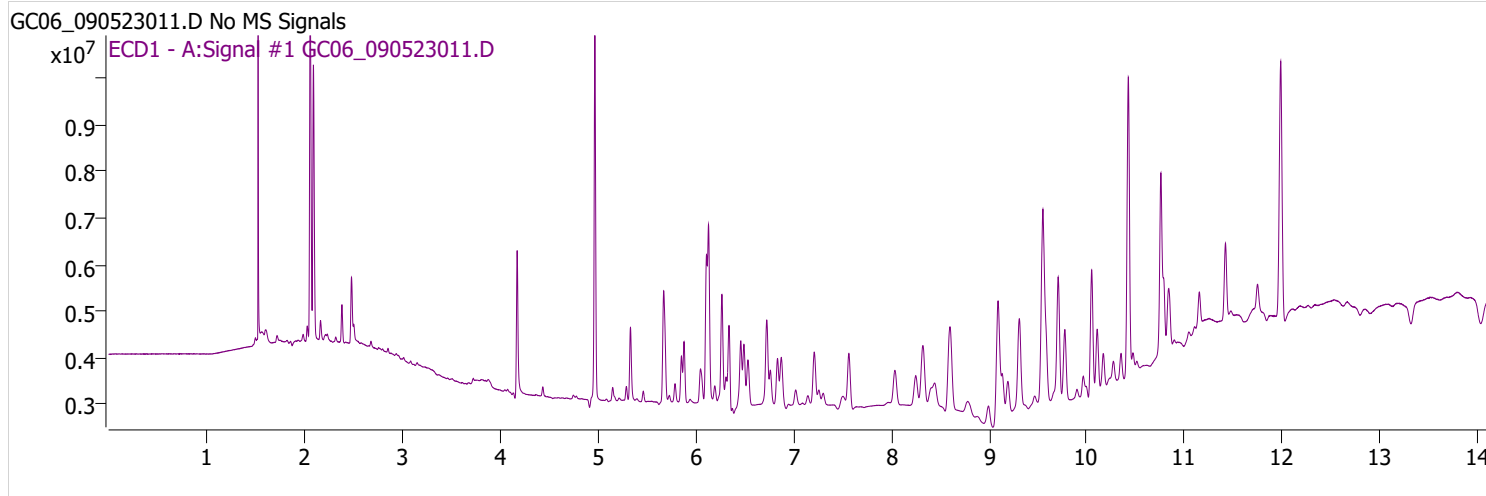
+=high bias c=CCV u=use

Analyst: TRN 09/05/23

Reviewer: MTS 09/06/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_090523011.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 11:32:30 AM
Sample Name	QC1091265, 321684, 1	Instrument	SVOA-GC06
Vial	2	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	3530043.04 5	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.375	0.0	9841680.83 1	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.971	0.0	9001910.02 2	47.8554	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 239.28%	*	
S TCMX (PCB) #2	5.301	0.0	20614069.2 41	39.4864	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 197.43%	*	
S Decachlorobiphenyl (PCB)	11.982	0.0	10939059.0 00	46.4392	ng/ml	0.005
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 232.20%	*	
S Decachlorobiphenyl (PCB) #2	13.156	0.0	24596237.6 12	47.3252	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 236.63%	*	

Target Compounds

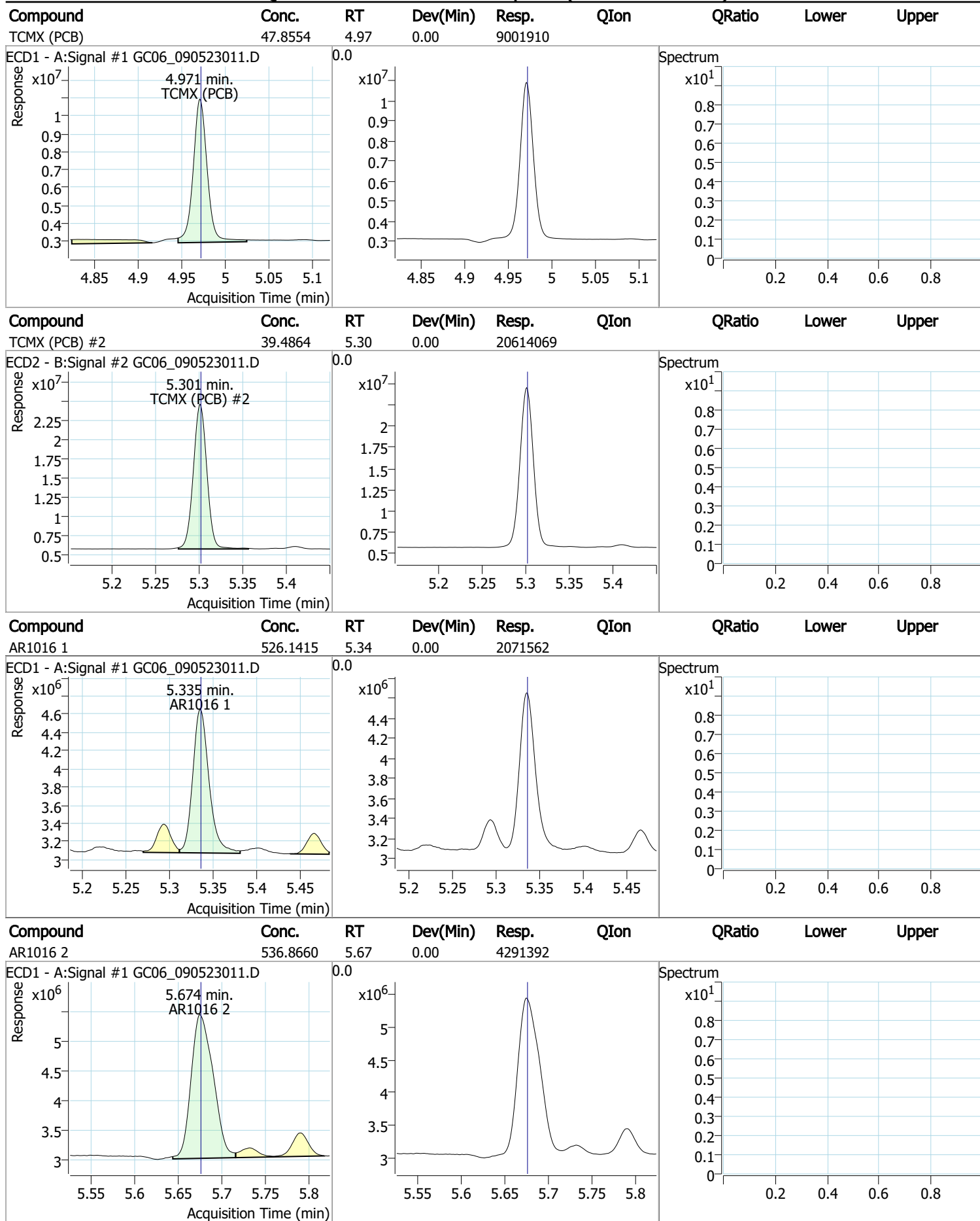
QValue

Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.335	0.0	2071562.25 4	526.1415	ng/ml	100
T AR1016 2	5.674	0.0	4291392.07 7	536.8660	ng/ml	100
T AR1016 1 #2	5.786	0.0	4726621.60 3	461.0883	ng/ml	100
T AR1016 3	6.133	0.0	5544096.59 7	542.6453	ng/ml m	100
T AR1016 2 #2	6.204	0.0	10123358.3 68	439.6238	ng/ml	100
T AR1016 4	6.270	0.0	3747792.19 8	608.6019	ng/ml	100
T AR1016 5	6.463	0.0	2530258.62 5	537.2454	ng/ml m	100
T AR1016 3 #2	6.740	0.0	12920517.2 95	466.3000	ng/ml	100
T AR1016 4 #2	6.912	0.0	9097510.19 8	456.1740	ng/ml	100
T AR1016 5 #2	7.170	0.0	4926802.45 0	463.1351	ng/ml	100
T AR1260 1	8.601	0.0	5049454.10 3	432.5563	ng/ml	100
T AR1260 2	9.093	0.0	6693423.92 2	375.5961	ng/ml m	100
T AR1260 3	9.551	0.0	11673306.3 11	613.0276	ng/ml	100
T AR1260 1 #2	9.783	0.0	14398358.1 40	518.7584	ng/ml	100
T AR1260 4	10.049	0.0	4729487.18 7	455.8798	ng/ml	100
T AR1260 2 #2	10.058	0.0	17190495.2 32	549.3259	ng/ml	100
T AR1260 3 #2	10.498	0.0	22098915.5 82	551.8300	ng/ml	100
T AR1260 5	10.757	0.0	8769395.29 2	534.5941	ng/ml	100
T AR1260 4 #2	10.925	0.0	10698698.5 84	457.3847	ng/ml	100
T AR1260 5 #2	11.590	0.0	16521131.0 68	487.2891	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

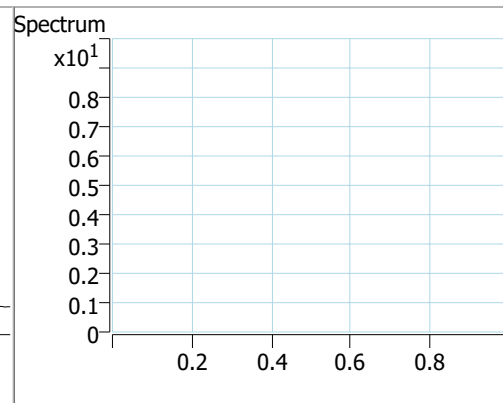
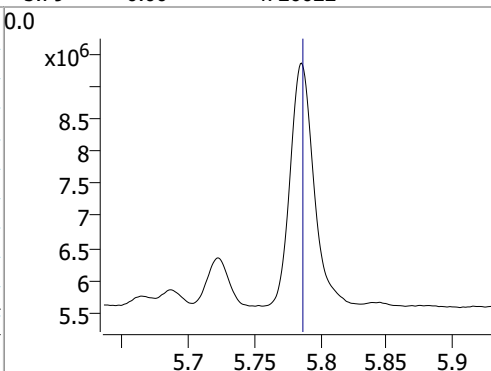
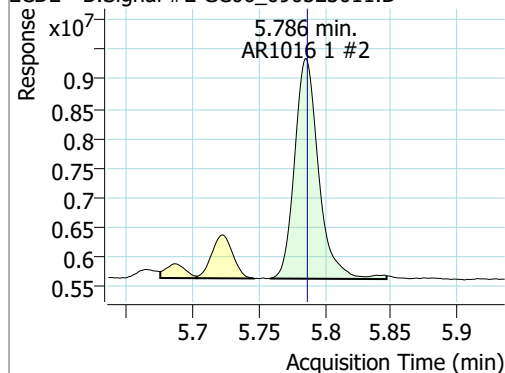


Quantitation Results Report (Not Reviewed)

Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 1 #2 461.0883 5.79 0.00 4726622

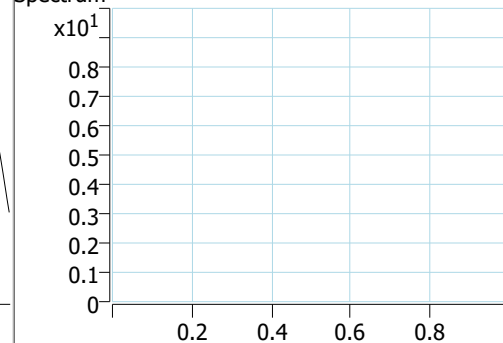
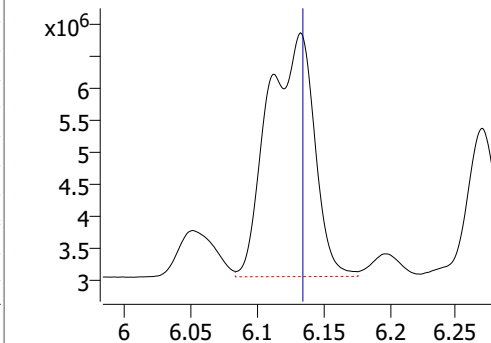
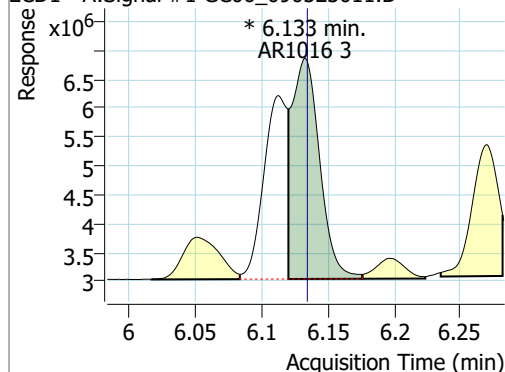
ECD2 - B:Signal #2 GC06_090523011.D



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 3 542.6453 6.13 0.00 5544097 (m)

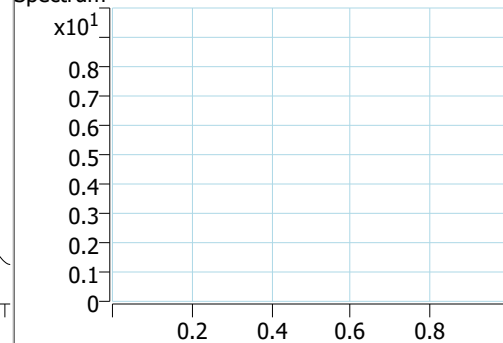
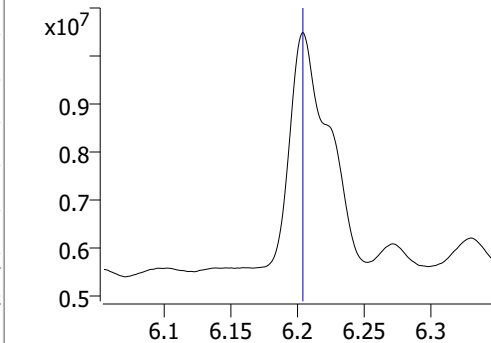
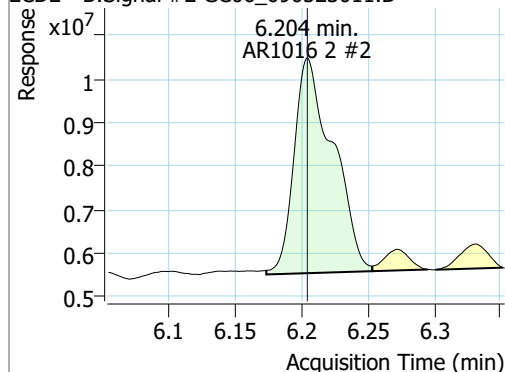
ECD1 - A:Signal #1 GC06_090523011.D



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 2 #2 439.6238 6.20 0.00 10123358

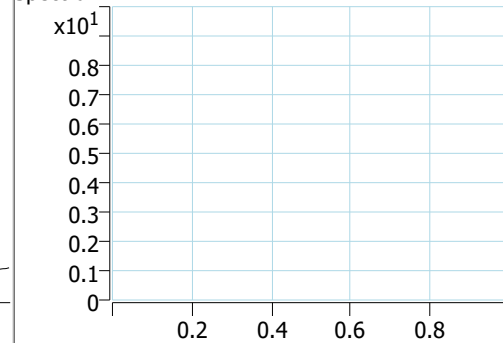
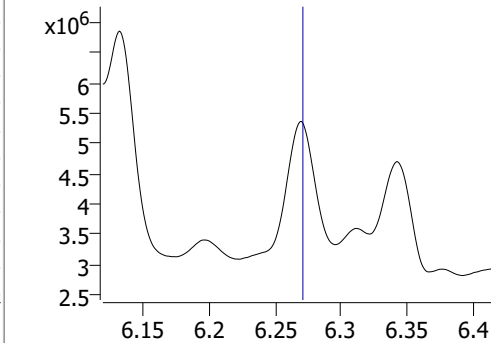
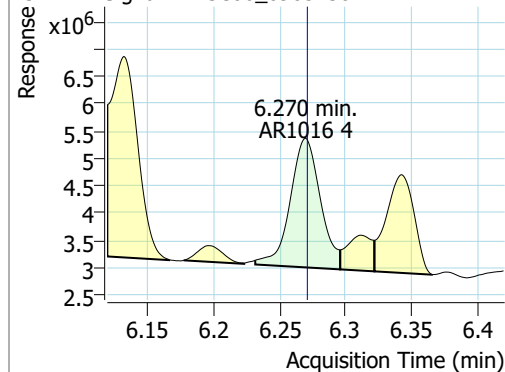
ECD2 - B:Signal #2 GC06_090523011.D



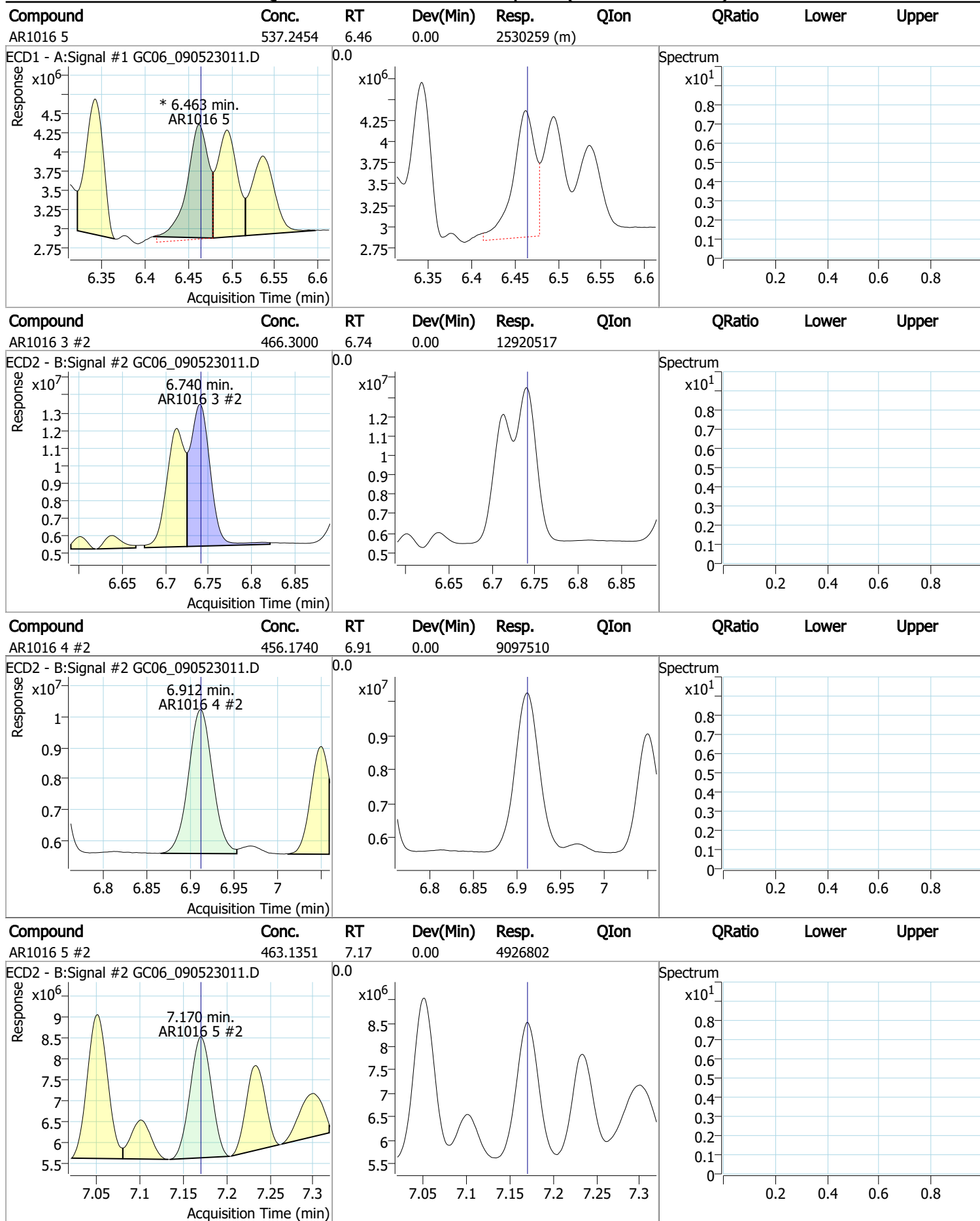
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 4 608.6019 6.27 0.00 3747792

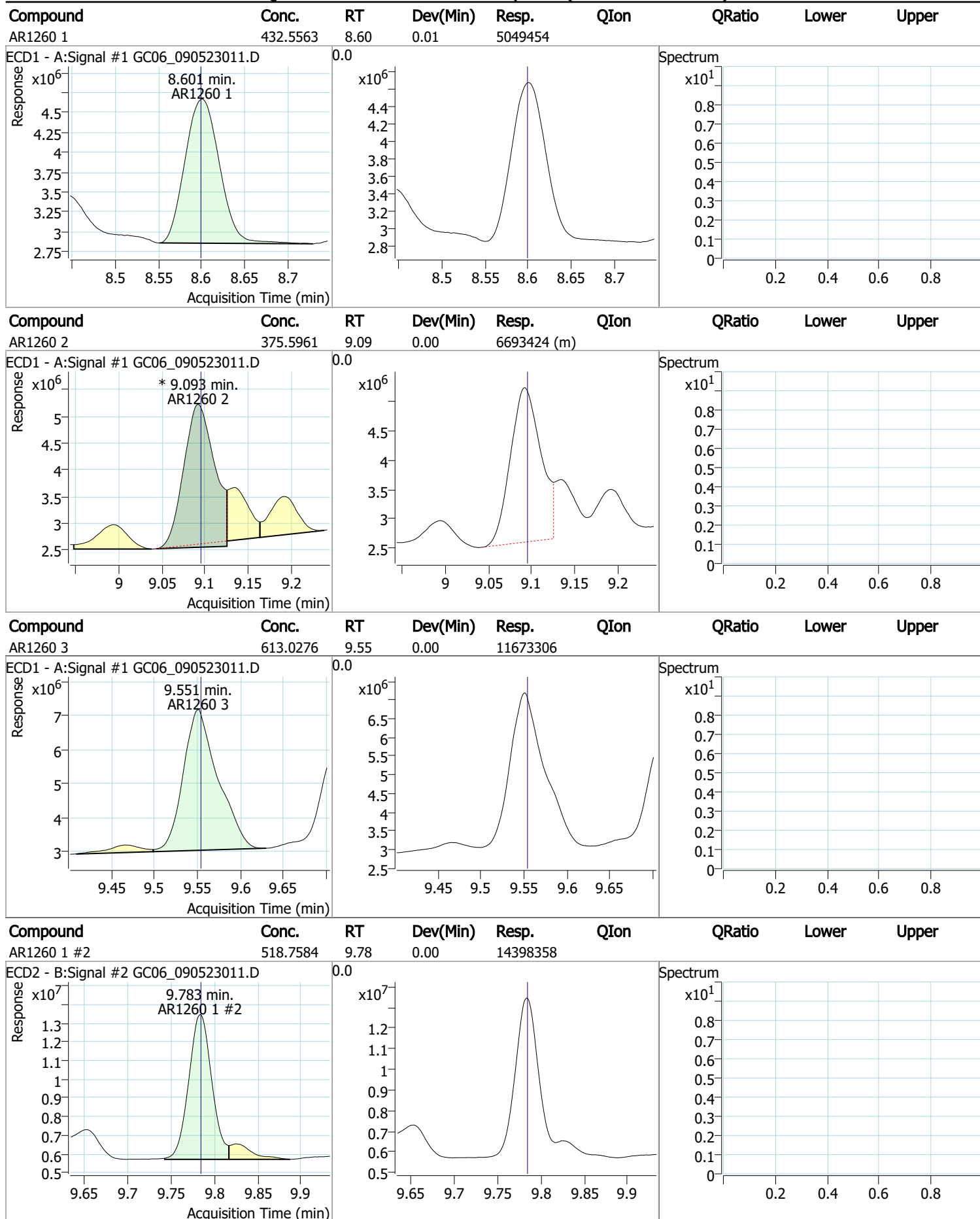
ECD1 - A:Signal #1 GC06_090523011.D



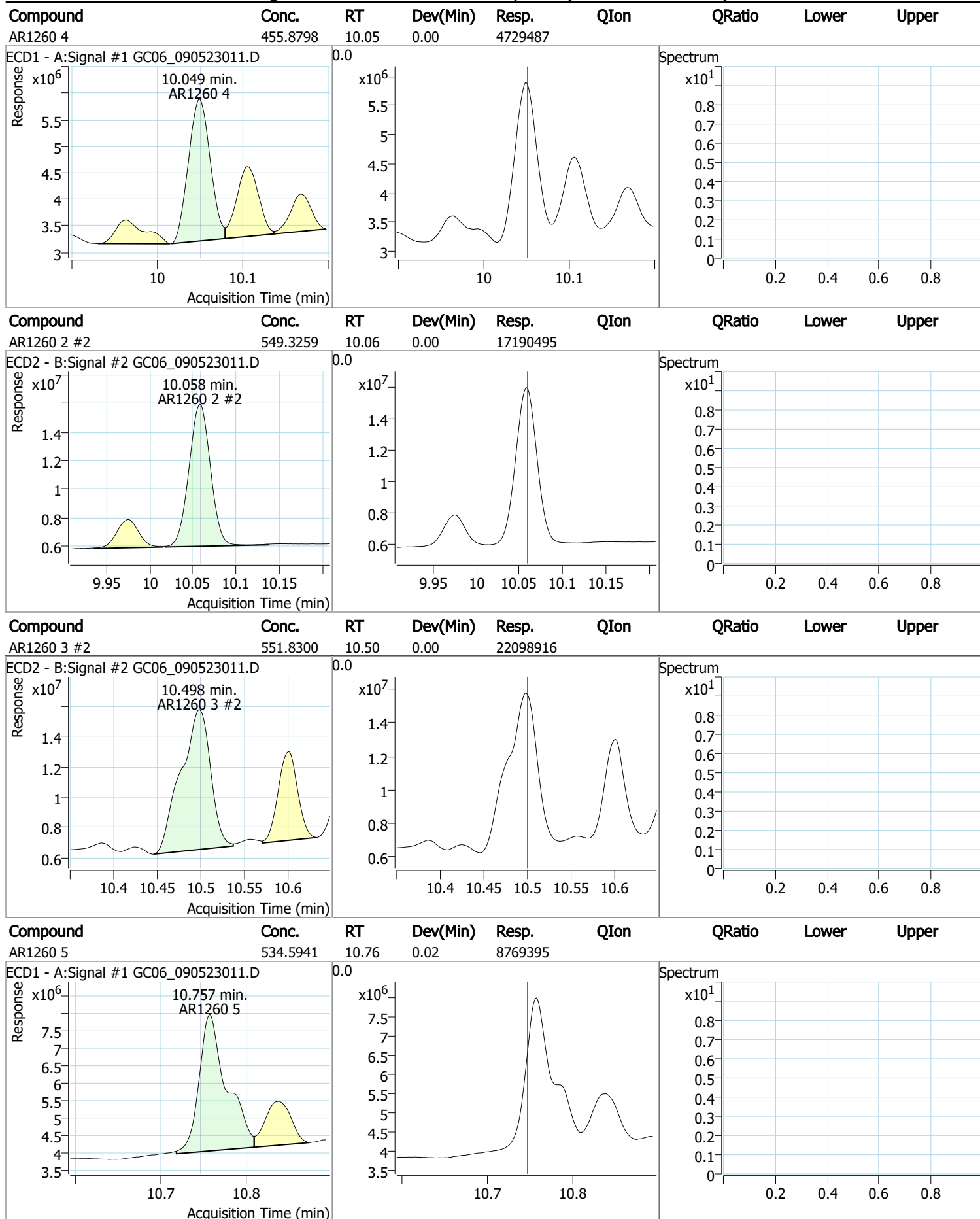
Quantitation Results Report (Not Reviewed)



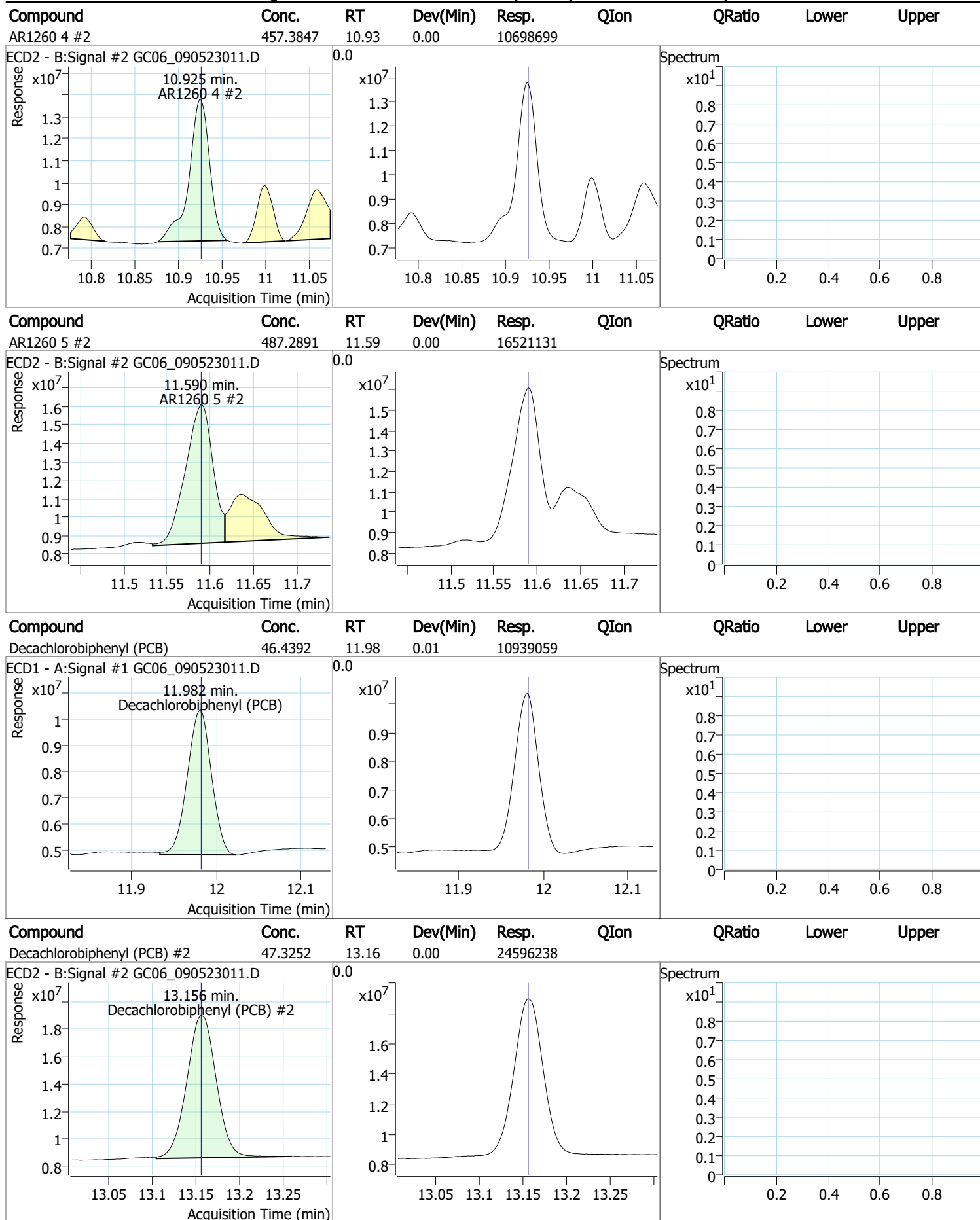
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

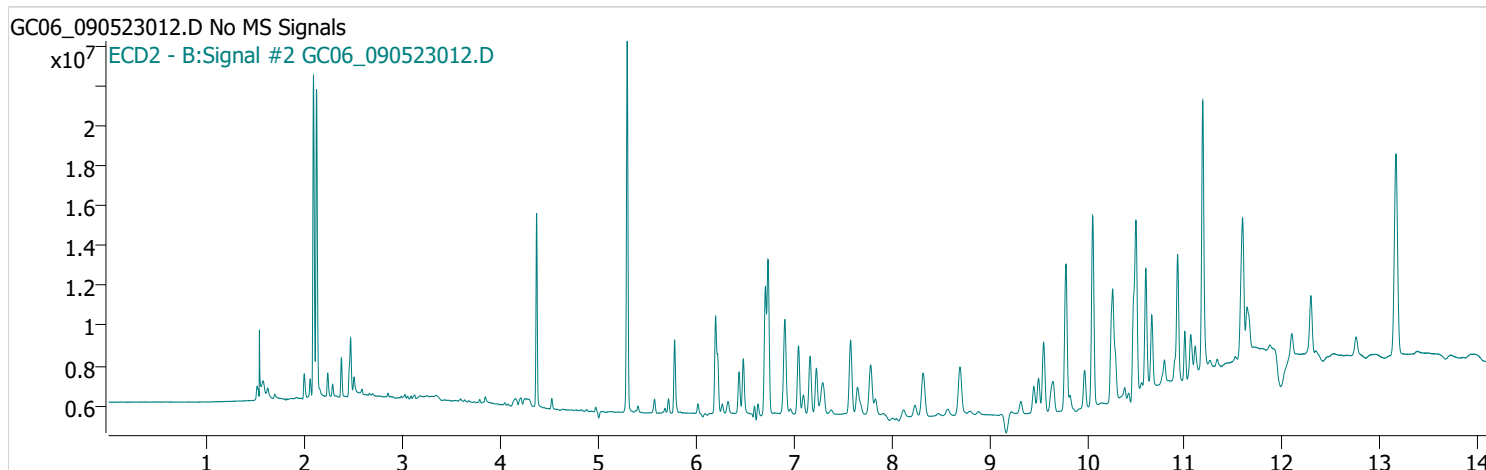
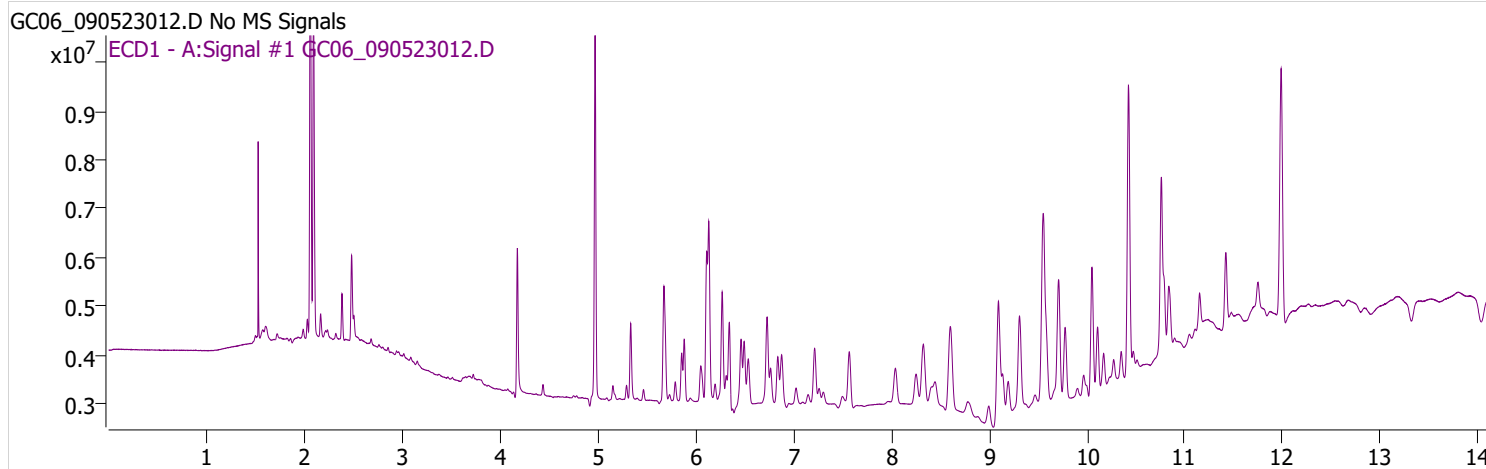


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_090523012.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 11:52:10 AM
Sample Name	QC1091266, 321684, 1	Instrument	SVOA-GC06
Vial	3	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	WIPE/1dm2-10ML
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	3397157.85 8	20.0000	ng/ml	0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.375	0.0	8917206.25 3	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.973	0.0	8819663.53 5	48.7206	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 243.60%	*	
S TCMX (PCB) #2	5.301	0.0	20254735.4 56	42.8204	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 214.10%	*	
S Decachlorobiphenyl (PCB)	11.984	0.0	10406103.7 53	45.9047	ng/ml	0.008
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 229.52%	*	
S Decachlorobiphenyl (PCB) #2	13.158	0.0	23704221.5 50	50.3373	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 251.69%	*	

Target Compounds

GC06_090523012.D

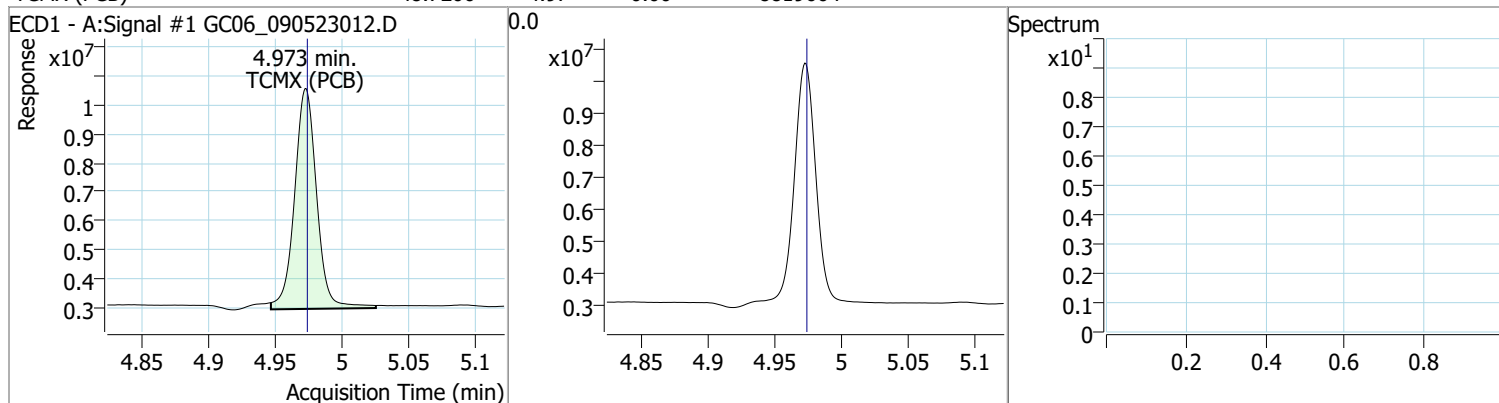
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.337	0.0	2016936.79 0	532.3058	ng/ml	100
T AR1016 2	5.677	0.0	4249702.17 1	552.4468	ng/ml	100
T AR1016 1 #2	5.786	0.0	4571560.63 4	492.1961	ng/ml	100
T AR1016 3	6.134	0.0	5355649.75 6	544.7055	ng/ml m	100
T AR1016 2 #2	6.205	0.0	9980891.31 7	478.3727	ng/ml	100
T AR1016 4	6.272	0.0	3736880.95 6	630.5672	ng/ml	100
T AR1016 5	6.464	0.0	2582755.63 4	569.8432	ng/ml m	100
T AR1016 3 #2	6.740	0.0	12809865.4 02	510.2354	ng/ml	100
T AR1016 4 #2	6.913	0.0	8895162.11 6	492.2688	ng/ml	100
T AR1016 5 #2	7.170	0.0	4822377.47 3	500.3158	ng/ml	100
T AR1260 1	8.603	0.0	4704102.84 9	418.7350	ng/ml	100
T AR1260 2	9.095	0.0	6222604.59 4	362.8350	ng/ml m	100
T AR1260 3	9.553	0.0	11178802.6 17	610.0223	ng/ml	100
T AR1260 1 #2	9.786	0.0	13862981.0 16	551.2508	ng/ml	100
T AR1260 4	10.051	0.0	4546144.40 5	455.3484	ng/ml	100
T AR1260 2 #2	10.058	0.0	16610124.3 46	585.8076	ng/ml	100
T AR1260 3 #2	10.500	0.0	21377177.3 02	589.1490	ng/ml	100
T AR1260 5	10.760	0.0	8351512.40 8	529.0344	ng/ml	100
T AR1260 4 #2	10.927	0.0	10422721.0 08	491.7816	ng/ml	100
T AR1260 5 #2	11.590	0.0	14982766.5 89	487.7299	ng/ml	100

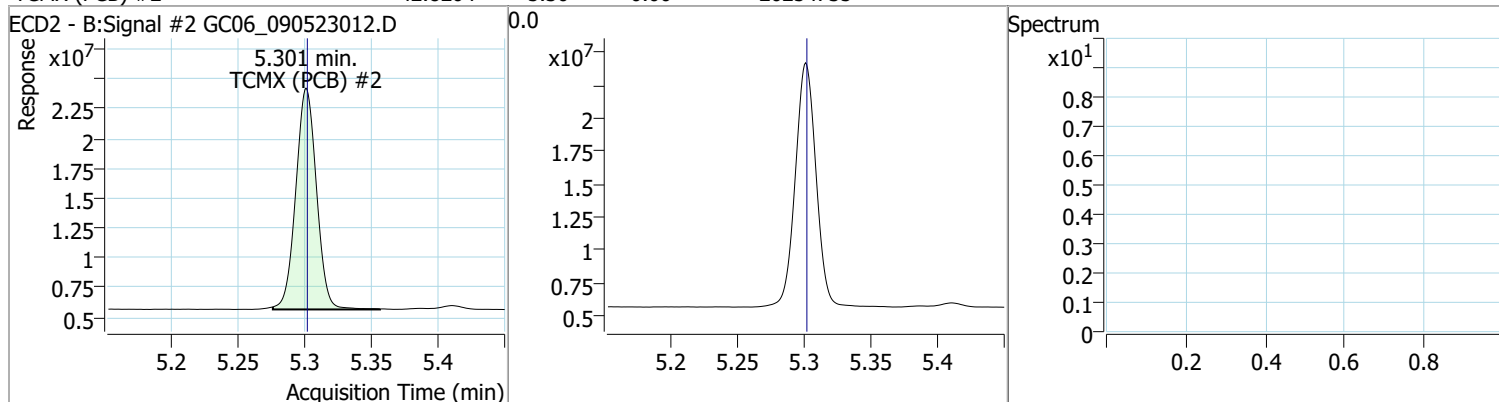
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

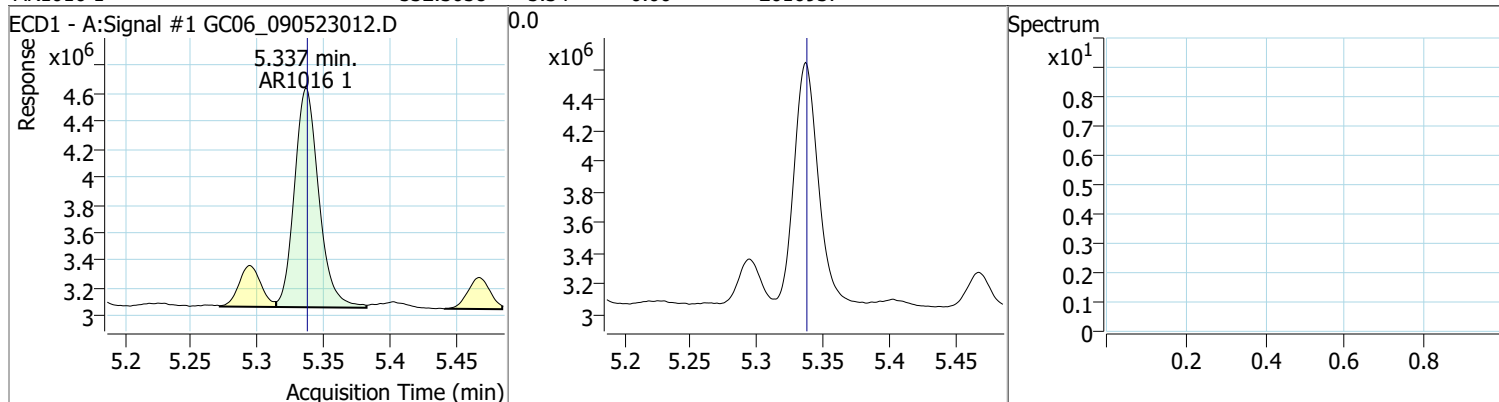
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	48.7206	4.97	0.00	8819664				



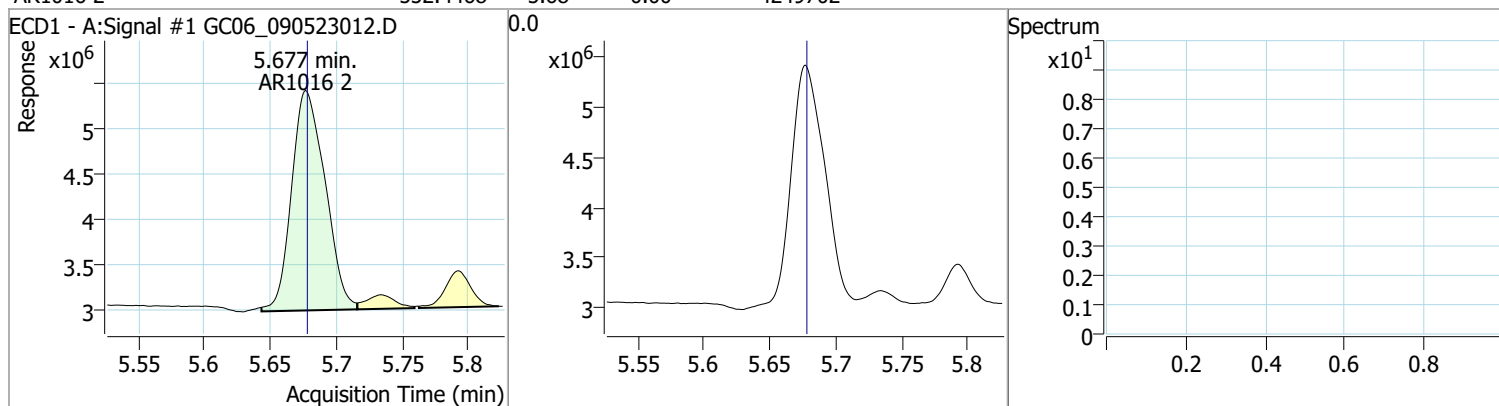
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	42.8204	5.30	0.00	20254735				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	532.3058	5.34	0.00	2016937				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	552.4468	5.68	0.00	4249702				

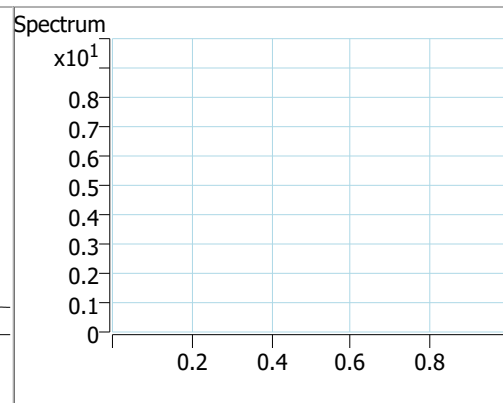
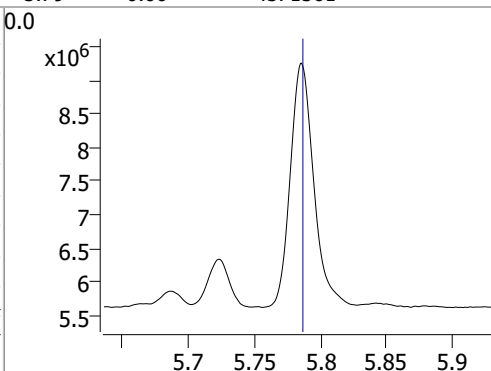
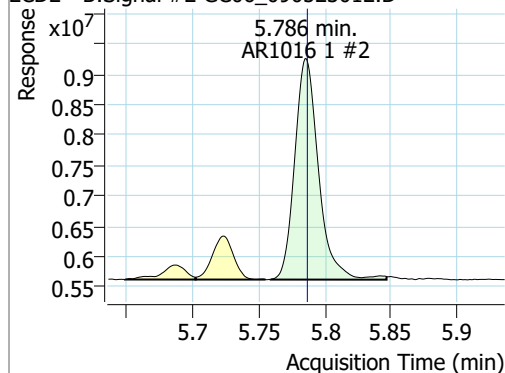


Quantitation Results Report (Not Reviewed)

Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 1 #2 492.1961 5.79 0.00 4571561

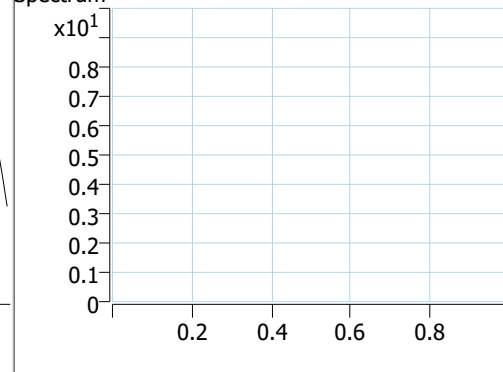
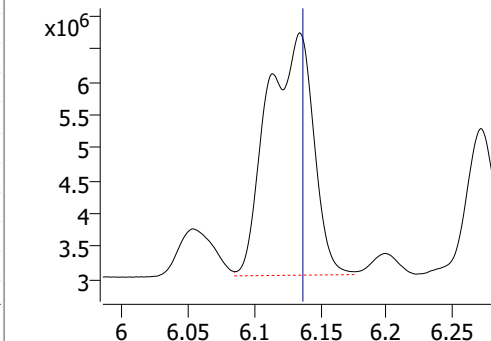
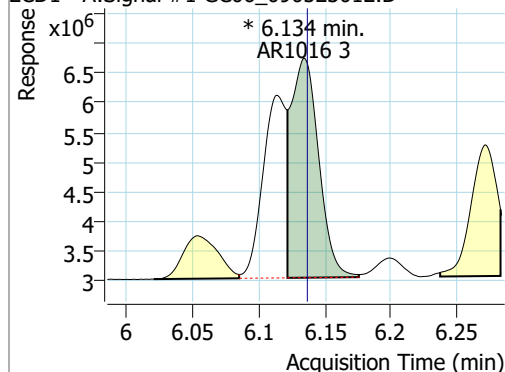
ECD2 - B:Signal #2 GC06_090523012.D



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 3 544.7055 6.13 0.00 5355650 (m)

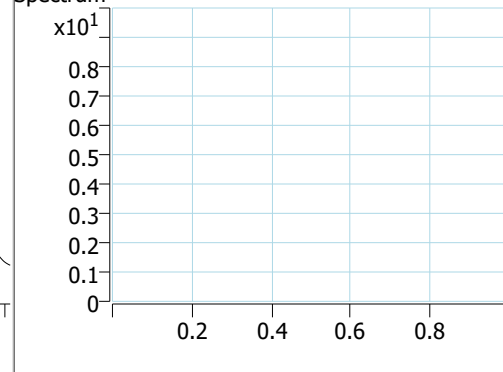
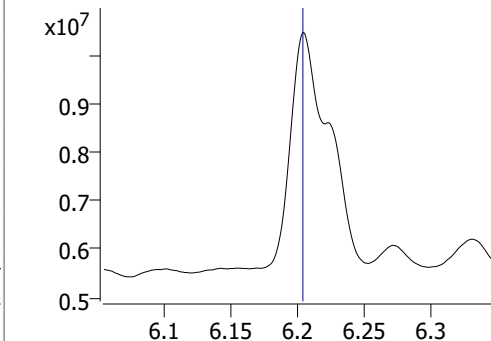
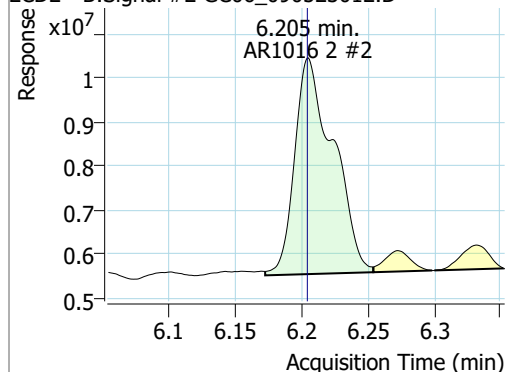
ECD1 - A:Signal #1 GC06_090523012.D



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 2 #2 478.3727 6.21 0.00 9980891

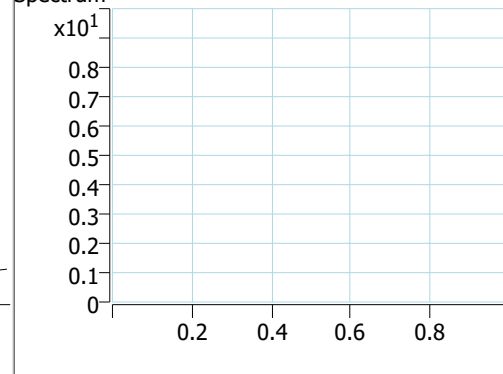
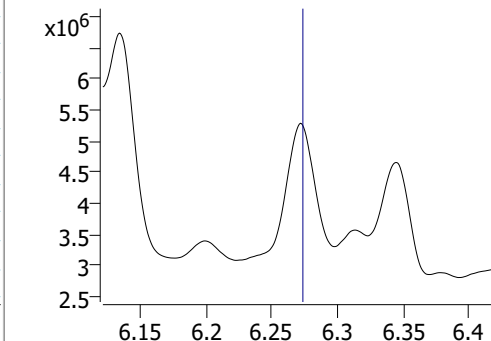
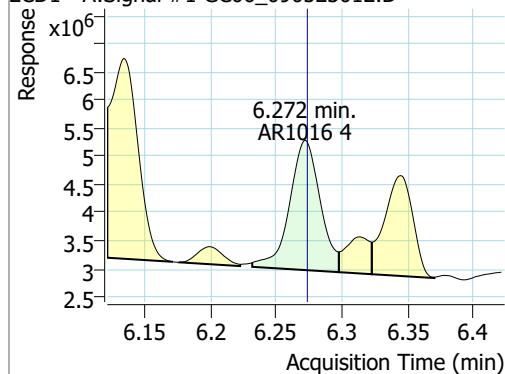
ECD2 - B:Signal #2 GC06_090523012.D



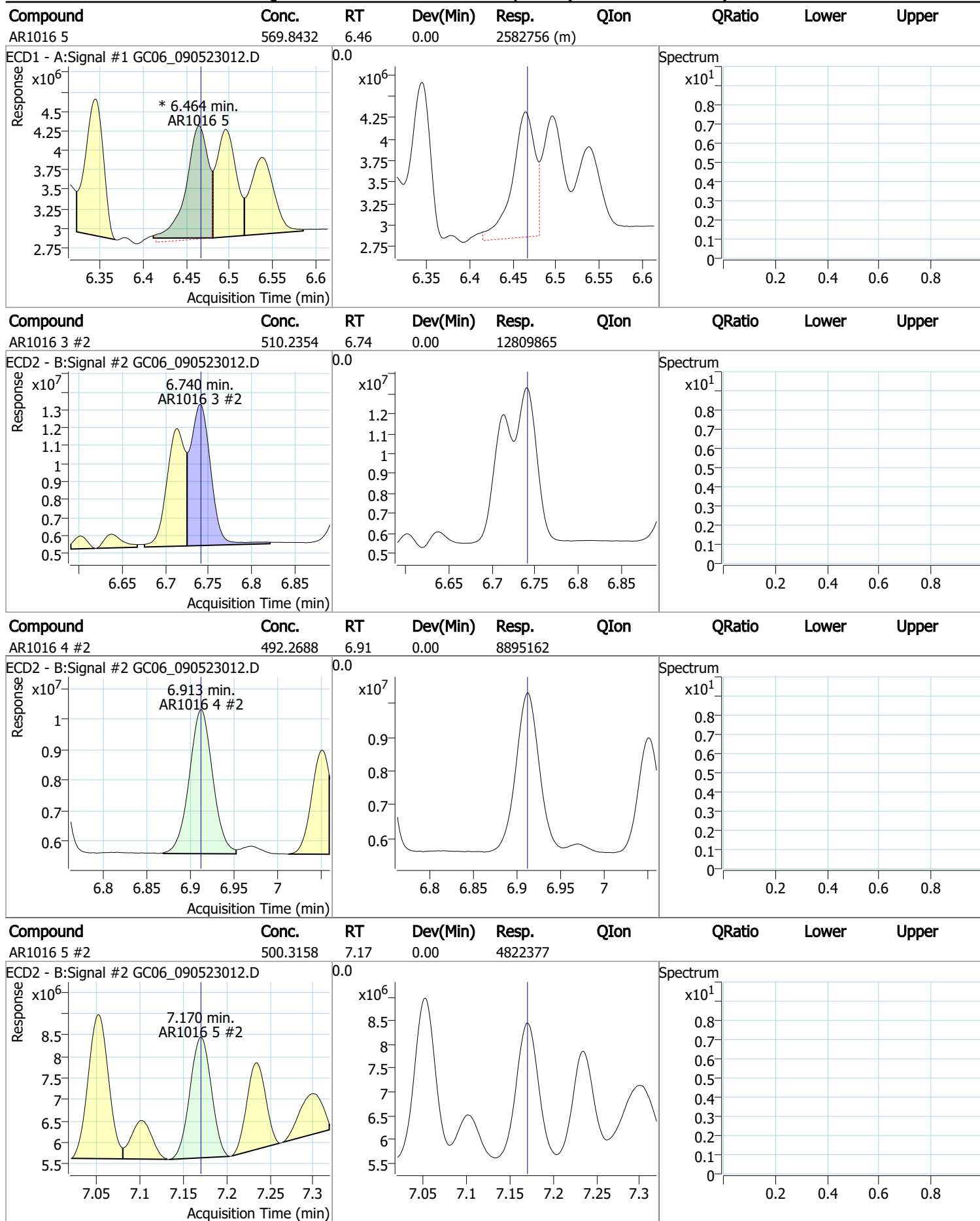
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 4 630.5672 6.27 0.00 3736881

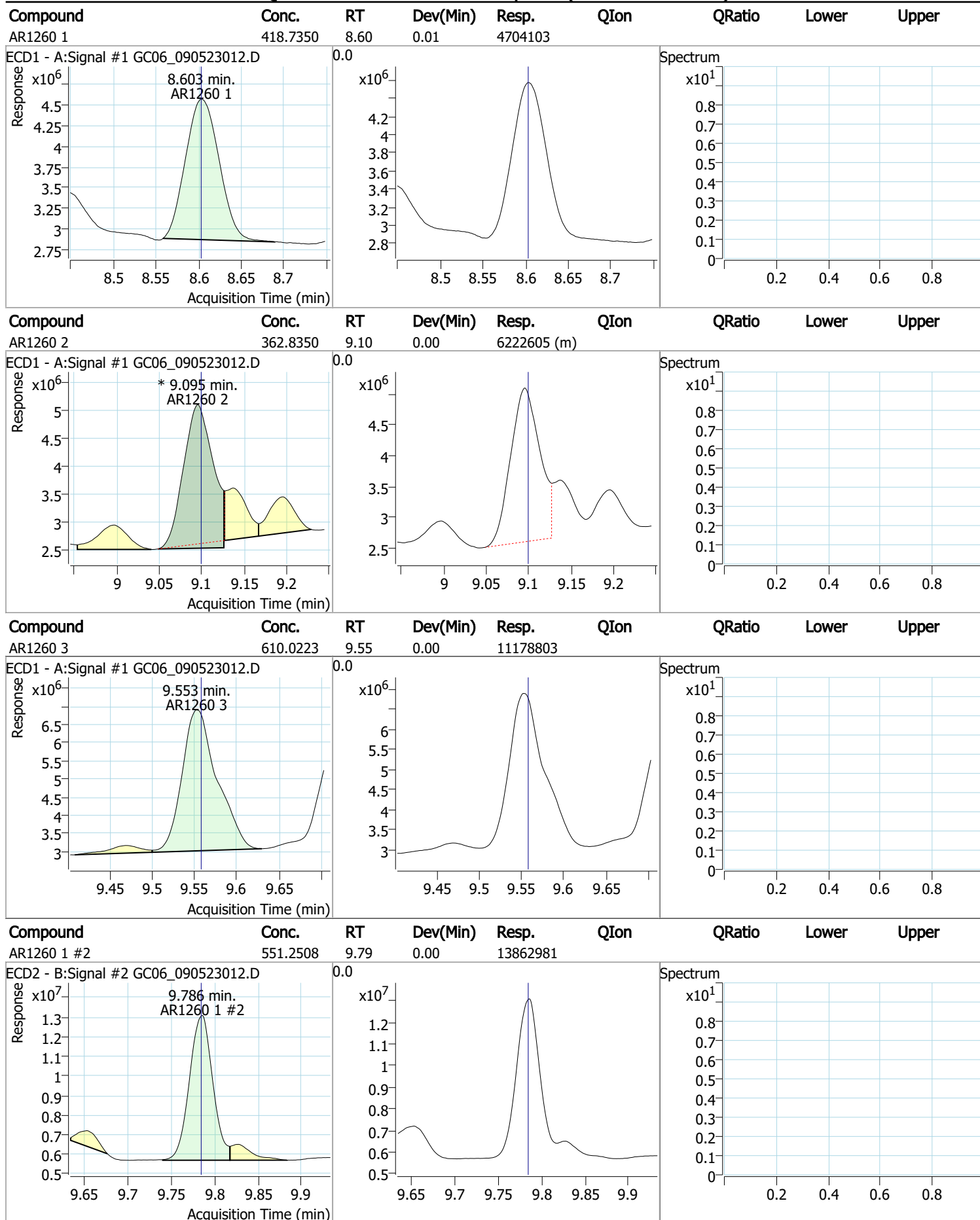
ECD1 - A:Signal #1 GC06_090523012.D



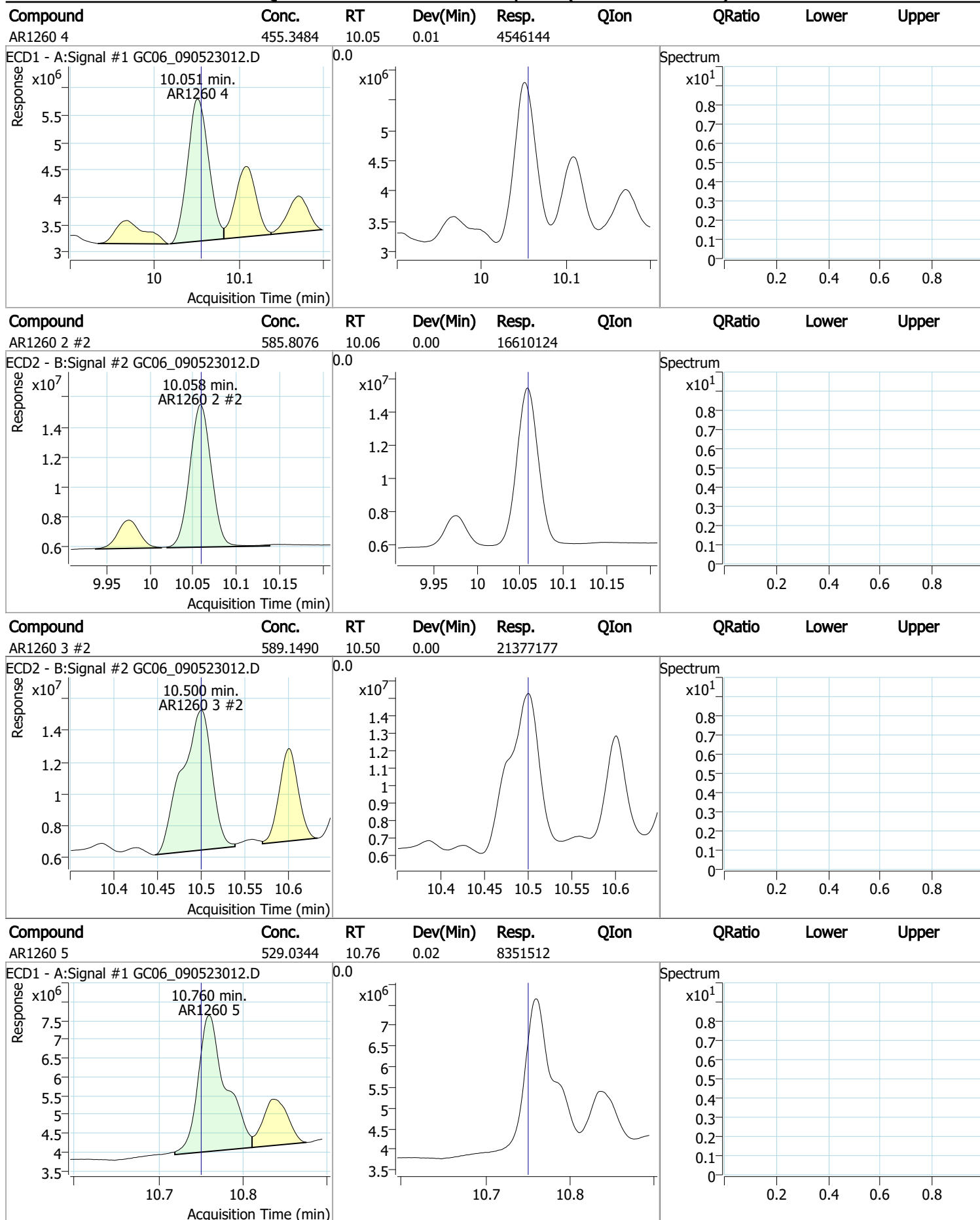
Quantitation Results Report (Not Reviewed)



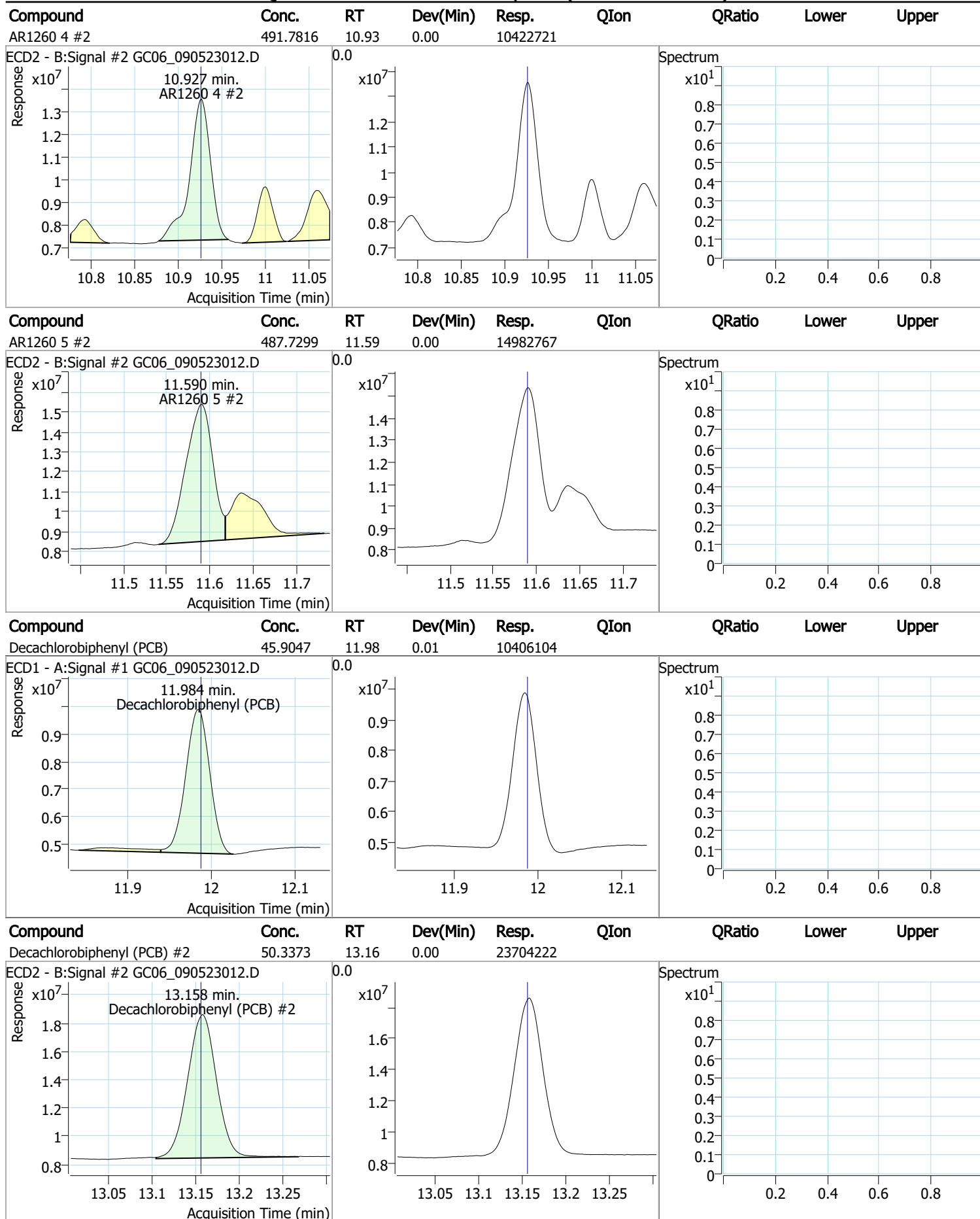
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Initial Calibration Raw Data

Instrument: SVOA-GC06
Calibration #: 453205686001
Units: ug/L

Name: PCB_052223_1
Date: 22-MAY-2023 20:06
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_052223020	453205686020		22-MAY-2023 20:06	S18179
L2	gc06_052223021	453205686021		22-MAY-2023 20:24	S18180
L3	gc06_052223022	453205686022		22-MAY-2023 20:43	S18181
L4	gc06_052223023	453205686023		22-MAY-2023 21:01	S18182
L5	gc06_052223024	453205686024		22-MAY-2023 21:19	S18183
L6	gc06_052223025	453205686025		22-MAY-2023 21:38	S18184
L7	gc06_052223026	453205686026		22-MAY-2023 21:56	S18185
L8	gc06_052223027	453205686027		22-MAY-2023 22:14	S18186
L9	gc06_052223028	453205686028		22-MAY-2023 22:33	S18187
L10	gc06_052223029	453205686029		22-MAY-2023 22:51	S18188

Instrument: SVOA-GC06
 Calibration #: 453205686001
 Units: ug/L

Name: PCB_052223_1
 Date: 22-MAY-2023 20:06
 X Axis: R

Analyte	Ch	Type	a0	a1	a2	Avg RF	%RSD	n	Min r ²	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG	44.8280			0.0223	13	9	.99	20	
Aroclor-1016 Peak # 2	A	AVRG	22.0807			0.0453	14	9	.99	20	
Aroclor-1016 Peak # 3	A	AVRG	17.2755			0.0579	15	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG	28.6617			0.0349	13	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG	37.4758			0.0267	15	8	.99	20	
Aroclor-1260 Peak # 1	A	AVRG	15.1197			0.0661	14	9	.99	20	
Aroclor-1260 Peak # 2	A	AVRG	9.90415			0.1010	14	9	.99	20	
Aroclor-1260 Peak # 3	A	AVRG	9.26897			0.1079	20	10	.99	20	
Aroclor-1260 Peak # 4	A	AVRG	17.0130			0.0588	14	10	.99	20	
Aroclor-1260 Peak # 5	A	AVRG	10.7597			0.0929	13	10	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG	0.74929			1.3346	16	9	.99	20	
TCMX (PCB)	A	AVRG	0.93830			1.0658	13	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG	48.0029			0.0208	16	10	.99	20	
Aroclor-1016 Peak # 2	B	AVRG	21.3693			0.0468	20	10	.99	20	
Aroclor-1016 Peak # 3	B	AVRG	17.7590			0.0563	14	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG	24.6742			0.0405	16	10	.99	20	
Aroclor-1016 Peak # 5	B	AVRG	46.2568			0.0216	9	8	.99	20	
Aroclor-1260 Peak # 1	B	AVRG	17.7291			0.0564	17	10	.99	20	
Aroclor-1260 Peak # 2	B	AVRG	15.7244			0.0636	15	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG	12.2876			0.0814	17	9	.99	20	
Aroclor-1260 Peak # 4	B	AVRG	21.0371			0.0475	17	10	.99	20	
Aroclor-1260 Peak # 5	B	AVRG	14.5138			0.0689	12	9	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG	0.94680			1.0562	17	9	.99	20	
TCMX (PCB)	B	AVRG	0.94258			1.0609	15	10	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)

AVRG: Average response factor

Instrument: SVOA-GC06
 Calibration #: 453205686001
 Units: ug/L

Name: PCB_052223_1
 Date: 22-MAY-2023 20:06
 X Axis: R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF	L10 RF
Aroclor-1016 Peak # 1	A		0.0276	0.0245	0.0234	0.0239	0.0218	0.0206	0.0212	0.0184	0.0193
Aroclor-1016 Peak # 2	A		0.0566	0.0518	0.0480	0.0481	0.0439	0.0411	0.0427	0.0366	0.0387
Aroclor-1016 Peak # 3	A		0.0762	0.0633	0.0599	0.0612	0.0560	0.0519	0.0548	0.0476	0.0502
Aroclor-1016 Peak # 4	A		0.0443	0.0367	0.0358	0.0370	0.0341	0.0322	0.0341	0.0290	0.0309
Aroclor-1016 Peak # 5	A			0.0344	0.0292	0.0286	0.0264	0.0247	0.0261	0.0216	0.0226
Aroclor-1260 Peak # 1	A		0.0851	0.0711	0.0682	0.0709	0.0625	0.0605	0.0668	0.0525	0.0577
Aroclor-1260 Peak # 2	A		0.1294	0.1093	0.1026	0.1091	0.0961	0.0930	0.1010	0.0808	0.0875
Aroclor-1260 Peak # 3	A	0.1581	0.1289	0.1077	0.1032	0.1094	0.0971	0.0948	0.1043	0.0834	0.0921
Aroclor-1260 Peak # 4	A	0.0772	0.0641	0.0593	0.0559	0.0620	0.0553	0.0543	0.0597	0.0476	0.0524
Aroclor-1260 Peak # 5	A	0.1231	0.0945	0.0875	0.0849	0.1002	0.0893	0.0878	0.0975	0.0775	0.0870
Decachlorobiphenyl (PCB)	A		1.7632	1.3406	1.2120	1.5128	1.4154	1.3028	1.3203	1.0100	1.1344
TCMX (PCB)	A		1.3115	1.0954	1.0188	1.2898	0.9794	0.9774	1.0276	0.9022	0.9898
Aroclor-1016 Peak # 1	B	0.0287	0.0231	0.0220	0.0204	0.0214	0.0200	0.0189	0.0193	0.0169	0.0175
Aroclor-1016 Peak # 2	B	0.0611	0.0630	0.0503	0.0468	0.0471	0.0433	0.0407	0.0419	0.0361	0.0376
Aroclor-1016 Peak # 3	B		0.0724	0.0632	0.0574	0.0590	0.0541	0.0509	0.0542	0.0462	0.0495
Aroclor-1016 Peak # 4	B	0.0559	0.0462	0.0417	0.0392	0.0416	0.0384	0.0365	0.0384	0.0328	0.0345
Aroclor-1016 Peak # 5	B			0.0241	0.0220	0.0240	0.0220	0.0210	0.0220	0.0185	0.0193
Aroclor-1260 Peak # 1	B	0.0735	0.0722	0.0592	0.0548	0.0579	0.0517	0.0503	0.0540	0.0436	0.0468
Aroclor-1260 Peak # 2	B		0.0821	0.0695	0.0652	0.0682	0.0603	0.0584	0.0633	0.0506	0.0547
Aroclor-1260 Peak # 3	B	0.1108	0.0964	0.0809	0.0765	0.0815	0.0731	0.0718	0.0782	0.0632	
Aroclor-1260 Peak # 4	B	0.0660	0.0527	0.0493	0.0467	0.0491	0.0448	0.0412	0.0471	0.0378	0.0406
Aroclor-1260 Peak # 5	B		0.0860	0.0731	0.0692	0.0734	0.0655	0.0644	0.0708	0.0560	0.0616
Decachlorobiphenyl (PCB)	B		1.3936	1.1048	0.9715	1.1986	1.1264	1.0333	1.0299	0.7901	0.8576
TCMX (PCB)	B	1.3332	1.2621	1.0653	1.0656	1.2201	0.9321	0.9733	0.9760	0.8587	0.9229

Instrument: SVOA-GC06
 Calibration #: 453205686001
 Units: ug/L

Name: PCB_052223_1
 Date: 22-MAY-2023 20:06
 X Axis: R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A			20.000	24	50.000	10	100.00	5	250.00	7	500.00	-2	749.91	-8	1000.0	-5
Aroclor-1016 Peak # 2	A			20.000	25	50.000	14	100.00	6	250.00	6	500.00	-3	749.91	-9	1000.0	-6
Aroclor-1016 Peak # 3	A			20.000	32	50.000	9	100.00	3	250.00	6	500.00	-3	749.91	-10	1000.0	-5
Aroclor-1016 Peak # 4	A			20.000	27	50.000	5	100.00	2	250.00	6	500.00	-2	749.91	-8	1000.0	-2
Aroclor-1016 Peak # 5	A					50.000	29	100.00	9	250.00	7	500.00	-1	749.91	-7	1000.0	-2
Aroclor-1260 Peak # 1	A			20.000	29	50.000	8	100.00	3	250.00	7	500.00	-6	749.91	-9	1000.0	1
Aroclor-1260 Peak # 2	A			20.000	28	50.000	8	100.00	2	250.00	8	500.00	-5	749.91	-8	1000.0	0
Aroclor-1260 Peak # 3	A	10.000	47	20.000	19	50.000	0	100.00	-4	250.00	1	500.00	-10	749.91	-12	1000.0	-3
Aroclor-1260 Peak # 4	A	10.000	31	20.000	9	50.000	1	100.00	-5	250.00	6	500.00	-6	749.91	-8	1000.0	1
Aroclor-1260 Peak # 5	A	10.000	32	20.000	2	50.000	-6	100.00	-9	250.00	8	500.00	-4	749.91	-6	1000.0	5
Decachlorobiphenyl (PCB)	A			1.6000	32	4.0000	0	8.0000	-9	20.000	13	40.000	6	59.993	-2	80.000	-1
TCMX (PCB)	A			1.6000	23	4.0000	3	8.0000	-4	20.000	21	40.000	-8	59.993	-8	80.000	-4
Aroclor-1016 Peak # 1	B	10.000	38	20.000	11	50.000	6	100.00	-2	250.00	3	500.00	-4	749.91	-9	1000.0	-7
Aroclor-1016 Peak # 2	B	10.000	31	20.000	35	50.000	8	100.00	0	250.00	1	500.00	-7	749.91	-13	1000.0	-10
Aroclor-1016 Peak # 3	B			20.000	29	50.000	12	100.00	2	250.00	5	500.00	-4	749.91	-10	1000.0	-4
Aroclor-1016 Peak # 4	B	10.000	38	20.000	14	50.000	3	100.00	-3	250.00	3	500.00	-5	749.91	-10	1000.0	-5
Aroclor-1016 Peak # 5	B					50.000	11	100.00	2	250.00	11	500.00	2	749.91	-3	1000.0	2
Aroclor-1260 Peak # 1	B	10.000	30	20.000	28	50.000	5	100.00	-3	250.00	3	500.00	-8	749.91	-11	1000.0	-4
Aroclor-1260 Peak # 2	B			20.000	29	50.000	9	100.00	3	250.00	7	500.00	-5	749.91	-8	1000.0	0
Aroclor-1260 Peak # 3	B	10.000	36	20.000	18	50.000	-1	100.00	-6	250.00	0	500.00	-10	749.91	-12	1000.0	-4
Aroclor-1260 Peak # 4	B	10.000	39	20.000	11	50.000	4	100.00	-2	250.00	3	500.00	-6	749.91	-13	1000.0	-1
Aroclor-1260 Peak # 5	B			20.000	25	50.000	6	100.00	0	250.00	6	500.00	-5	749.91	-7	1000.0	3
Decachlorobiphenyl (PCB)	B			1.6000	32	4.0000	5	8.0000	-8	20.000	13	40.000	7	59.993	-2	80.000	-2
TCMX (PCB)	B	0.8000	26	1.6000	19	4.0000	0	8.0000	0	20.000	15	40.000	-12	59.993	-8	80.000	-8

Instrument: SVOA-GC06
 Calibration #: 453205686001
 Units: ug/L

Name: PCB_052223_1
 Date: 22-MAY-2023 20:06
 X Axis: R

Spiked Amounts / Drifts	Ch	L9	%D	L10	%D
Aroclor-1016 Peak # 1	A	1500.0	-17	2000.0	-13
Aroclor-1016 Peak # 2	A	1500.0	-19	2000.0	-15
Aroclor-1016 Peak # 3	A	1500.0	-18	2000.0	-13
Aroclor-1016 Peak # 4	A	1500.0	-17	2000.0	-11
Aroclor-1016 Peak # 5	A	1500.0	-19	2000.0	-15
Aroclor-1260 Peak # 1	A	1500.0	-21	2000.0	-13
Aroclor-1260 Peak # 2	A	1500.0	-20	2000.0	-13
Aroclor-1260 Peak # 3	A	1500.0	-23	2000.0	-15
Aroclor-1260 Peak # 4	A	1500.0	-19	2000.0	-11
Aroclor-1260 Peak # 5	A	1500.0	-17	2000.0	-6
Decachlorobiphenyl (PCB)	A	120.00	-24	160.00	-15
TCMX (PCB)	A	120.00	-15	160.00	-7
Aroclor-1016 Peak # 1	B	1500.0	-19	2000.0	-16
Aroclor-1016 Peak # 2	B	1500.0	-23	2000.0	-20
Aroclor-1016 Peak # 3	B	1500.0	-18	2000.0	-12
Aroclor-1016 Peak # 4	B	1500.0	-19	2000.0	-15
Aroclor-1016 Peak # 5	B	1500.0	-15	2000.0	-11
Aroclor-1260 Peak # 1	B	1500.0	-23	2000.0	-17
Aroclor-1260 Peak # 2	B	1500.0	-20	2000.0	-14
Aroclor-1260 Peak # 3	B	1500.0	-22		
Aroclor-1260 Peak # 4	B	1500.0	-20	2000.0	-15
Aroclor-1260 Peak # 5	B	1500.0	-19	2000.0	-11
Decachlorobiphenyl (PCB)	B	120.00	-25	160.00	-19
TCMX (PCB)	B	120.00	-19	160.00	-13

TRN 05/23/23 : Manually integrated for coeluting peak, negative/tailing peak for one/both channels on multiple levels

Instrument: SVOA-GC06
Calibration #: 453205686001
Units: ug/L

Name: PCB_052223_1
Date: 22-MAY-2023 20:06
X Axis: R

Analyst: TRN 05/23/23

Reviewer: LW 05/23/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 491224 PCBS Wipe
EPA 8082

Inst: SVOA-GC06
Calnum: 453205686001

Name: PCB_052223_1
Cal Date: 22-MAY-2023

- ICV 453205686031 (gc06_052223031 22-MAY-2023) stds: S18189

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	428.3	ug/L	-14	15	
Aroclor-1260	A	500.0	486.3	ug/L	-3	15	
Aroclor-1016	B	500.0	432.4	ug/L	-14	15	
Aroclor-1260	B	500.0	476.3	ug/L	-5	15	

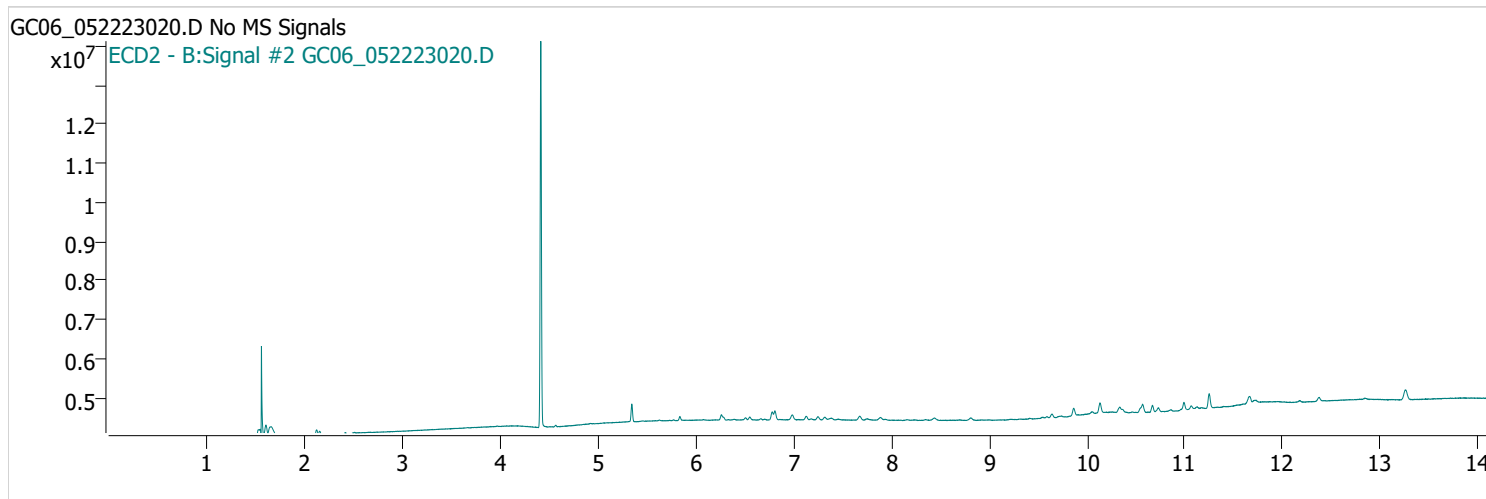
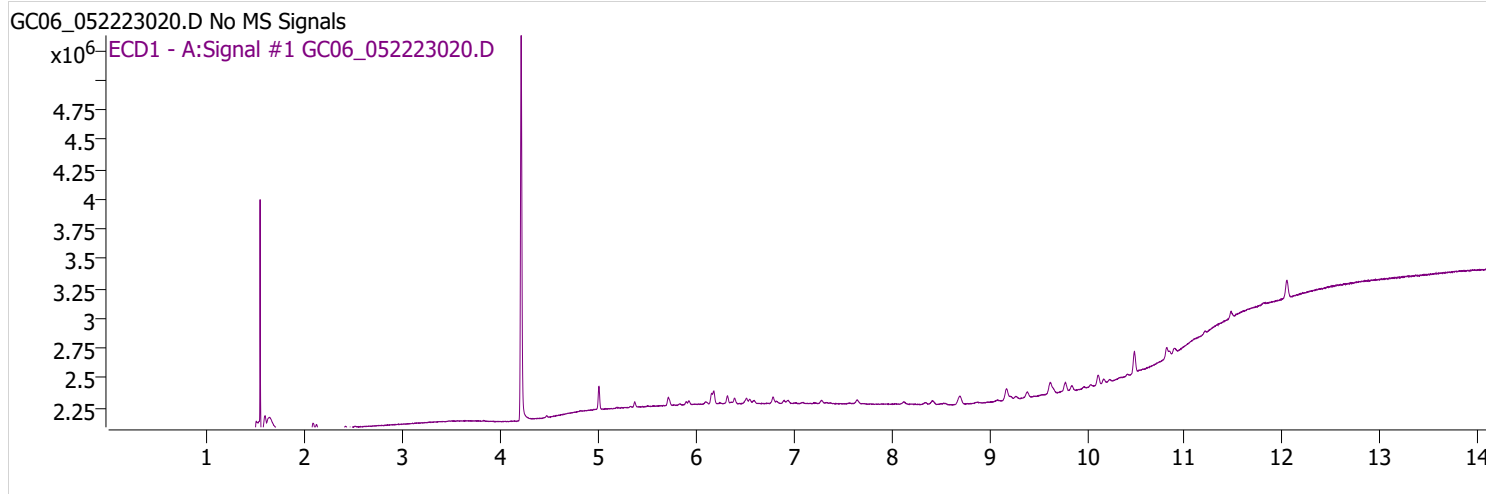
•

Analyst: TRN 05/23/23

Reviewer: LW 05/23/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_052223020.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 8:06:46 PM
Sample Name	ICAL, S18179	Instrument	SVOA-GC06
Vial	11	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.218	0.0	3319808.327	20.0000	ng/ml	0.008
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	8866253.650	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	5.013	0.0	218490.563	1.2415	ng/ml	0.011
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 6.21%	*	
S TCMX (PCB) #2	5.348	0.0	472805.108	1.0082	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 5.04%	*	
S Decachlorobiphenyl (PCB)	12.044	0.0	291518.580	1.3267	ng/ml	0.023
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 6.63%	*	
S Decachlorobiphenyl (PCB) #2	13.258	0.0	632444.173	1.3581	ng/ml	0.010
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 6.79%	*	
Target Compounds						QValue
T AR1016 1	5.378	0.0	61309.165	16.6853	ng/ml	100
T AR1016 2	5.723	0.0	117562.640	15.6669	ng/ml	100
T AR1016 1 #2	5.840	0.0	127309.840	13.8000	ng/ml	100

Quantitation Results Report (Not Reviewed)

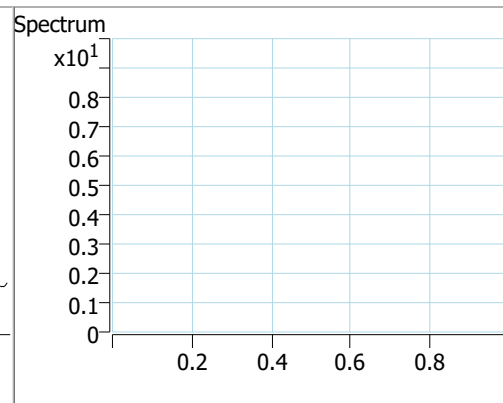
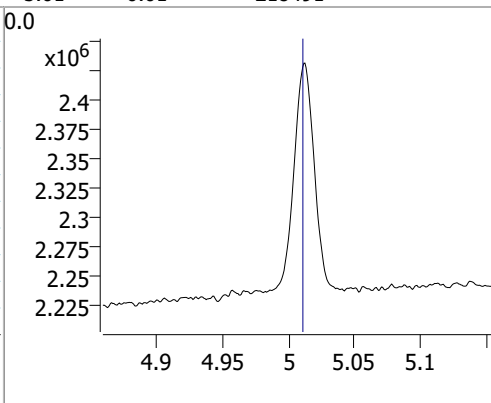
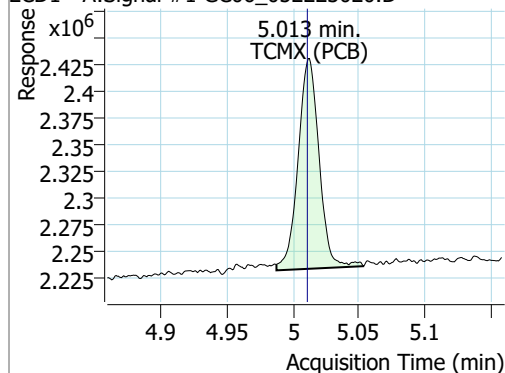
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 3	6.187	0.0	155866.244	16.2850	ng/ml m	100
T AR1016 2 #2	6.263	0.0	270742.302	13.0744	ng/ml	100
T AR1016 4	6.326	0.0	91736.550	15.5636	ng/ml	100
T AR1016 5	6.520	0.0	84019.148	19.2055	ng/ml	100
T AR1016 3 #2	6.811	0.0	386894.363	15.5439	ng/ml	100
T AR1016 4 #2	6.988	0.0	247753.500	13.8049	ng/ml	100
T AR1016 5 #2	7.251	0.0	141832.892	14.1157	ng/ml	100
T AR1260 1	8.701	0.0	181061.273	16.5041	ng/ml	100
T AR1260 2	9.178	0.0	267356.534	16.0212	ng/ml	100
T AR1260 3	9.623	0.0	262363.997	14.6680	ng/ml	100
T AR1260 1 #2	9.865	0.0	325692.704	12.9688	ng/ml	100
T AR1260 4	10.113	0.0	128136.380	13.1049	ng/ml	100
T AR1260 2 #2	10.133	0.0	490944.388	17.2965	ng/ml	100
T AR1260 3 #2	10.568	0.0	491203.187	13.4841	ng/ml	100
T AR1260 5	10.816	0.0	204319.500	12.8466	ng/ml	100
T AR1260 4 #2	10.990	0.0	292791.859	13.7527	ng/ml m	100
T AR1260 5 #2	11.664	0.0	432968.877	13.9975	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

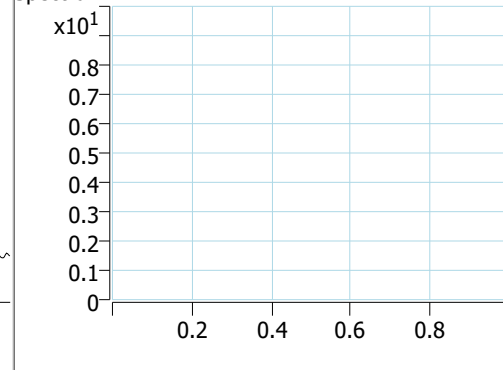
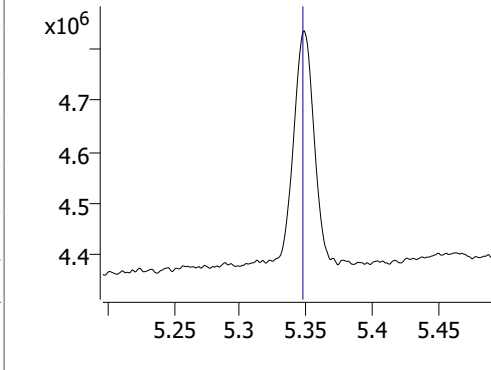
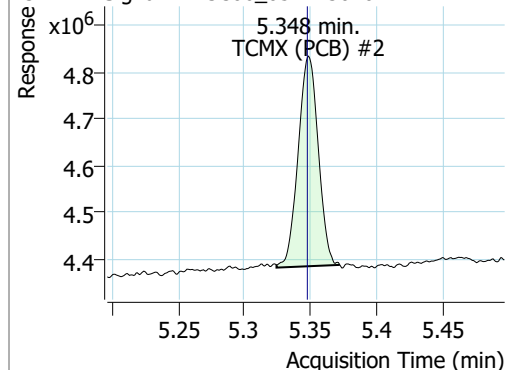
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	1.2415	5.01	0.01	218491				

ECD1 - A:Signal #1 GC06_052223020.D



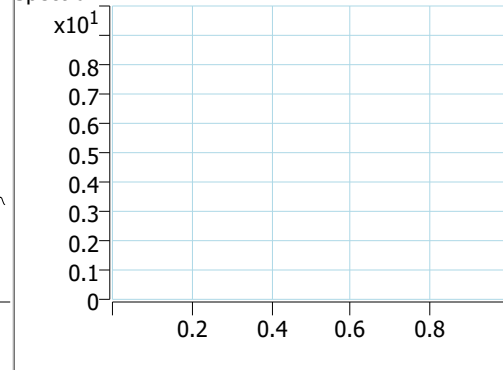
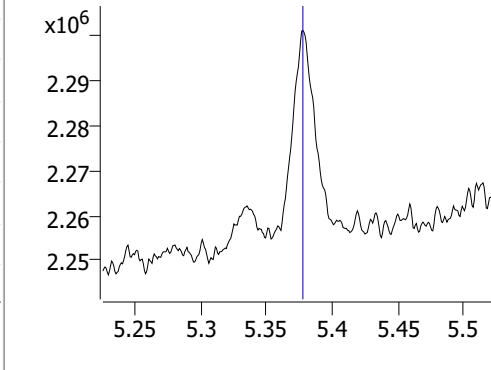
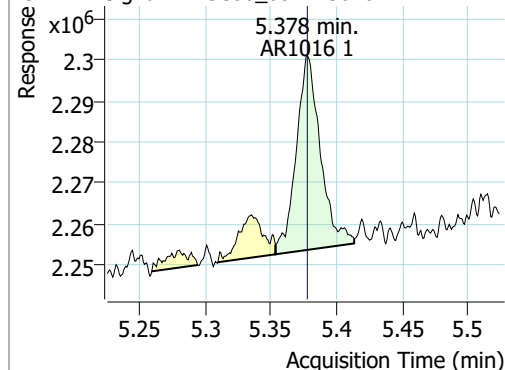
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	1.0082	5.35	0.00	472805				

ECD2 - B:Signal #2 GC06_052223020.D



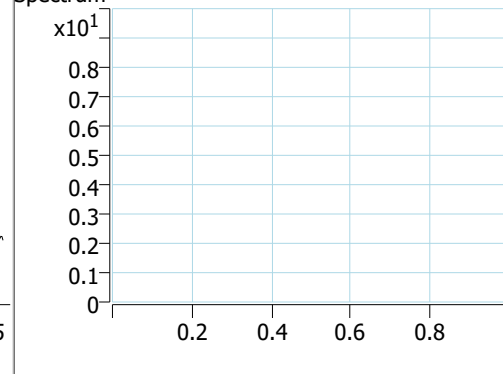
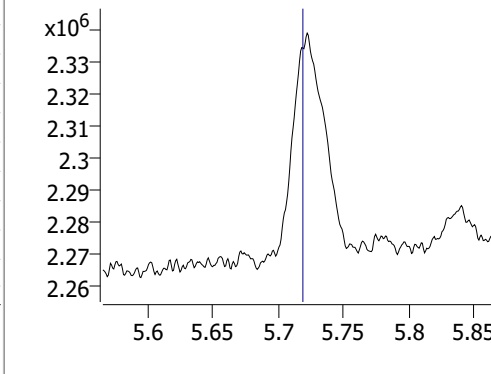
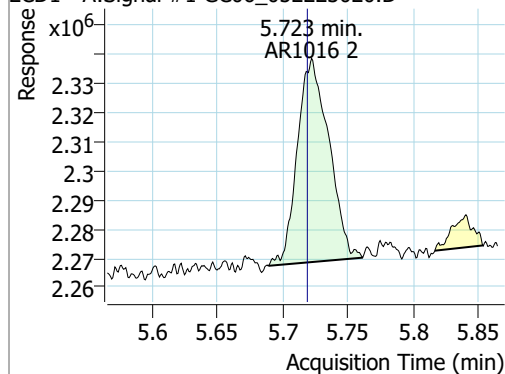
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	16.6853	5.38	0.01	61309				

ECD1 - A:Signal #1 GC06_052223020.D

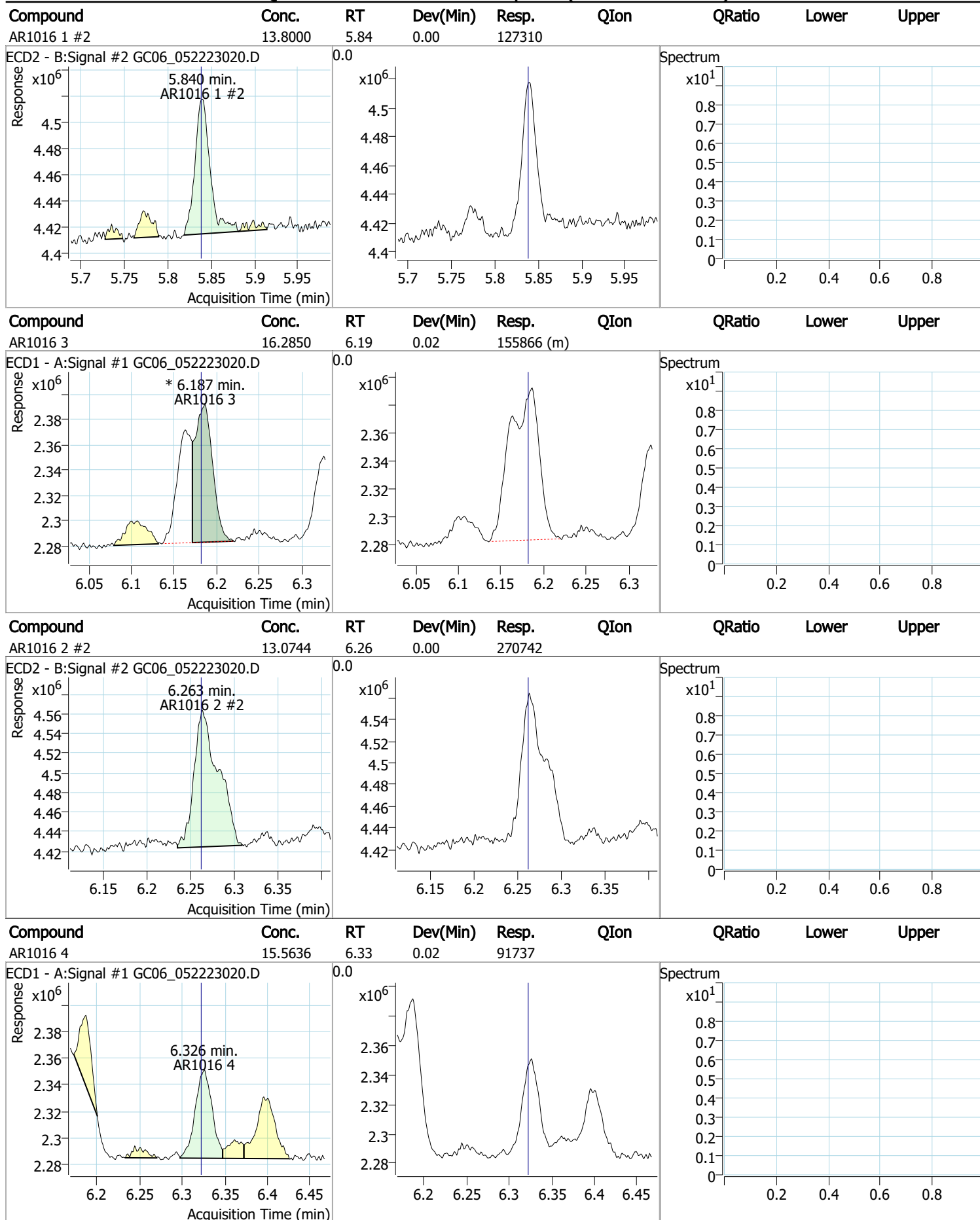


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	15.6669	5.72	0.01	117563				

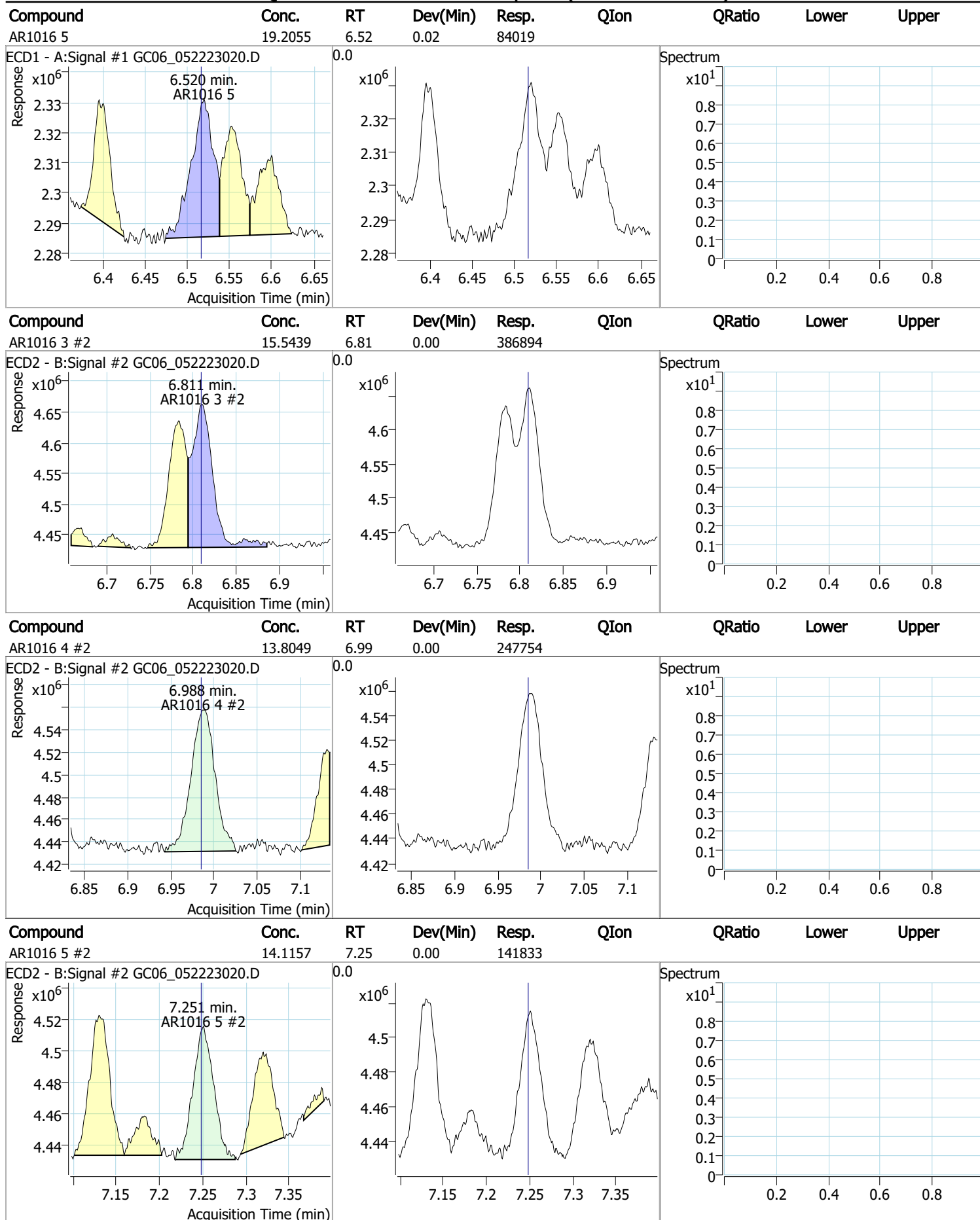
ECD1 - A:Signal #1 GC06_052223020.D



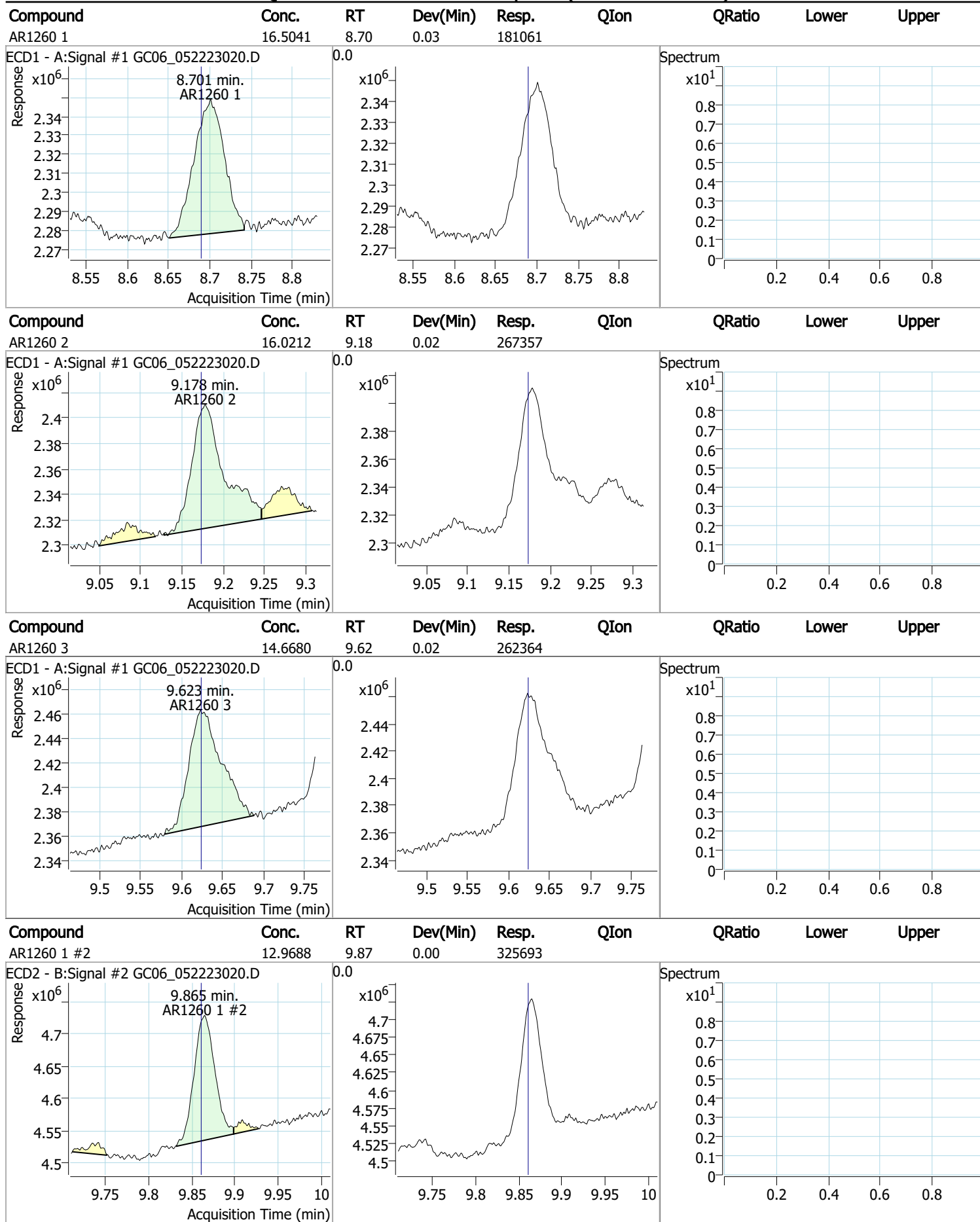
Quantitation Results Report (Not Reviewed)



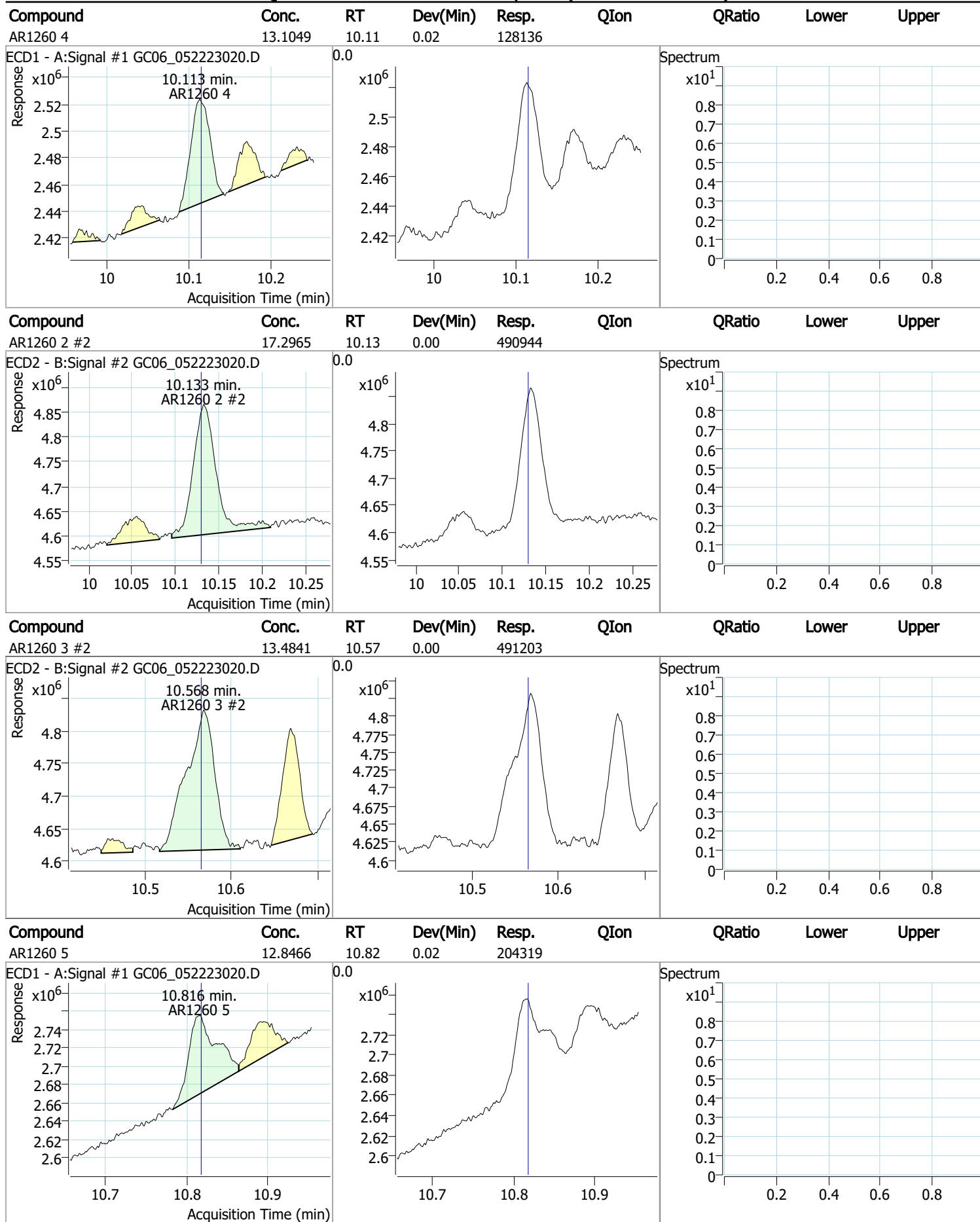
Quantitation Results Report (Not Reviewed)



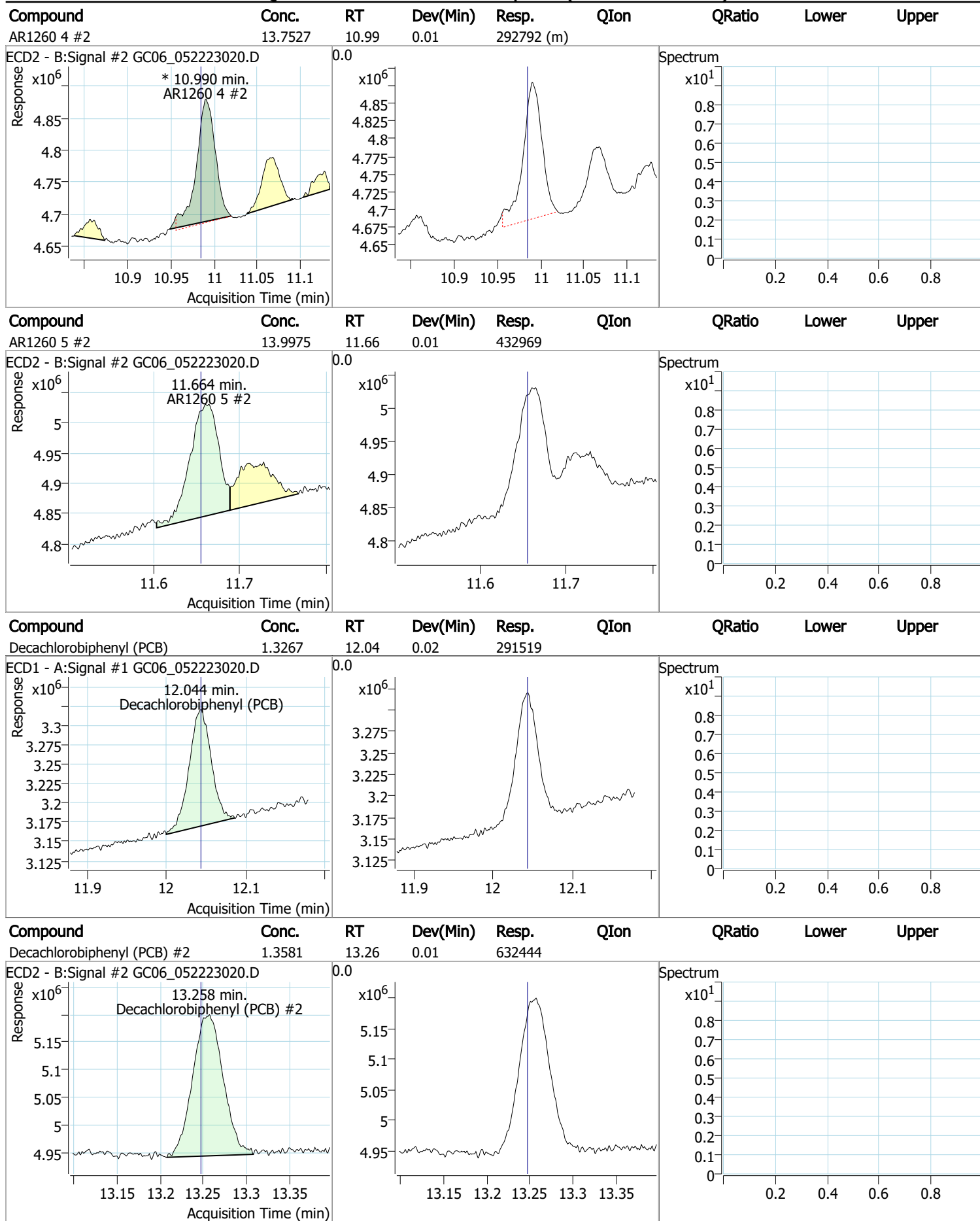
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

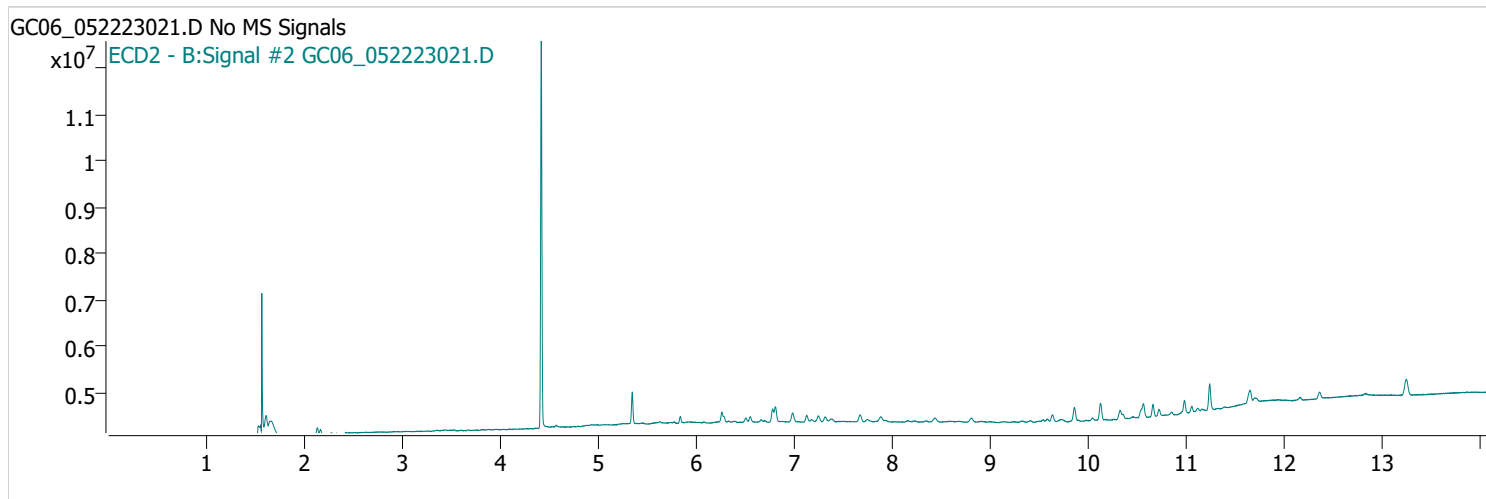
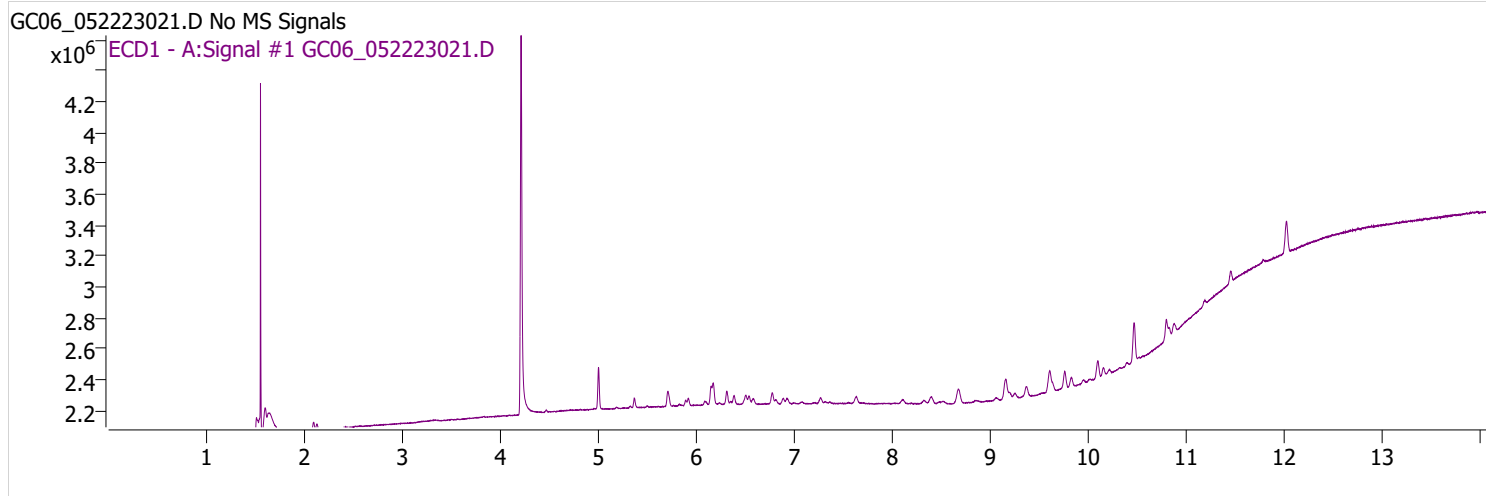


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_052223021.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 8:24:57 PM
Sample Name	ICAL, S18180	Instrument	SVOA-GC06
Vial	12	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.213	0.0	2895344.44 1	20.0000	ng/ml		0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	7570414.19 2	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.003	0.0	303777.472	1.9792	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 9.90%		*	
S TCMX (PCB) #2	5.348	0.0	764383.122	1.9089	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 9.54%		*	
S Decachlorobiphenyl (PCB)	12.029	0.0	408400.785	2.1312	ng/ml		0.008
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 10.66%		*	
S Decachlorobiphenyl (PCB) #2	13.253	0.0	844002.434	2.1227	ng/ml		0.005
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 10.61%		*	
Target Compounds							QValue
T AR1016 1	5.368	0.0	79790.931	24.8987	ng/ml	m	100
T AR1016 2	5.711	0.0	163841.543	25.0351	ng/ml		100
T AR1016 1 #2	5.838	0.0	174515.852	22.1550	ng/ml		100

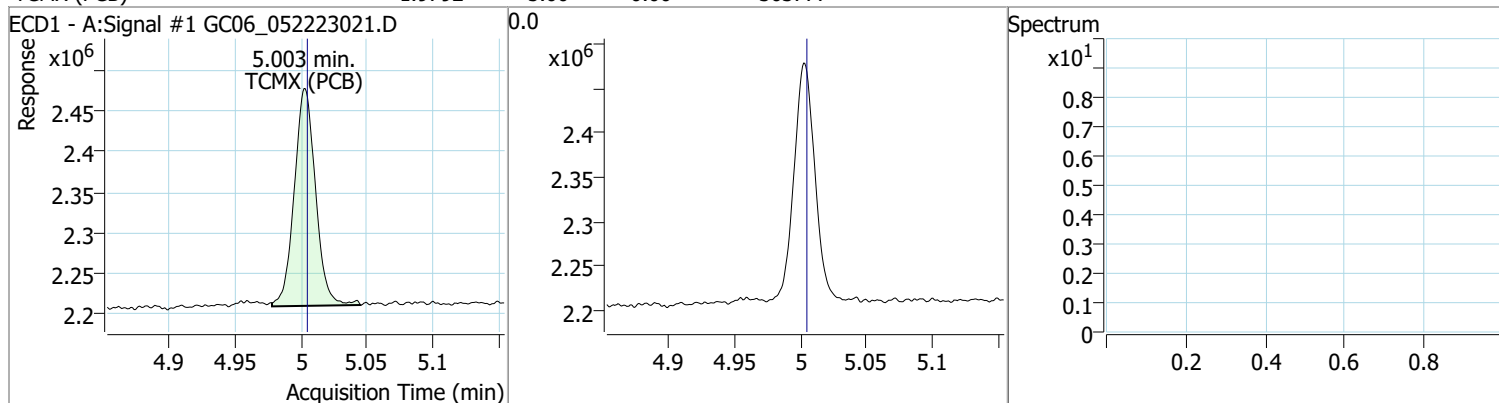
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 3	6.175	0.0	220523.220	26.4181	ng/ml	100
T AR1016 2 #2	6.263	0.0	477082.623	26.9823	ng/ml	100
T AR1016 4	6.313	0.0	128324.919	24.9627	ng/ml	100
T AR1016 5	6.507	0.0	115071.070	30.1596	ng/ml	100
T AR1016 3 #2	6.808	0.0	548224.081	25.7956	ng/ml	100
T AR1016 4 #2	6.985	0.0	350067.342	22.8447	ng/ml	100
T AR1016 5 #2	7.247	0.0	236355.630	27.5495	ng/ml	100
T AR1260 1	8.677	0.0	246324.631	25.7447	ng/ml	100
T AR1260 2	9.161	0.0	374573.756	25.7367	ng/ml	100
T AR1260 3	9.611	0.0	373137.702	23.9193	ng/ml	100
T AR1260 1 #2	9.863	0.0	546442.383	25.4834	ng/ml	100
T AR1260 4	10.101	0.0	185605.908	21.7654	ng/ml	100
T AR1260 2 #2	10.130	0.0	621546.504	25.6460	ng/ml	100
T AR1260 3 #2	10.568	0.0	729683.927	23.4593	ng/ml	100
T AR1260 5	10.803	0.0	273678.565	19.7302	ng/ml	100
T AR1260 4 #2	10.987	0.0	398783.981	21.9375	ng/ml m	100
T AR1260 5 #2	11.657	0.0	651340.206	24.6617	ng/ml	100

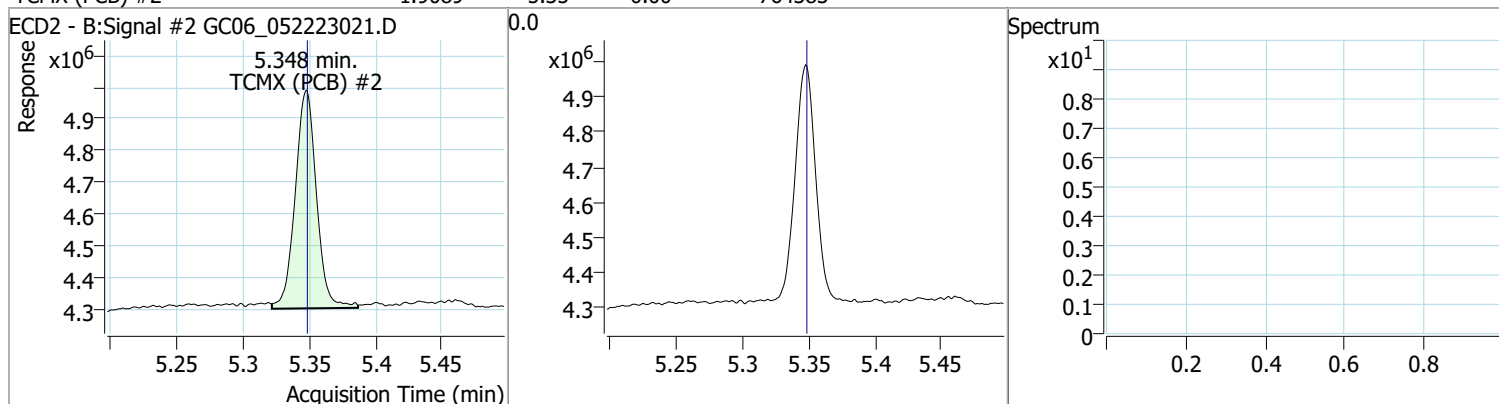
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

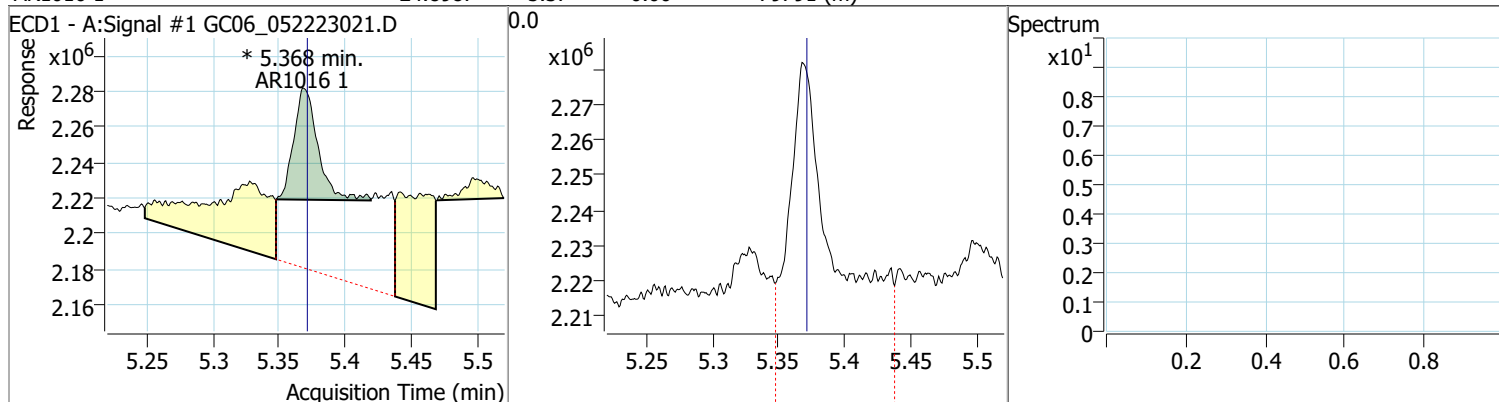
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	1.9792	5.00	0.00	303777				



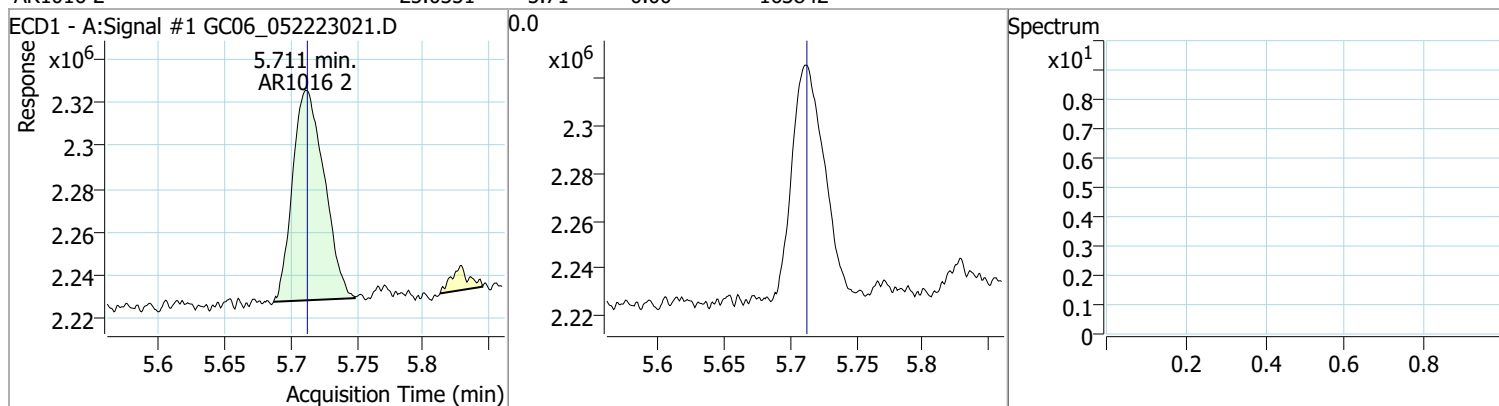
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	1.9089	5.35	0.00	764383				



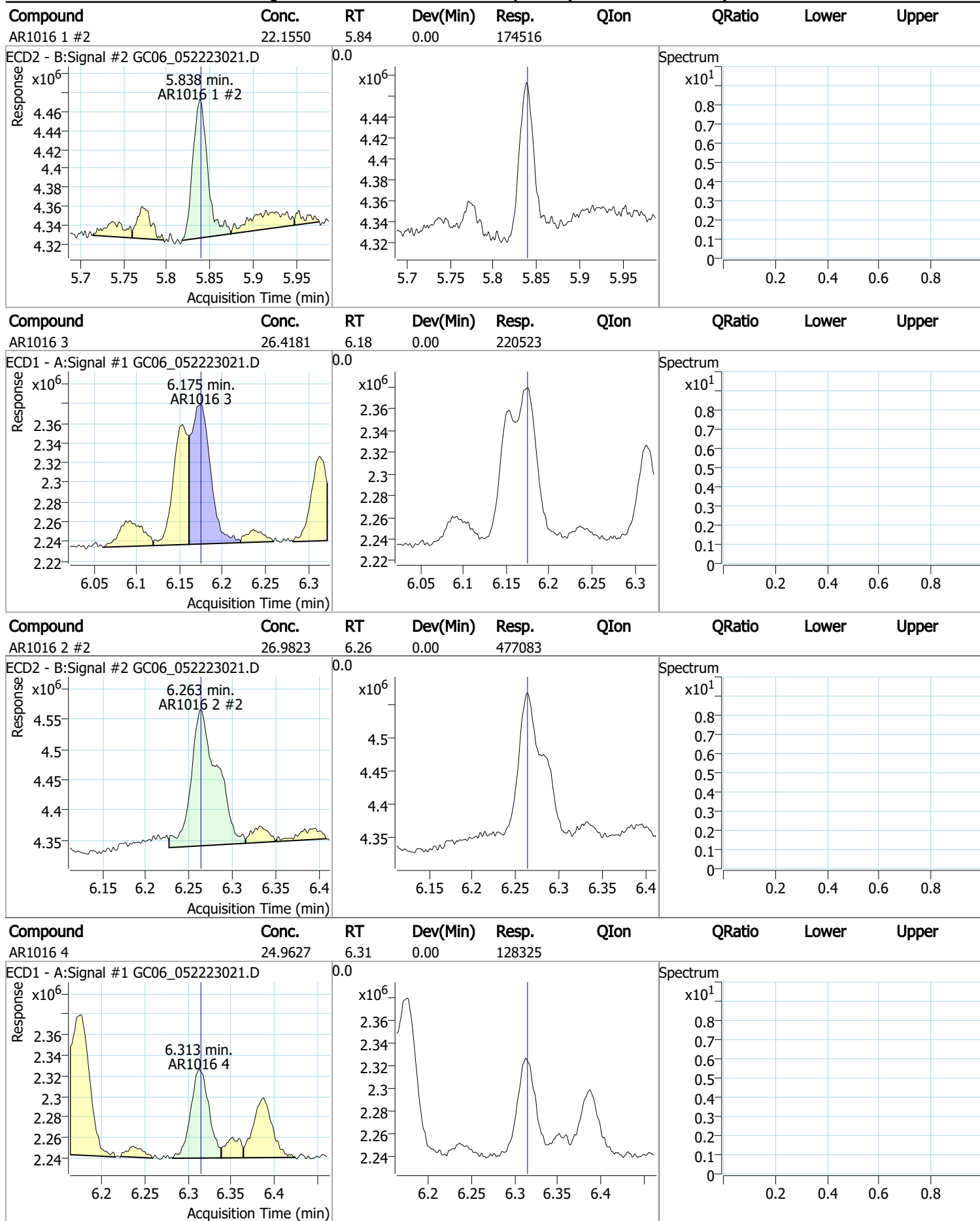
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	24.8987	5.37	0.00	79791 (m)				



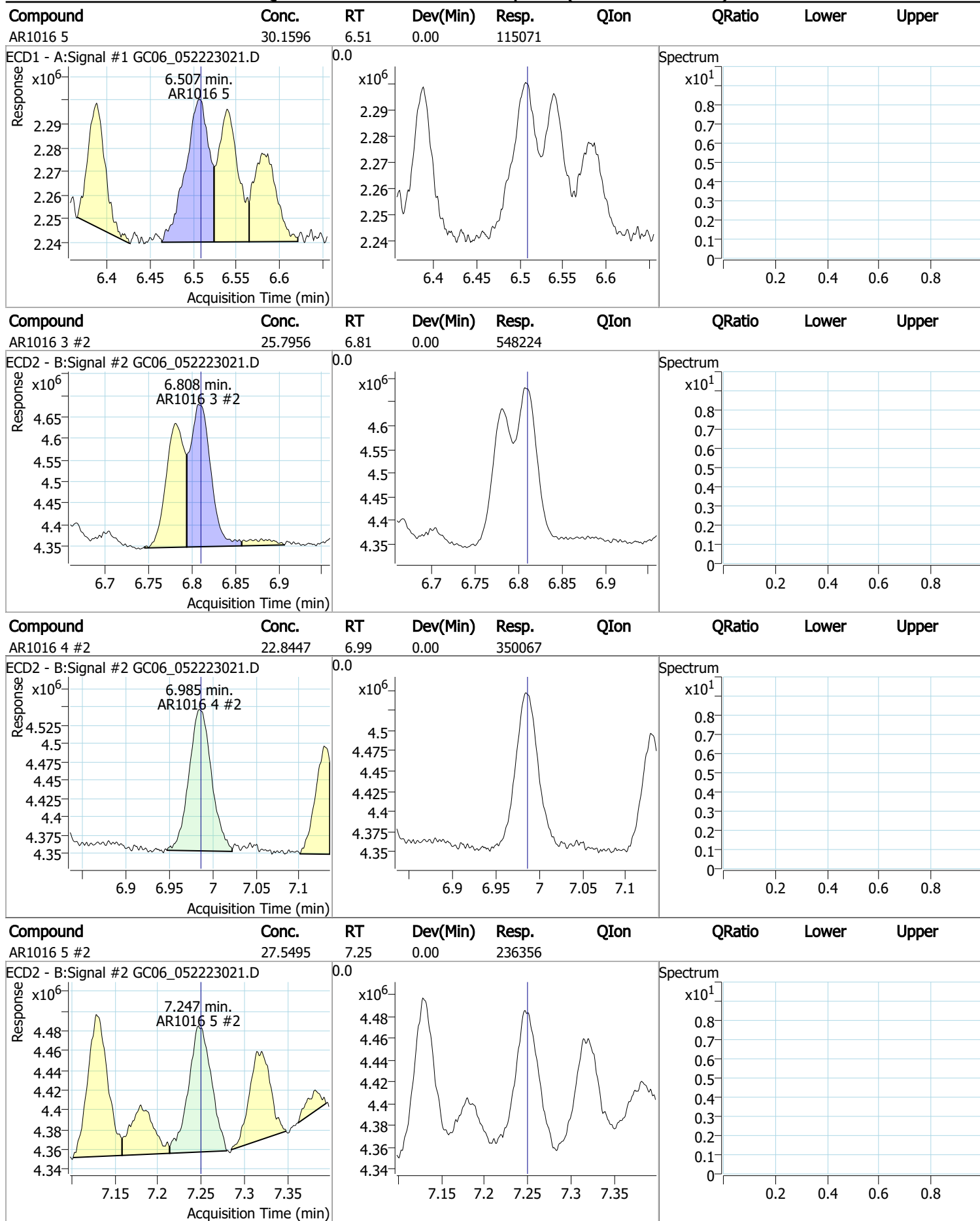
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	25.0351	5.71	0.00	163842				



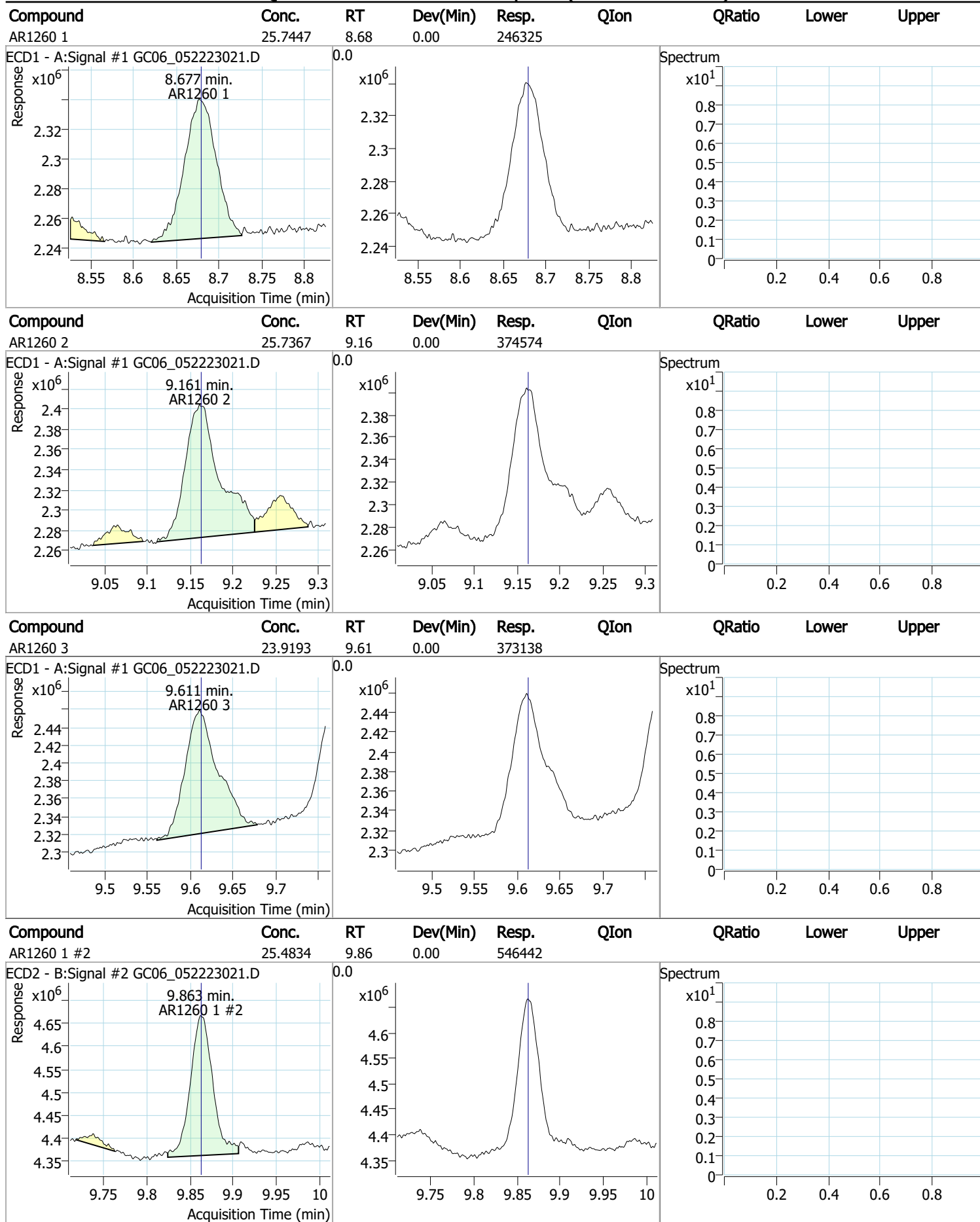
Quantitation Results Report (Not Reviewed)



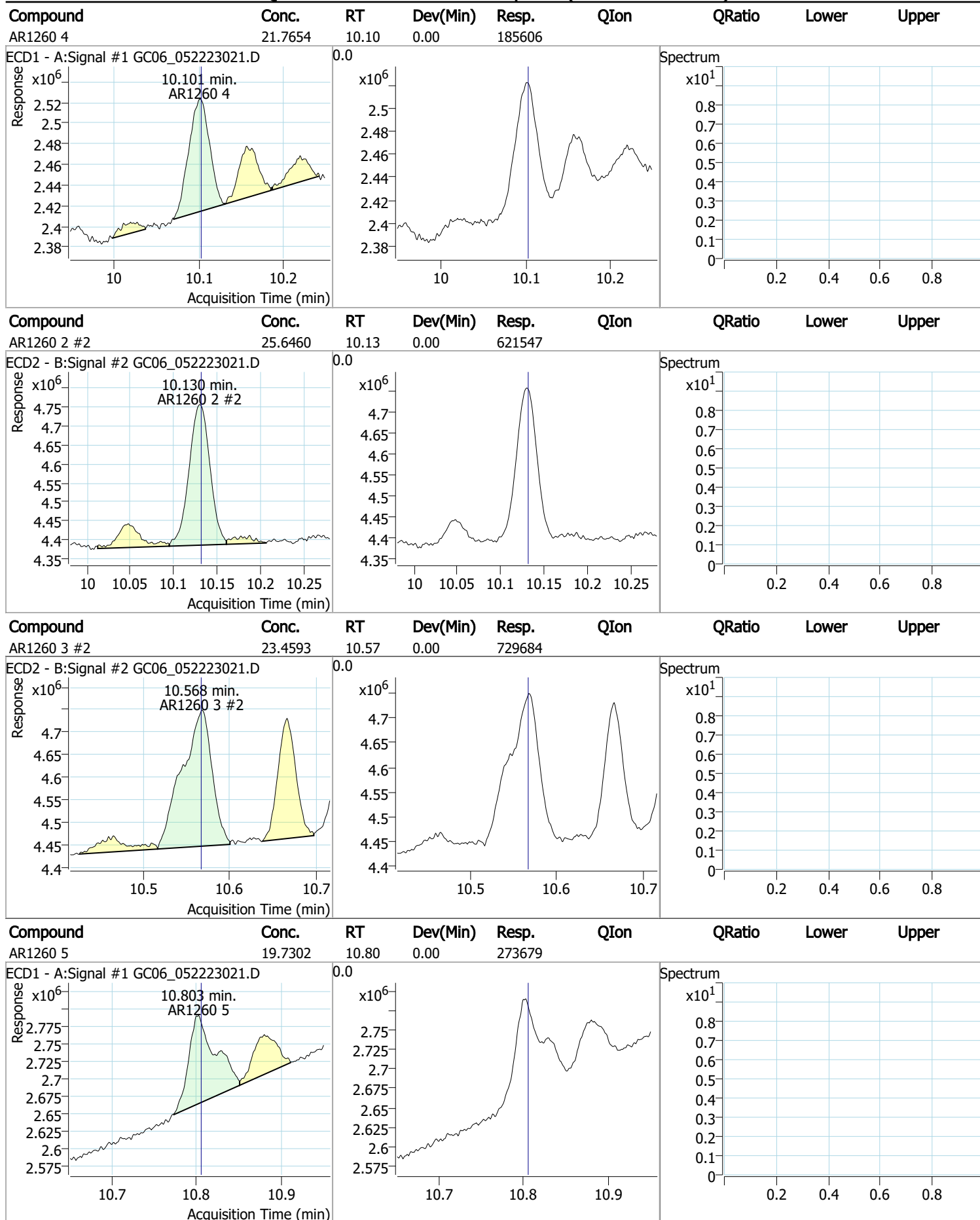
Quantitation Results Report (Not Reviewed)



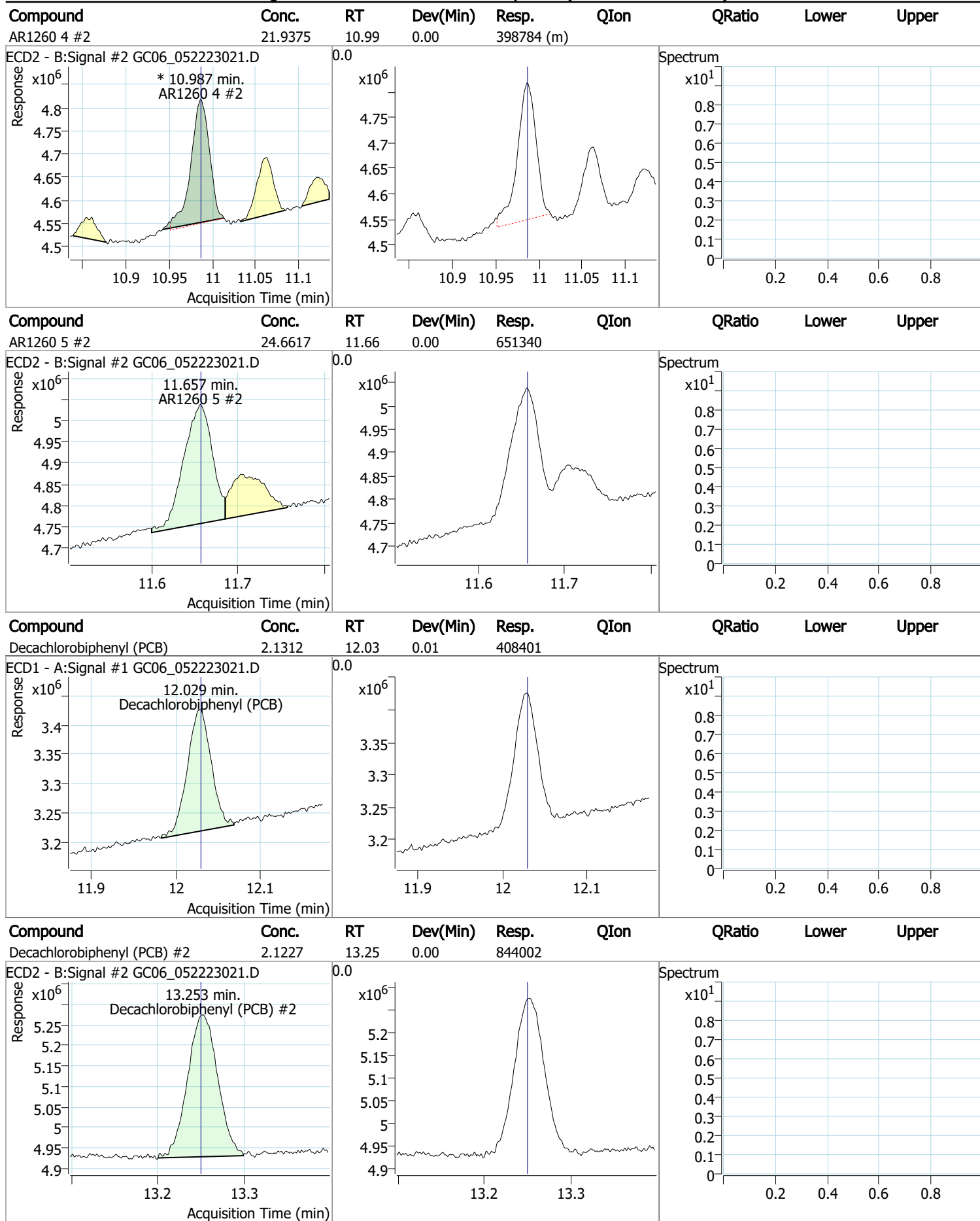
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

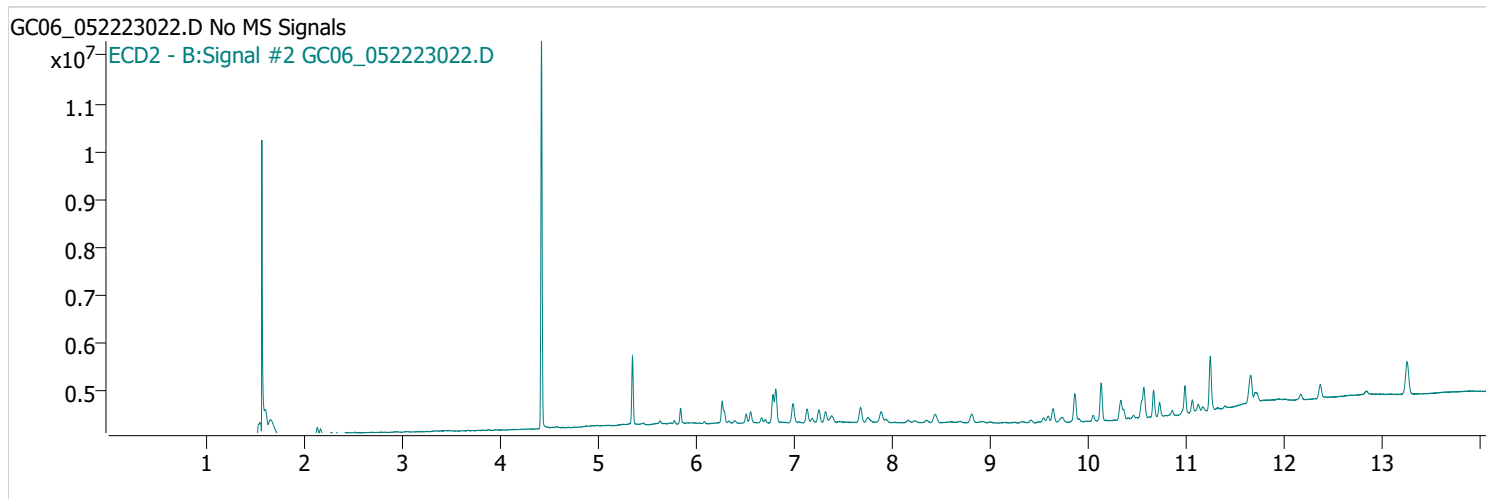
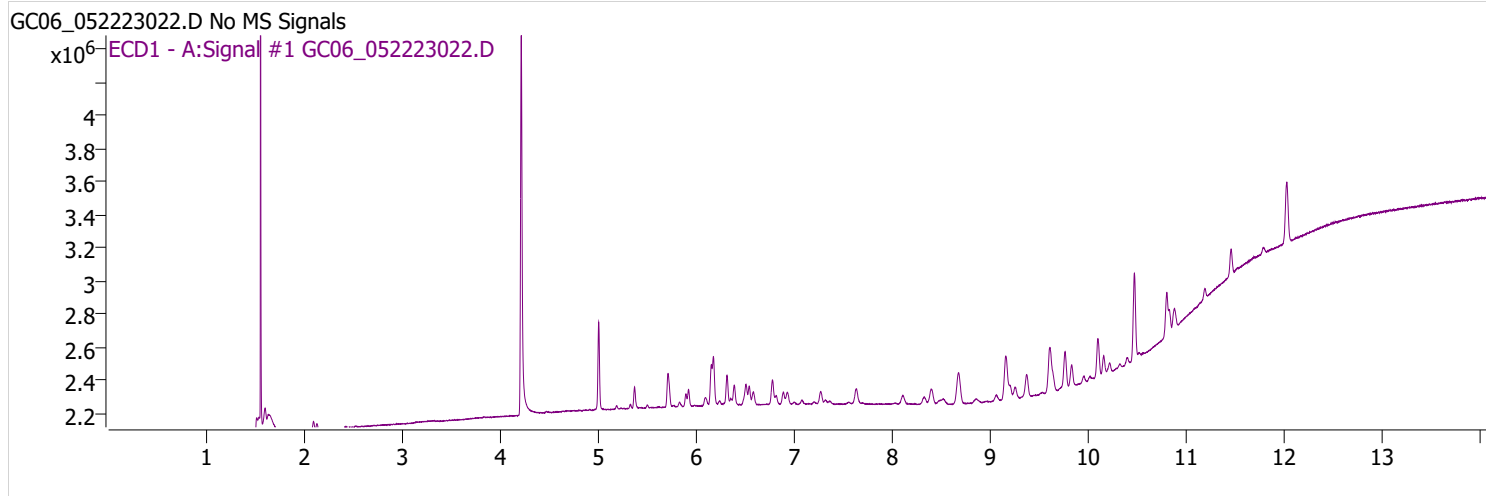


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_052223022.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 8:43:12 PM
Sample Name	ICAL, S18181	Instrument	SVOA-GC06
Vial	13	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.212	0.0	2781470.052	20.0000	ng/ml	0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	7279227.004	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	5.002	0.0	609354.312	4.1327	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.66%		*
S TCMX (PCB) #2	5.347	0.0	1550920.509	4.0281	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.14%		*
S Decachlorobiphenyl (PCB)	12.025	0.0	745781.080	4.0511	ng/ml	0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.26%		*
S Decachlorobiphenyl (PCB) #2	13.251	0.0	1608412.437	4.2070	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 21.03%		*
Target Compounds						QValue
T AR1016 1	5.368	0.0	170540.954	55.3958	ng/ml	100

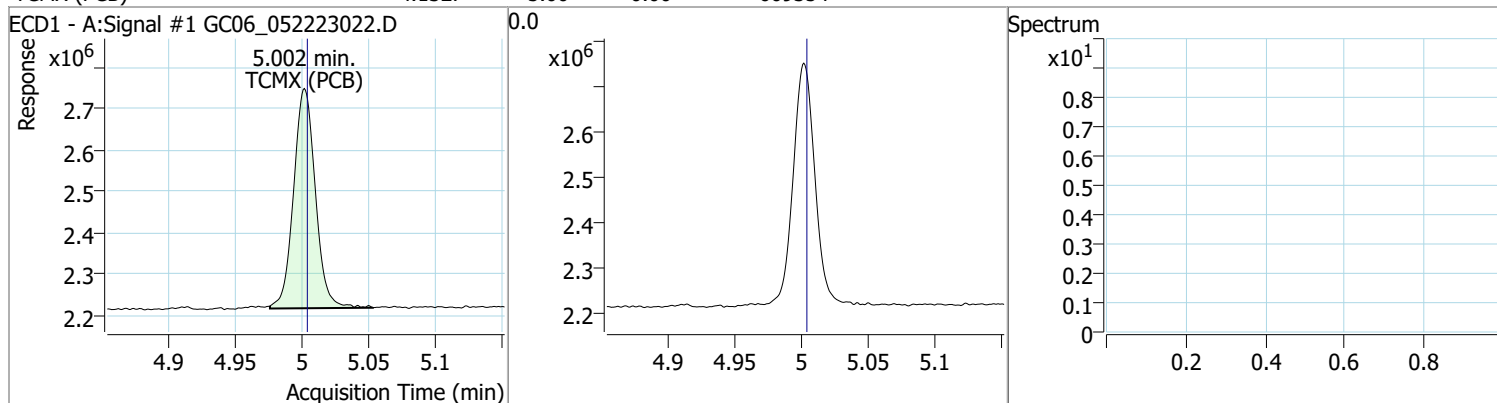
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 2	5.710	0.0	360225.003	57.2961	ng/ml	100
T AR1016 1 #2	5.838	0.0	401206.504	52.9711	ng/ml	100
T AR1016 3	6.173	0.0	440222.763	54.8967	ng/ml	100
T AR1016 2 #2	6.263	0.0	916186.565	53.8895	ng/ml	100
T AR1016 4	6.311	0.0	255106.188	51.6567	ng/ml	100
T AR1016 5	6.505	0.0	238869.088	65.1697	ng/ml	100
T AR1016 3 #2	6.809	0.0	1149843.60 2	56.2678	ng/ml	100
T AR1016 4 #2	6.985	0.0	759546.436	51.5494	ng/ml	100
T AR1016 5 #2	7.249	0.0	438386.305	53.1421	ng/ml	100
T AR1260 1	8.675	0.0	494730.824	53.8238	ng/ml	100
T AR1260 2	9.157	0.0	759997.467	54.3568	ng/ml	100
T AR1260 3	9.608	0.0	748707.497	49.9593	ng/ml	100
T AR1260 1 #2	9.861	0.0	1076849.30 7	52.2279	ng/ml	100
T AR1260 4	10.096	0.0	412655.823	50.3719	ng/ml	100
T AR1260 2 #2	10.129	0.0	1265019.65 3	54.2847	ng/ml	100
T AR1260 3 #2	10.566	0.0	1471627.93 4	49.2054	ng/ml	100
T AR1260 5	10.800	0.0	608490.548	45.6637	ng/ml m	100
T AR1260 4 #2	10.985	0.0	897655.785	51.3563	ng/ml	100
T AR1260 5 #2	11.655	0.0	1331118.84 9	52.4162	ng/ml	100

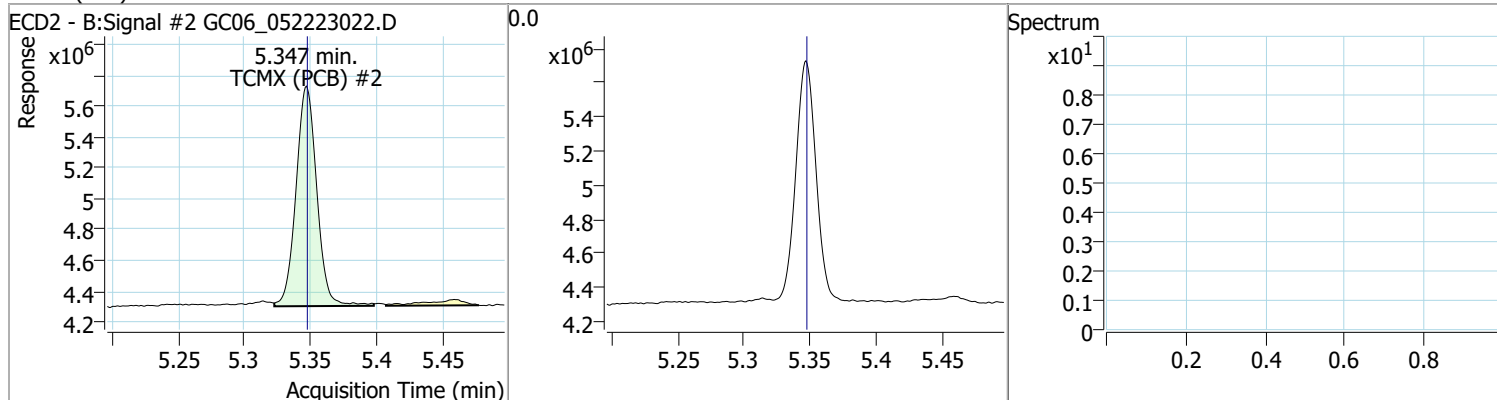
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

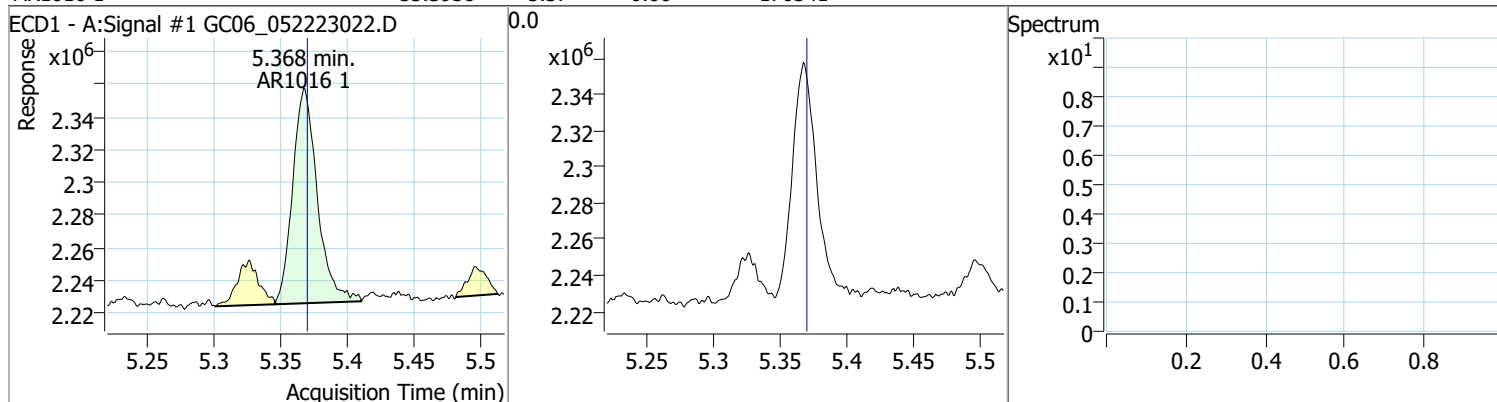
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	4.1327	5.00	0.00	609354				



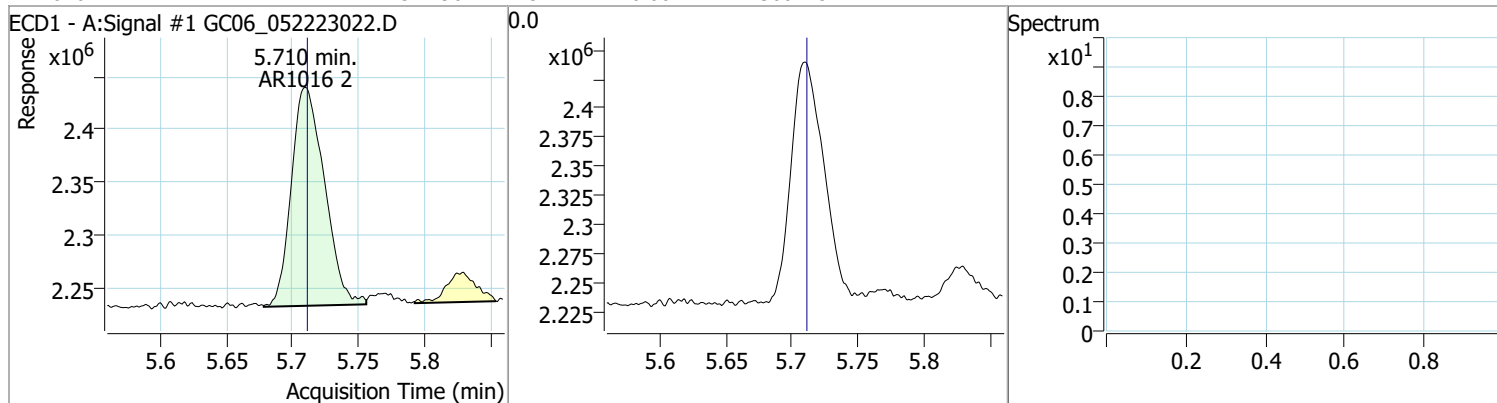
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	4.0281	5.35	0.00	1550921				



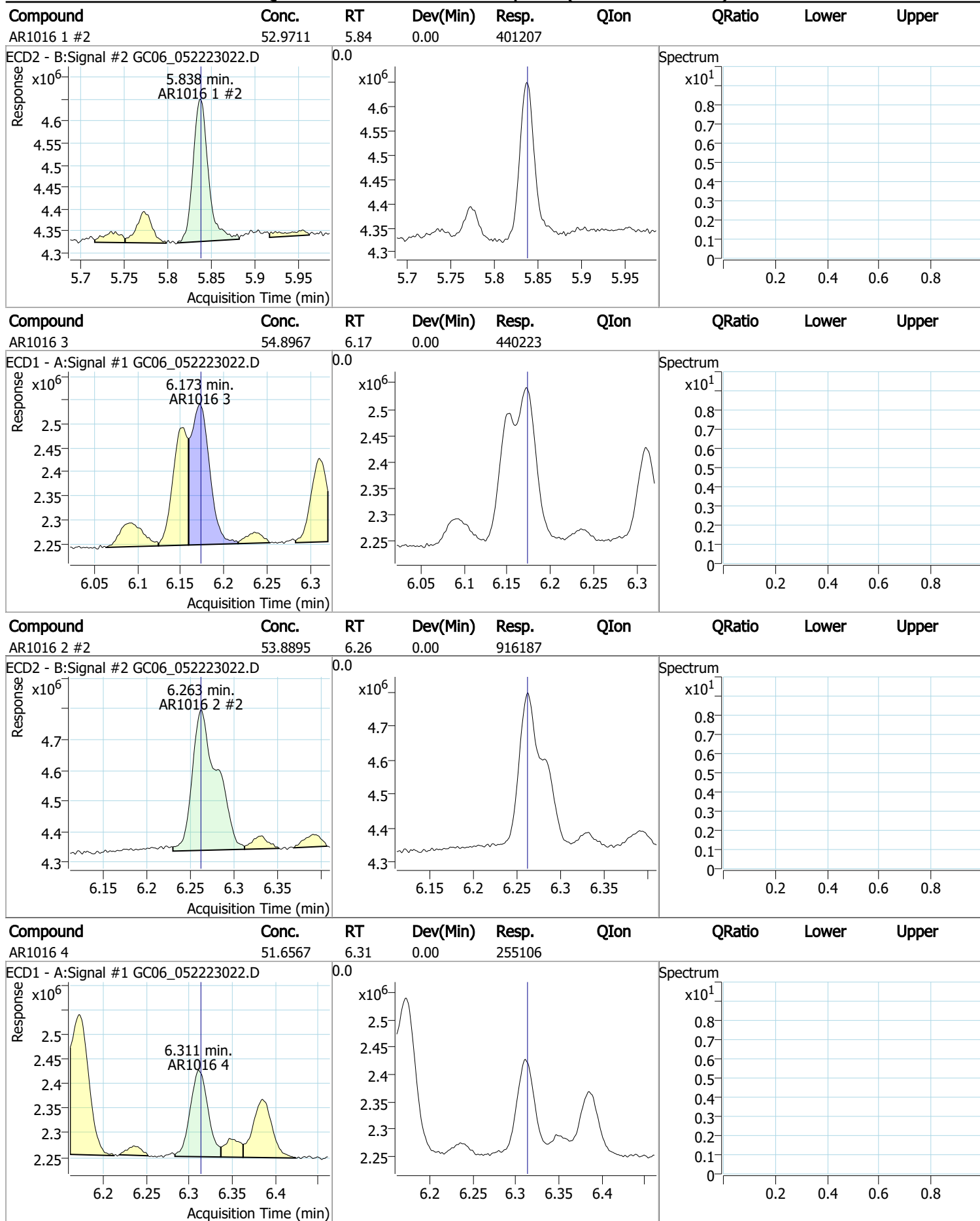
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	55.3958	5.37	0.00	170541				



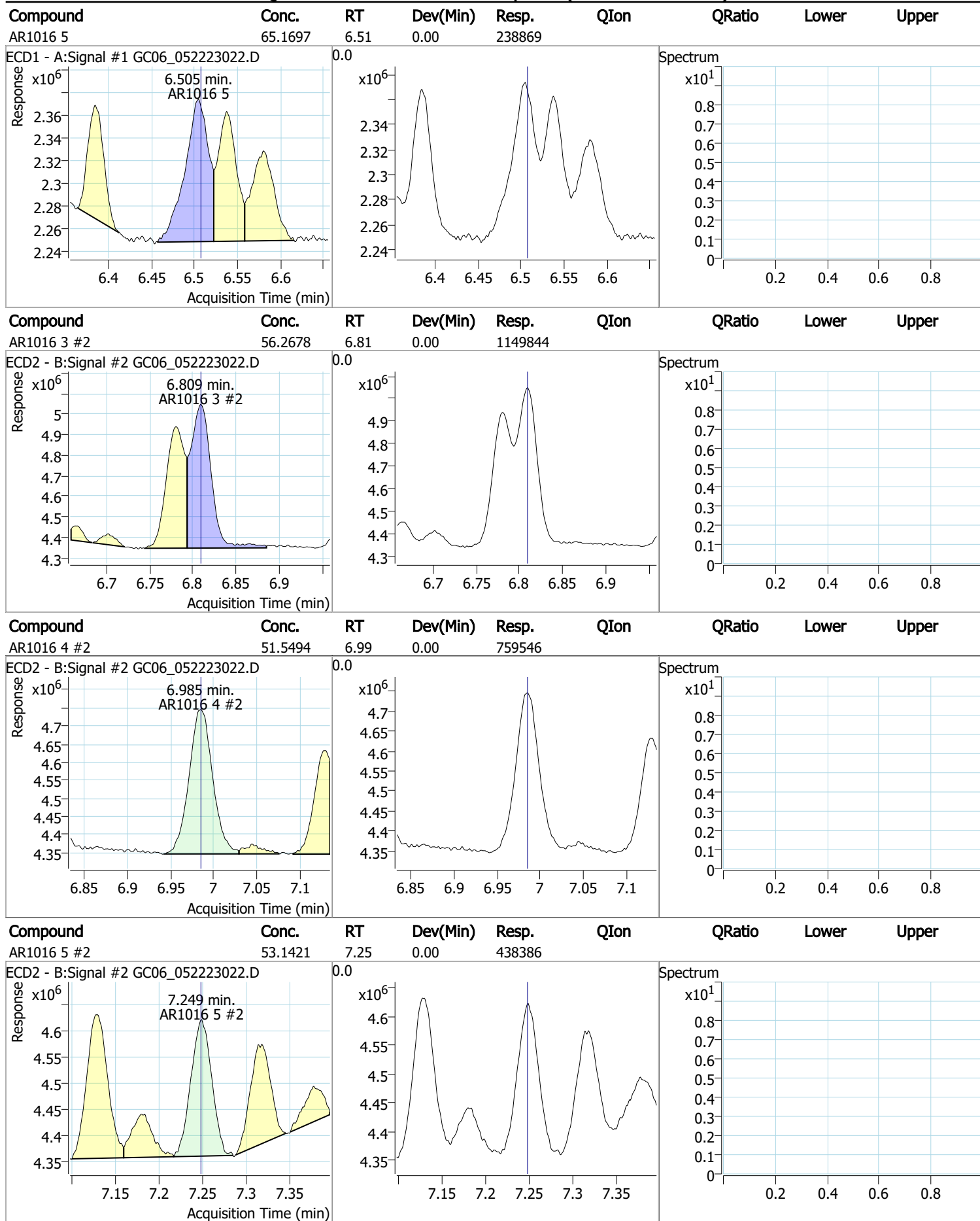
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	57.2961	5.71	0.00	360225				



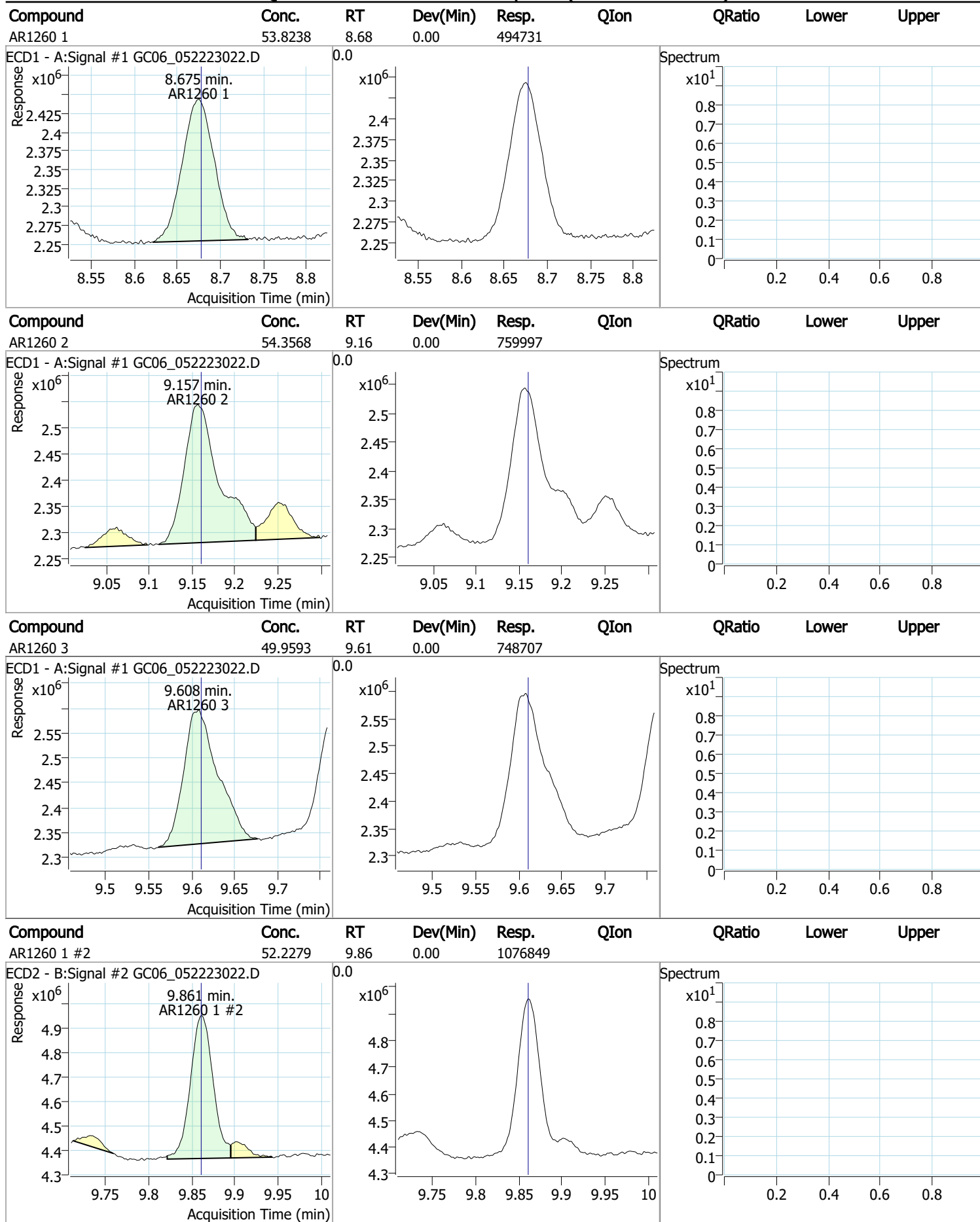
Quantitation Results Report (Not Reviewed)



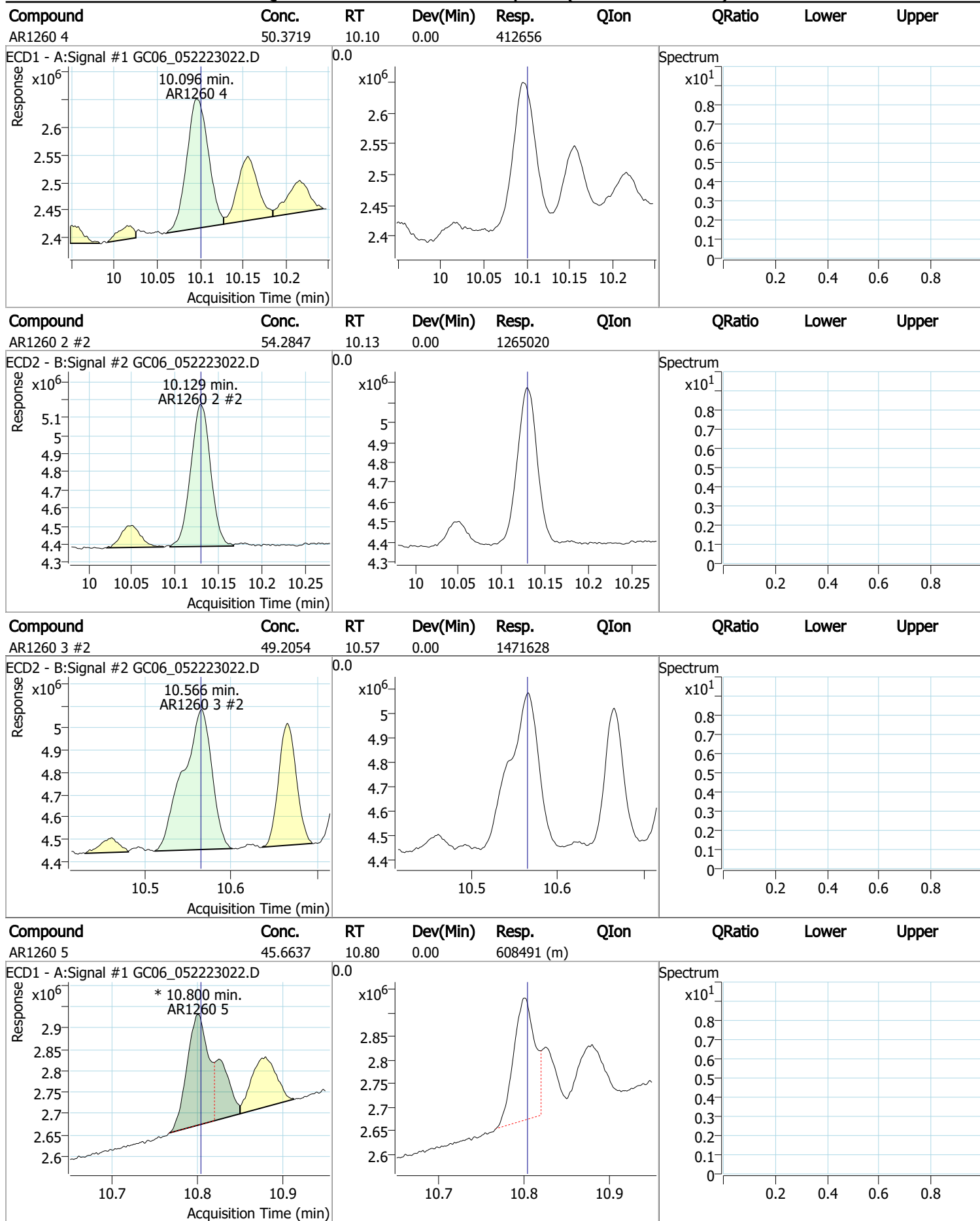
Quantitation Results Report (Not Reviewed)



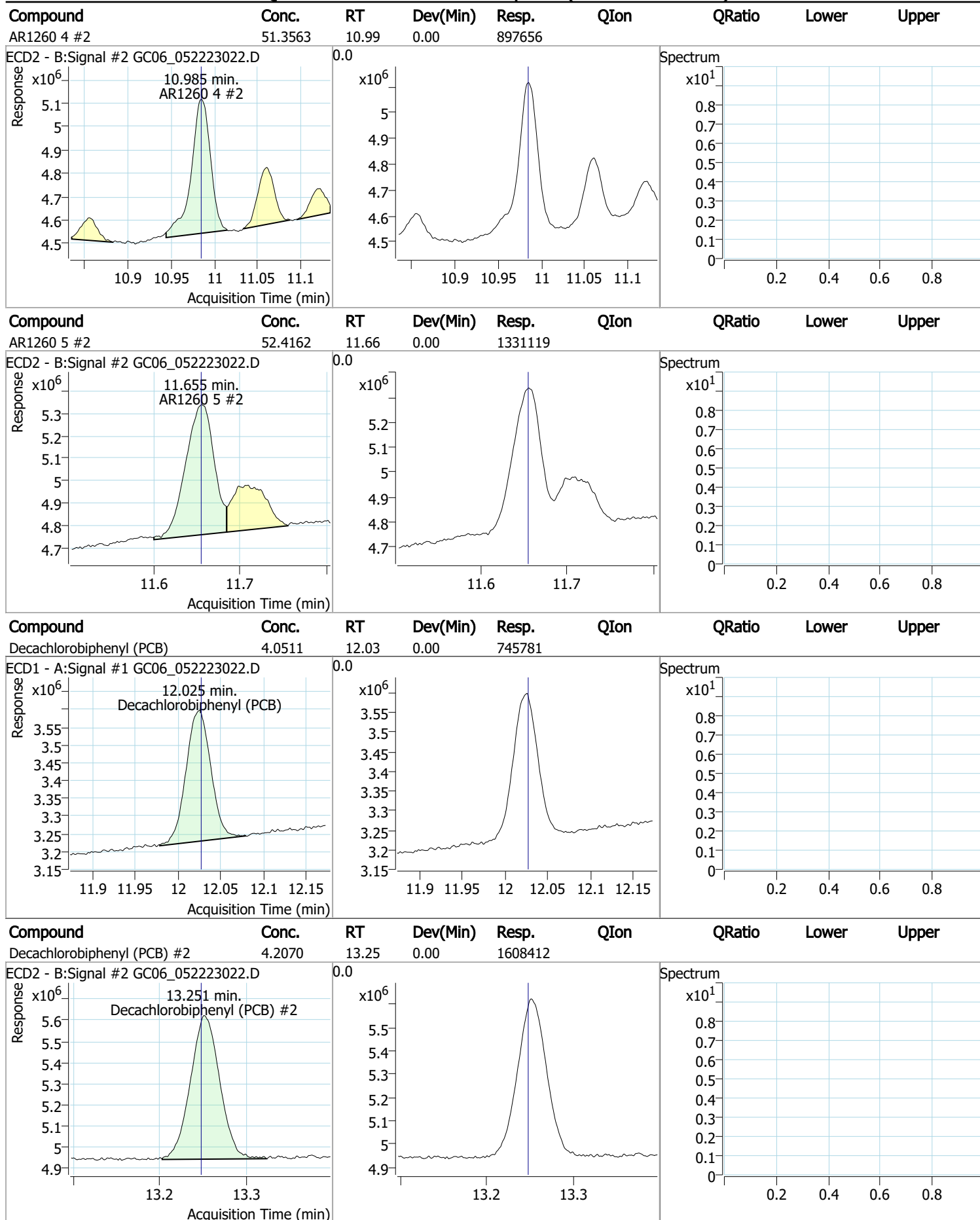
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

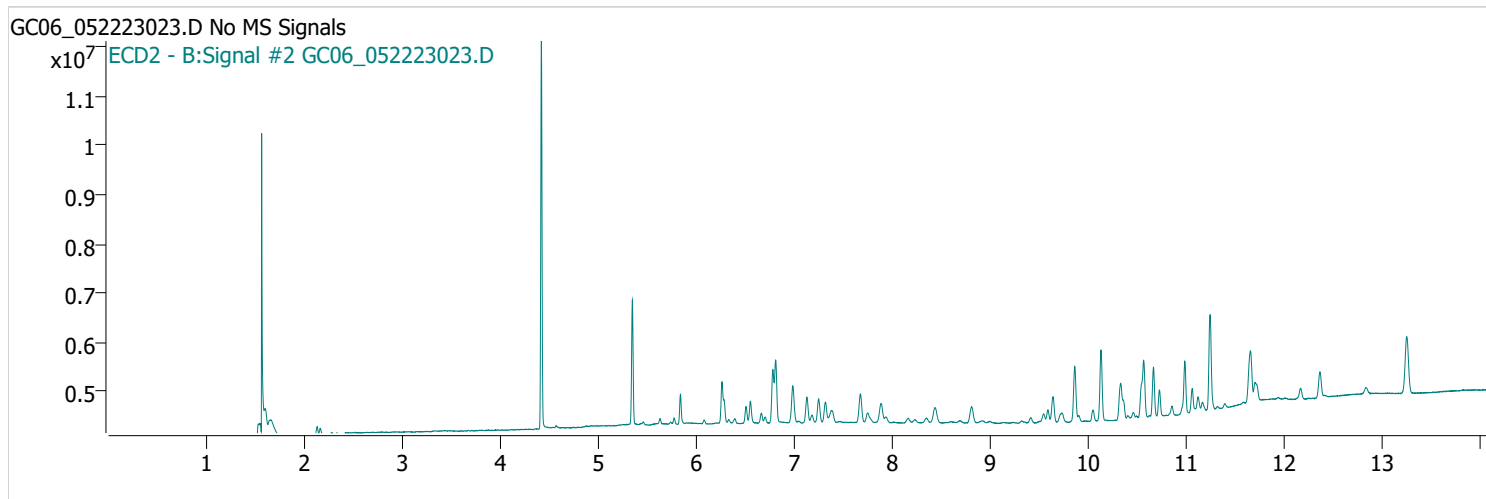
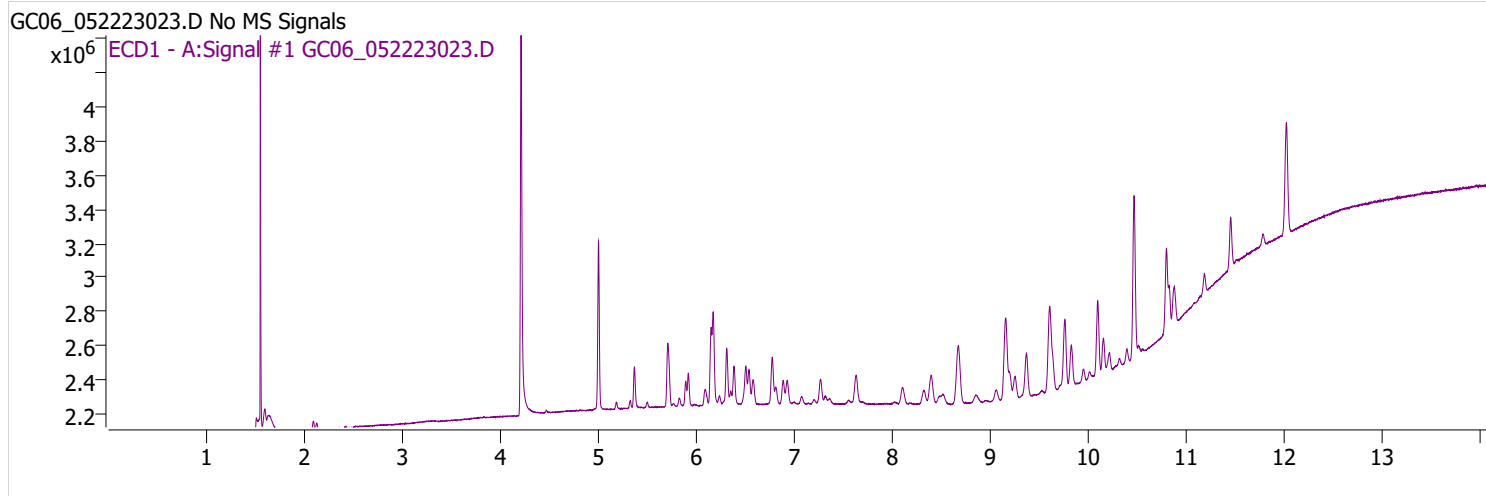


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_052223023.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 9:01:29 PM
Sample Name	ICAL, S18182	Instrument	SVOA-GC06
Vial	14	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.211	0.0	2701215.71 5	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	7163845.60 7	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	5.001	0.0	1100804.57 7	7.6875	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 38.44%	*	
S TCMX (PCB) #2	5.347	0.0	3053531.36 6	8.0585	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.29%	*	
S Decachlorobiphenyl (PCB)	12.022	0.0	1309504.22 5	7.3245	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 36.62%	*	
S Decachlorobiphenyl (PCB) #2	13.250	0.0	2783991.76 5	7.3991	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 37.00%	*	

Target Compounds

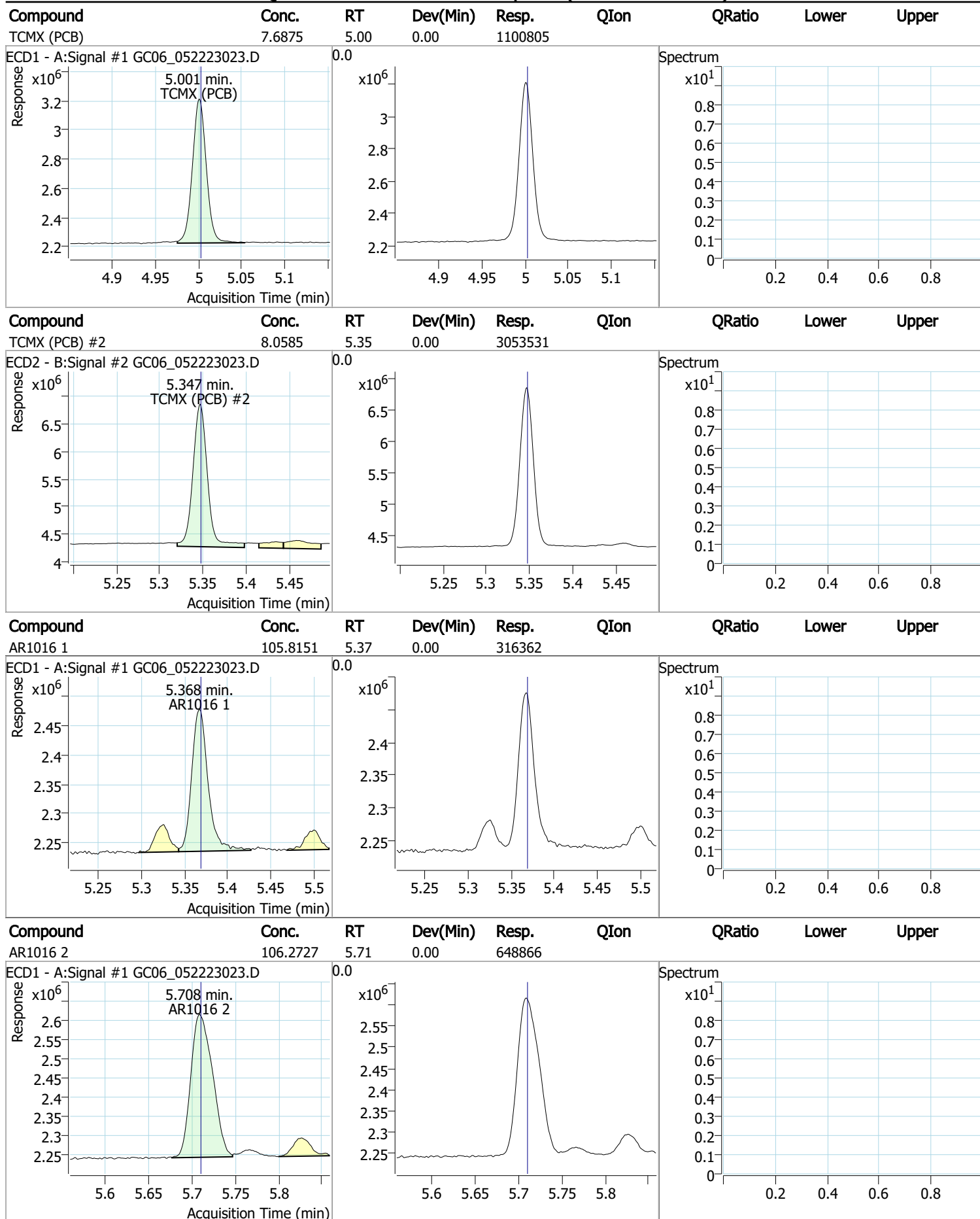
QValue

Quantitation Results Report (Not Reviewed)

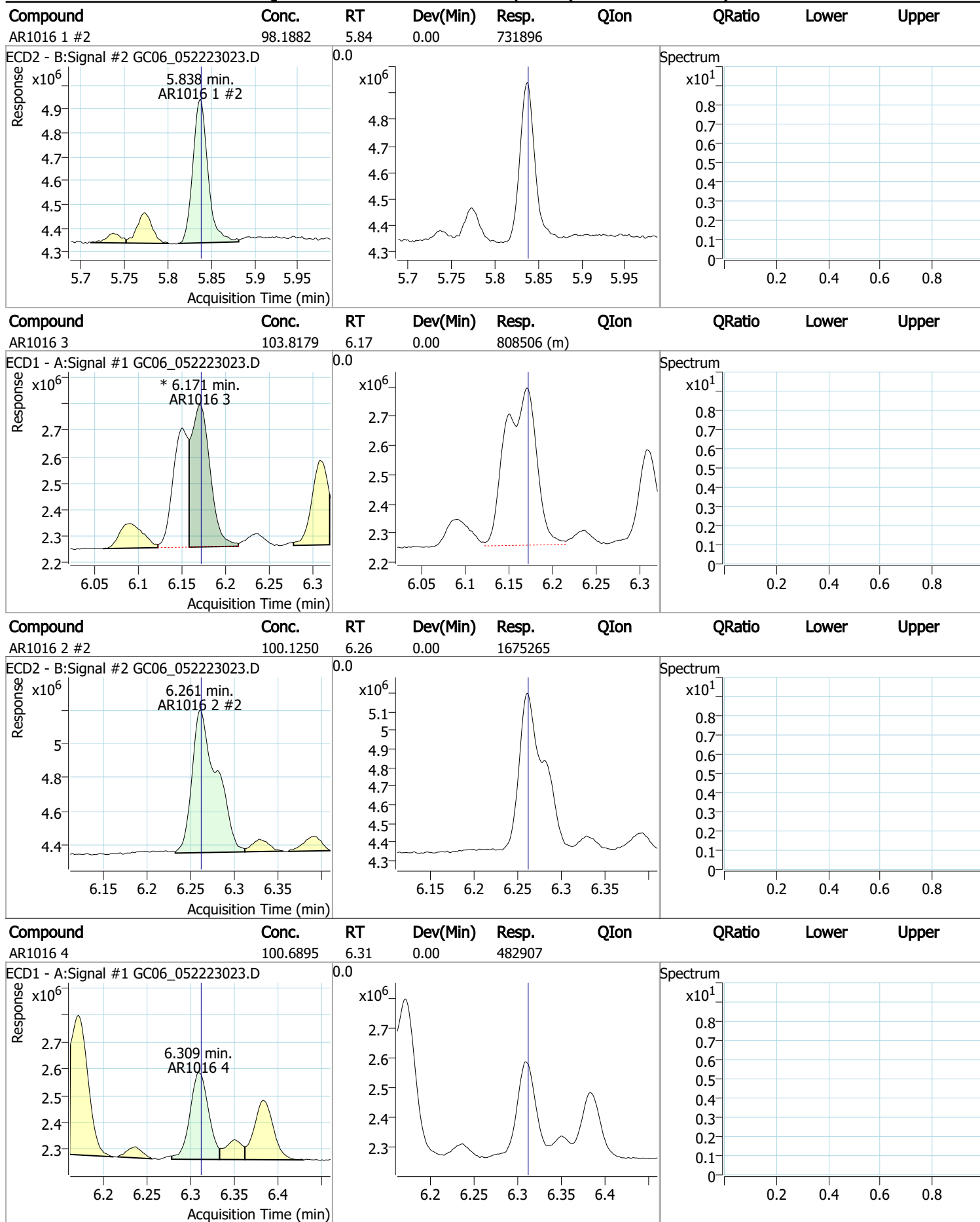
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.368	0.0	316361.803	105.8151	ng/ml	100
T AR1016 2	5.708	0.0	648866.250	106.2727	ng/ml	100
T AR1016 1 #2	5.838	0.0	731895.926	98.1882	ng/ml	100
T AR1016 3	6.171	0.0	808506.117	103.8179	ng/ml	100
T AR1016 2 #2	6.261	0.0	1675264.586	100.1250	ng/ml	100
T AR1016 4	6.309	0.0	482906.788	100.6895	ng/ml	100
T AR1016 5	6.504	0.0	393725.344	110.6099	ng/ml	100
T AR1016 3 #2	6.809	0.0	2055068.366	102.1848	ng/ml	100
T AR1016 4 #2	6.983	0.0	1404765.702	96.8751	ng/ml	100
T AR1016 5 #2	7.248	0.0	789709.444	97.2721	ng/ml	100
T AR1260 1	8.673	0.0	921571.490	103.2405	ng/ml	100
T AR1260 2	9.158	0.0	1385465.649	102.0359	ng/ml	100
T AR1260 3	9.606	0.0	1393398.931	95.7404	ng/ml	100
T AR1260 1 #2	9.862	0.0	1964289.571	96.8037	ng/ml	100
T AR1260 4	10.096	0.0	754869.842	94.8827	ng/ml	100
T AR1260 2 #2	10.129	0.0	2335145.468	101.8200	ng/ml	100
T AR1260 3 #2	10.565	0.0	2740598.241	93.1106	ng/ml	100
T AR1260 5	10.798	0.0	1147089.125	88.6400	ng/ml	100
T AR1260 4 #2	10.985	0.0	1673538.389	97.2878	ng/ml	100
T AR1260 5 #2	11.654	0.0	2478591.421	99.1728	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

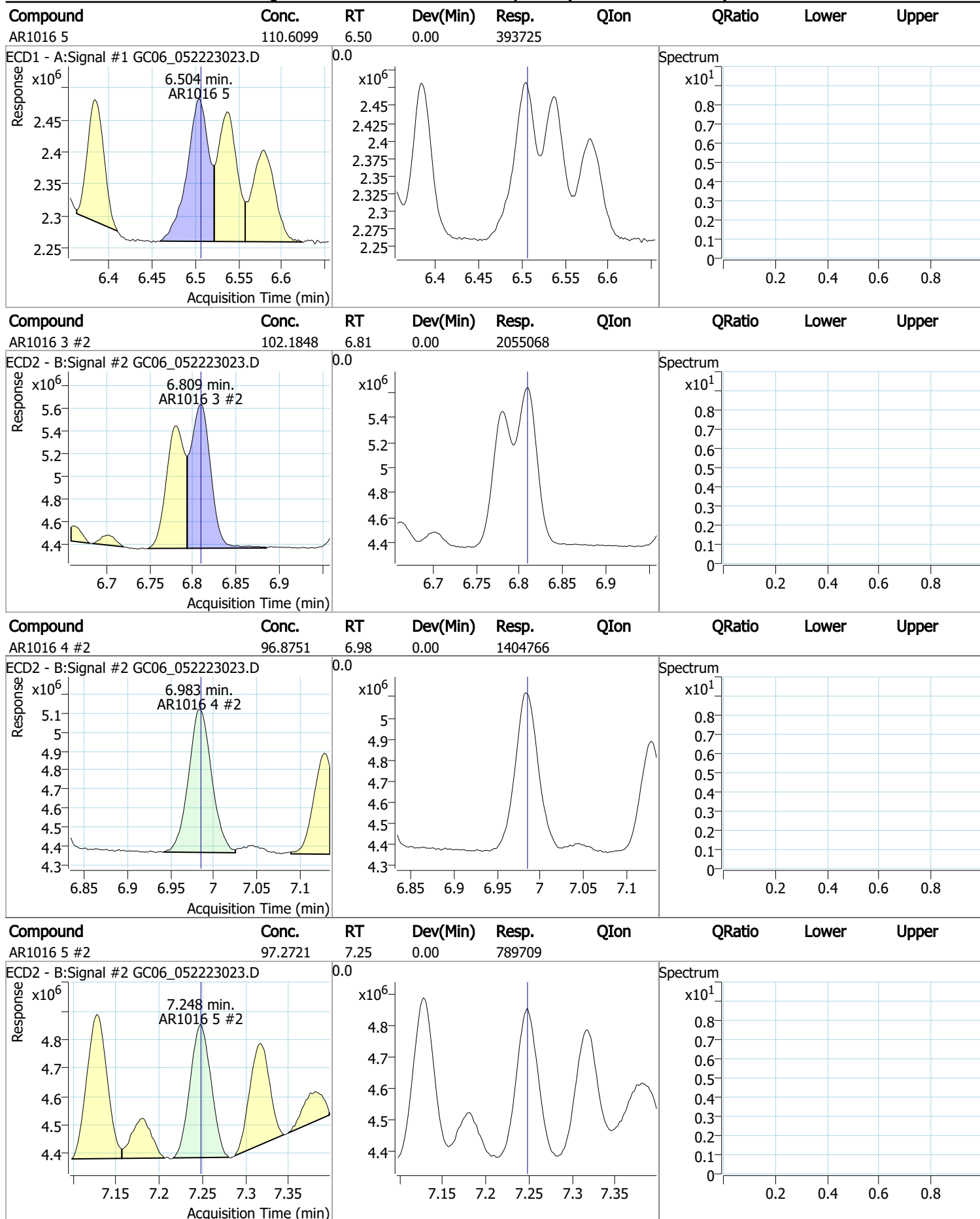
Quantitation Results Report (Not Reviewed)



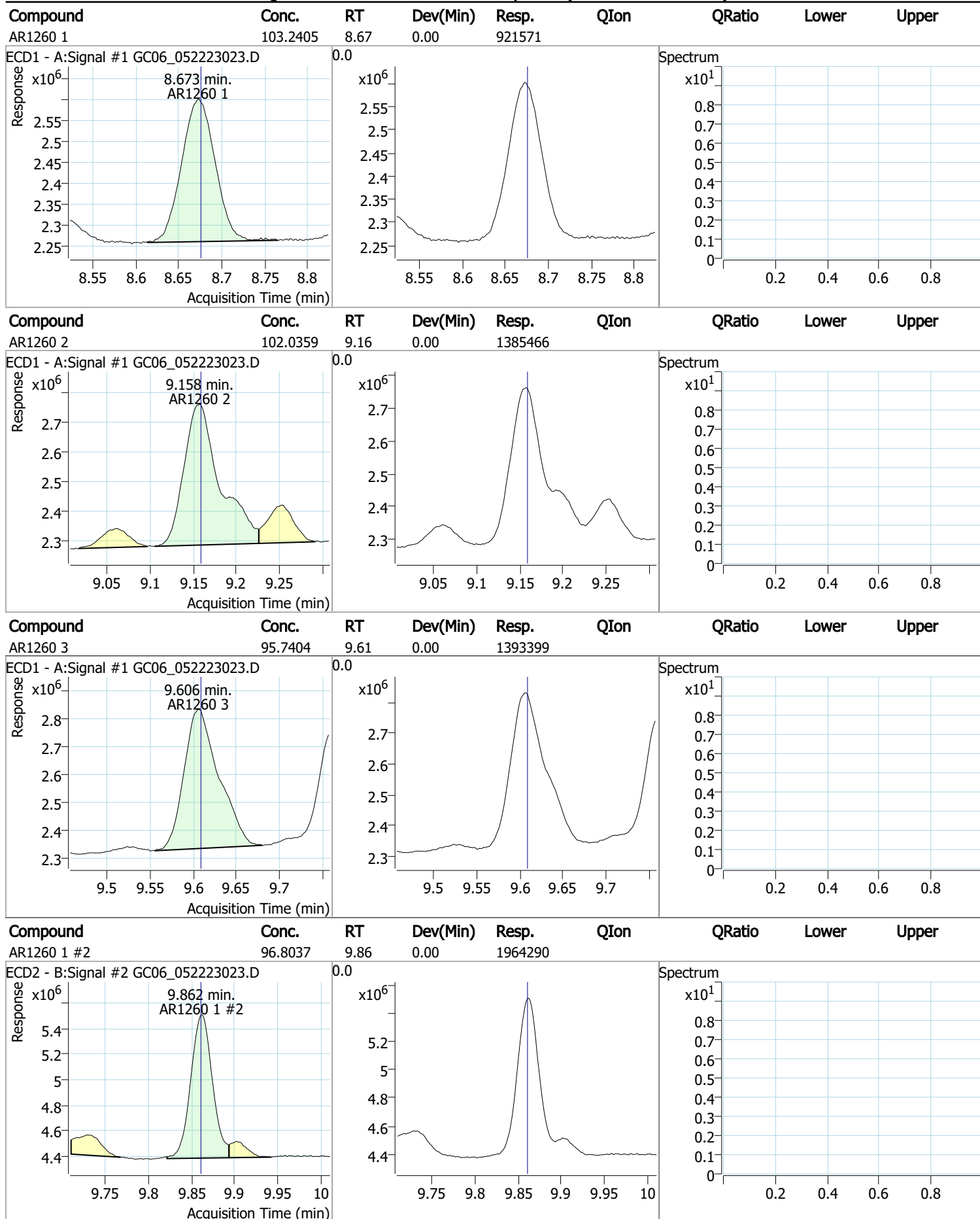
Quantitation Results Report (Not Reviewed)



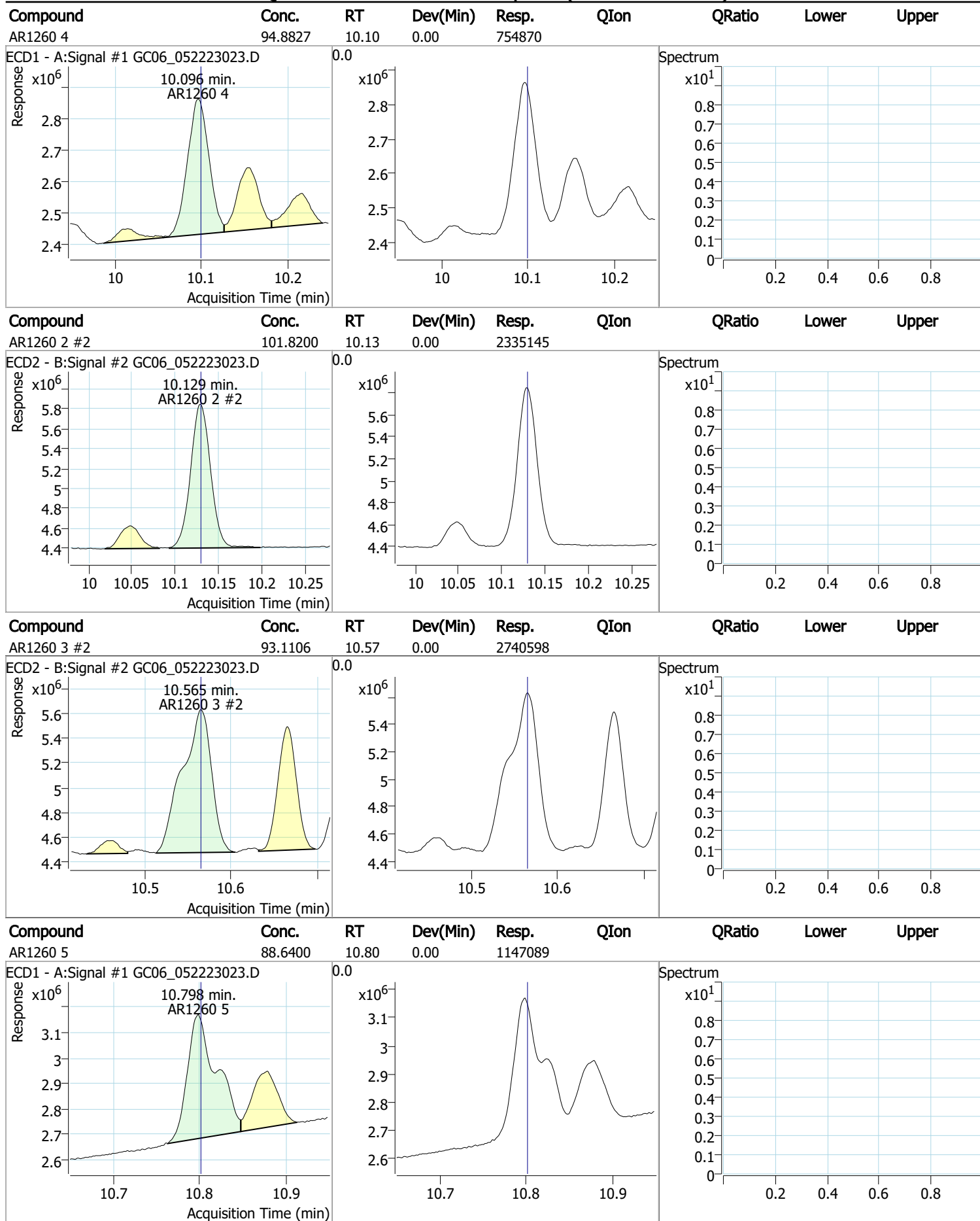
Quantitation Results Report (Not Reviewed)



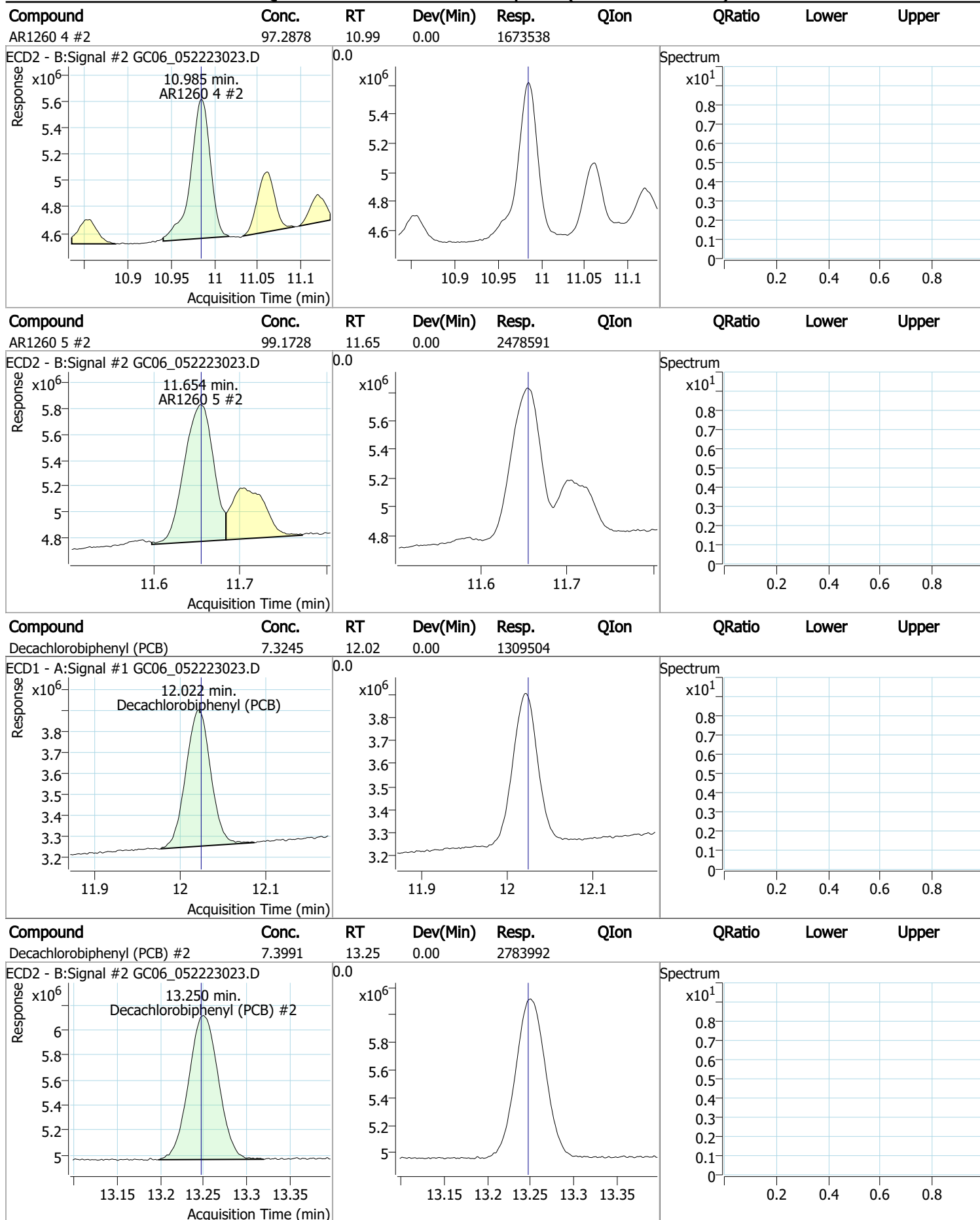
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

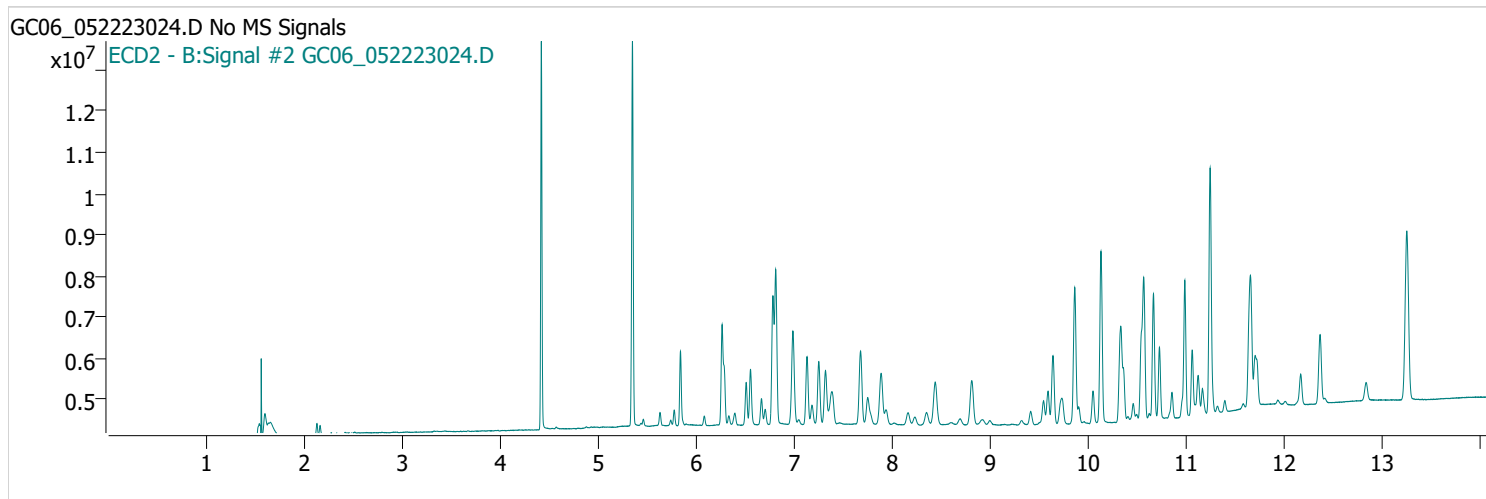
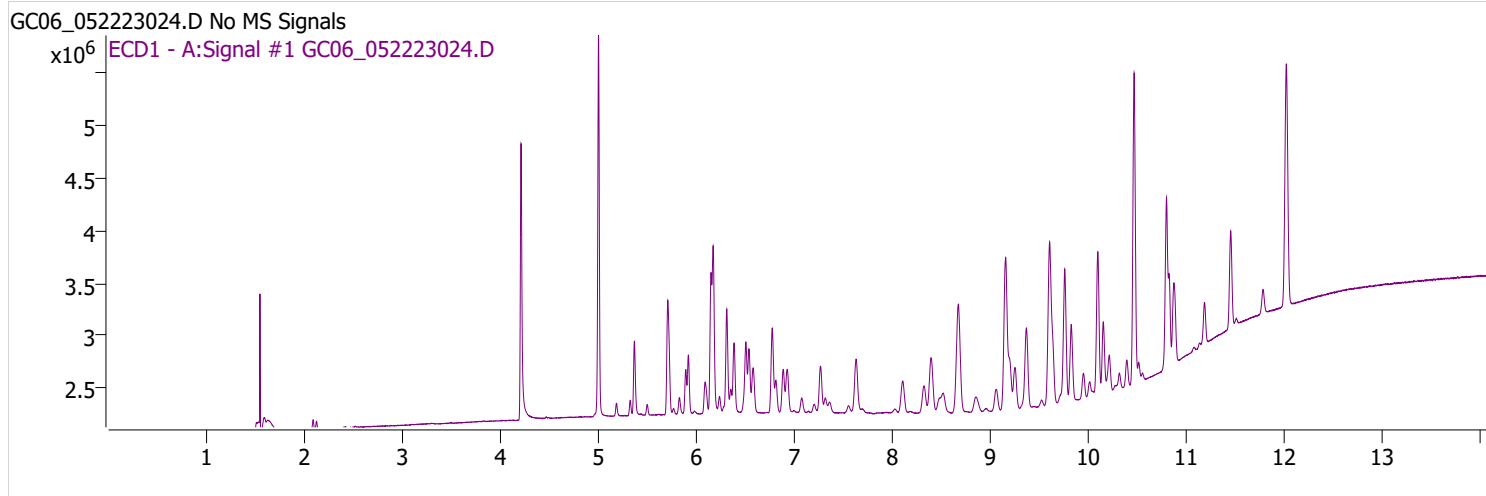


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_052223024.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 9:19:49 PM
Sample Name	ICAL, S18183	Instrument	SVOA-GC06
Vial	15	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.210	0.0	3136143.42 7	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	8348445.36 3	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	5.001	0.0	4044893.27 1	24.3303	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 121.65%		
S TCMX (PCB) #2	5.348	0.0	10185652.5 33	23.0664	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 115.33%		
S Decachlorobiphenyl (PCB)	12.021	0.0	4744254.84 7	22.8562	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 114.28%		
S Decachlorobiphenyl (PCB) #2	13.251	0.0	10006446.5 61	22.8209	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 114.10%		

Target Compounds

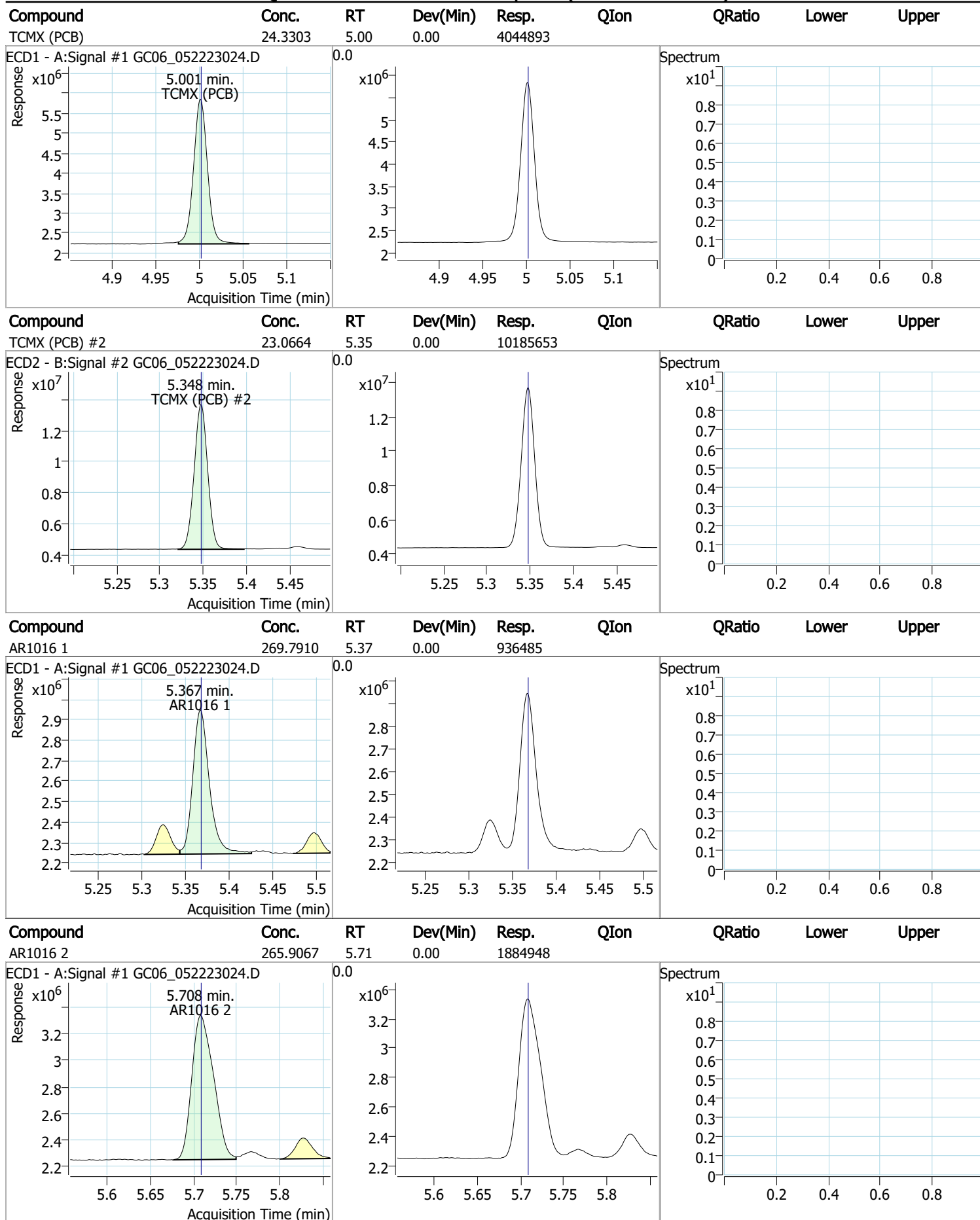
QValue

Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.367	0.0	936484.508	269.7910	ng/ml	100
T AR1016 2	5.708	0.0	1884947.854	265.9067	ng/ml	100
T AR1016 1 #2	5.838	0.0	2238072.148	257.6467	ng/ml	100
T AR1016 3	6.171	0.0	2399825.850	265.4190	ng/ml m	100
T AR1016 2 #2	6.263	0.0	4915000.875	252.0712	ng/ml	100
T AR1016 4	6.310	0.0	1451202.229	260.6226	ng/ml	100
T AR1016 5	6.504	0.0	1122667.609	271.6534	ng/ml	100
T AR1016 3 #2	6.809	0.0	6155247.343	262.6312	ng/ml	100
T AR1016 4 #2	6.985	0.0	4346212.881	257.1933	ng/ml	100
T AR1016 5 #2	7.249	0.0	2507043.778	264.9863	ng/ml	100
T AR1260 1	8.673	0.0	2777992.308	268.0497	ng/ml	100
T AR1260 2	9.157	0.0	4275197.530	271.1918	ng/ml	100
T AR1260 3	9.605	0.0	4289839.545	253.8774	ng/ml	100
T AR1260 1 #2	9.862	0.0	6044954.821	255.6348	ng/ml	100
T AR1260 4	10.097	0.0	2431958.450	263.2901	ng/ml	100
T AR1260 2 #2	10.129	0.0	7114255.728	266.1884	ng/ml	100
T AR1260 3 #2	10.565	0.0	8510147.506	248.1026	ng/ml	100
T AR1260 5	10.798	0.0	3929741.042	261.5532	ng/ml	100
T AR1260 4 #2	10.985	0.0	5124485.687	255.6312	ng/ml	100
T AR1260 5 #2	11.654	0.0	7656893.369	262.8942	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

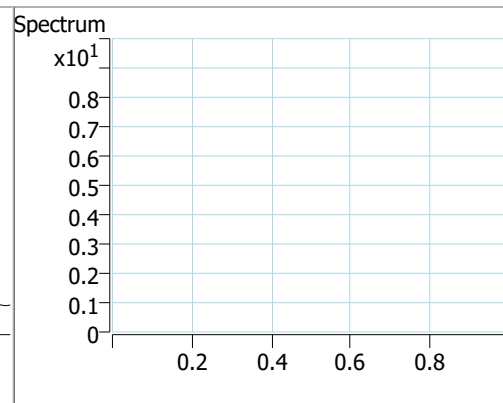
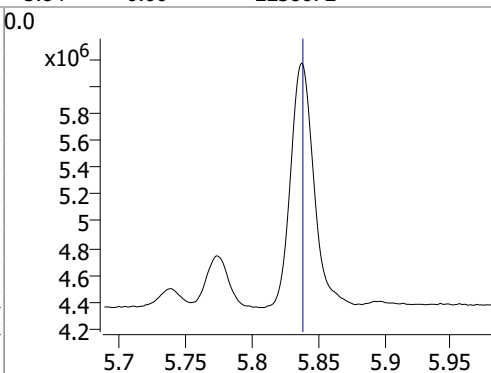
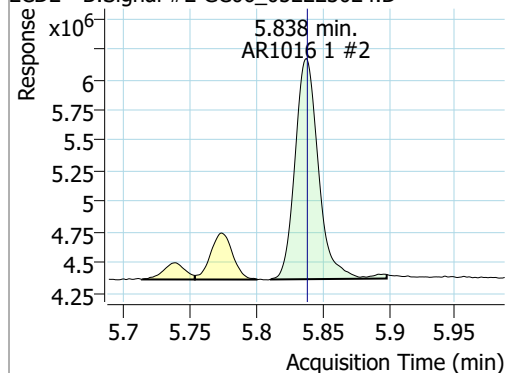


Quantitation Results Report (Not Reviewed)

Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 1 #2 257.6467 5.84 0.00 2238072

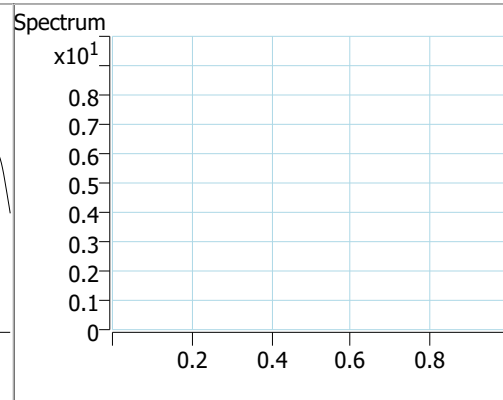
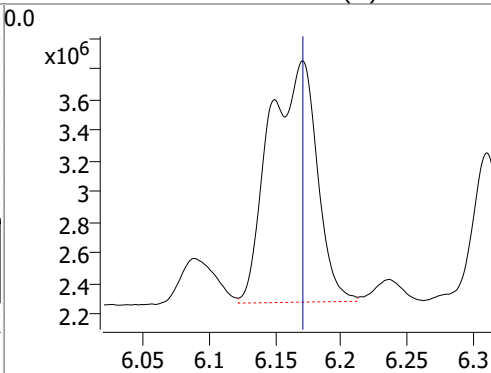
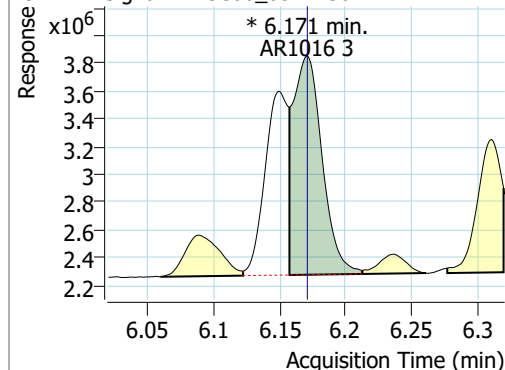
ECD2 - B:Signal #2 GC06_052223024.D



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 3 265.4190 6.17 0.00 2399826 (m)

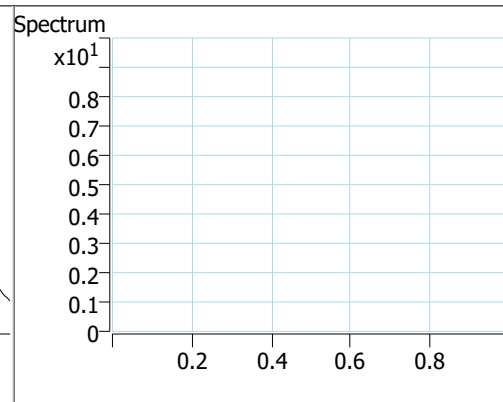
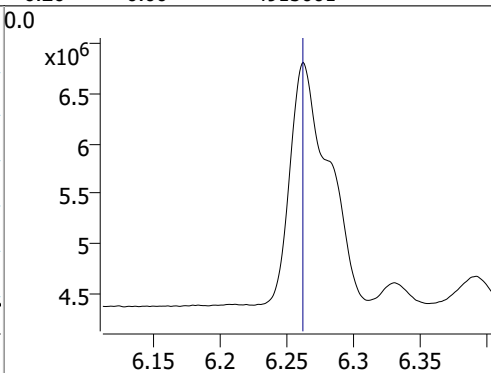
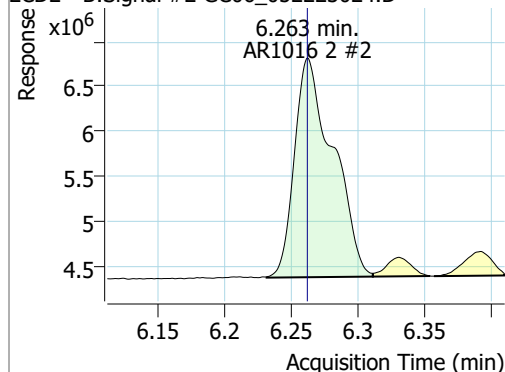
ECD1 - A:Signal #1 GC06_052223024.D



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 2 #2 252.0712 6.26 0.00 4915001

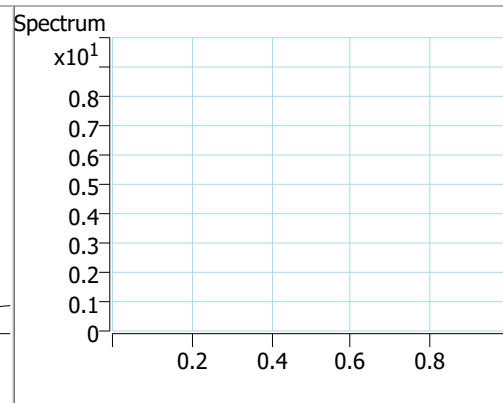
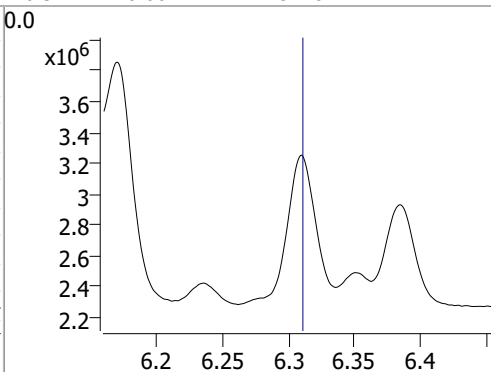
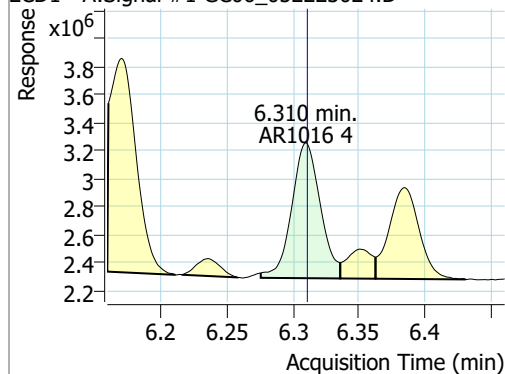
ECD2 - B:Signal #2 GC06_052223024.D



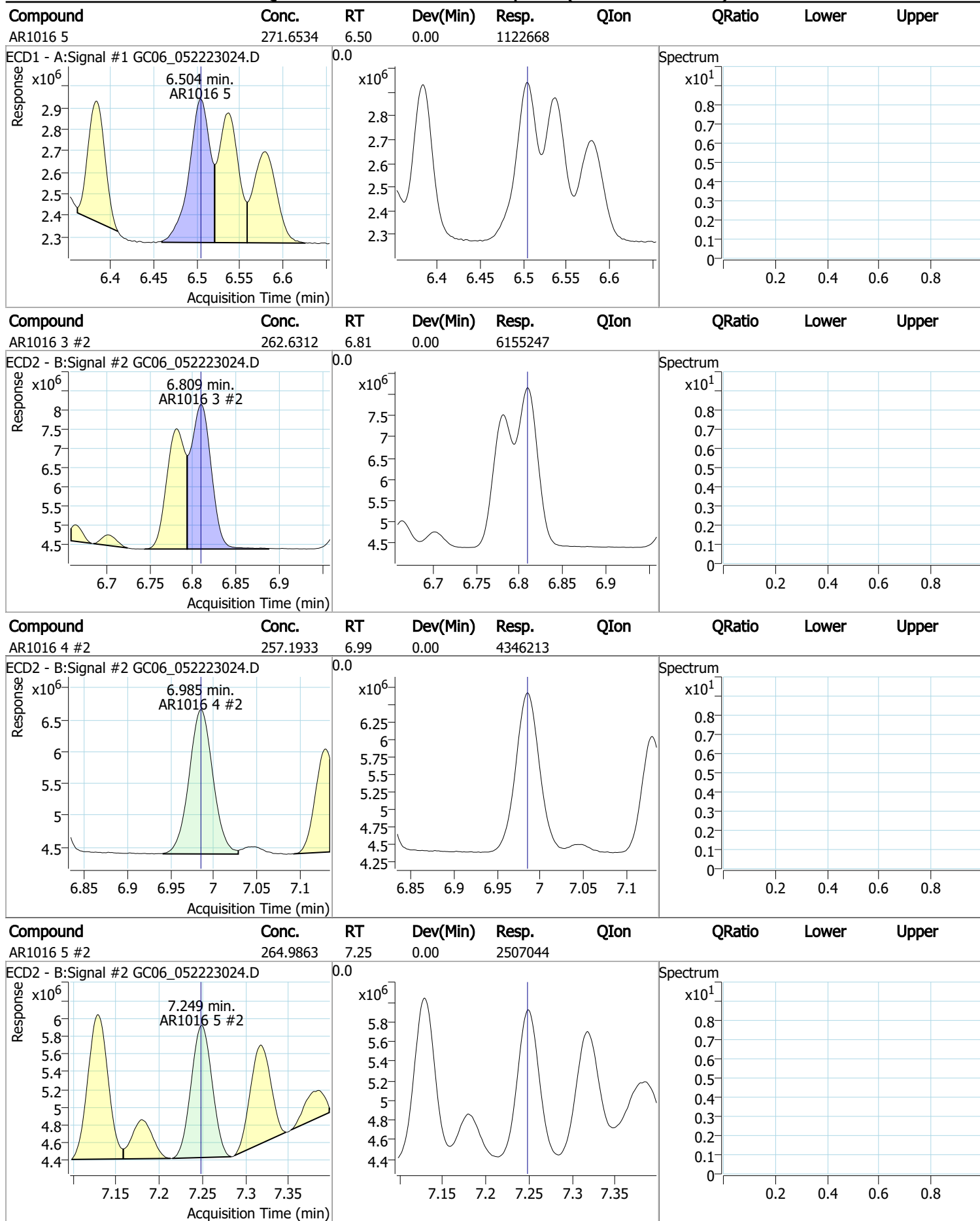
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
----------	-------	----	----------	-------	------	--------	-------	-------

AR1016 4 260.6226 6.31 0.00 1451202

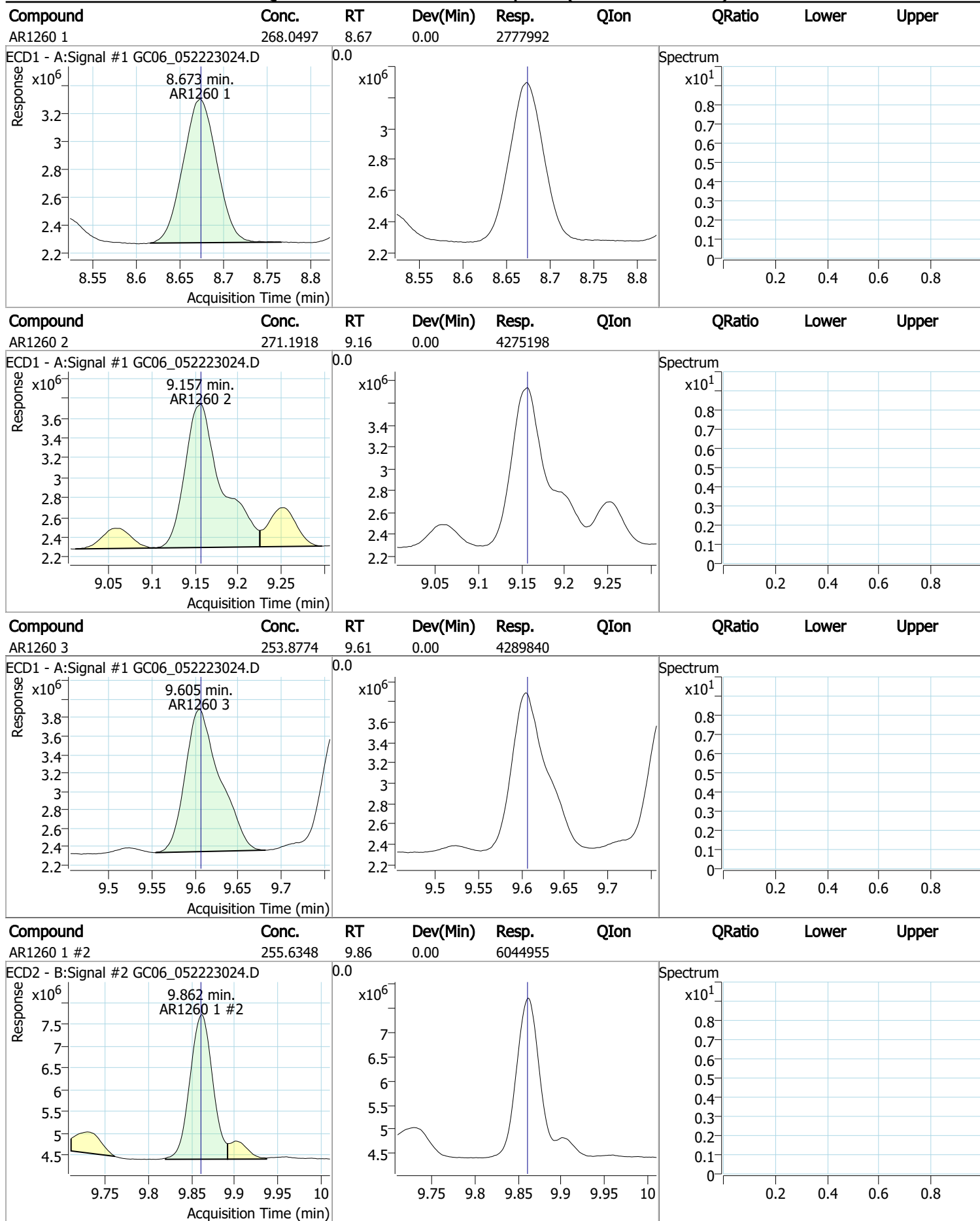
ECD1 - A:Signal #1 GC06_052223024.D



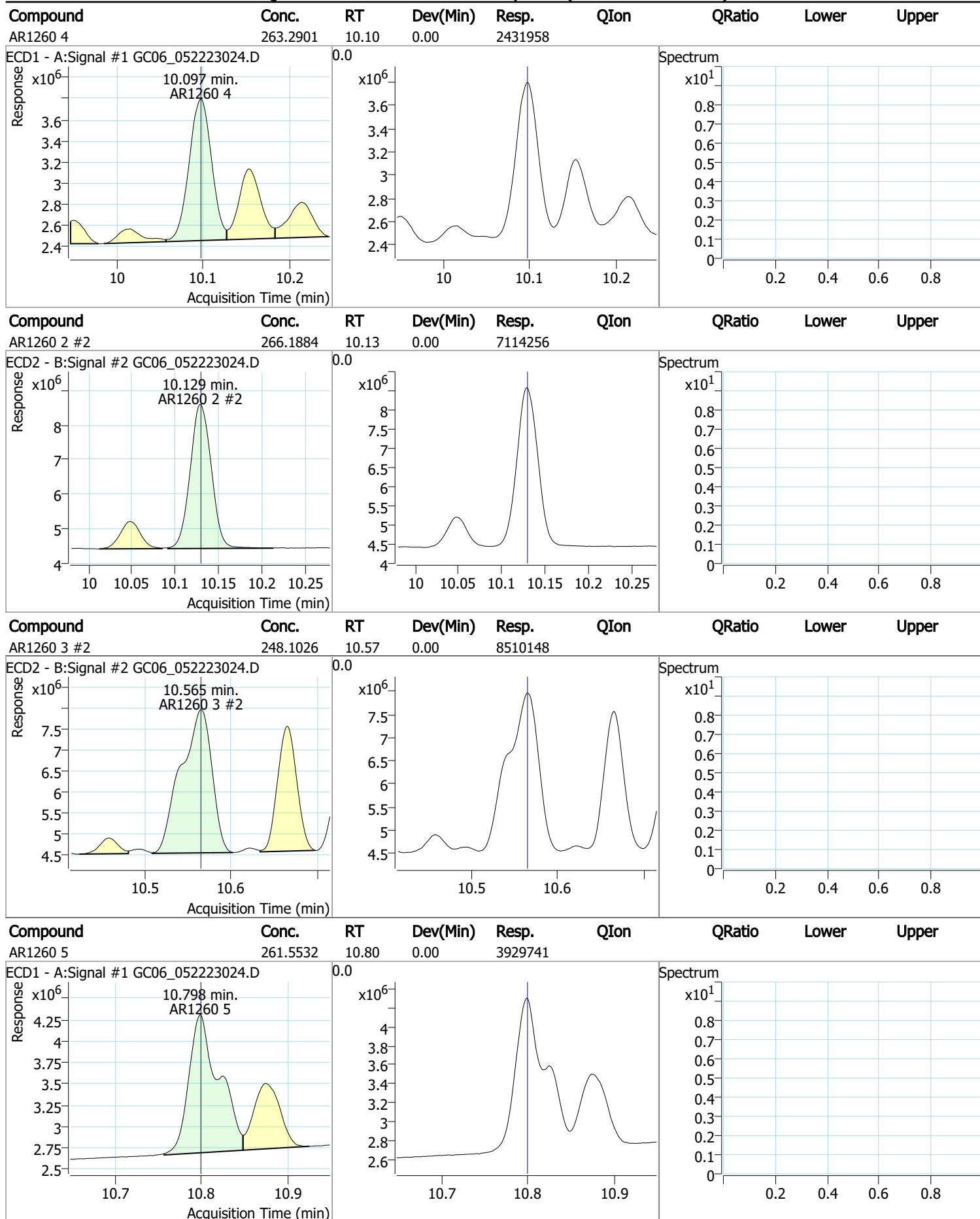
Quantitation Results Report (Not Reviewed)



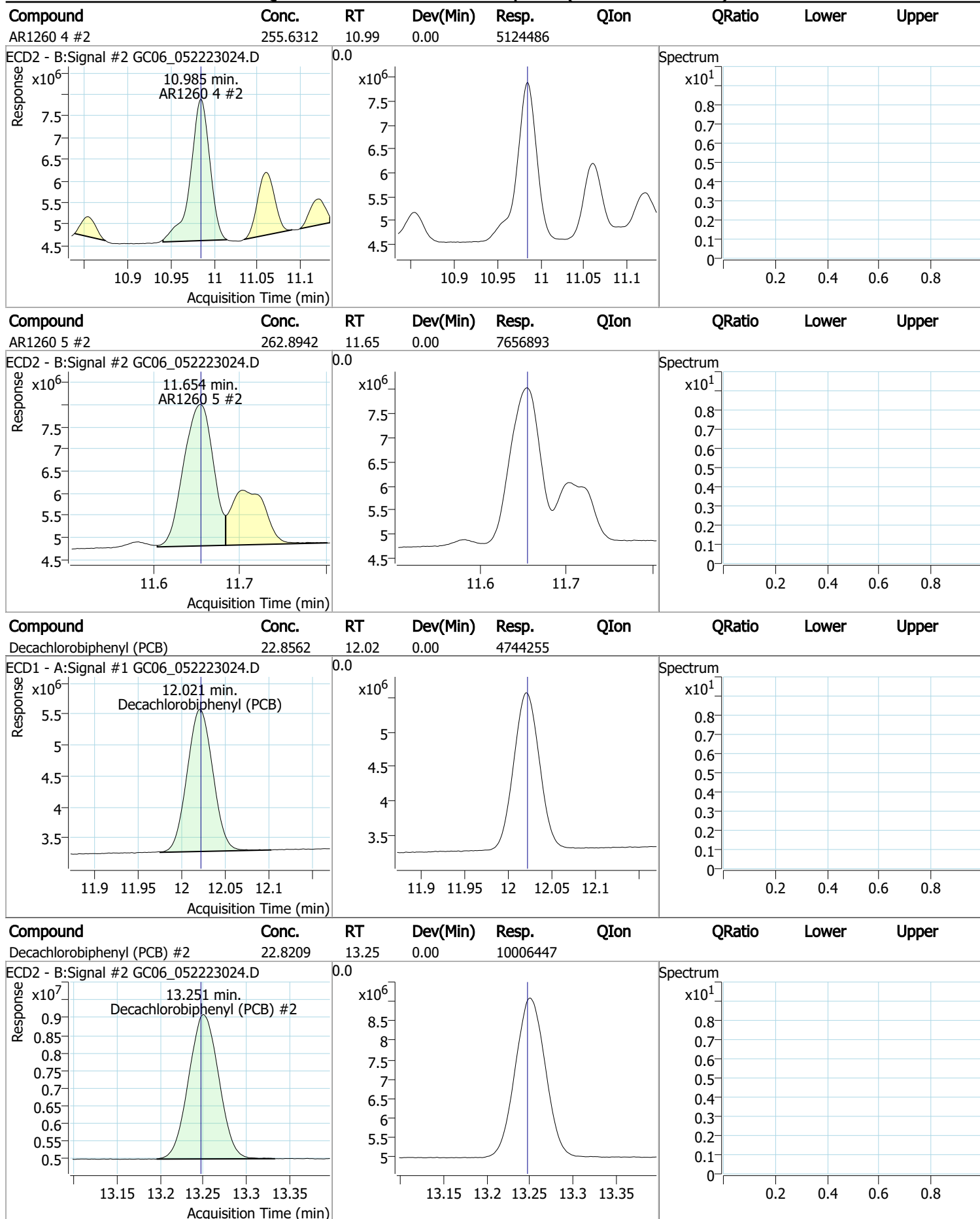
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

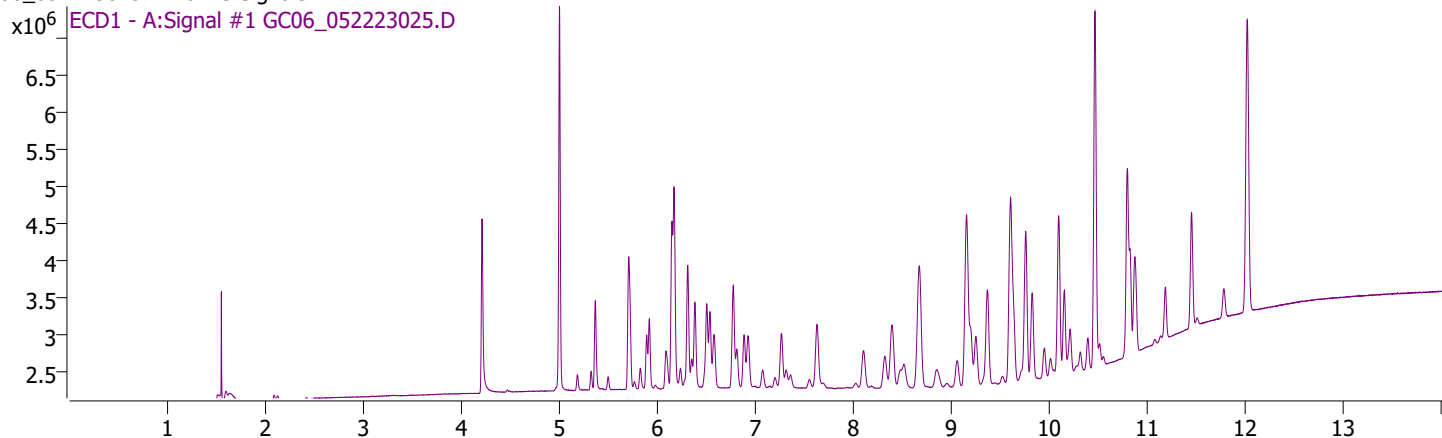


Quantitation Results Report (Not Reviewed)

Data File	GC06_052223025.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 9:38:04 PM
Sample Name	ICAL, S18184	Instrument	SVOA-GC06
Vial	16	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			

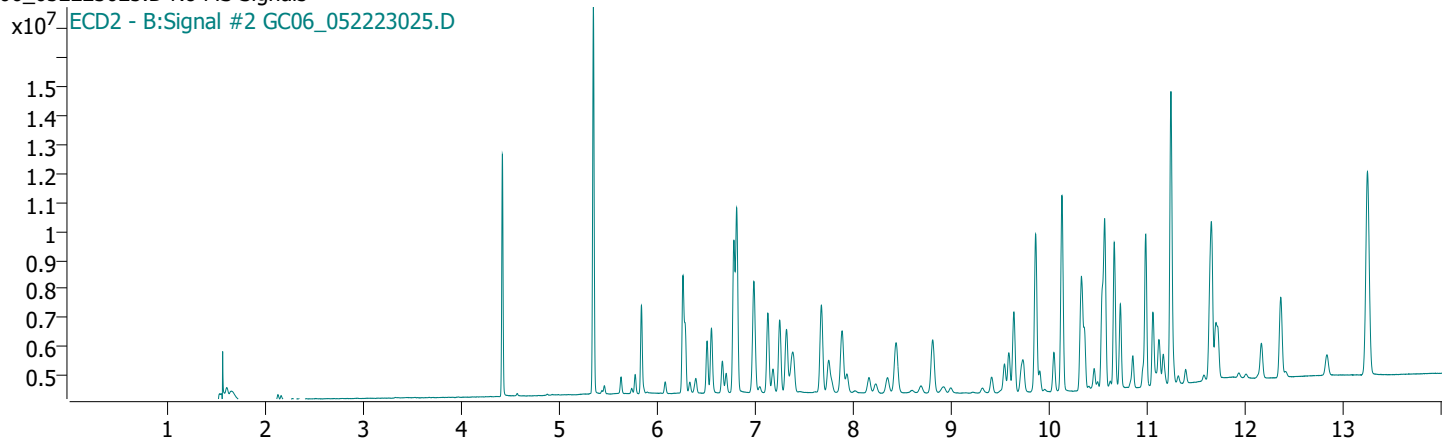
GC06_052223025.D No MS Signals

x10⁶ ECD1 - A:Signal #1 GC06_052223025.D



GC06_052223025.D No MS Signals

x10⁷ ECD2 - B:Signal #2 GC06_052223025.D



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.210	0.0	2909160.850	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	7736690.508	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	5.001	0.0	5698436.221	36.9508	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 184.75%	*	
S TCMX (PCB) #2	5.347	0.0	14422780.515	35.2444	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 176.22%	*	
S Decachlorobiphenyl (PCB)	12.021	0.0	8235314.071	42.7706	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 213.85%	*	
S Decachlorobiphenyl (PCB) #2	13.248	0.0	17429121.972	42.8923	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 214.46%	*	

Target Compounds

QValue

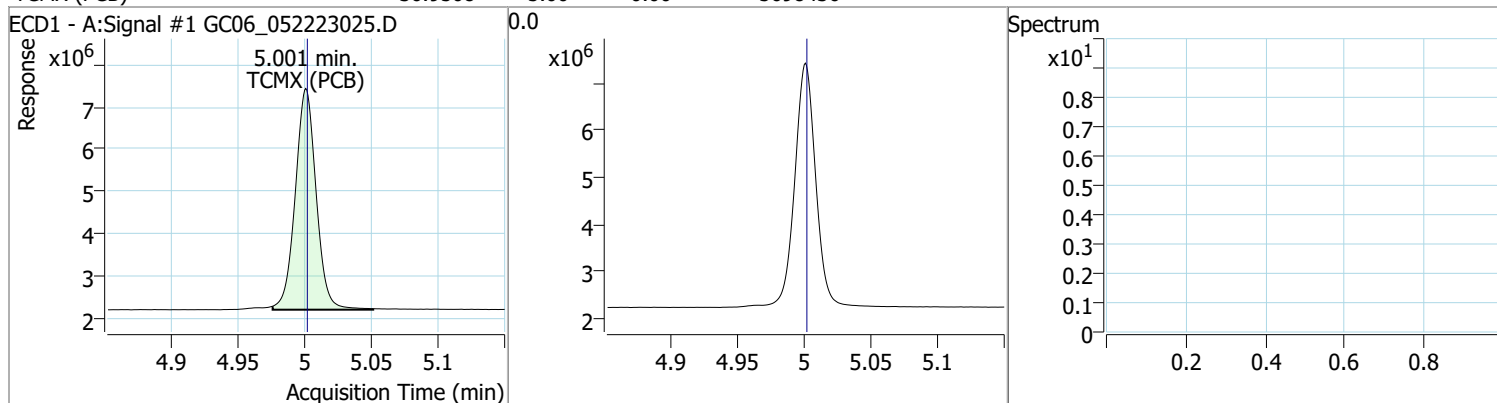
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.367	0.0	1587697.38 1	493.0862	ng/ml	100
T AR1016 2	5.708	0.0	3194236.38 5	485.7638	ng/ml	100
T AR1016 1 #2	5.838	0.0	3863996.18 3	479.9959	ng/ml	100
T AR1016 3	6.170	0.0	4069268.05 4	485.1731	ng/ml m	100
T AR1016 2 #2	6.262	0.0	8381400.78 3	463.8384	ng/ml	100
T AR1016 4	6.310	0.0	2478271.10 2	479.8010	ng/ml	100
T AR1016 5	6.504	0.0	1917743.49 8	500.2449	ng/ml	100
T AR1016 3 #2	6.809	0.0	10472814.8 79	482.1860	ng/ml	100
T AR1016 4 #2	6.985	0.0	7430722.95 1	474.4934	ng/ml	100
T AR1016 5 #2	7.248	0.0	4251602.20 1	484.9138	ng/ml	100
T AR1260 1	8.673	0.0	4542854.82 9	472.5429	ng/ml	100
T AR1260 2	9.156	0.0	6987477.53 9	477.8252	ng/ml	100
T AR1260 3	9.606	0.0	7059312.16 9	450.3742	ng/ml	100
T AR1260 1 #2	9.861	0.0	10000980.9 37	456.3729	ng/ml	100
T AR1260 4	10.096	0.0	4024736.51 9	469.7254	ng/ml	100
T AR1260 2 #2	10.130	0.0	11654142.7 26	470.5333	ng/ml	100
T AR1260 3 #2	10.565	0.0	14145764.8 22	445.0113	ng/ml	100
T AR1260 5	10.798	0.0	6496936.82 3	466.1577	ng/ml	100
T AR1260 4 #2	10.985	0.0	8664032.98 5	466.3736	ng/ml	100
T AR1260 5 #2	11.655	0.0	12665086.6 08	469.2312	ng/ml	100

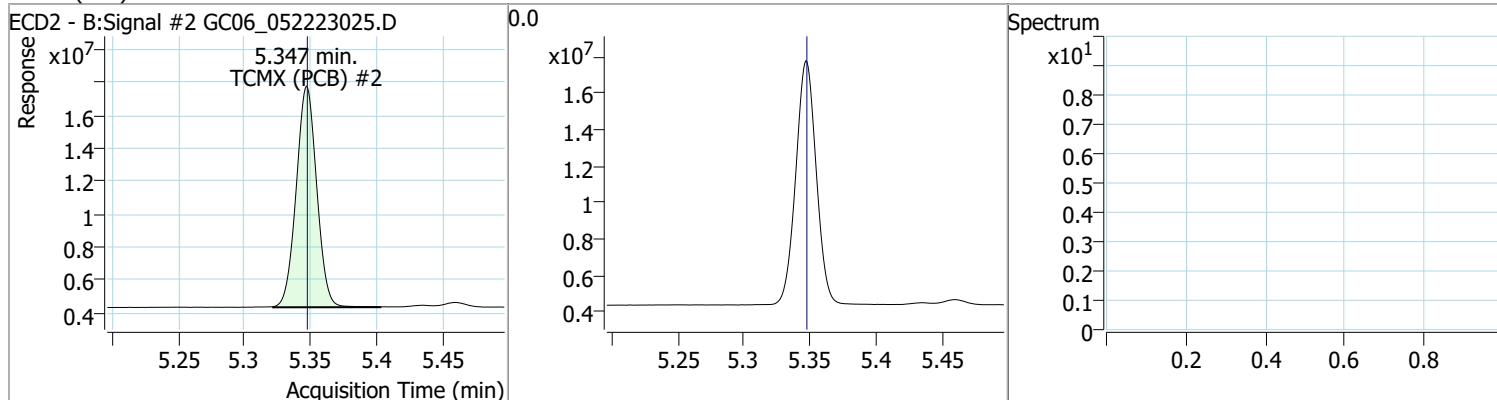
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

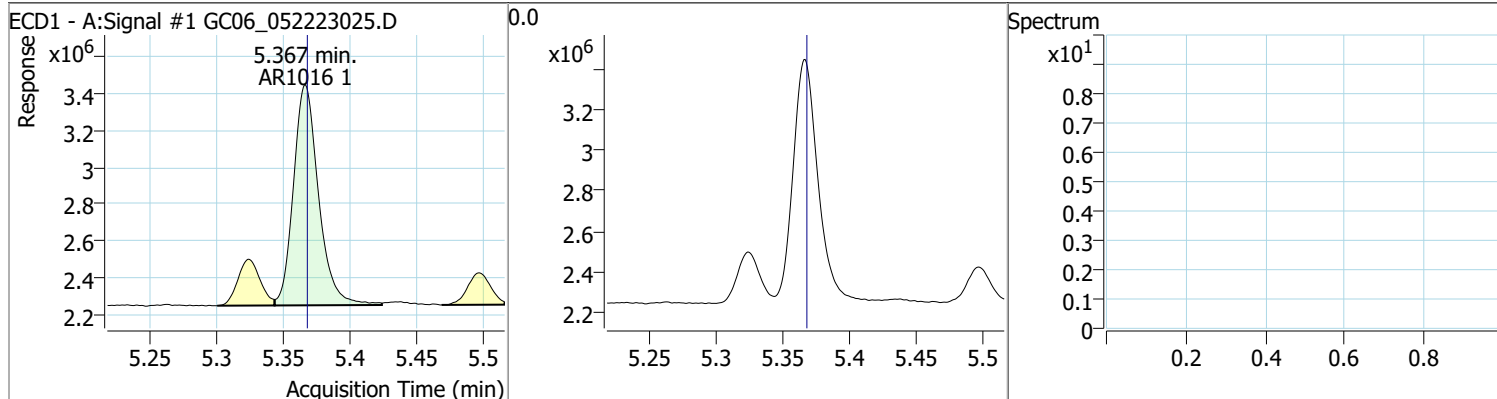
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	36.9508	5.00	0.00	5698436				



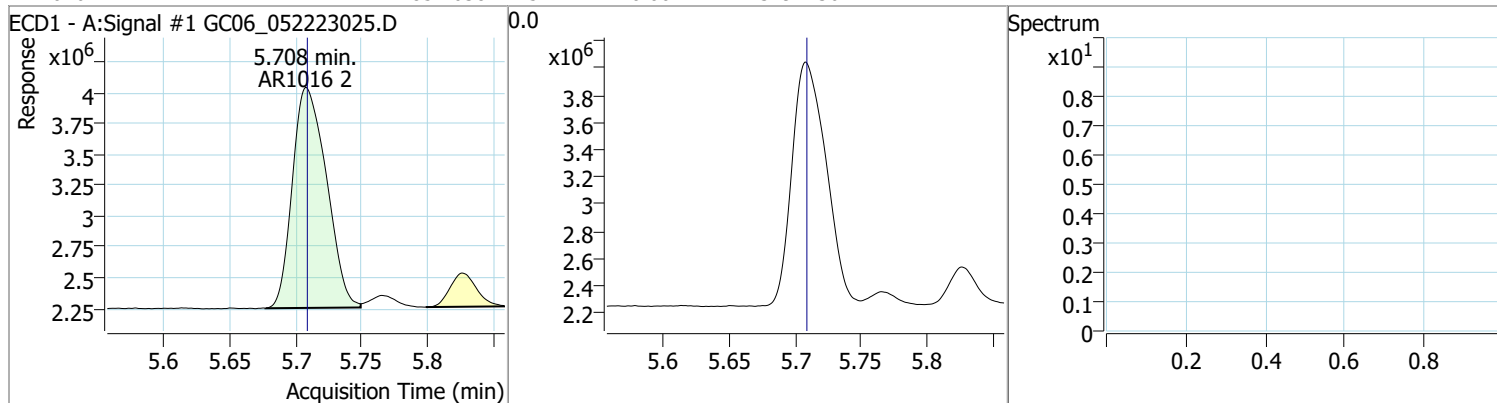
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	35.2444	5.35	0.00	14422781				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	493.0862	5.37	0.00	1587697				

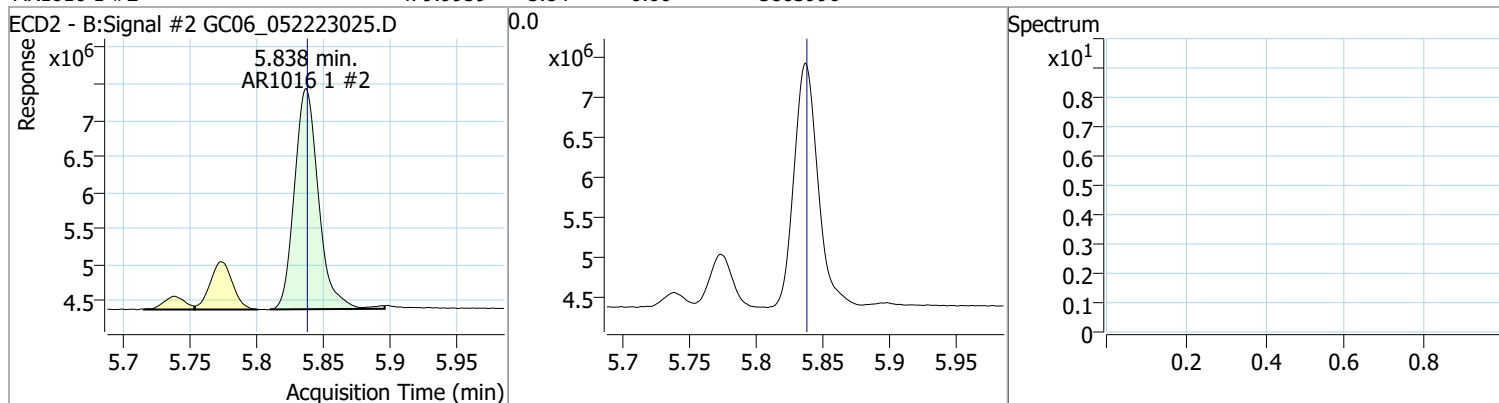


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	485.7638	5.71	0.00	3194236				

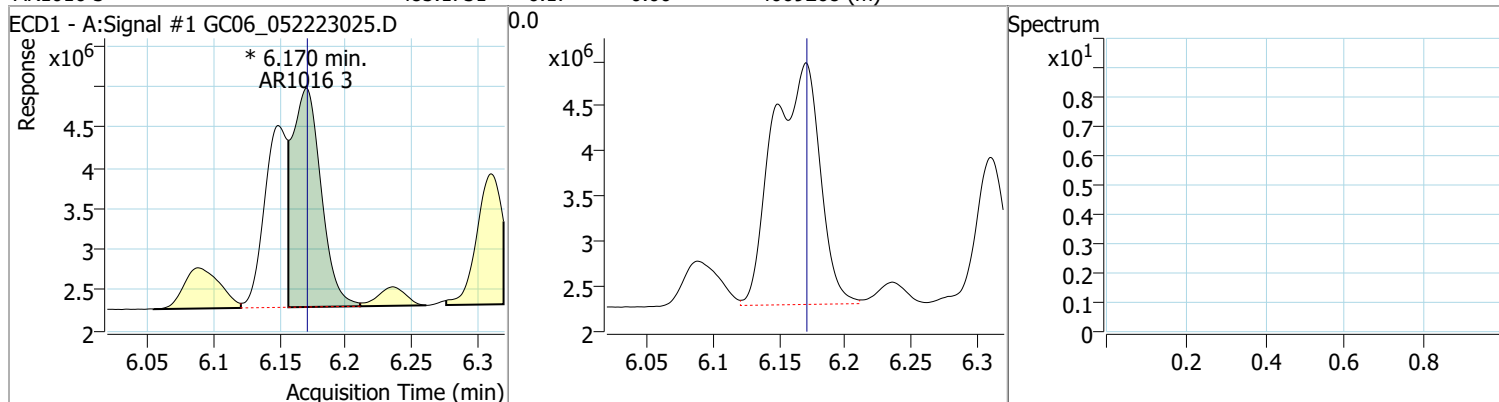


Quantitation Results Report (Not Reviewed)

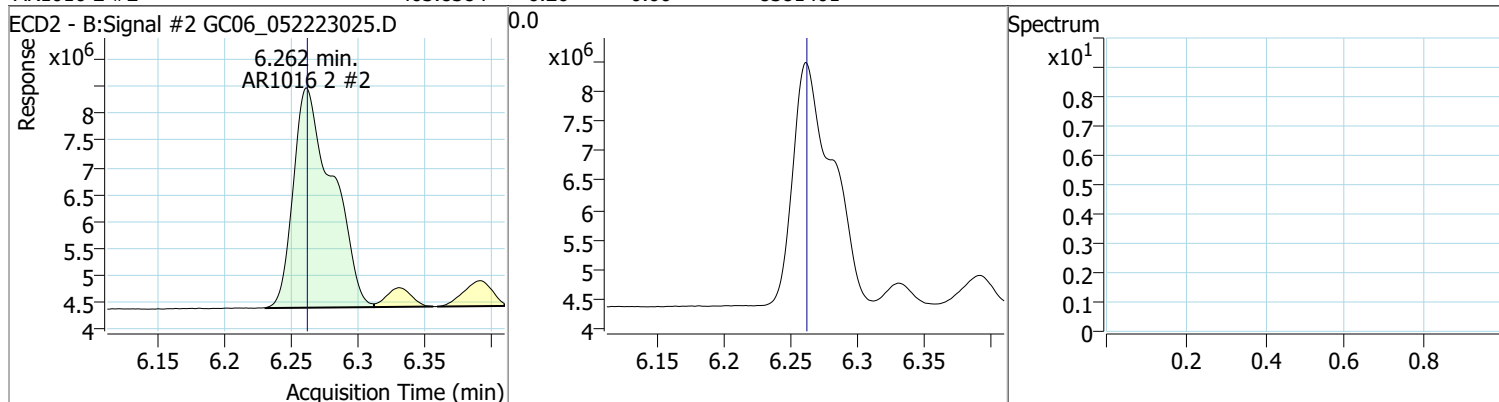
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	479.9959	5.84	0.00	3863996				



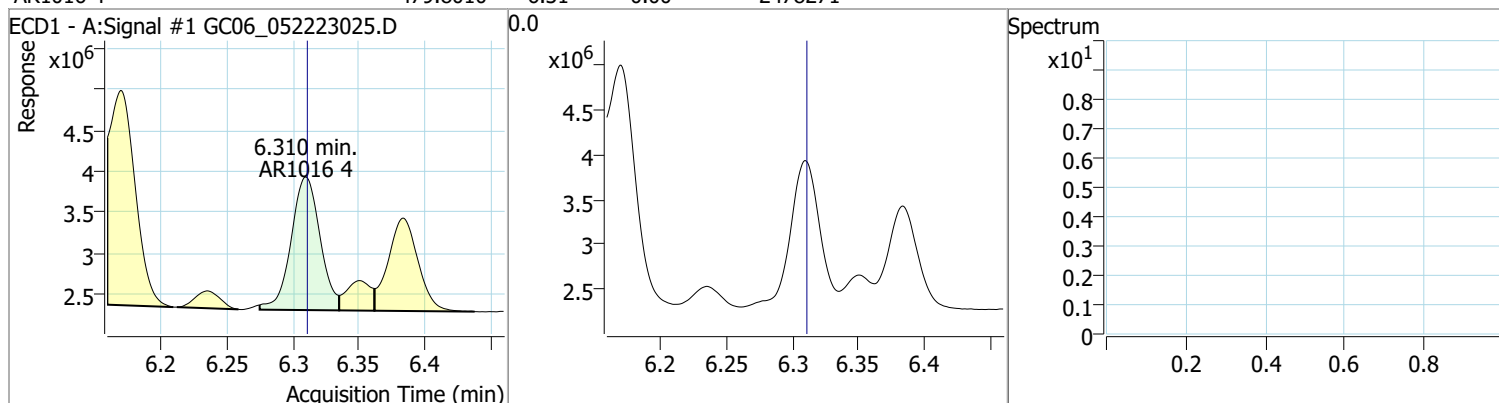
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	485.1731	6.17	0.00	4069268 (m)				



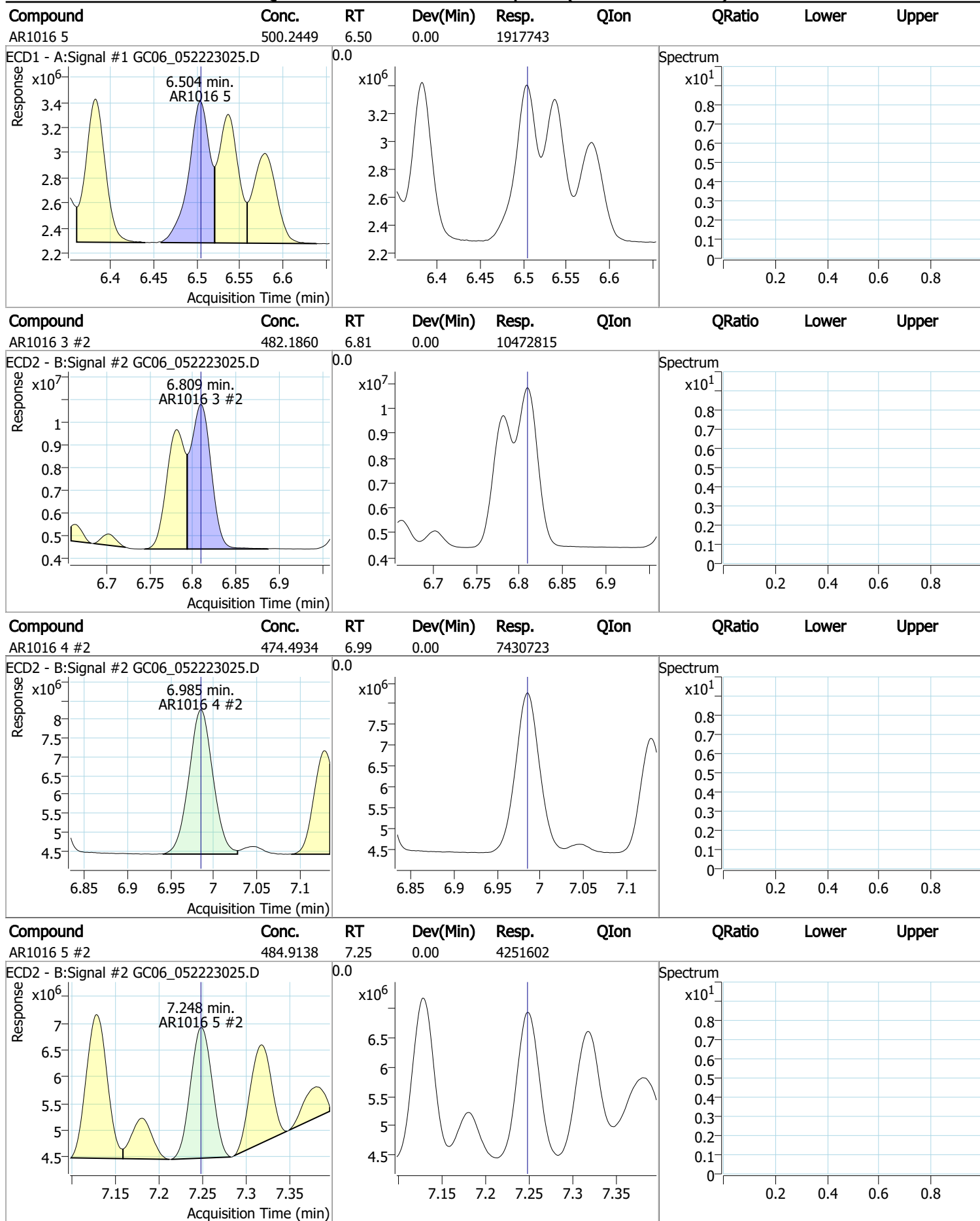
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	463.8384	6.26	0.00	8381401				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	479.8010	6.31	0.00	2478271				

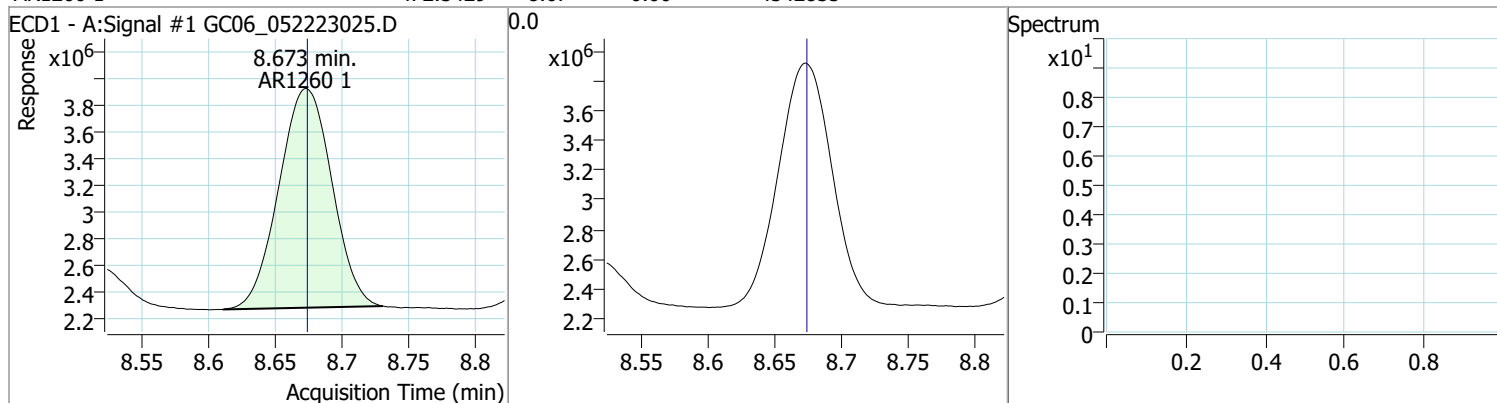


Quantitation Results Report (Not Reviewed)

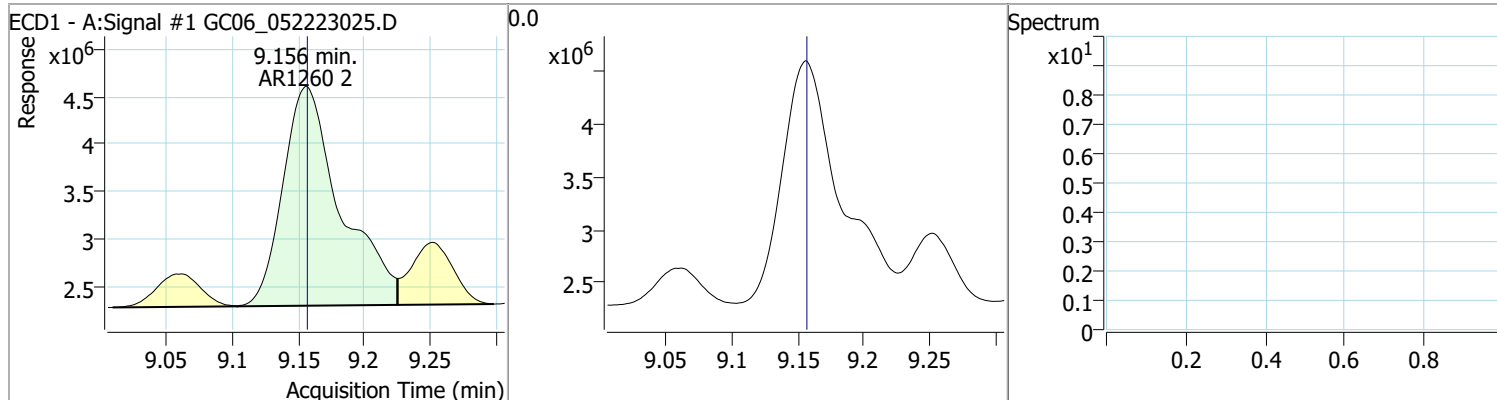


Quantitation Results Report (Not Reviewed)

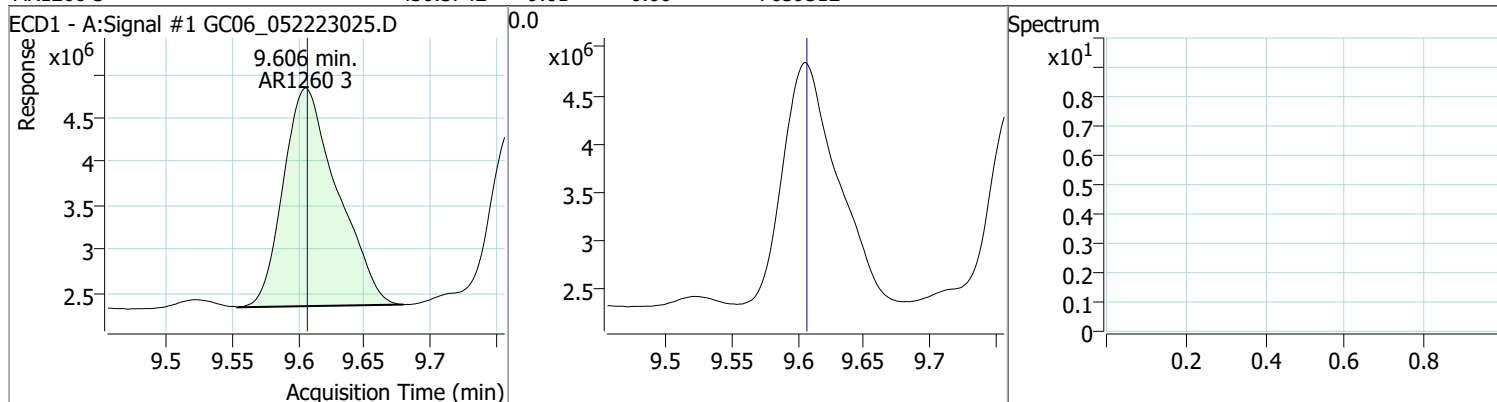
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	472.5429	8.67	0.00	4542855				



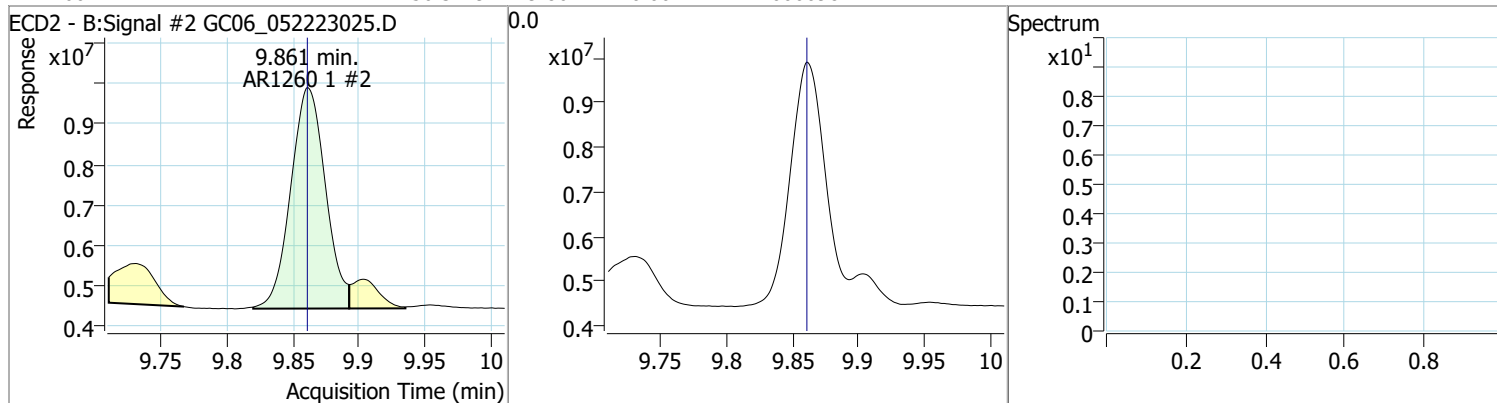
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	477.8252	9.16	0.00	6987478				



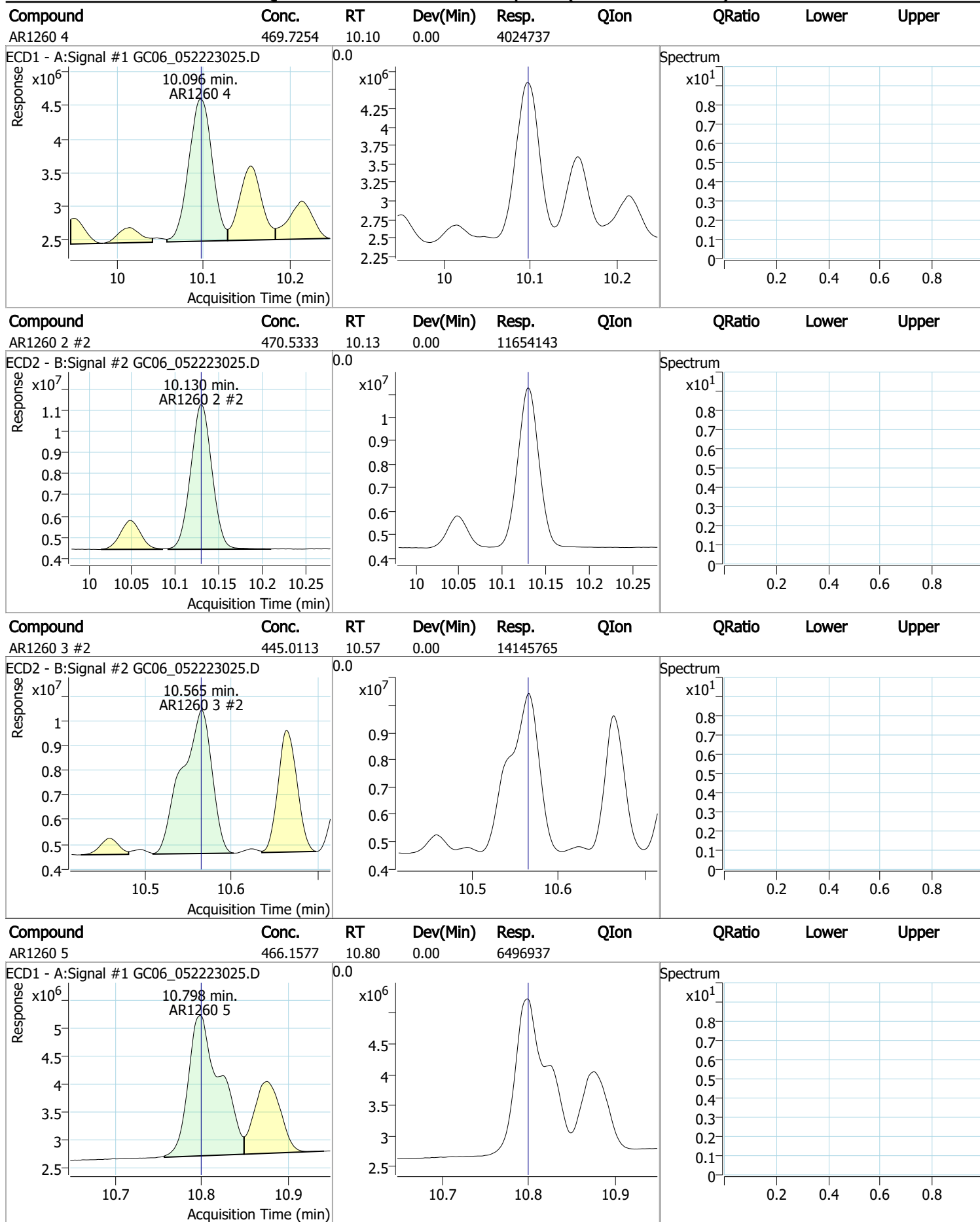
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	450.3742	9.61	0.00	7059312				



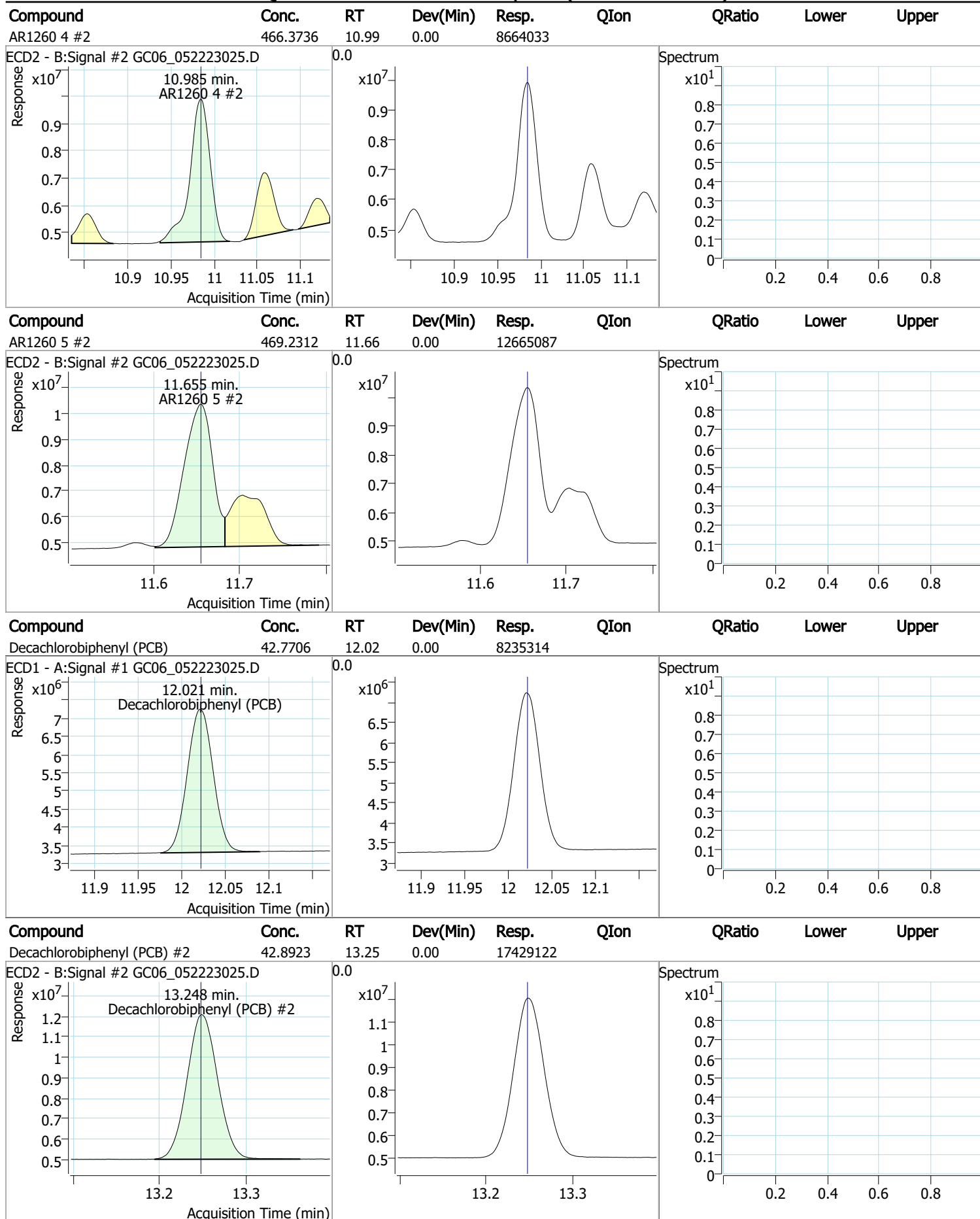
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	456.3729	9.86	0.00	10000981				



Quantitation Results Report (Not Reviewed)

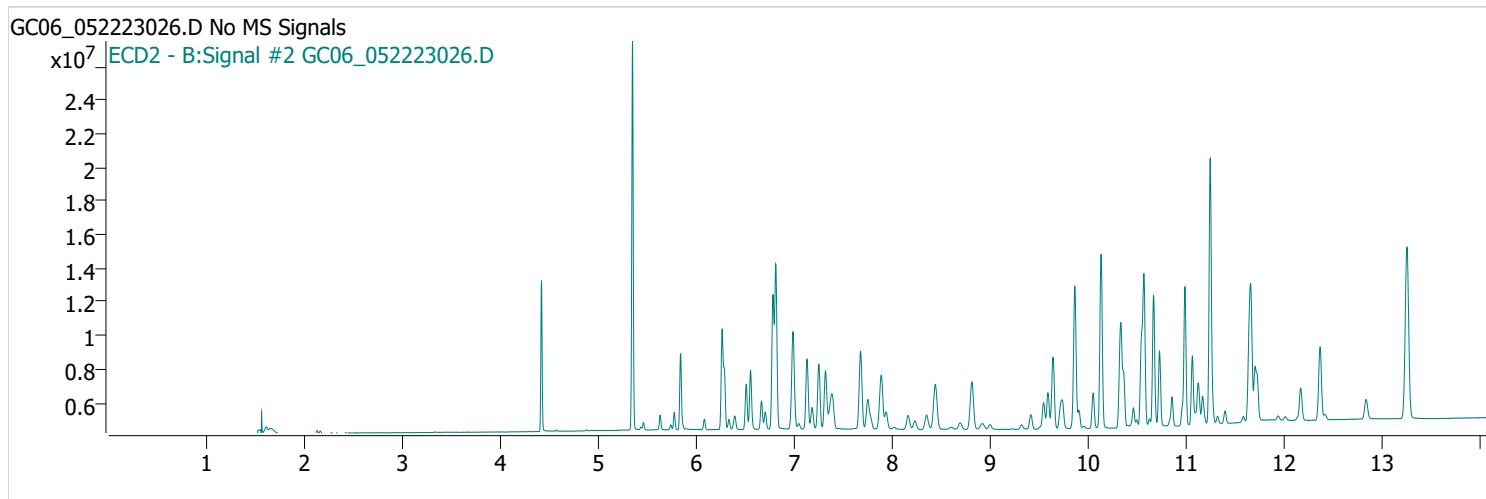
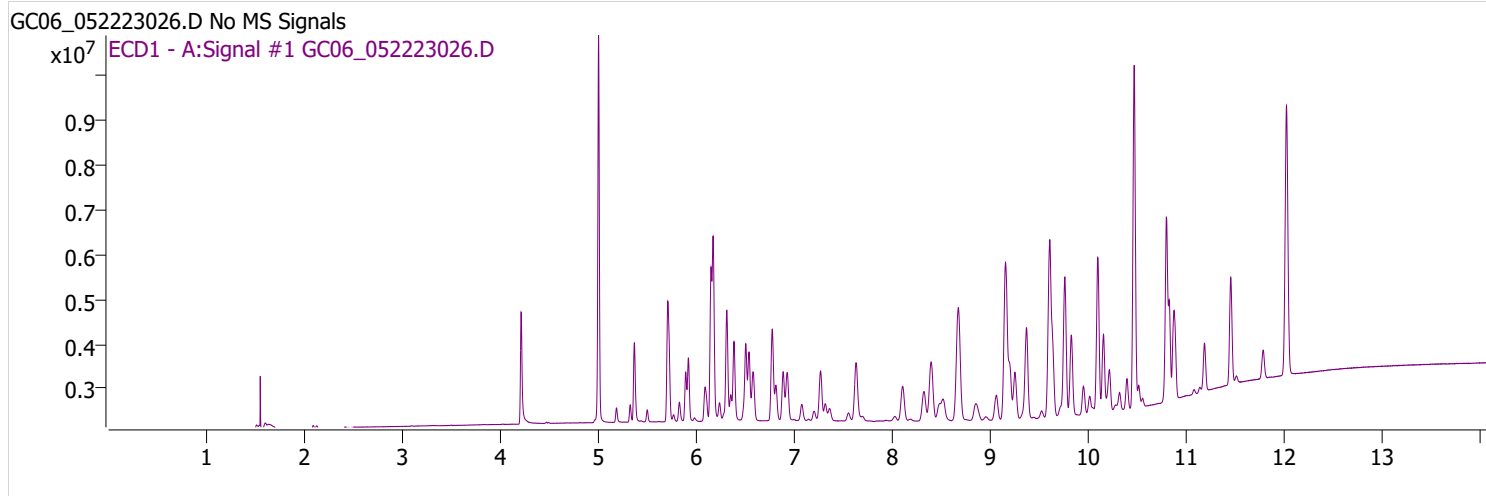


Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

Data File	GC06_052223026.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 9:56:20 PM
Sample Name	ICAL, S18185	Instrument	SVOA-GC06
Vial	17	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.210	0.0	3086367.41 4	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	8224328.85 3	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	5.001	0.0	9048791.92 5	55.3069	ng/ml	m 0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 276.53%	*	
S TCMX (PCB) #2	5.347	0.0	24010085.3 64	55.1937	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 275.97%	*	
S Decachlorobiphenyl (PCB)	12.021	0.0	12061391.7 47	59.0449	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 295.22%	*	
S Decachlorobiphenyl (PCB) #2	13.251	0.0	25490224.0 56	59.0109	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 295.05%	*	

Target Compounds

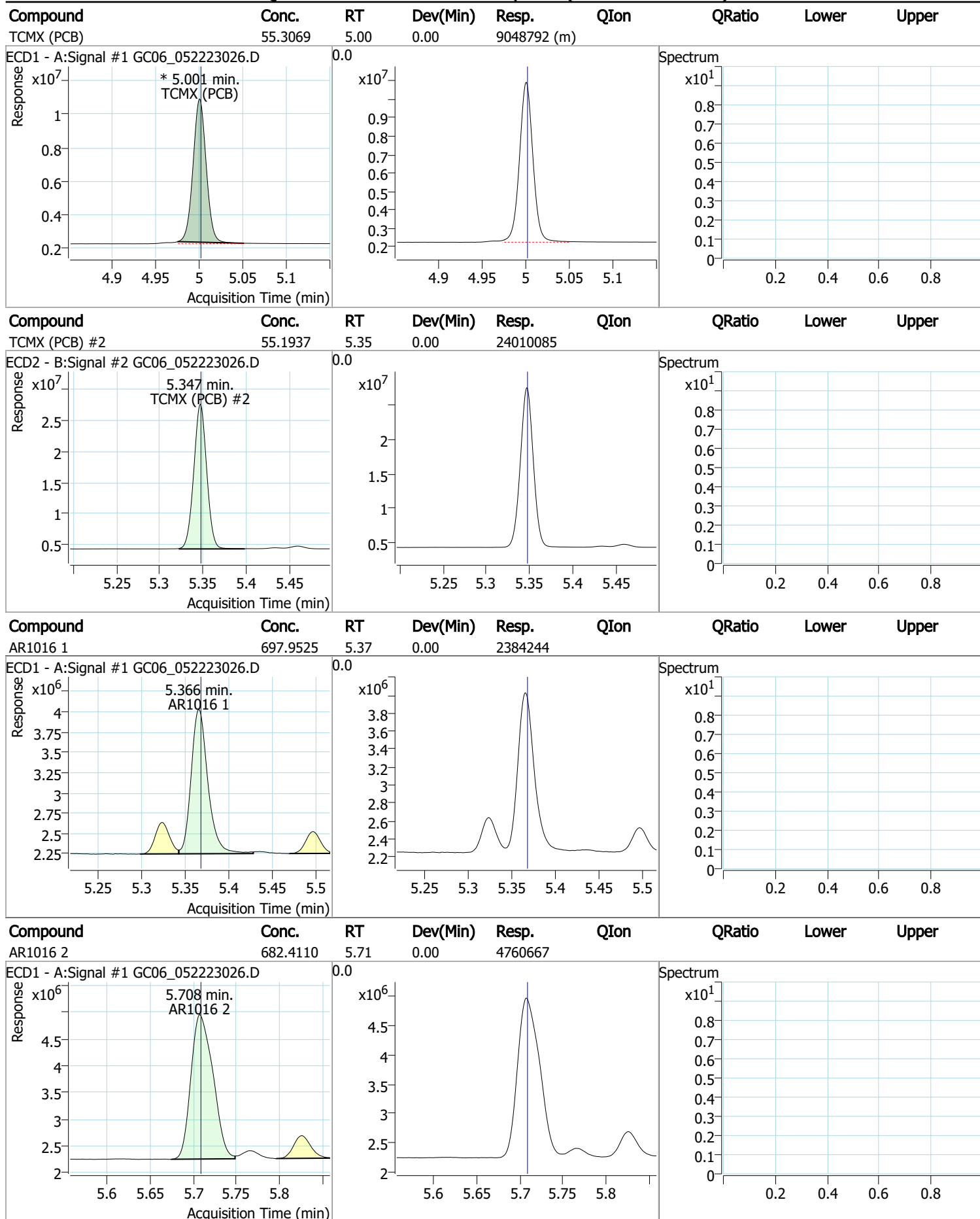
QValue

Quantitation Results Report (Not Reviewed)

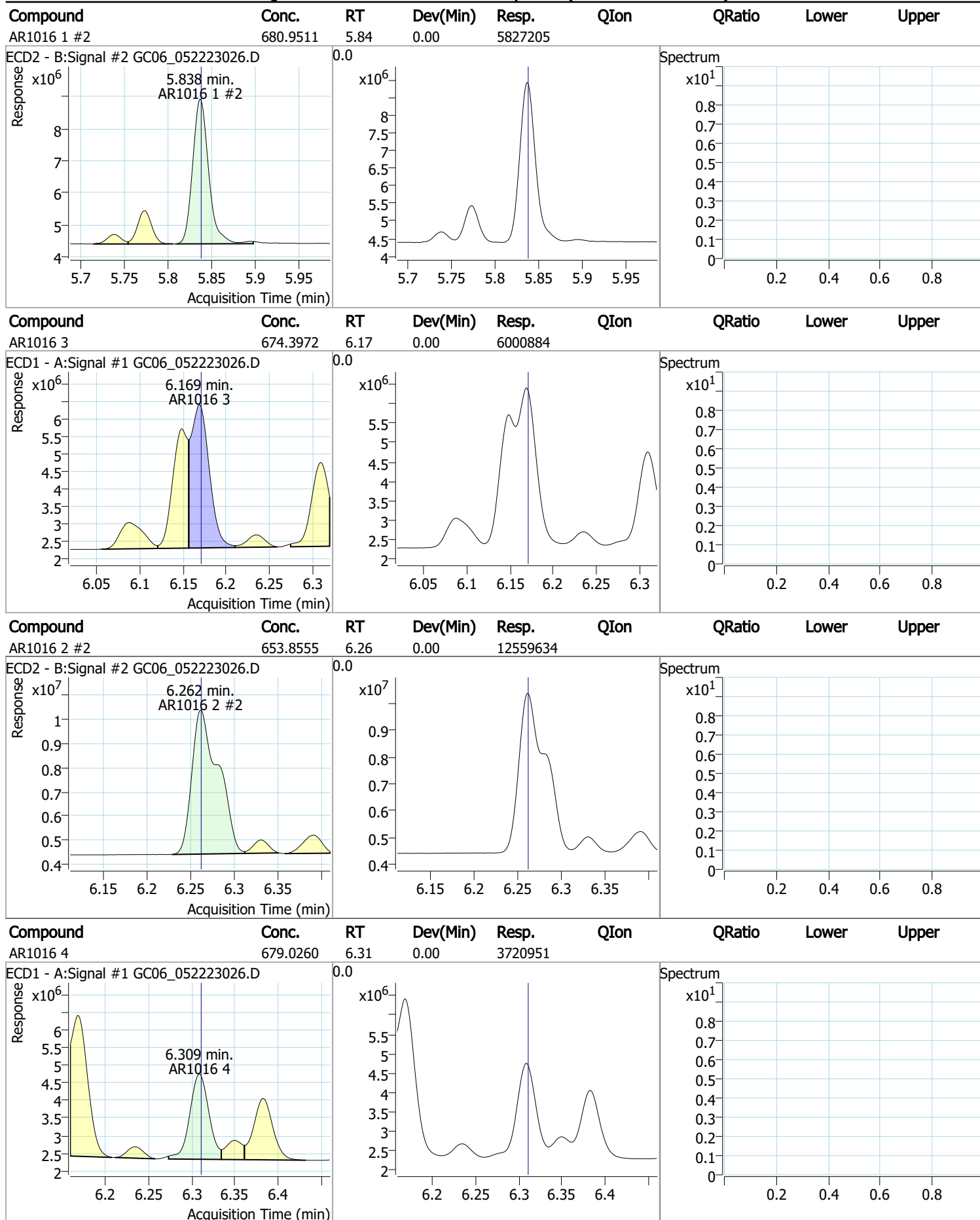
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.366	0.0	2384243.85 2	697.9525	ng/ml	100
T AR1016 2	5.708	0.0	4760666.95 1	682.4110	ng/ml	100
T AR1016 1 #2	5.838	0.0	5827205.11 8	680.9511	ng/ml	100
T AR1016 3	6.169	0.0	6000883.94 8	674.3972	ng/ml	100
T AR1016 2 #2	6.262	0.0	12559633.7 58	653.8555	ng/ml	100
T AR1016 4	6.309	0.0	3720951.21 6	679.0260	ng/ml	100
T AR1016 5	6.503	0.0	2857934.08 3	702.6911	ng/ml	100
T AR1016 3 #2	6.808	0.0	15681291.5 37	679.1844	ng/ml	100
T AR1016 4 #2	6.984	0.0	11249992.6 28	675.7812	ng/ml	100
T AR1016 5 #2	7.248	0.0	6478288.54 5	695.0674	ng/ml	100
T AR1260 1	8.672	0.0	6996527.92 6	685.9857	ng/ml	100
T AR1260 2	9.153	0.0	10756630.5 34	693.3379	ng/ml	100
T AR1260 3	9.606	0.0	10972647.9 70	659.8462	ng/ml	100
T AR1260 1 #2	9.861	0.0	15508640.1 83	665.7417	ng/ml	100
T AR1260 4	10.095	0.0	6281515.67 1	691.0209	ng/ml	100
T AR1260 2 #2	10.128	0.0	18017718.6 23	684.3284	ng/ml	100
T AR1260 3 #2	10.566	0.0	22126582.0 26	654.8076	ng/ml	100
T AR1260 5	10.795	0.0	10161735.8 18	687.2461	ng/ml	100
T AR1260 4 #2	10.985	0.0	12705738.7 25	643.3815	ng/ml	100
T AR1260 5 #2	11.654	0.0	19861517.6 60	692.2228	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

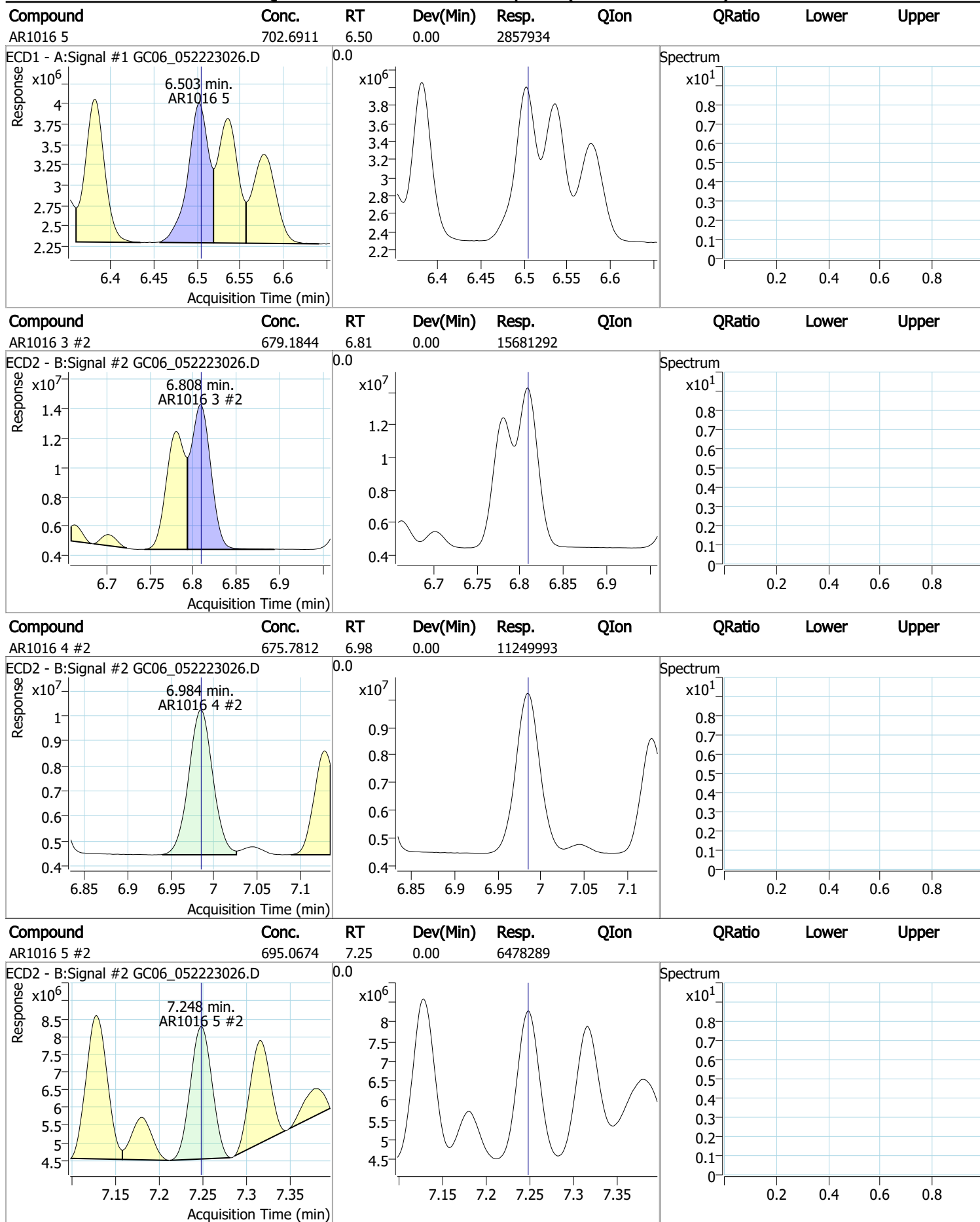
Quantitation Results Report (Not Reviewed)



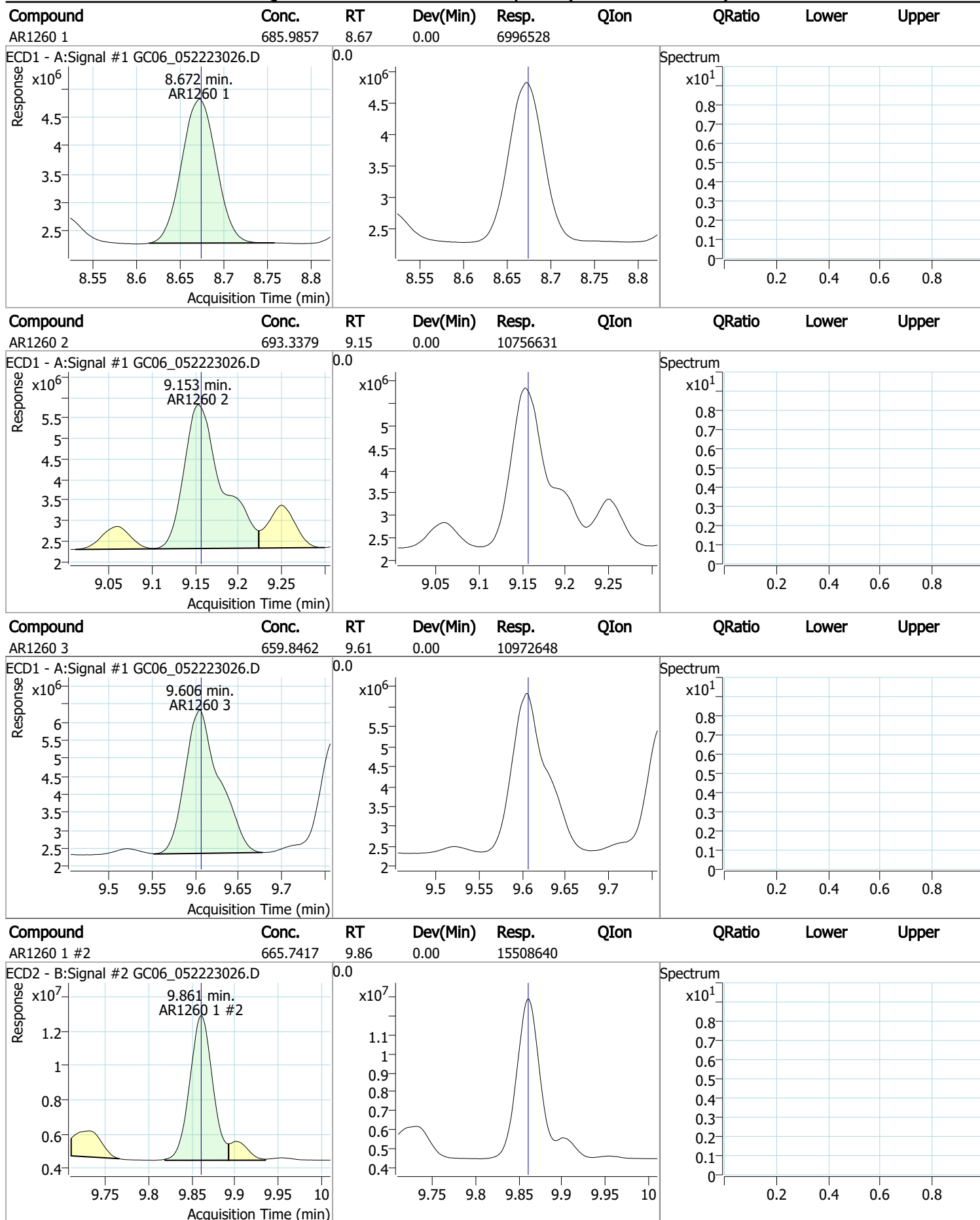
Quantitation Results Report (Not Reviewed)



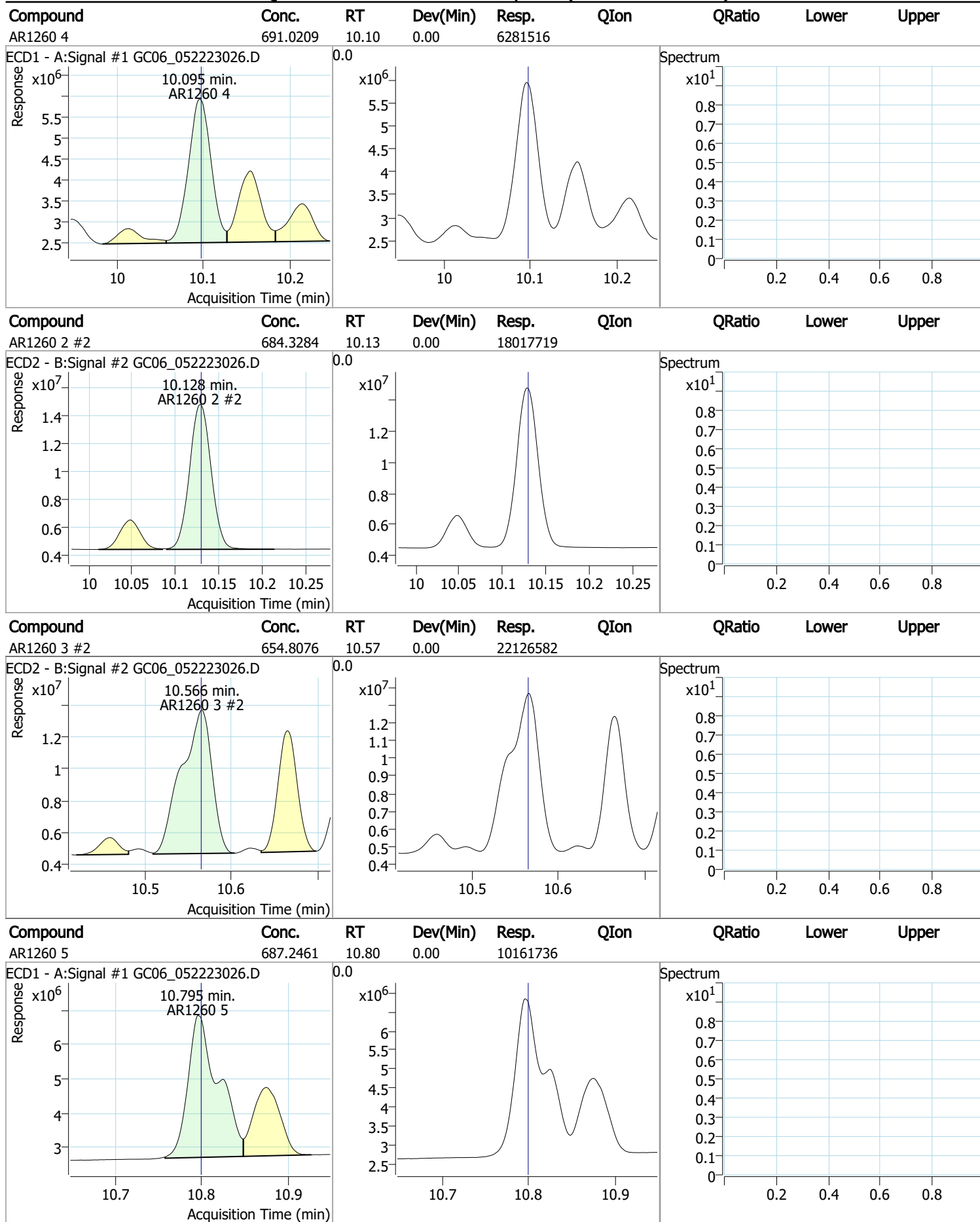
Quantitation Results Report (Not Reviewed)



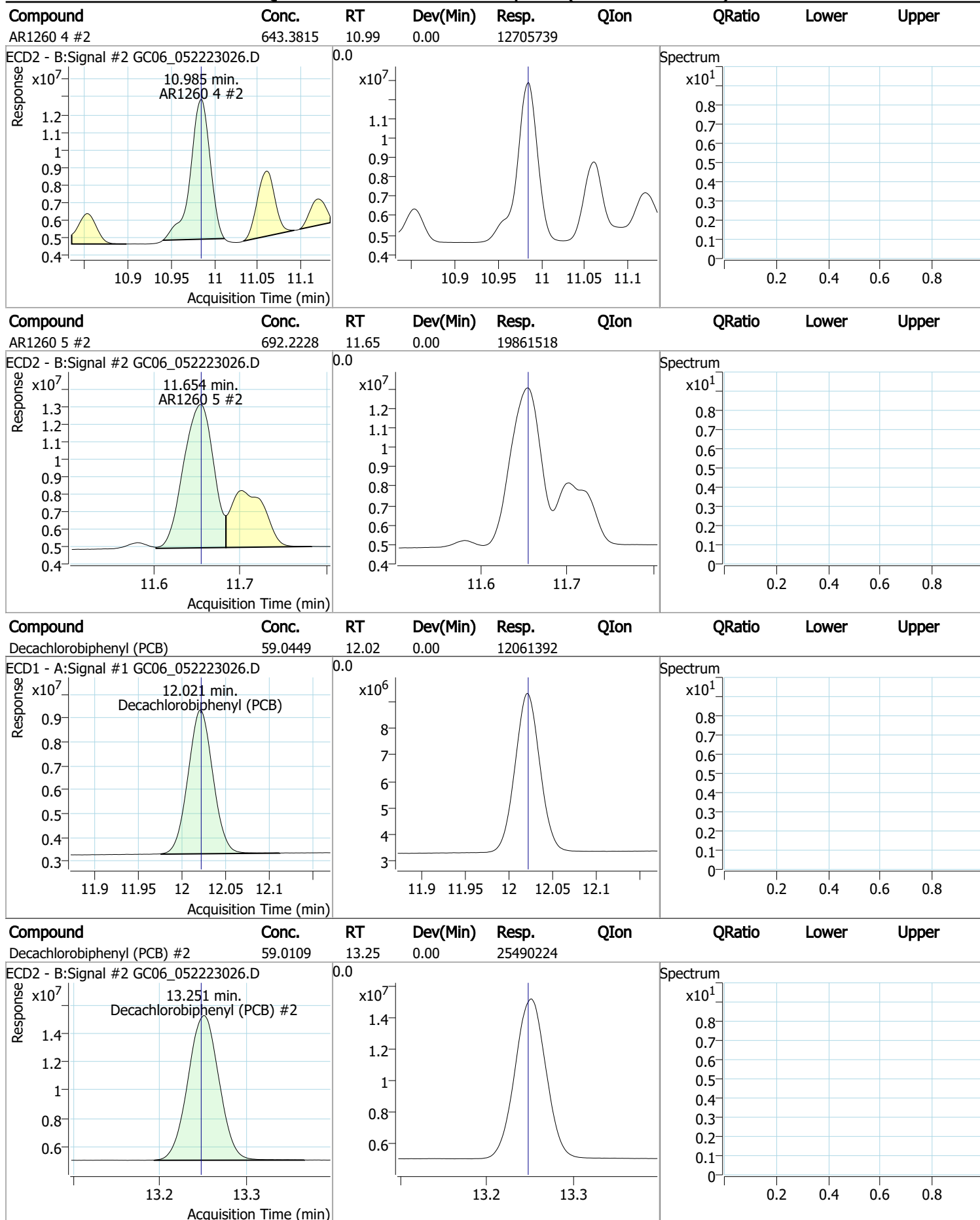
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

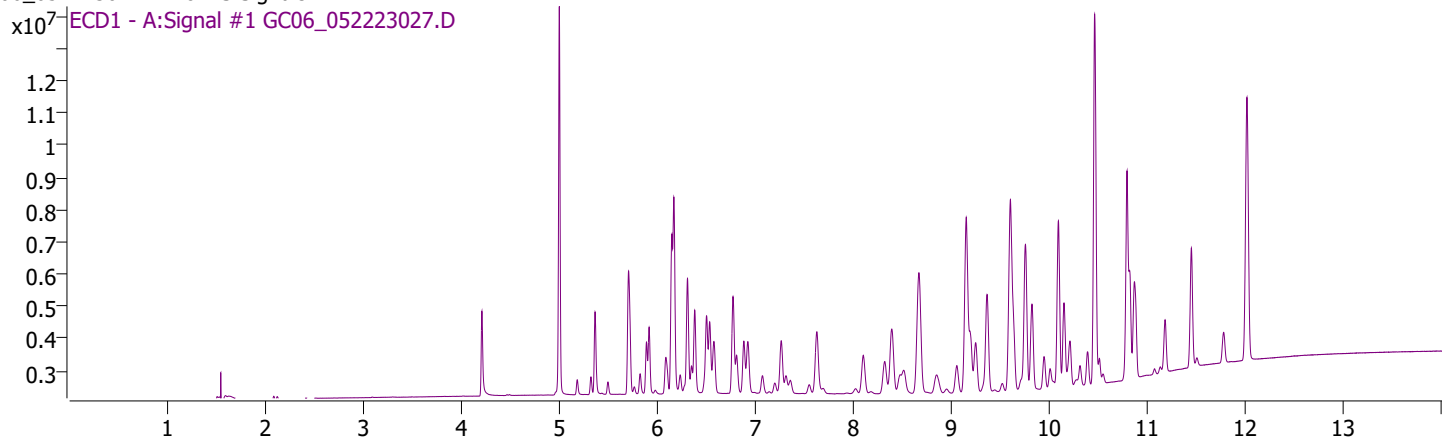


Quantitation Results Report (Not Reviewed)

Data File	GC06_052223027.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 10:14:39 PM
Sample Name	ICAL, S18186	Instrument	SVOA-GC06
Vial	18	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			

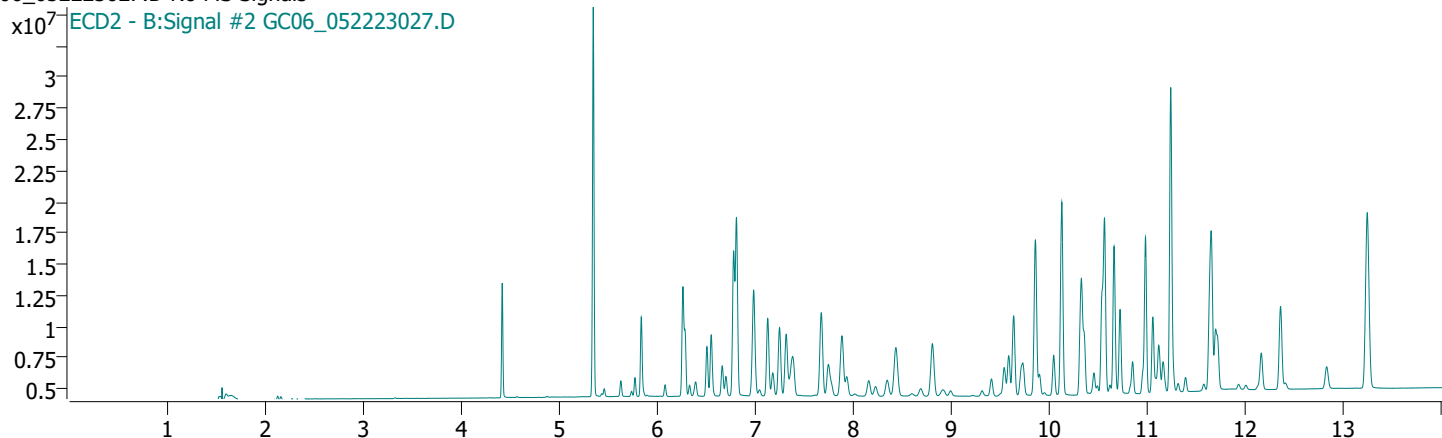
GC06_052223027.D No MS Signals

x10⁷ ECD1 - A:Signal #1 GC06_052223027.D



GC06_052223027.D No MS Signals

x10⁷ ECD2 - B:Signal #2 GC06_052223027.D



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.210	0.0	3177196.29 8	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	8538127.86 1	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	5.000	0.0	13059477.1 25	77.5386	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 387.69%	*	
S TCMX (PCB) #2	5.347	0.0	33332428.9 74	73.8075	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 369.04%	*	
S Decachlorobiphenyl (PCB)	12.020	0.0	16779212.0 68	79.7922	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 398.96%	*	
S Decachlorobiphenyl (PCB) #2	13.248	0.0	35172468.0 31	78.4331	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 392.17%	*	

Target Compounds

QValue

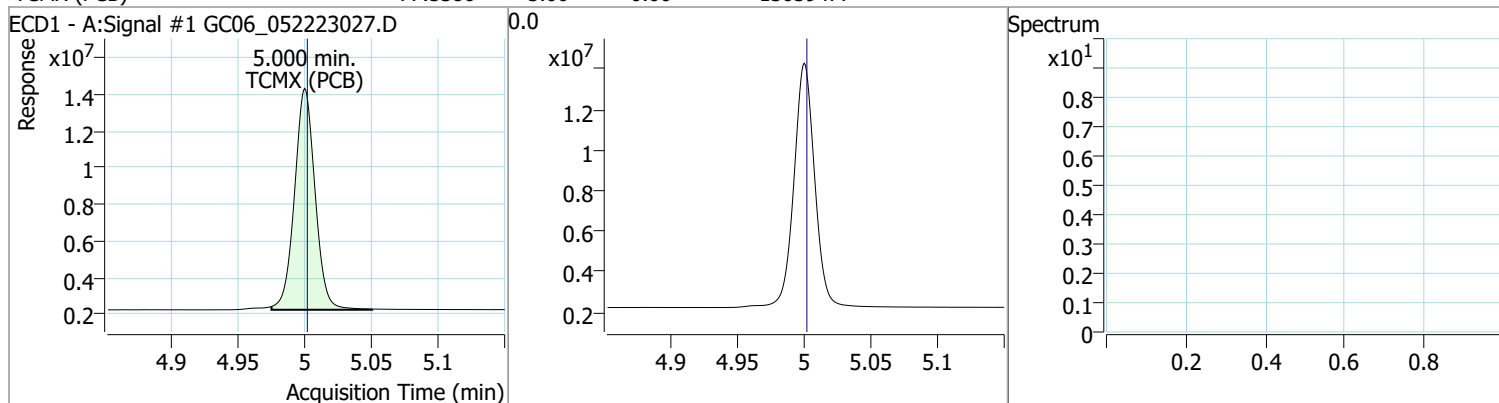
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.365	0.0	3361984.80 7	956.0366	ng/ml	100
T AR1016 2	5.708	0.0	6790602.22 3	945.5622	ng/ml	100
T AR1016 1 #2	5.837	0.0	8259478.85 5	929.7069	ng/ml	100
T AR1016 3	6.169	0.0	8710064.41 8	950.8795	ng/ml	100
T AR1016 2 #2	6.263	0.0	17900117.1 86	897.6324	ng/ml	100
T AR1016 4	6.308	0.0	5417216.93 3	960.3118	ng/ml	100
T AR1016 5	6.503	0.0	4143015.70 8	989.5378	ng/ml	100
T AR1016 3 #2	6.808	0.0	23127122.5 09	964.8622	ng/ml	100
T AR1016 4 #2	6.984	0.0	16385197.4 04	948.0764	ng/ml	100
T AR1016 5 #2	7.248	0.0	9404709.32 5	971.9633	ng/ml	100
T AR1260 1	8.671	0.0	10615234.6 02	1011.0338	ng/ml	100
T AR1260 2	9.154	0.0	16051273.0 16	1005.0363	ng/ml	100
T AR1260 3	9.605	0.0	16576838.1 73	968.3593	ng/ml	100
T AR1260 1 #2	9.860	0.0	23063729.4 04	953.6728	ng/ml	100
T AR1260 4	10.095	0.0	9476714.03 2	1012.7169	ng/ml	100
T AR1260 2 #2	10.130	0.0	27033246.6 67	989.0102	ng/ml	100
T AR1260 3 #2	10.565	0.0	33404051.4 23	952.2179	ng/ml	100
T AR1260 5	10.796	0.0	15484088.2 77	1017.2638	ng/ml	100
T AR1260 4 #2	10.984	0.0	20107387.6 35	980.7585	ng/ml	100
T AR1260 5 #2	11.654	0.0	30218538.0 25	1014.4829	ng/ml	100

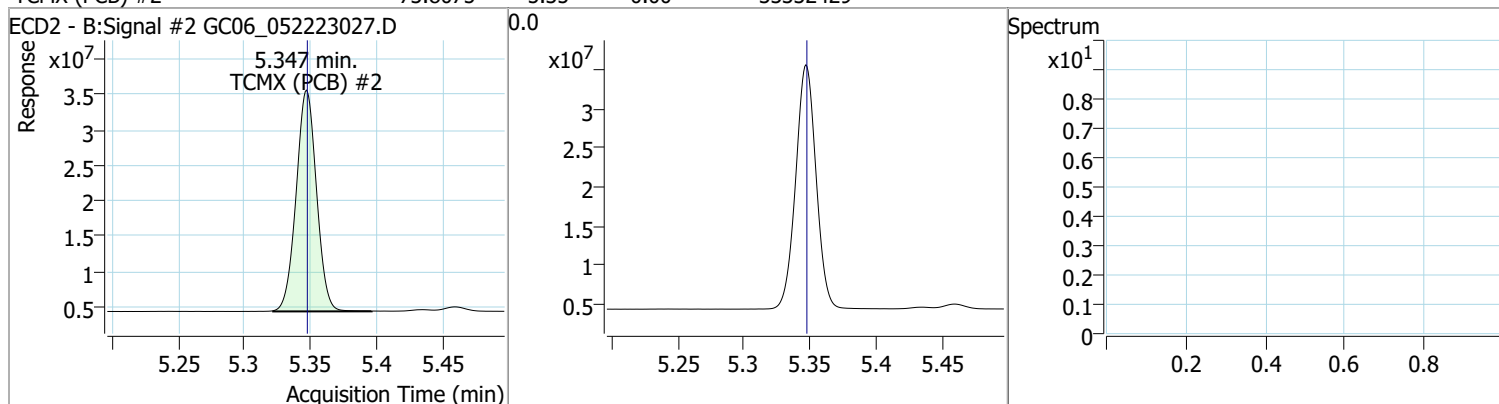
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

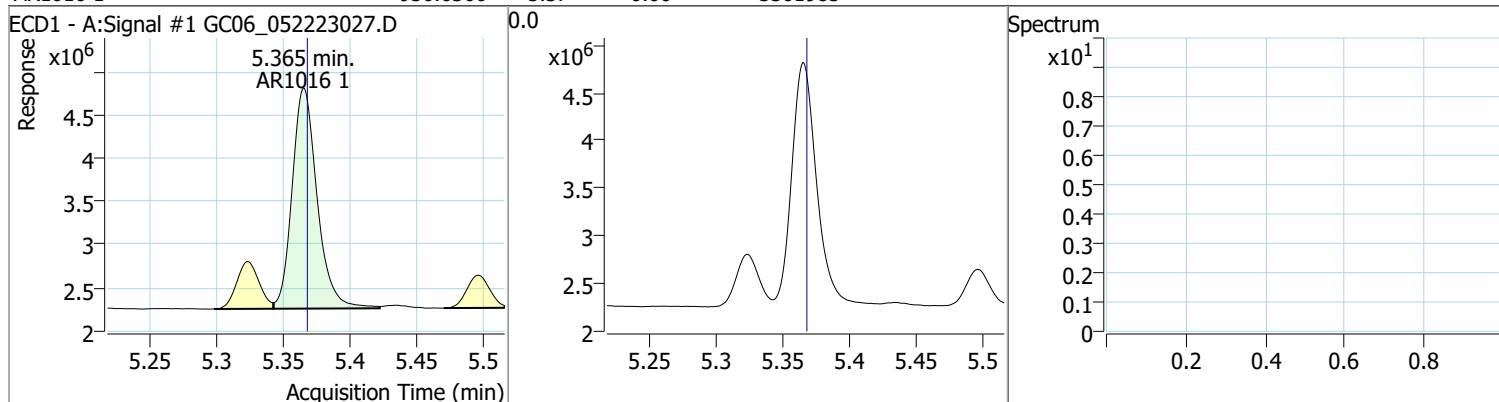
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	77.5386	5.00	0.00	13059477				



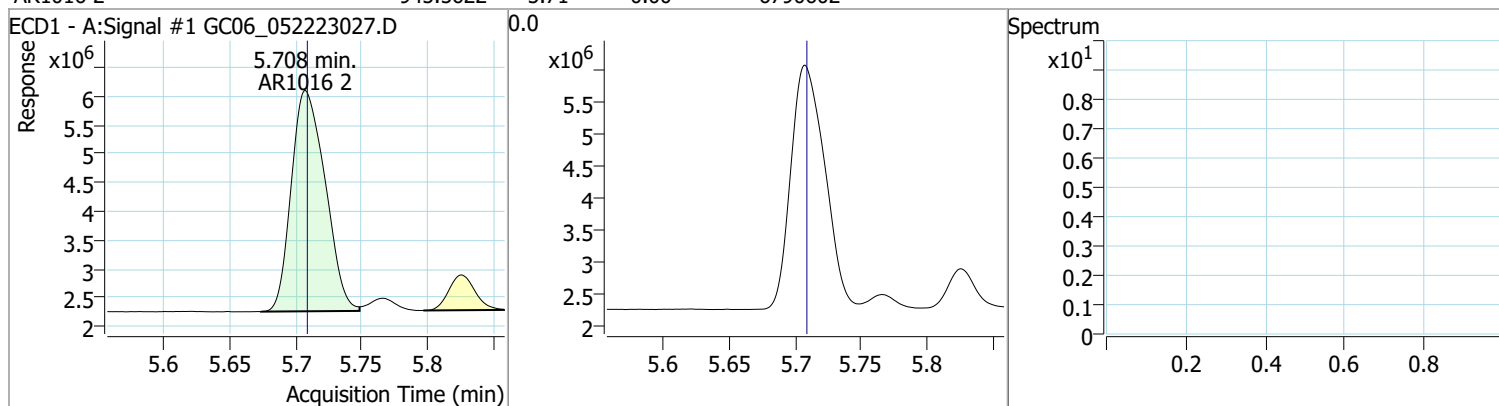
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	73.8075	5.35	0.00	33332429				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	956.0366	5.37	0.00	3361985				

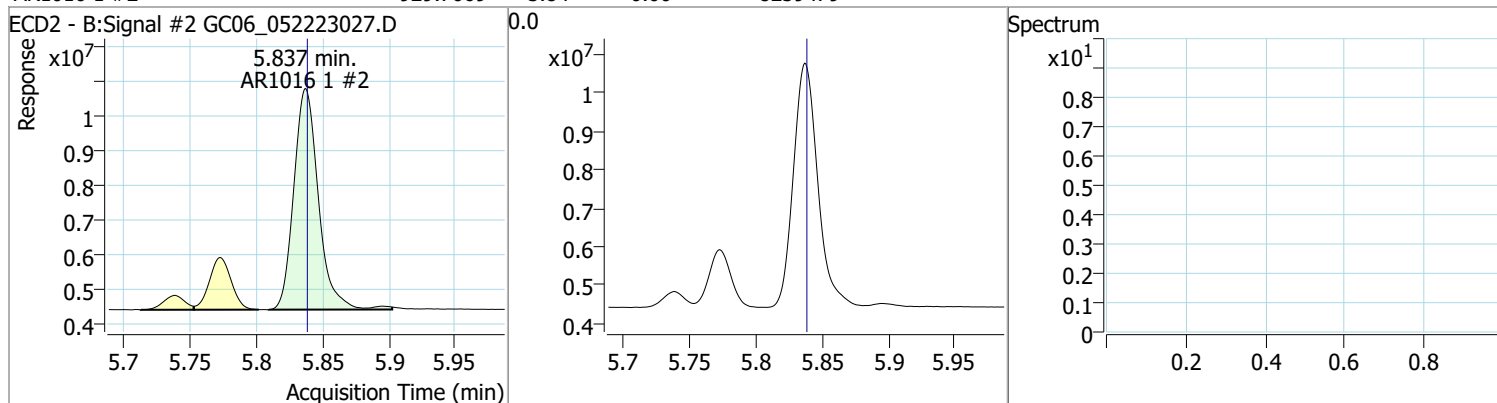


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	945.5622	5.71	0.00	6790602				

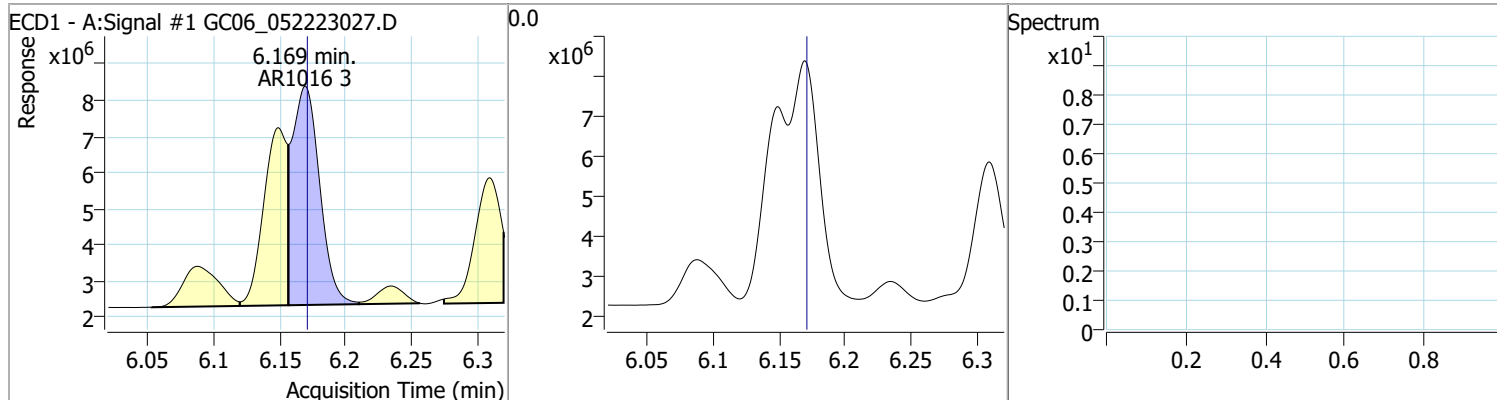


Quantitation Results Report (Not Reviewed)

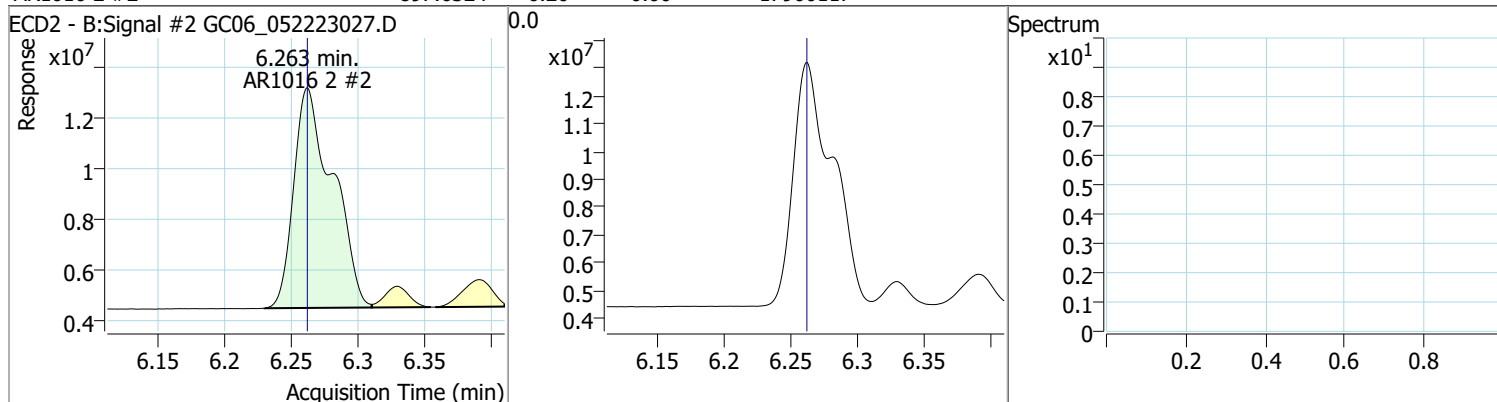
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	929.7069	5.84	0.00	8259479				



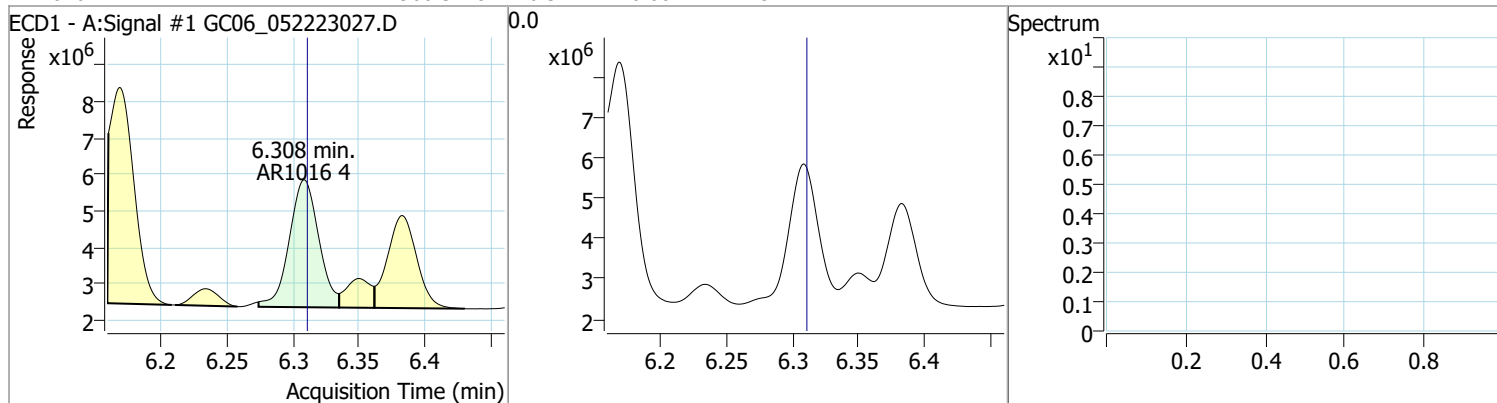
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	950.8795	6.17	0.00	8710064				



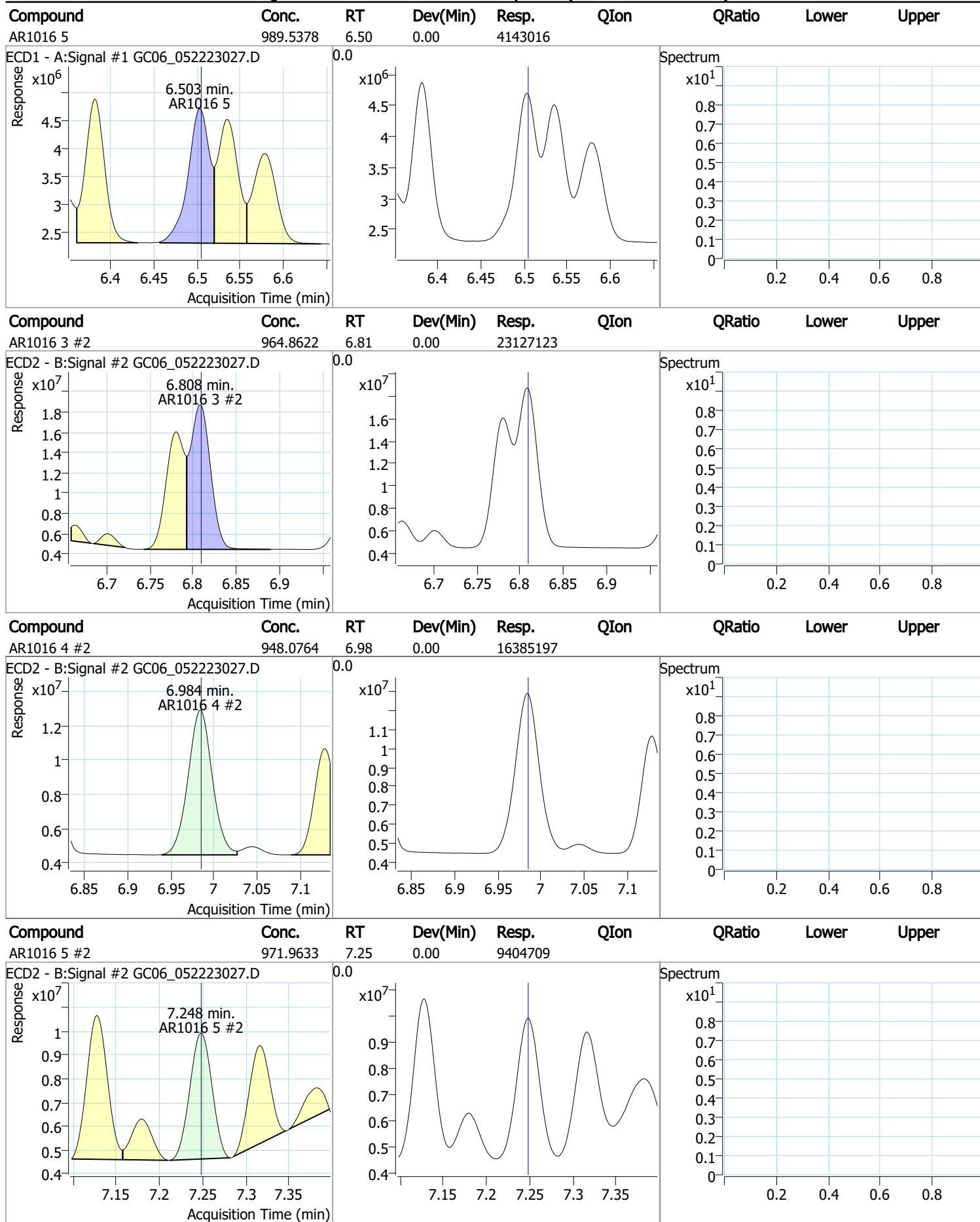
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	897.6324	6.26	0.00	17900117				



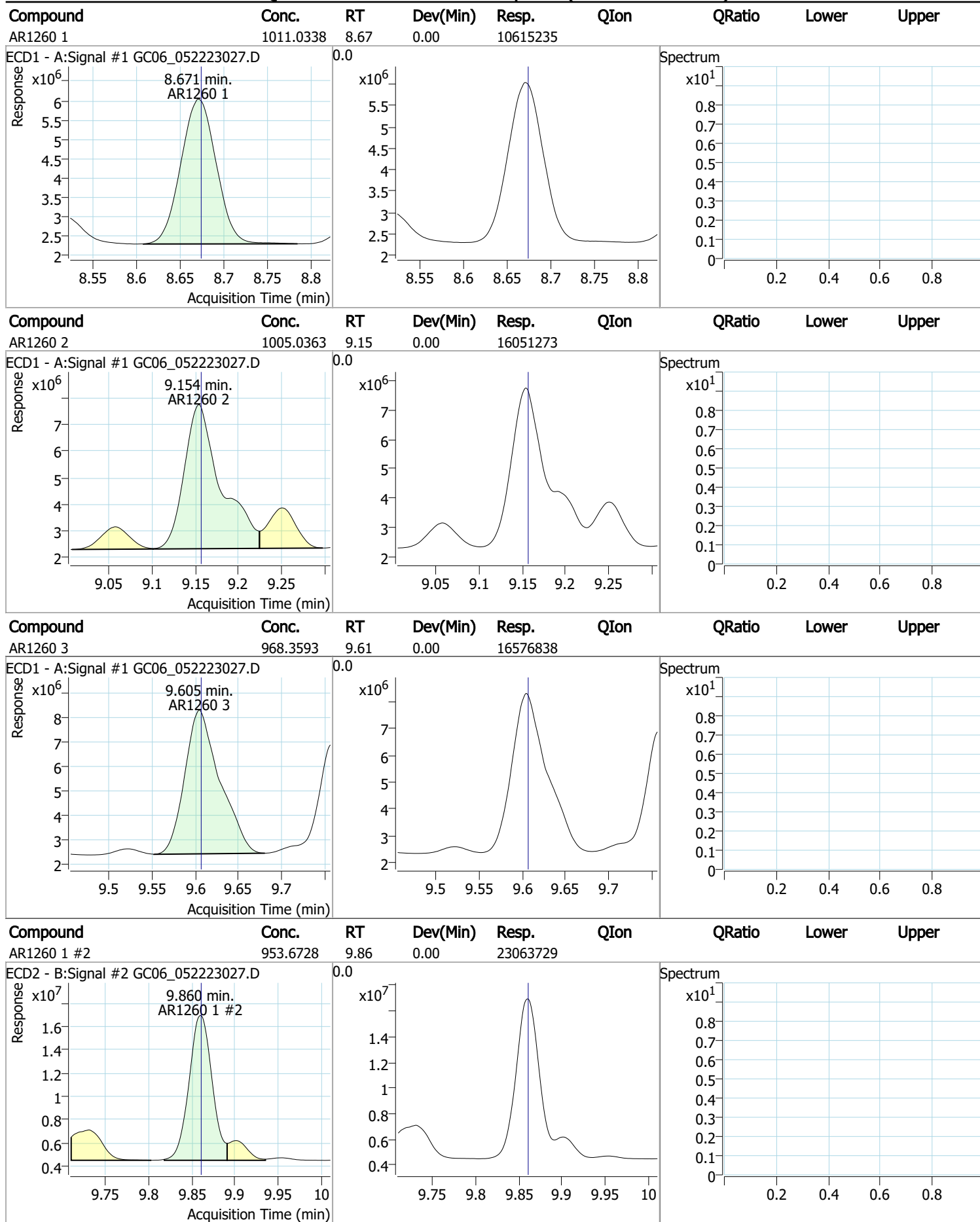
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	960.3118	6.31	0.00	5417217				



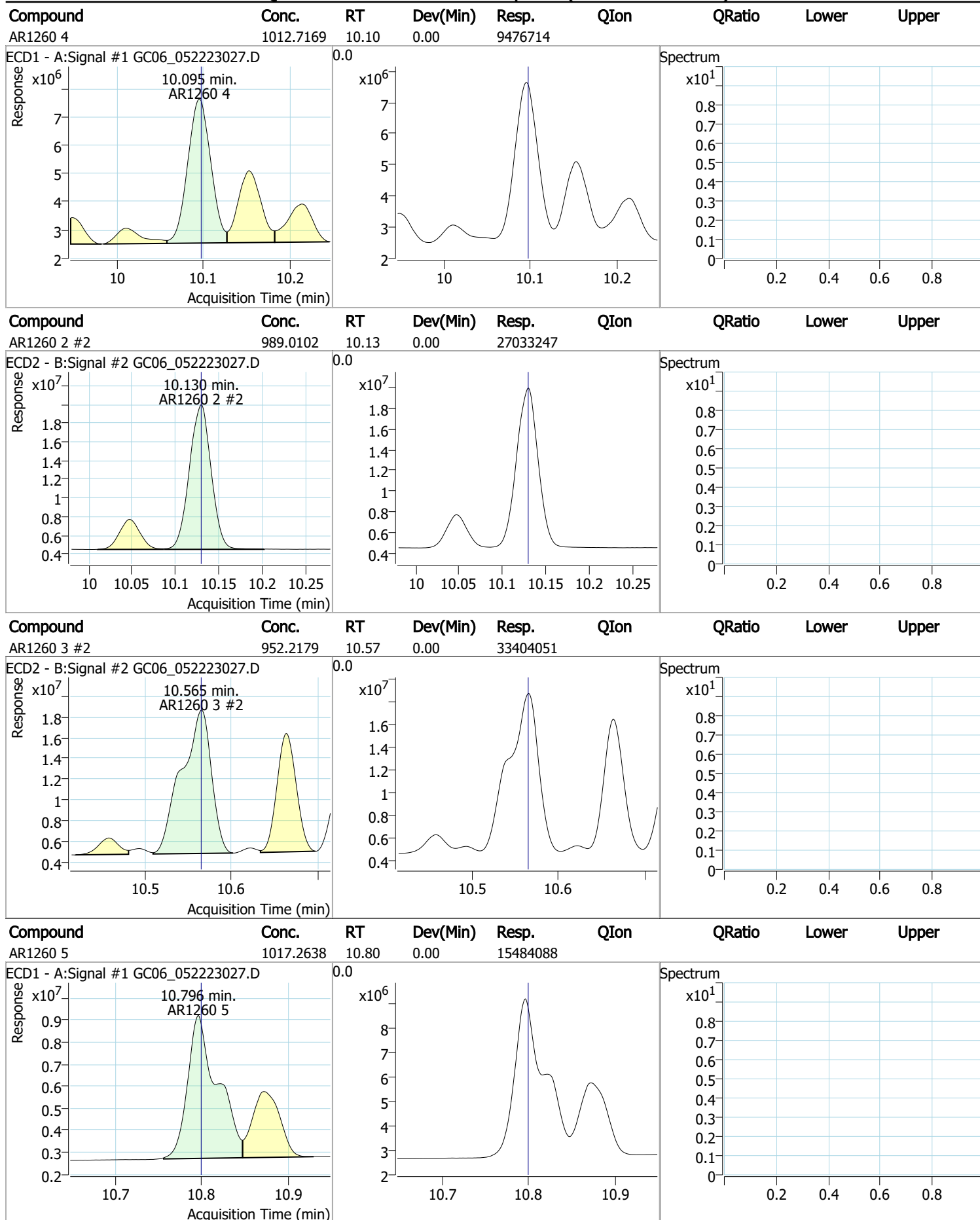
Quantitation Results Report (Not Reviewed)



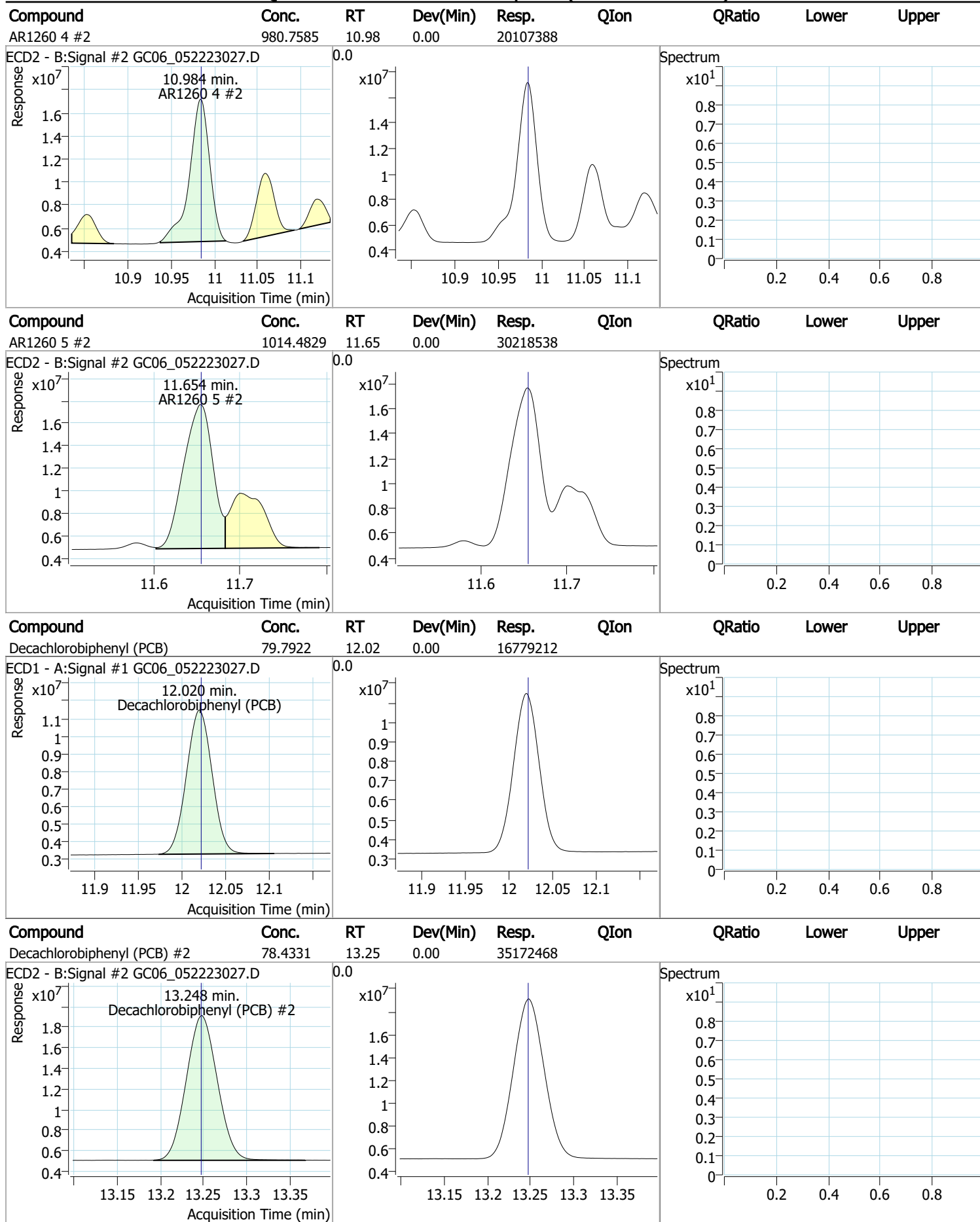
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

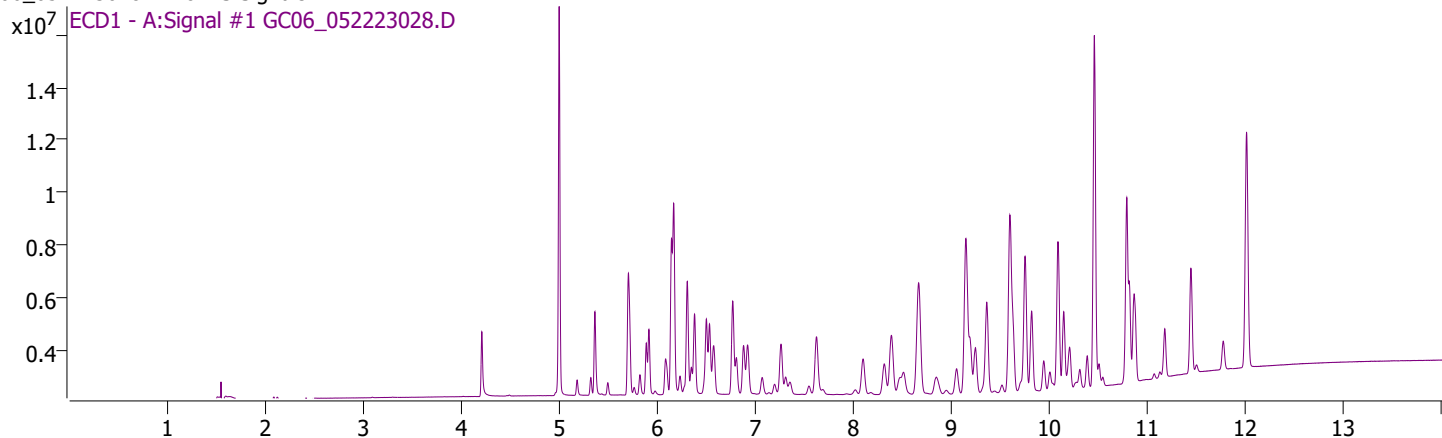


Quantitation Results Report (Not Reviewed)

Data File	GC06_052223028.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 10:33:00 PM
Sample Name	ICAL, S18187	Instrument	SVOA-GC06
Vial	19	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			

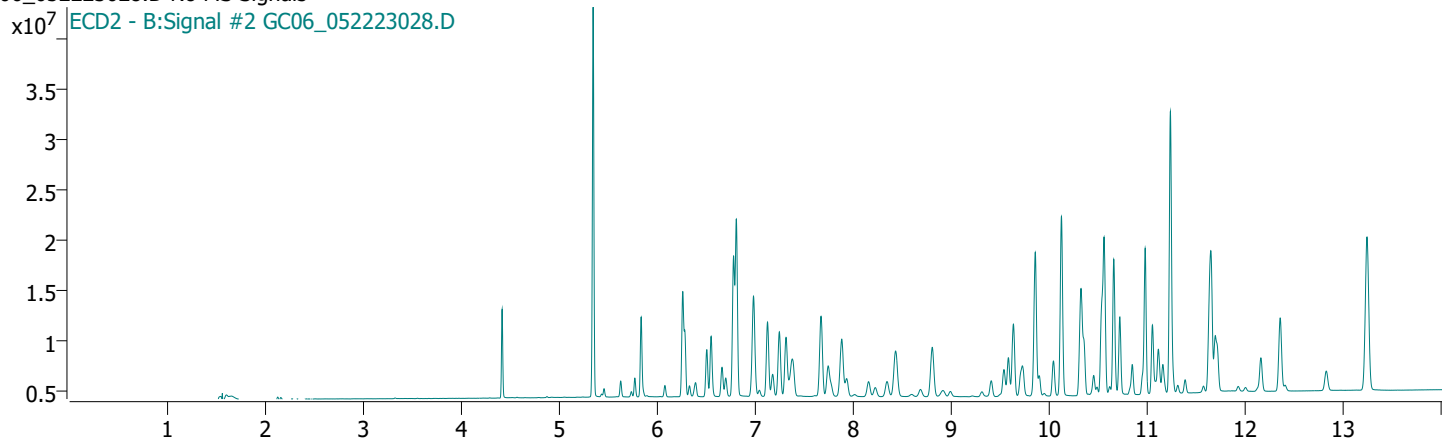
GC06_052223028.D No MS Signals

x10⁷ ECD1 - A:Signal #1 GC06_052223028.D



GC06_052223028.D No MS Signals

x10⁷ ECD2 - B:Signal #2 GC06_052223028.D



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.210	0.0	2986690.93 6	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	8039960.26 6	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	5.000	0.0	16166895.7 93	102.1110	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 510.55%	*	
S TCMX (PCB) #2	5.347	0.0	41424203.8 30	97.4085	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 487.04%	*	
S Decachlorobiphenyl (PCB)	12.020	0.0	18098777.0 57	91.5570	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 457.79%	*	
S Decachlorobiphenyl (PCB) #2	13.249	0.0	38113069.6 26	90.2567	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 451.28%	*	

Target Compounds

QValue

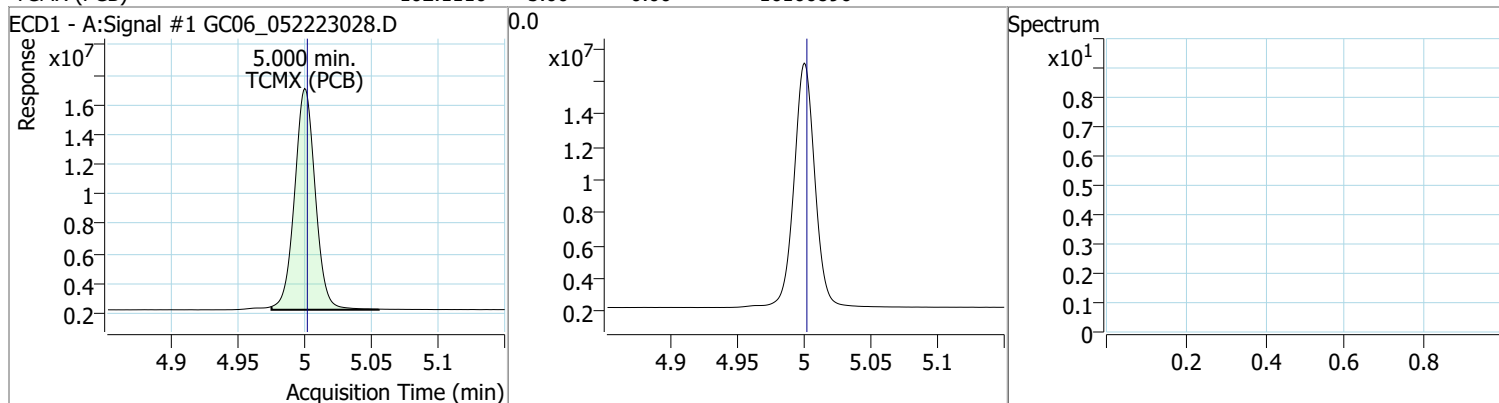
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.365	0.0	4130951.45 3	1249.6334	ng/ml	100
T AR1016 2	5.708	0.0	8196556.92 0	1214.1351	ng/ml	100
T AR1016 1 #2	5.838	0.0	10197357.2 91	1218.9610	ng/ml	100
T AR1016 3	6.169	0.0	10657766.9 41	1237.7248	ng/ml m	100
T AR1016 2 #2	6.262	0.0	21759547.4 17	1158.7807	ng/ml	100
T AR1016 4	6.308	0.0	6487825.57 3	1223.4577	ng/ml	100
T AR1016 5	6.503	0.0	4831227.27 3	1227.5157	ng/ml	100
T AR1016 3 #2	6.809	0.0	27859080.8 53	1234.2958	ng/ml	100
T AR1016 4 #2	6.984	0.0	19768821.4 15	1214.7340	ng/ml	100
T AR1016 5 #2	7.248	0.0	11131193.0 99	1221.6729	ng/ml	100
T AR1260 1	8.671	0.0	11760437.4 35	1191.5529	ng/ml	100
T AR1260 2	9.153	0.0	18103976.2 57	1205.8687	ng/ml	100
T AR1260 3	9.603	0.0	18677708.2 01	1160.6792	ng/ml	100
T AR1260 1 #2	9.862	0.0	26304987.9 81	1155.0923	ng/ml	100
T AR1260 4	10.093	0.0	10651294.2 14	1210.8391	ng/ml	100
T AR1260 2 #2	10.129	0.0	30540147.1 20	1186.5401	ng/ml	100
T AR1260 3 #2	10.564	0.0	38103713.4 81	1153.4885	ng/ml	100
T AR1260 5	10.797	0.0	17360314.0 58	1213.2751	ng/ml	100
T AR1260 4 #2	10.984	0.0	22794319.9 78	1180.7062	ng/ml	100
T AR1260 5 #2	11.654	0.0	33785997.3 93	1204.5277	ng/ml	100

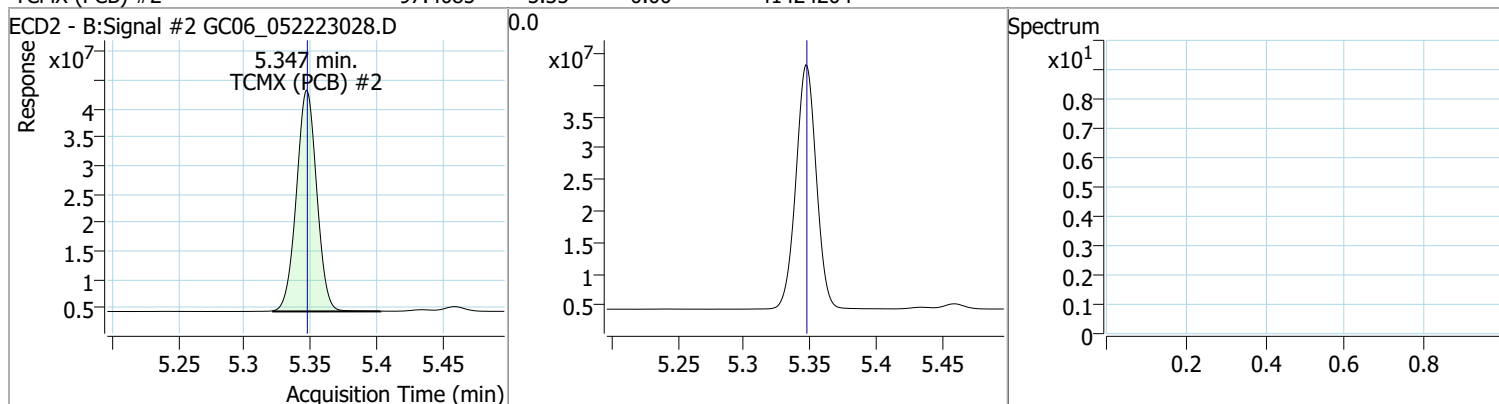
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

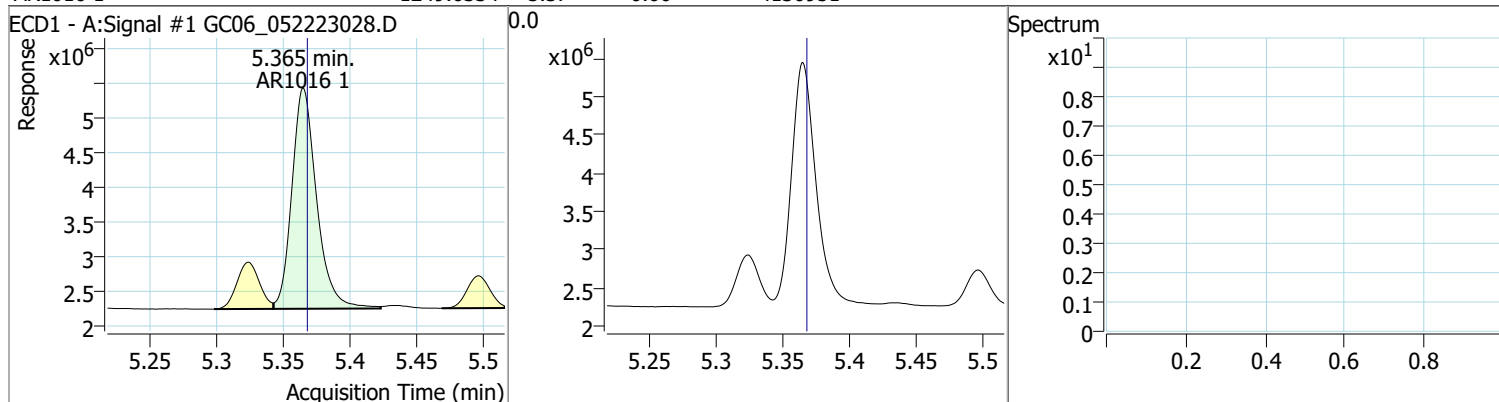
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	102.1110	5.00	0.00	16166896				



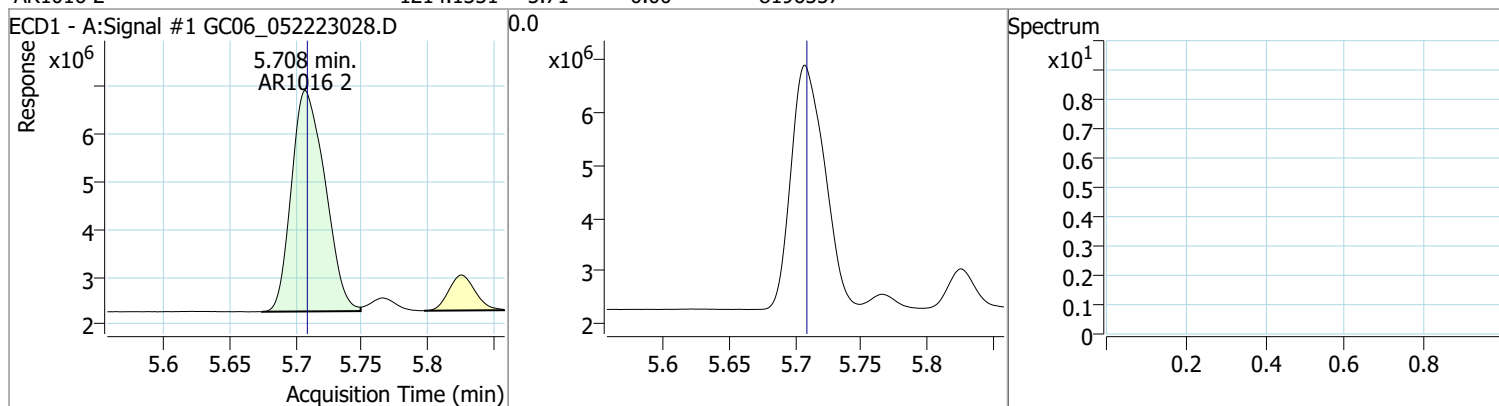
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	97.4085	5.35	0.00	41424204				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1249.6334	5.37	0.00	4130951				

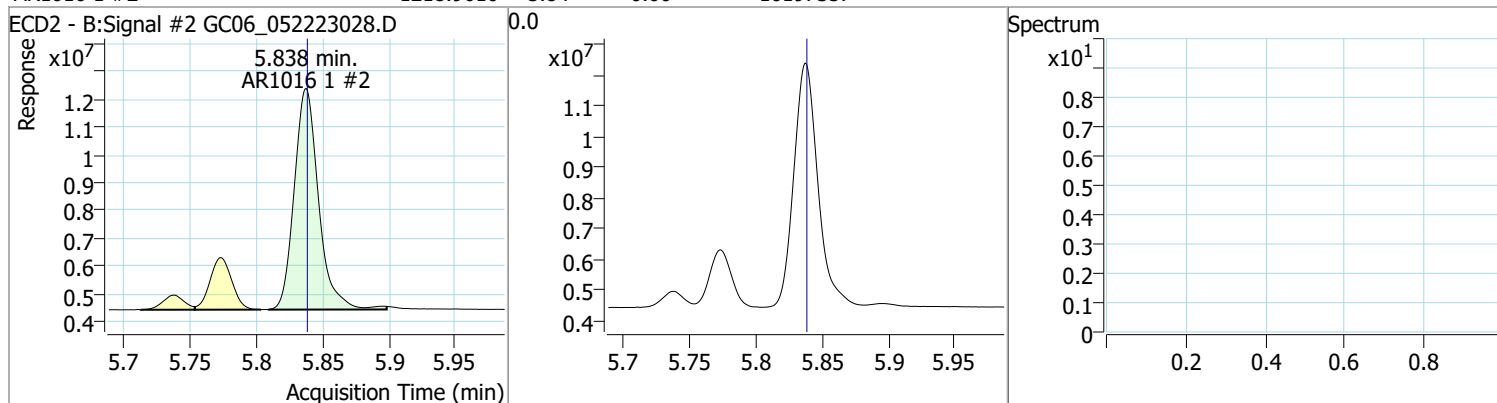


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1214.1351	5.71	0.00	8196557				

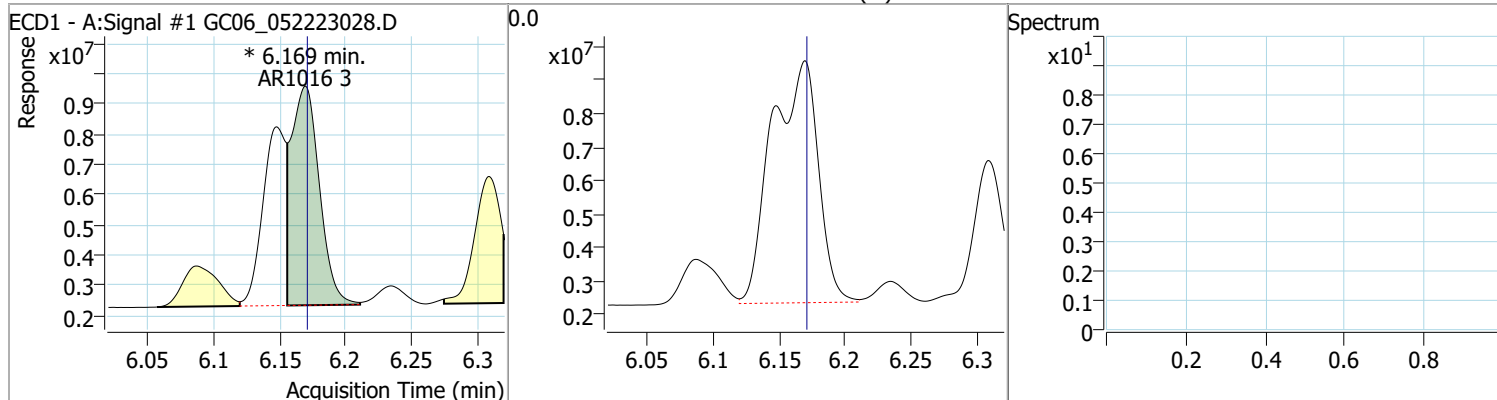


Quantitation Results Report (Not Reviewed)

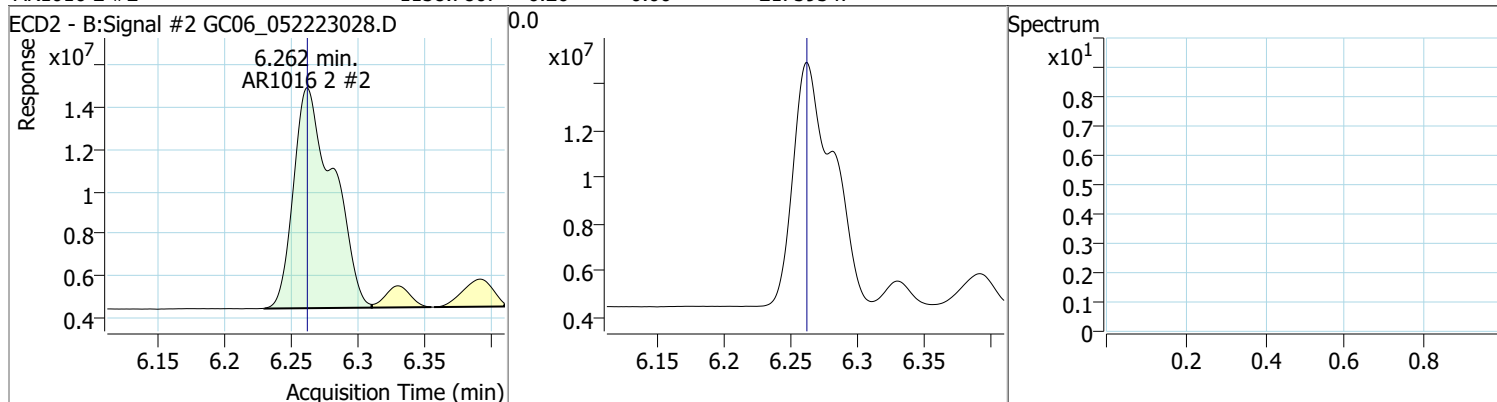
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1218.9610	5.84	0.00	10197357				



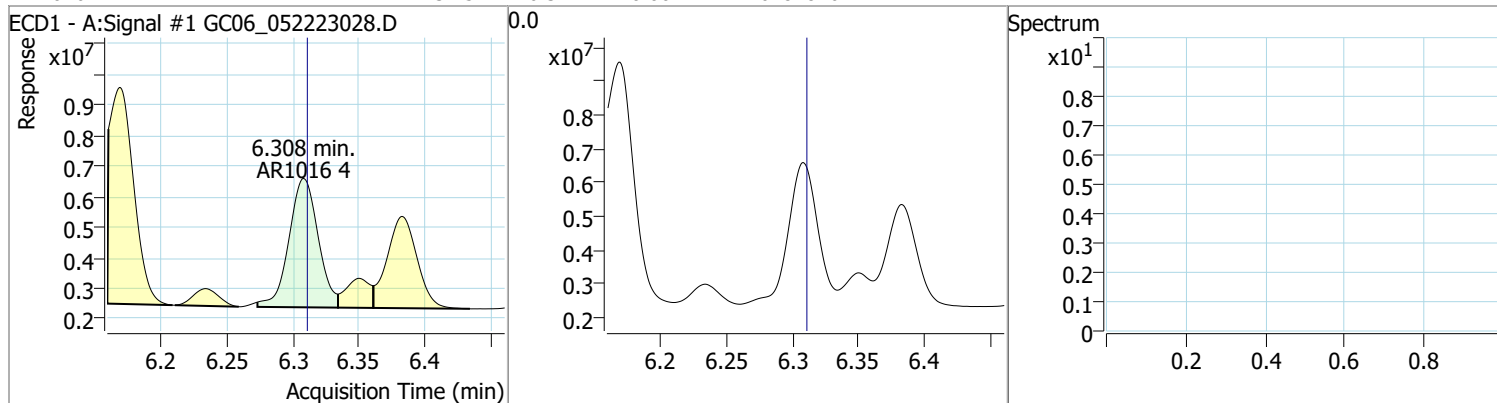
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1237.7248	6.17	0.00	10657767 (m)				



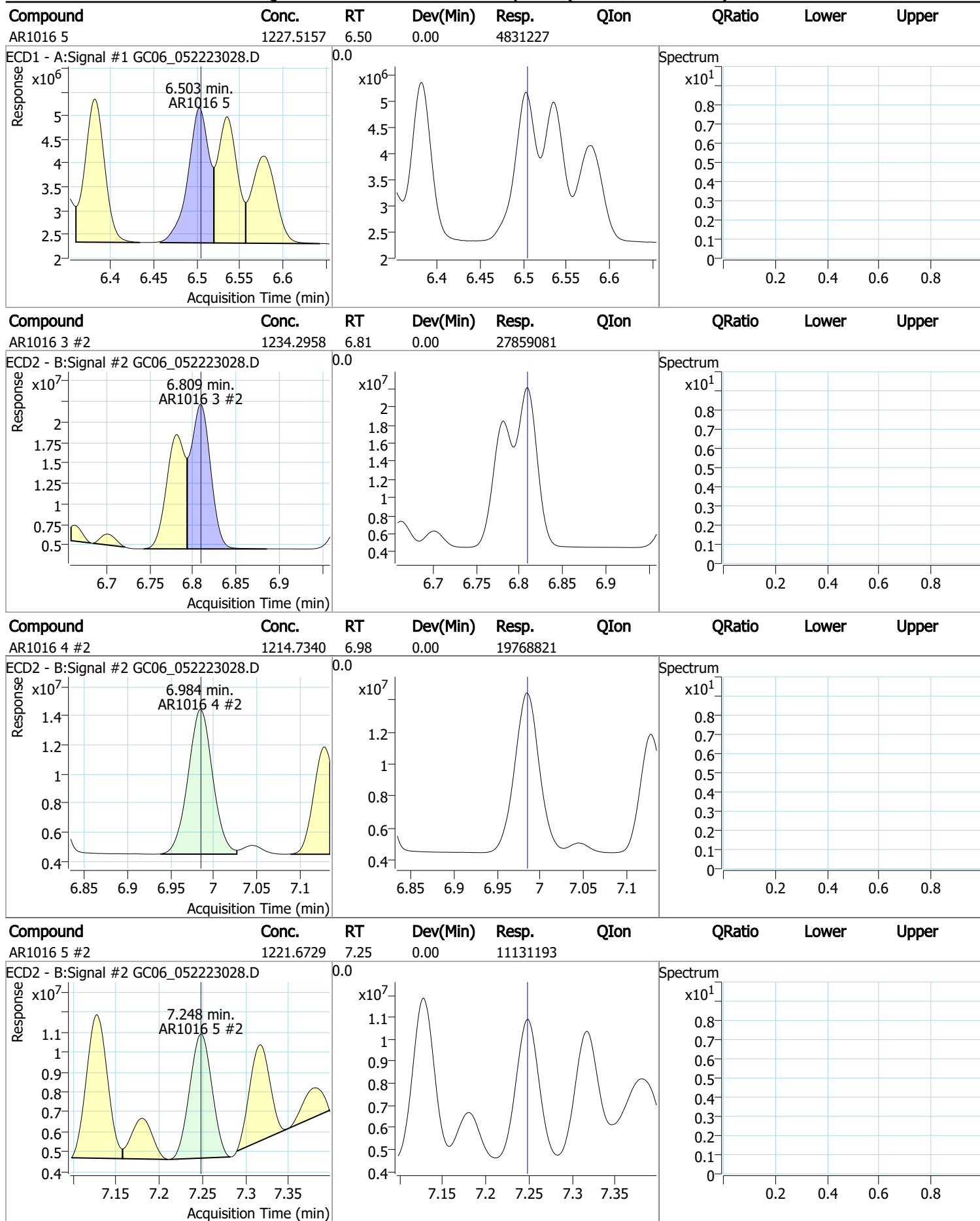
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	1158.7807	6.26	0.00	21759547				



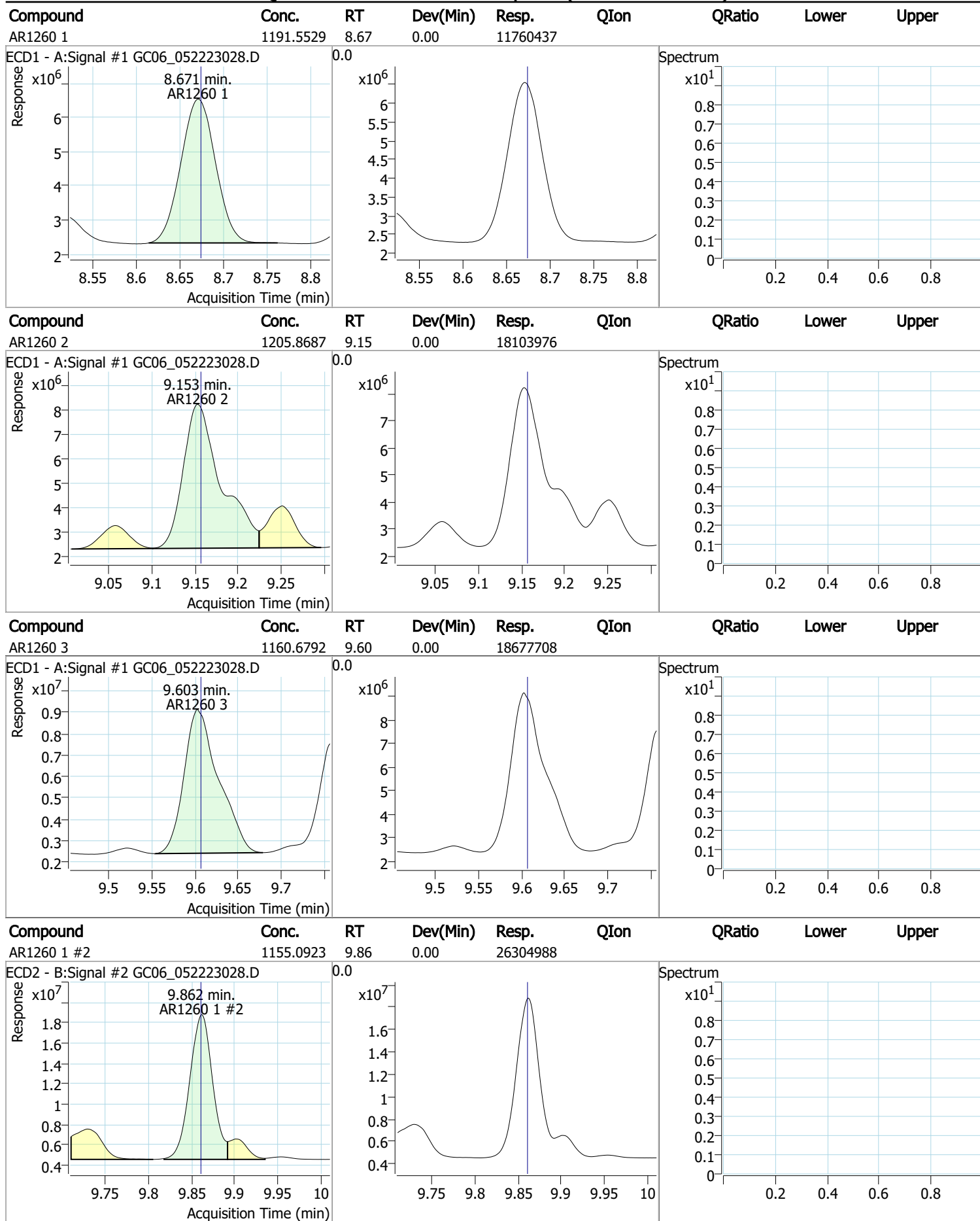
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1223.4577	6.31	0.00	6487826				



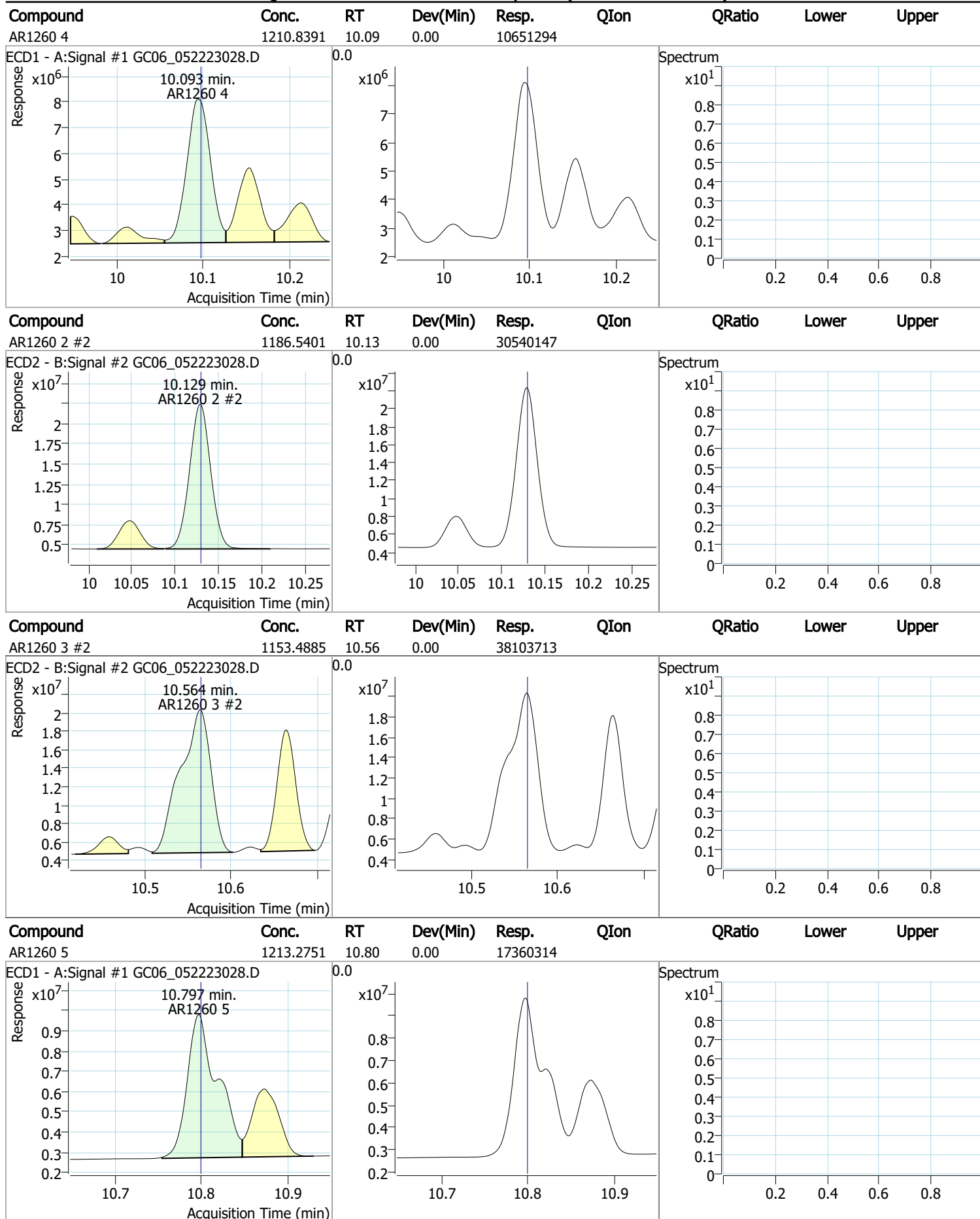
Quantitation Results Report (Not Reviewed)



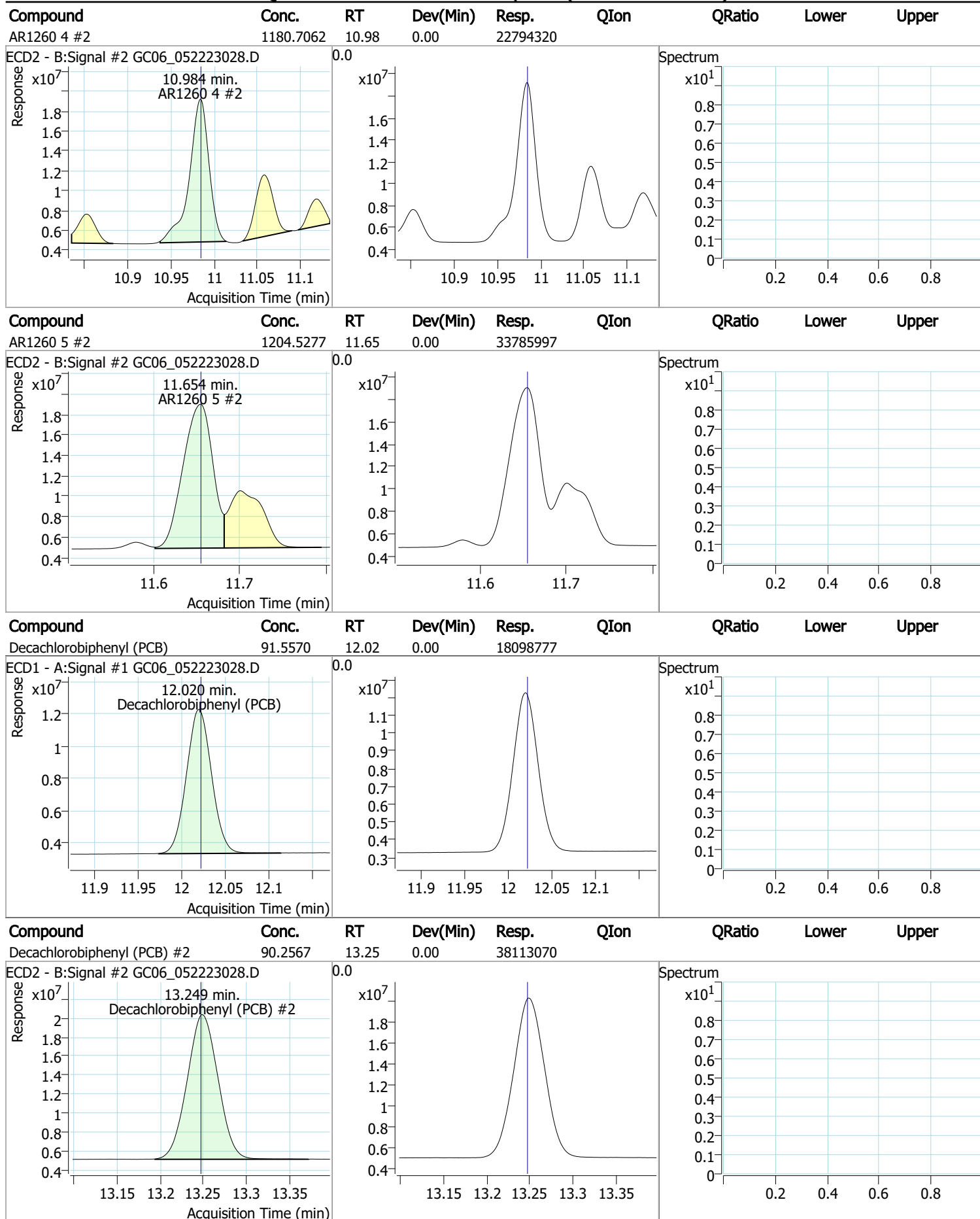
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



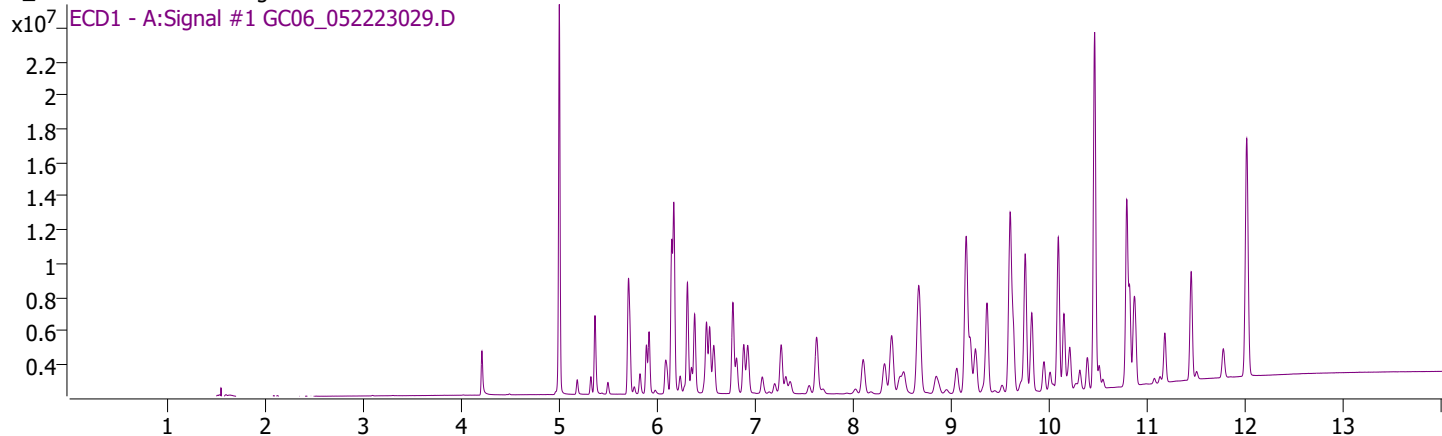
Quantitation Results Report (Not Reviewed)



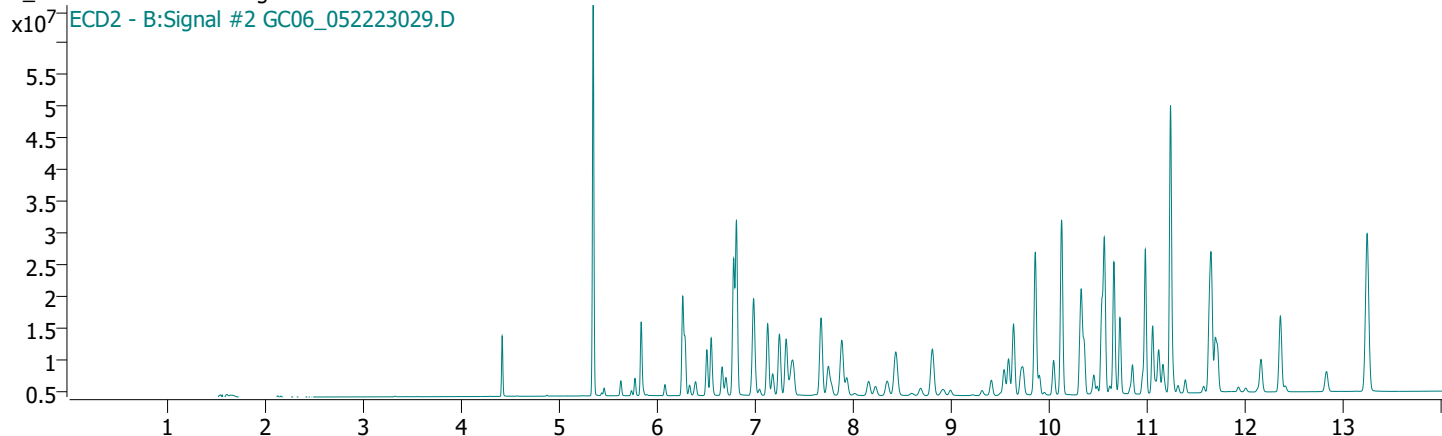
Quantitation Results Report (Not Reviewed)

Data File	GC06_052223029.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 10:51:18 PM
Sample Name	ICAL, S18188	Instrument	SVOA-GC06
Vial	20	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:35:07 PM
Ref Library			

GC06_052223029.D No MS Signals



GC06_052223029.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.210	0.0	3160953.52 2	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.417	0.0	8708626.25 0	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	5.000	0.0	25030409.1 75	149.3777	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 746.89%	*	
S TCMX (PCB) #2	5.346	0.0	64295492.1 09	139.5813	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 697.91%	*	
S Decachlorobiphenyl (PCB)	12.019	0.0	28685981.8 09	137.1148	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 685.57%	*	
S Decachlorobiphenyl (PCB) #2	13.248	0.0	59749651.3 64	130.6306	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 653.15%	*	

Target Compounds

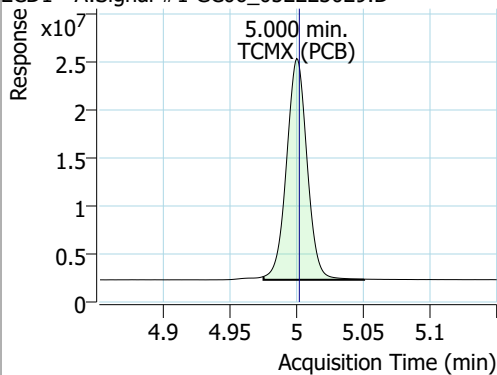
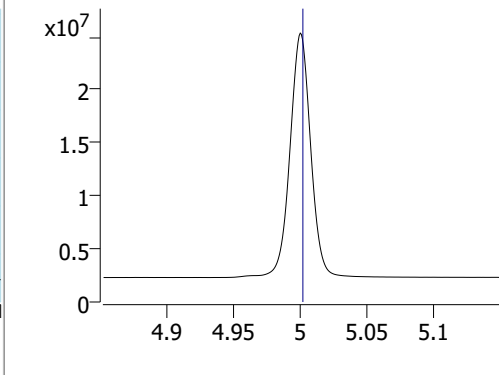
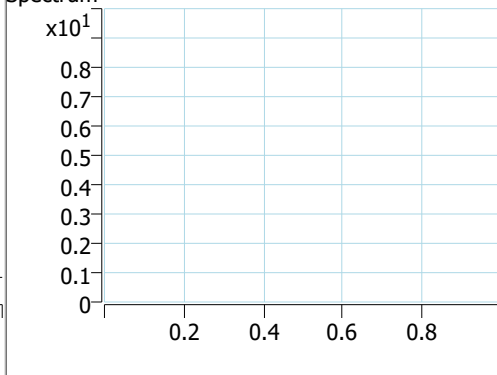
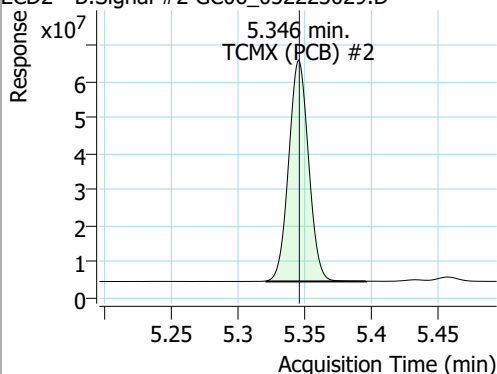
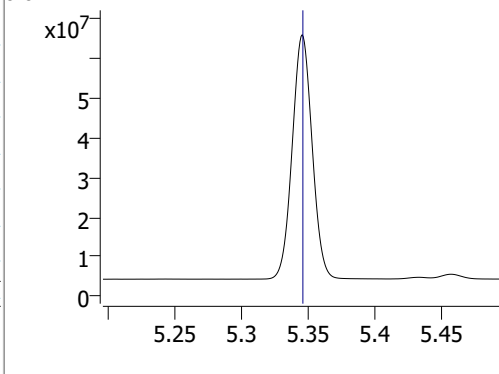
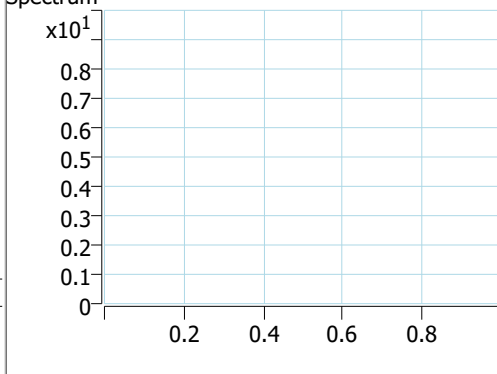
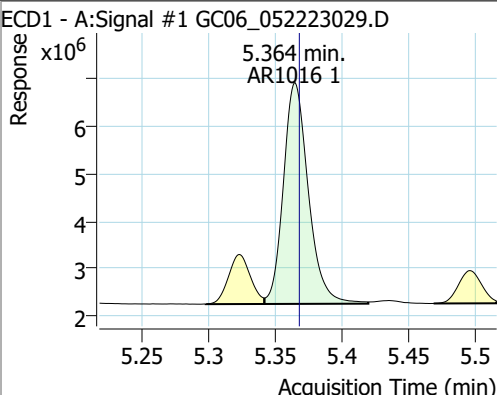
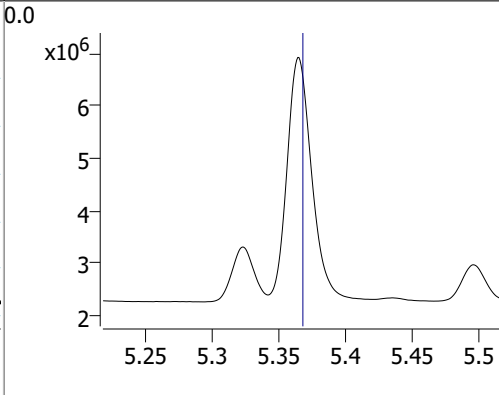
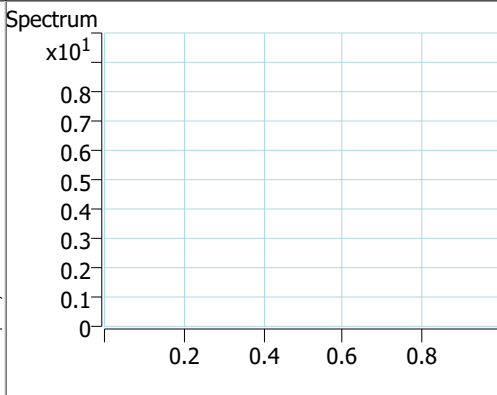
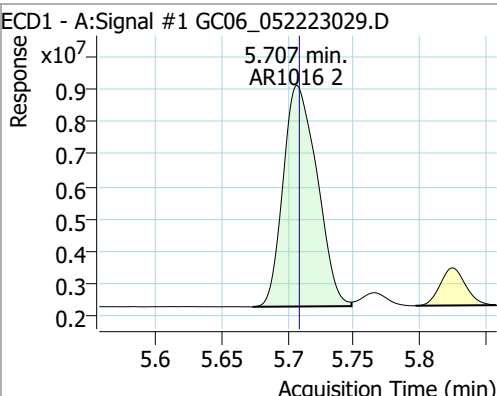
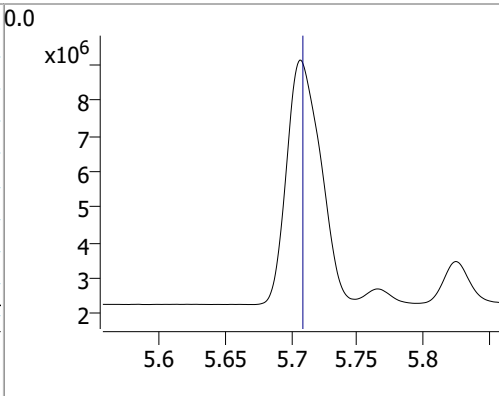
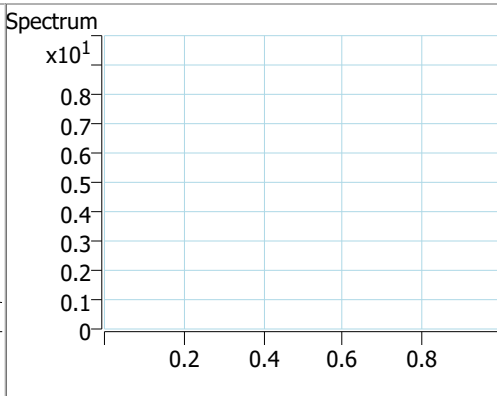
QValue

Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.364	0.0	6111222.29 4	1746.7582	ng/ml	100
T AR1016 2	5.707	0.0	12227855.0 91	1711.4256	ng/ml	100
T AR1016 1 #2	5.837	0.0	15232880.4 32	1681.0803	ng/ml	100
T AR1016 3	6.169	0.0	15869224.2 76	1741.3487	ng/ml m	100
T AR1016 2 #2	6.261	0.0	32724417.4 12	1608.8944	ng/ml	100
T AR1016 4	6.308	0.0	9777963.89 4	1742.2497	ng/ml	100
T AR1016 5	6.503	0.0	7149301.58 2	1716.3481	ng/ml	100
T AR1016 3 #2	6.808	0.0	43067076.5 09	1761.5789	ng/ml	100
T AR1016 4 #2	6.984	0.0	30031294.7 20	1703.6435	ng/ml	100
T AR1016 5 #2	7.248	0.0	16814382.6 25	1703.7207	ng/ml	100
T AR1260 1	8.670	0.0	18234205.6 12	1745.6166	ng/ml	100
T AR1260 2	9.154	0.0	27664782.7 87	1741.1071	ng/ml	100
T AR1260 3	9.603	0.0	29097860.5 52	1708.5270	ng/ml	100
T AR1260 1 #2	9.860	0.0	40763768.1 58	1652.5597	ng/ml	100
T AR1260 4	10.095	0.0	16560328.5 27	1778.7921	ng/ml	100
T AR1260 2 #2	10.129	0.0	47655773.7 97	1709.3504	ng/ml	100
T AR1260 3 #2	10.564	0.0	59893964.6 10	1673.9145	ng/ml	100
T AR1260 5	10.794	0.0	27496413.5 34	1815.7244	ng/ml m	100
T AR1260 4 #2	10.983	0.0	35335043.9 54	1689.7602	ng/ml	100
T AR1260 5 #2	11.653	0.0	53682827.7 20	1766.9314	ng/ml	100

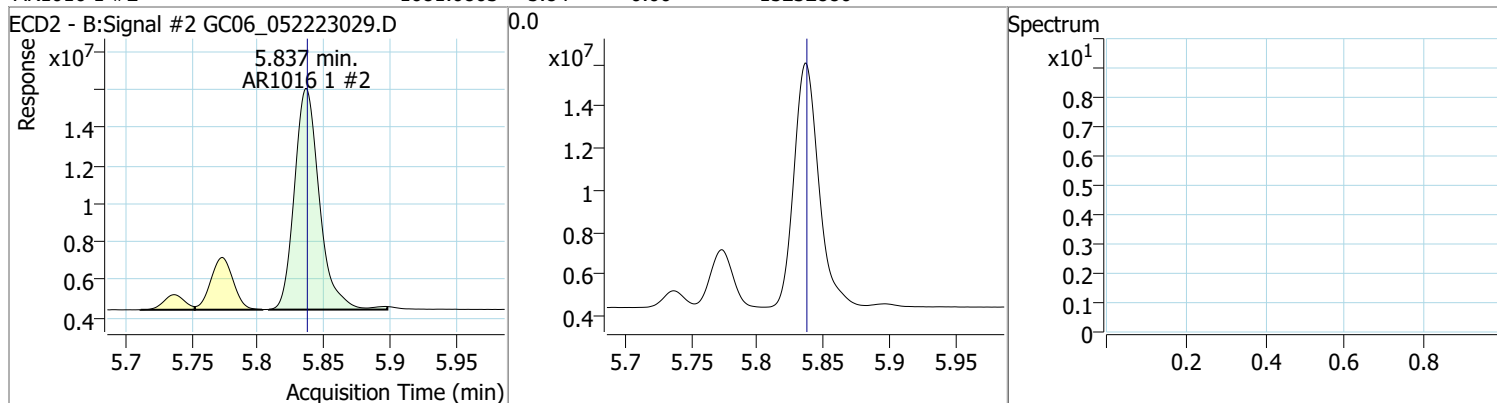
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

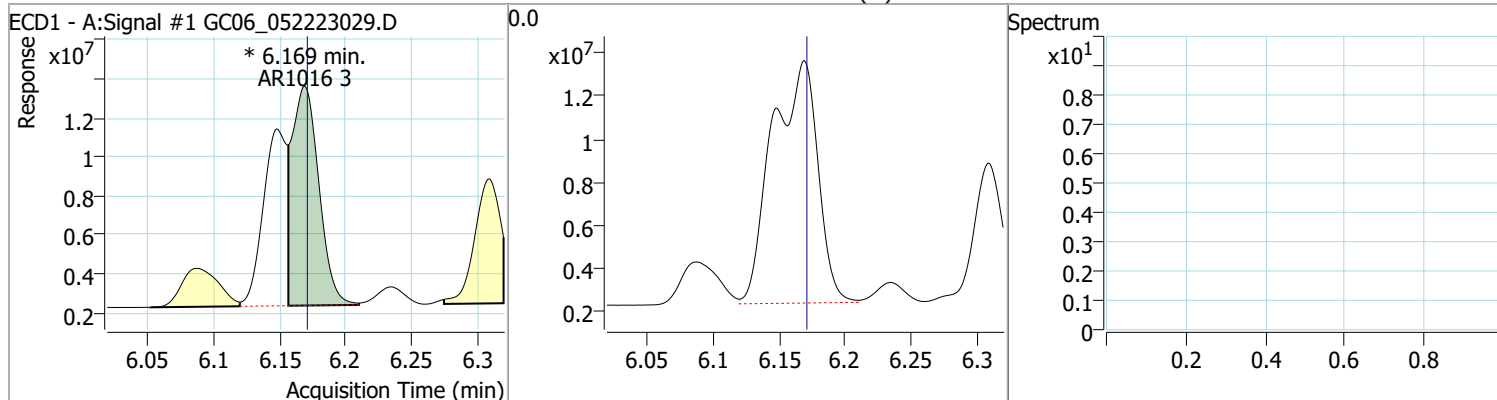
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	149.3777	5.00	0.00	25030409				
ECD1 - A:Signal #1 GC06_052223029.D								
								
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	139.5813	5.35	0.00	64295492				
ECD2 - B:Signal #2 GC06_052223029.D								
								
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1746.7582	5.36	0.00	6111222				
ECD1 - A:Signal #1 GC06_052223029.D								
								
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1711.4256	5.71	0.00	12227855				
ECD1 - A:Signal #1 GC06_052223029.D								
								

Quantitation Results Report (Not Reviewed)

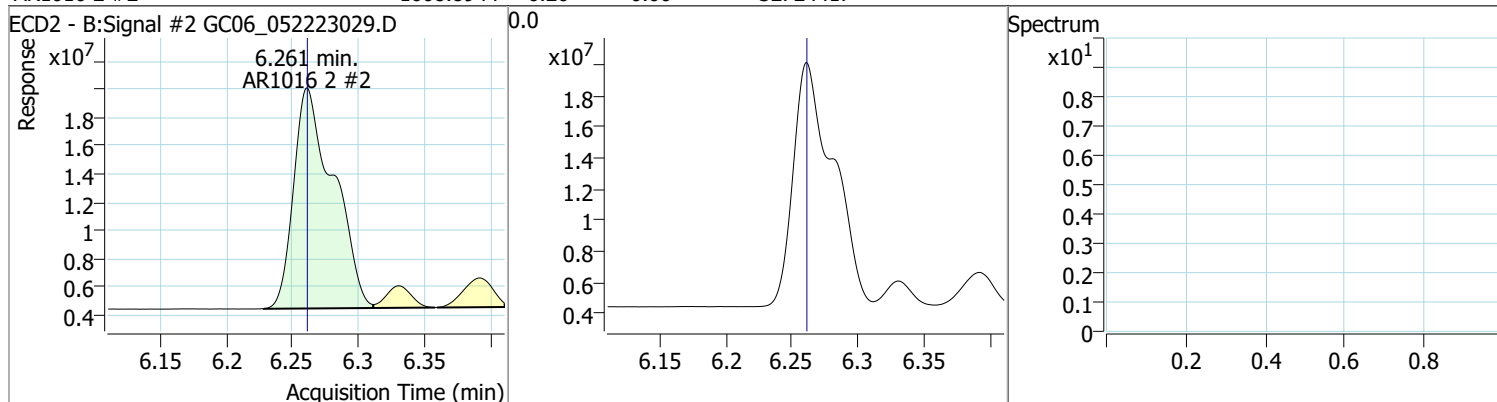
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1681.0803	5.84	0.00	15232880				



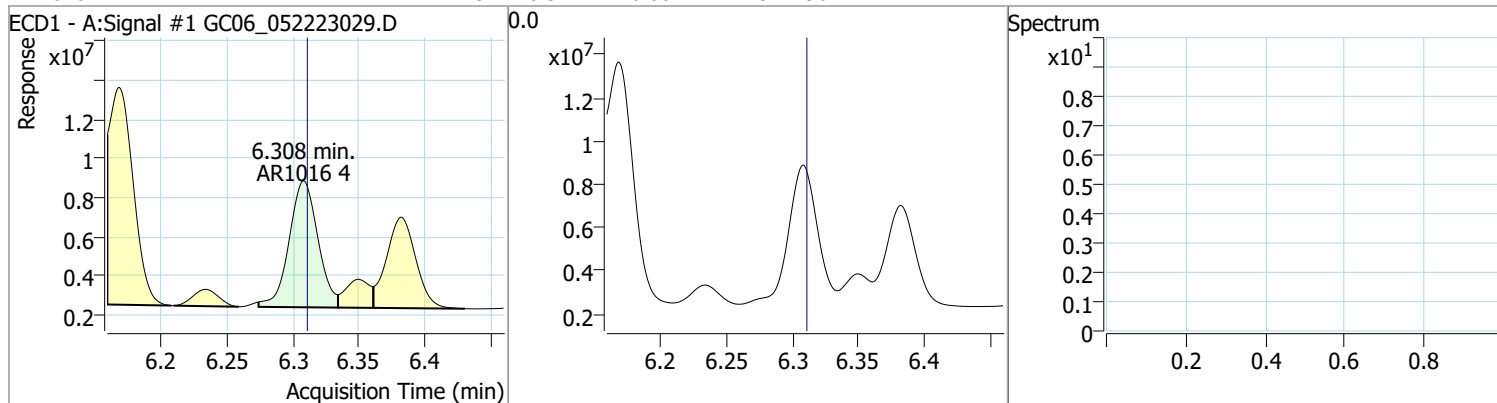
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1741.3487	6.17	0.00	15869224 (m)				



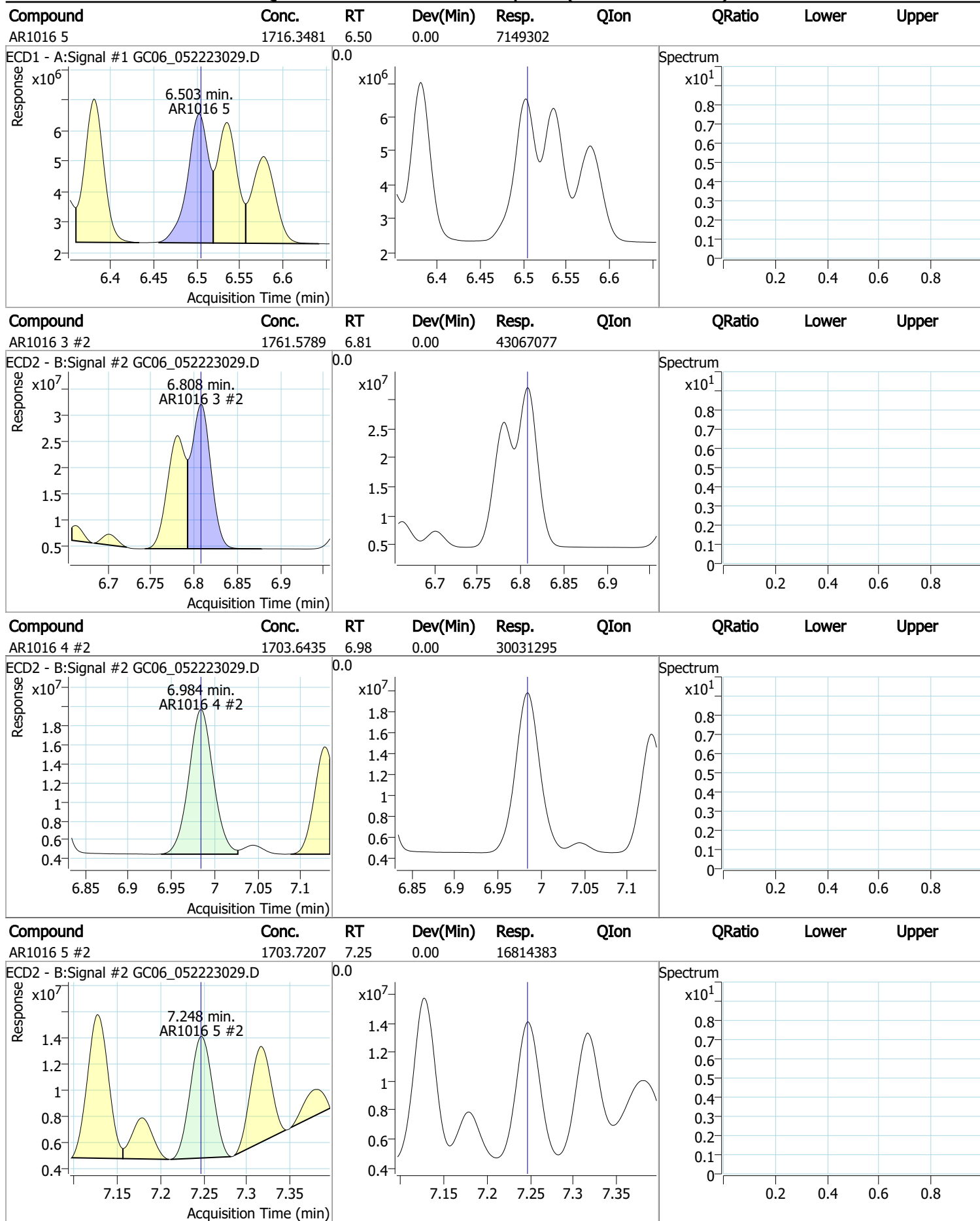
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	1608.8944	6.26	0.00	32724417				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1742.2497	6.31	0.00	9777964				

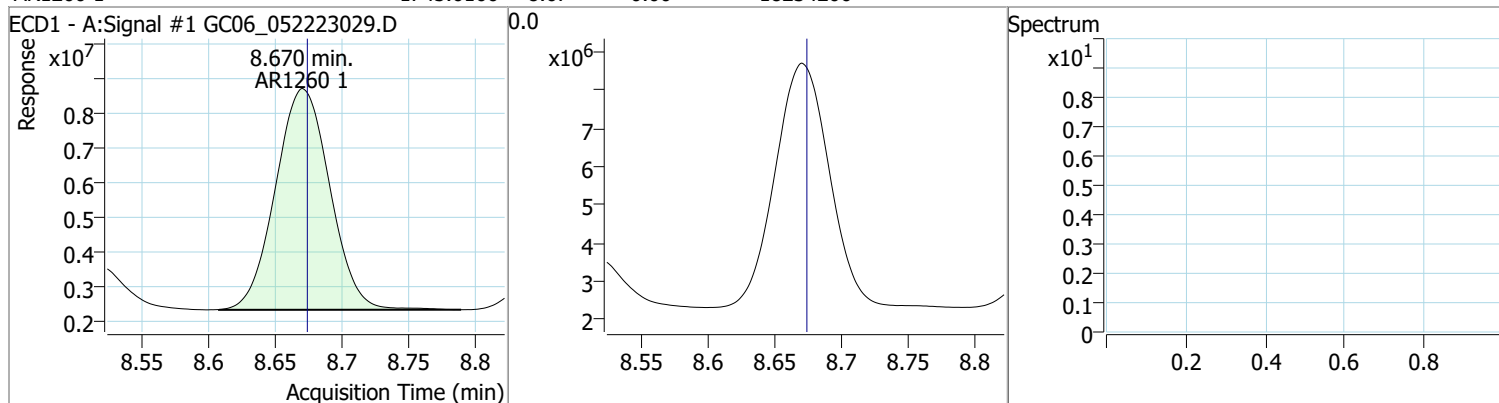


Quantitation Results Report (Not Reviewed)

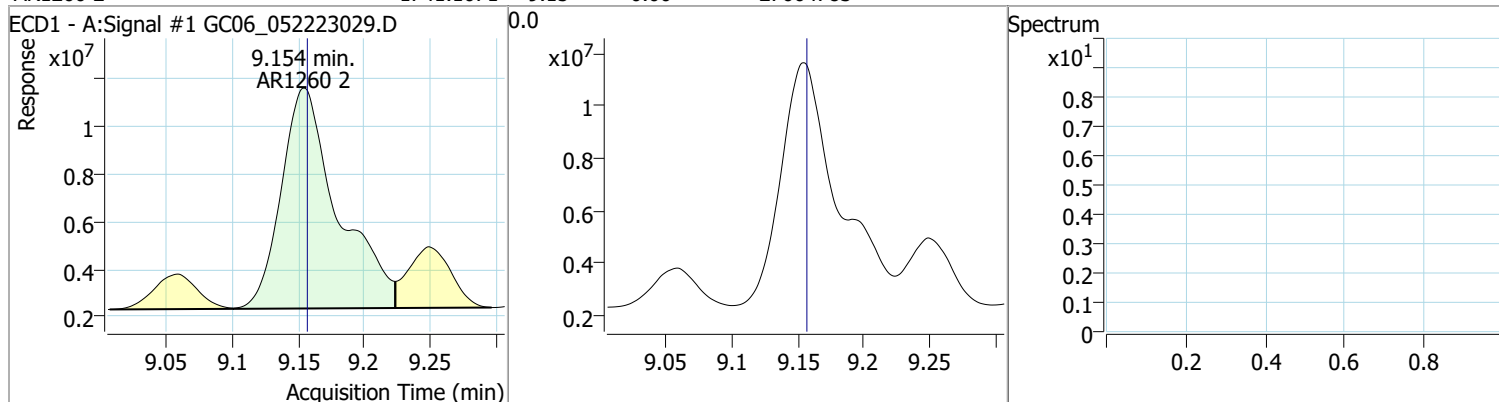


Quantitation Results Report (Not Reviewed)

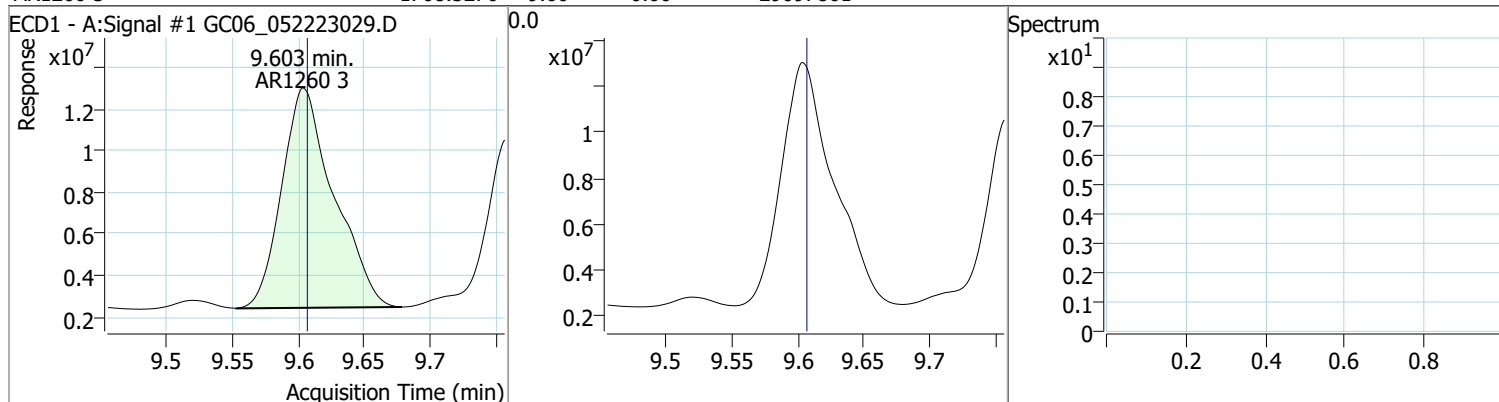
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1745.6166	8.67	0.00	18234206				



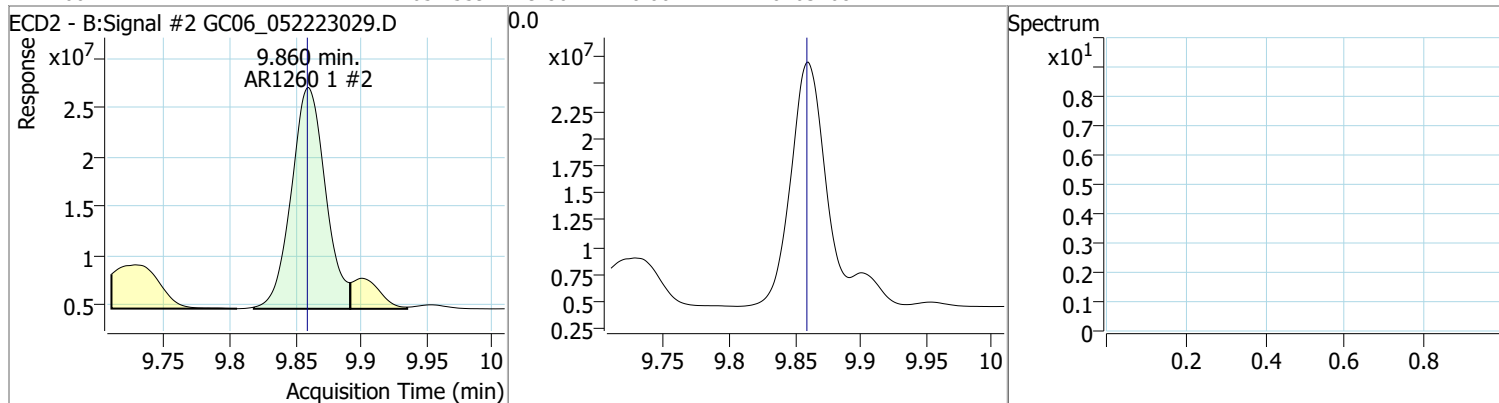
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1741.1071	9.15	0.00	27664783				



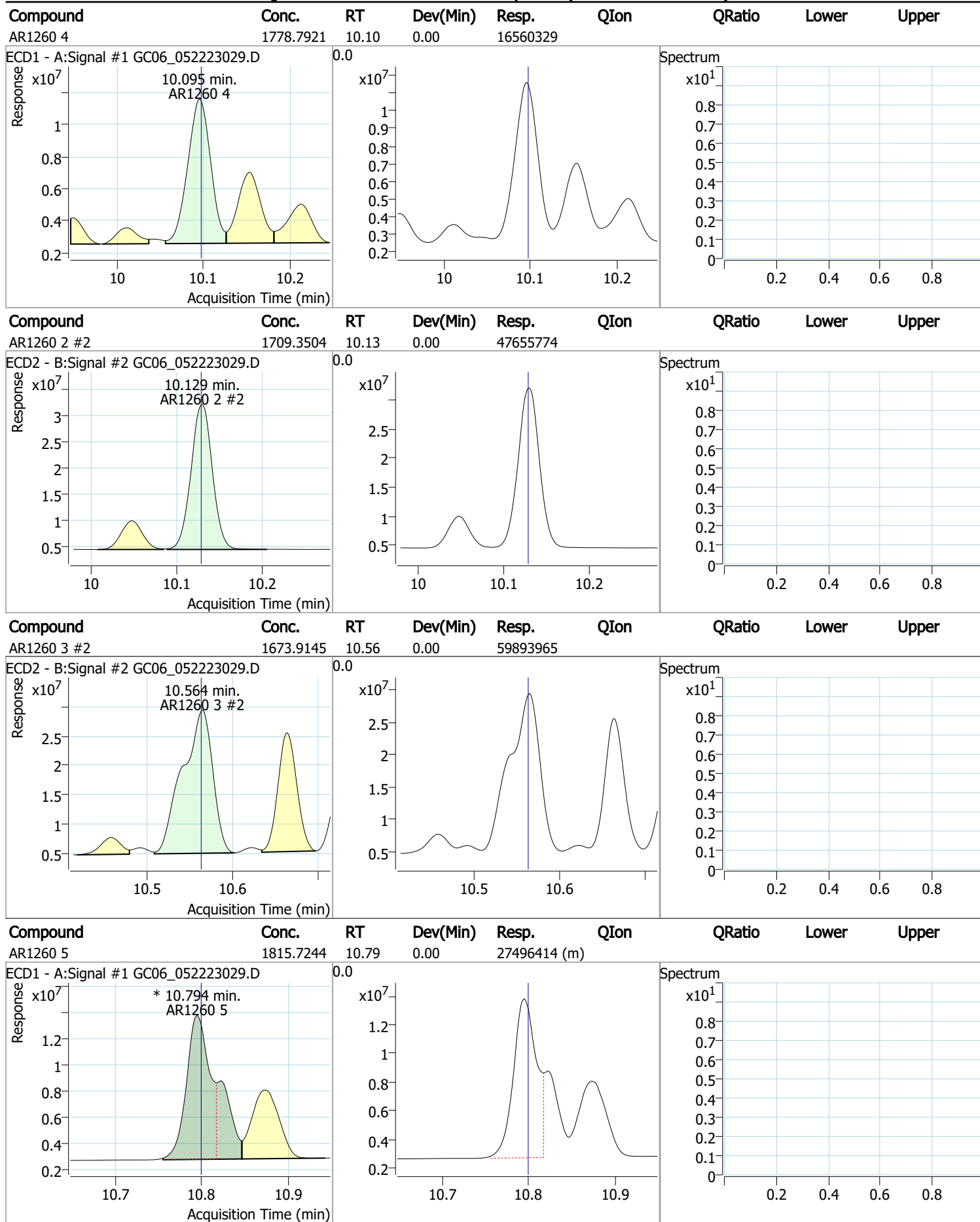
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1708.5270	9.60	0.00	29097861				



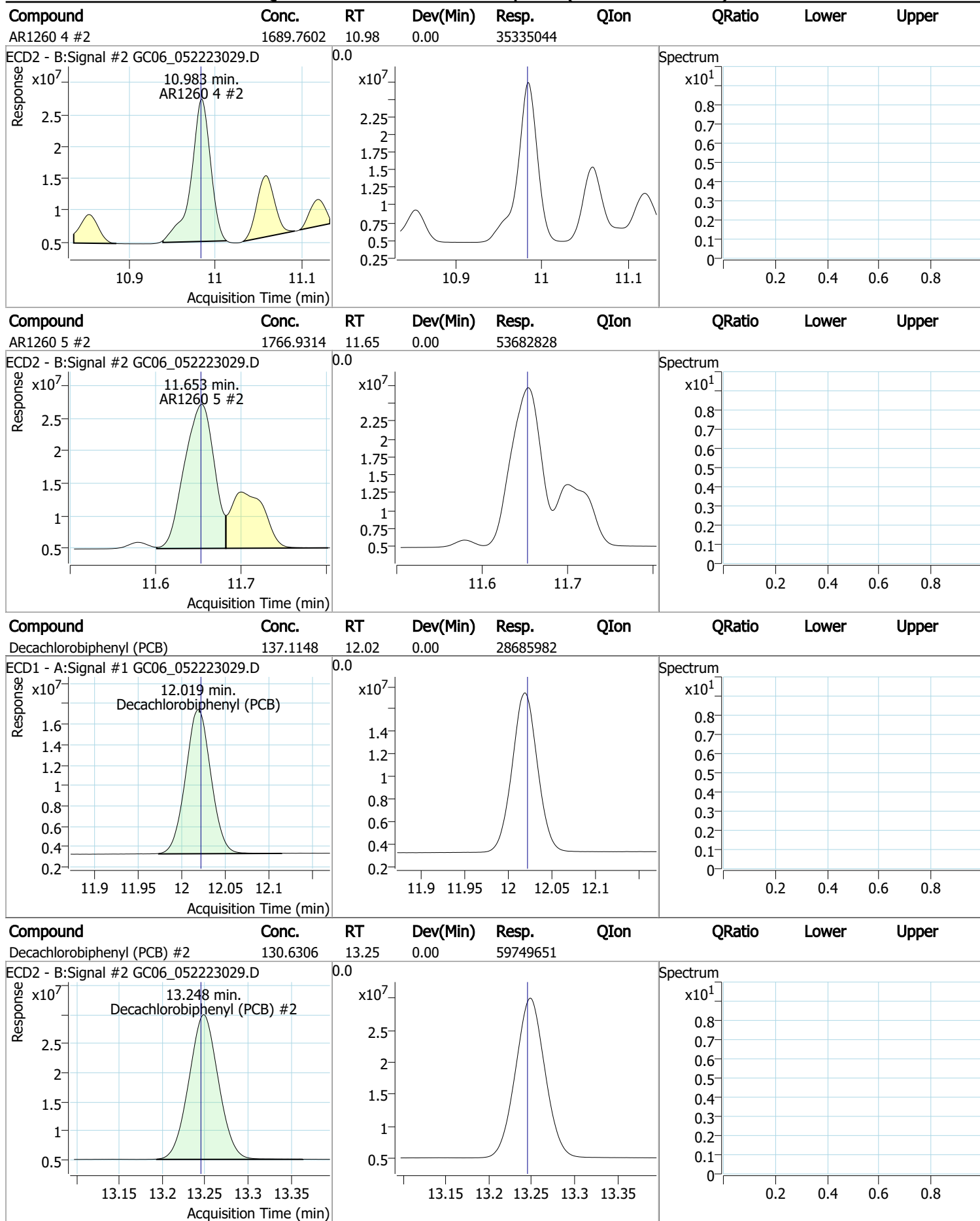
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1652.5597	9.86	0.00	40763768				



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)

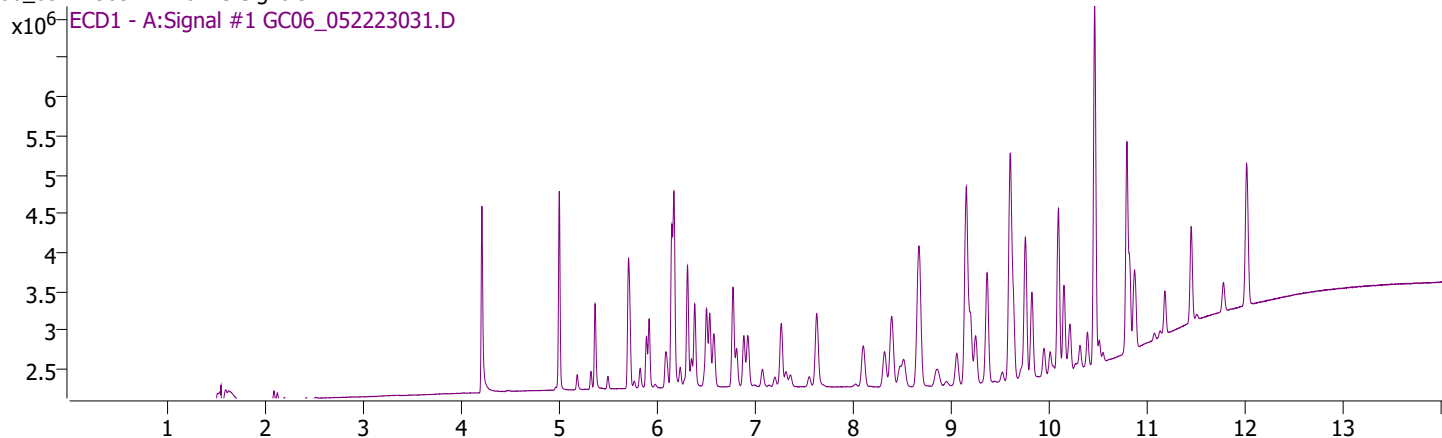


Quantitation Results Report (Not Reviewed)

Data File	GC06_052223031.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	5/22/2023 11:27:51 PM
Sample Name	ICV, S18189	Instrument	SVOA-GC06
Vial	21	Multiplier	1.00
DA Method File	PCB_608_052223_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	052223PCBICAL.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			

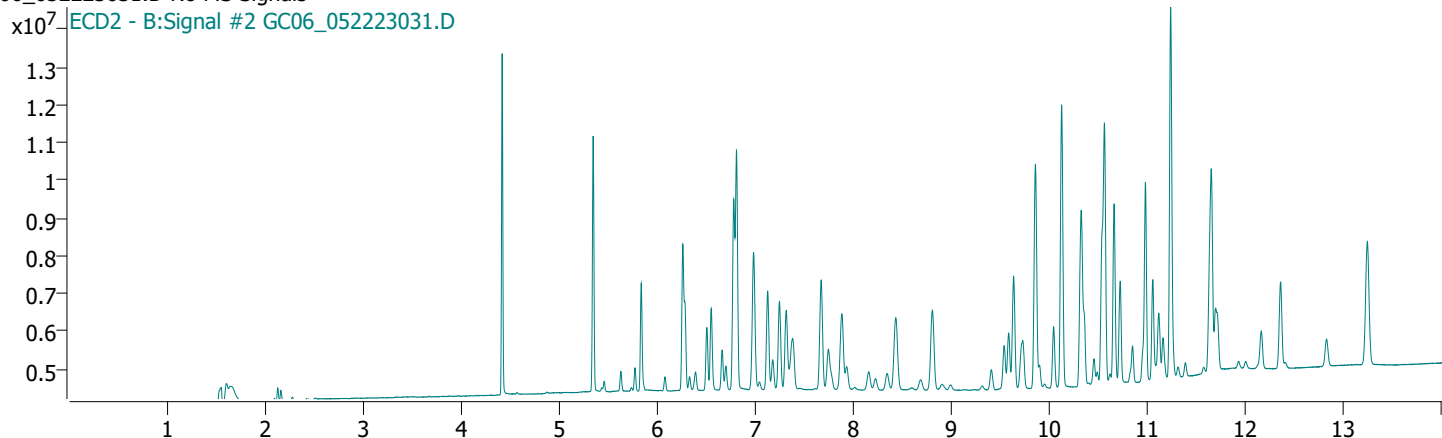
GC06_052223031.D No MS Signals

x10⁶ ECD1 - A:Signal #1 GC06_052223031.D



GC06_052223031.D No MS Signals

x10⁷ ECD2 - B:Signal #2 GC06_052223031.D



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.210	0.0	2965086.26 9	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.417	0.0	8144012.69 8	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	5.000	0.0	2931967.14 3	18.5566	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 92.78%			
S TCMX (PCB) #2	5.346	0.0	7455081.71 2	17.2571	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 86.29%			
S Decachlorobiphenyl (PCB)	12.017	0.0	3695856.36 2	18.6794	ng/ml	-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 93.40%			
S Decachlorobiphenyl (PCB) #2	13.249	0.0	8082909.83 2	18.7941	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%		Recovery = 93.97%			

Target Compounds

QValue

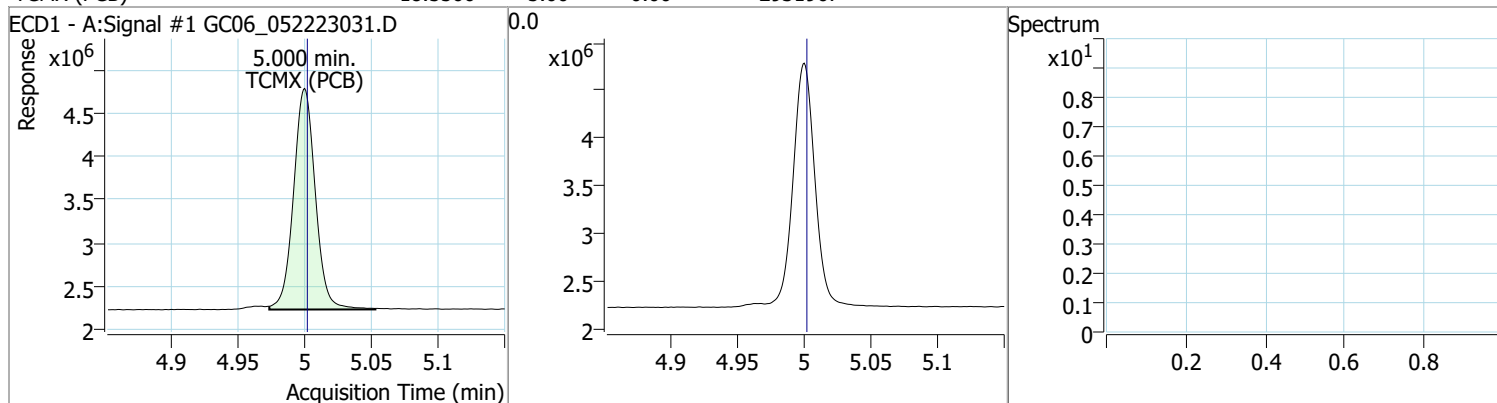
Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.365	0.0	1332421.40 0	402.8922	ng/ml m	100
T AR1016 2	5.708	0.0	2964713.59 5	441.5635	ng/ml	100
T AR1016 1 #2	5.837	0.0	3640723.50 7	429.1921	ng/ml	100
T AR1016 3	6.170	0.0	3642631.28 5	424.4663	ng/ml m	100
T AR1016 2 #2	6.261	0.0	7985254.36 5	419.0600	ng/ml	100
T AR1016 4	6.309	0.0	2299146.96 2	444.4953	ng/ml	100
T AR1016 5	6.503	0.0	1692917.79 6	427.9434	ng/ml	100
T AR1016 3 #2	6.808	0.0	9914511.35 2	432.4020	ng/ml	100
T AR1016 4 #2	6.983	0.0	7064071.26 1	428.0494	ng/ml	100
T AR1016 5 #2	7.248	0.0	3988594.70 0	453.0992	ng/ml	100
T AR1260 1	8.672	0.0	5089637.34 0	519.0721	ng/ml	100
T AR1260 2	9.155	0.0	7801118.04 9	521.1614	ng/ml	100
T AR1260 3	9.604	0.0	8028245.33 5	501.9373	ng/ml	100
T AR1260 1 #2	9.861	0.0	11176479.3 52	486.6178	ng/ml	100
T AR1260 4	10.095	0.0	3839797.73 8	440.6434	ng/ml	100
T AR1260 2 #2	10.128	0.0	13040618.8 84	503.5826	ng/ml	100
T AR1260 3 #2	10.564	0.0	16611472.4 26	501.2718	ng/ml	100
T AR1260 5	10.795	0.0	6181032.63 1	448.5989	ng/ml	100
T AR1260 4 #2	10.983	0.0	8587878.65 4	443.6775	ng/ml	100
T AR1260 5 #2	11.655	0.0	12526222.1 08	446.4757	ng/ml	100

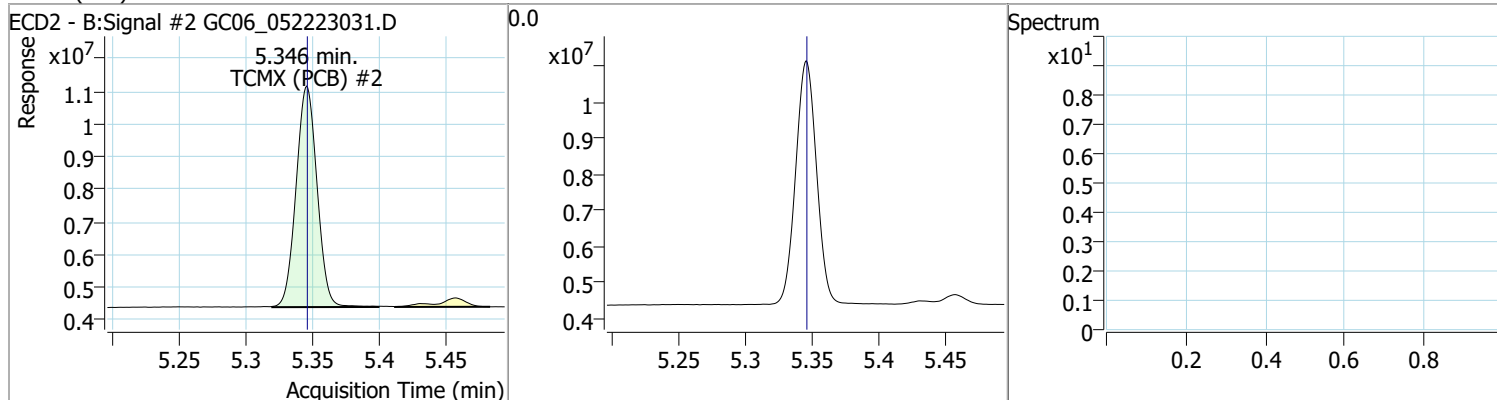
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

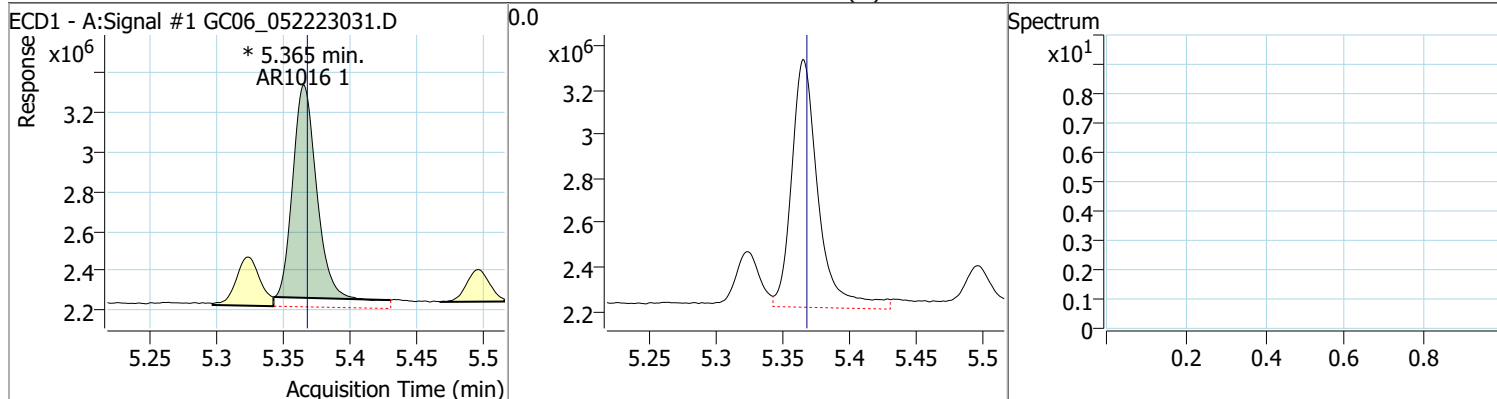
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	18.5566	5.00	0.00	2931967				



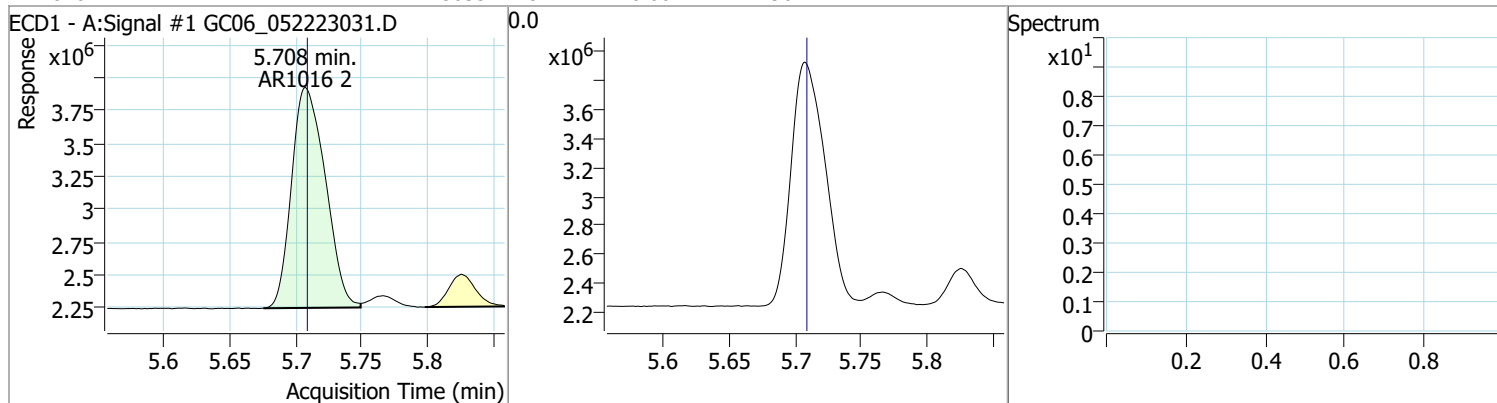
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	17.2571	5.35	0.00	7455082				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	402.8922	5.37	0.00	1332421 (m)				

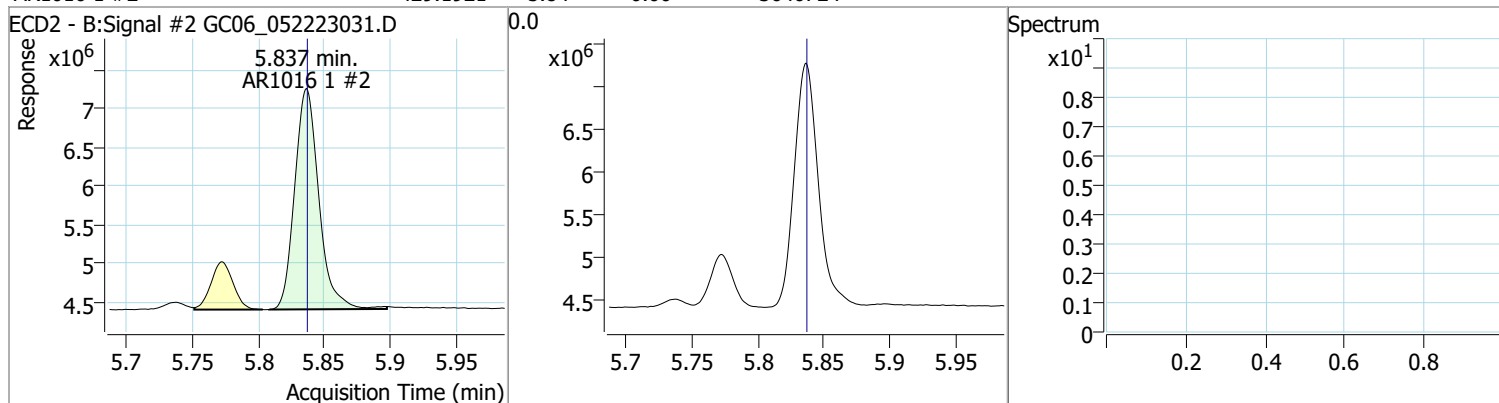


Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	441.5635	5.71	0.00	2964714				

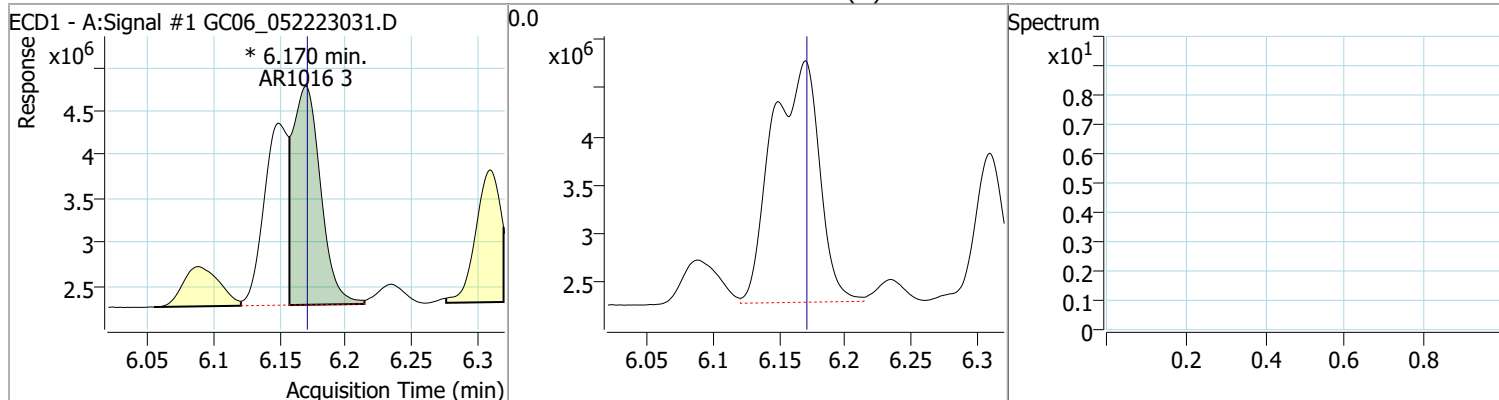


Quantitation Results Report (Not Reviewed)

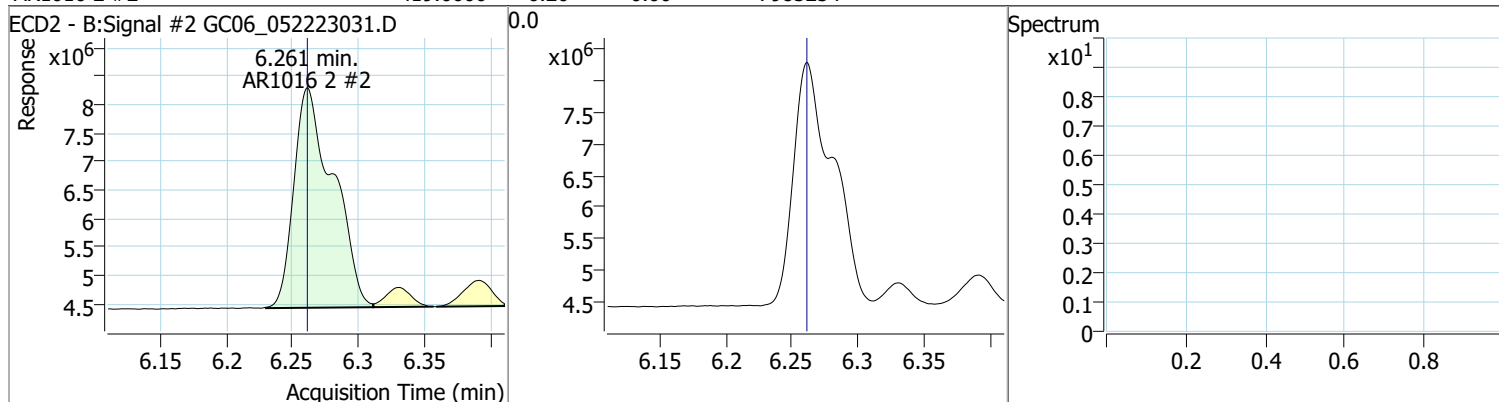
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	429.1921	5.84	0.00	3640724				



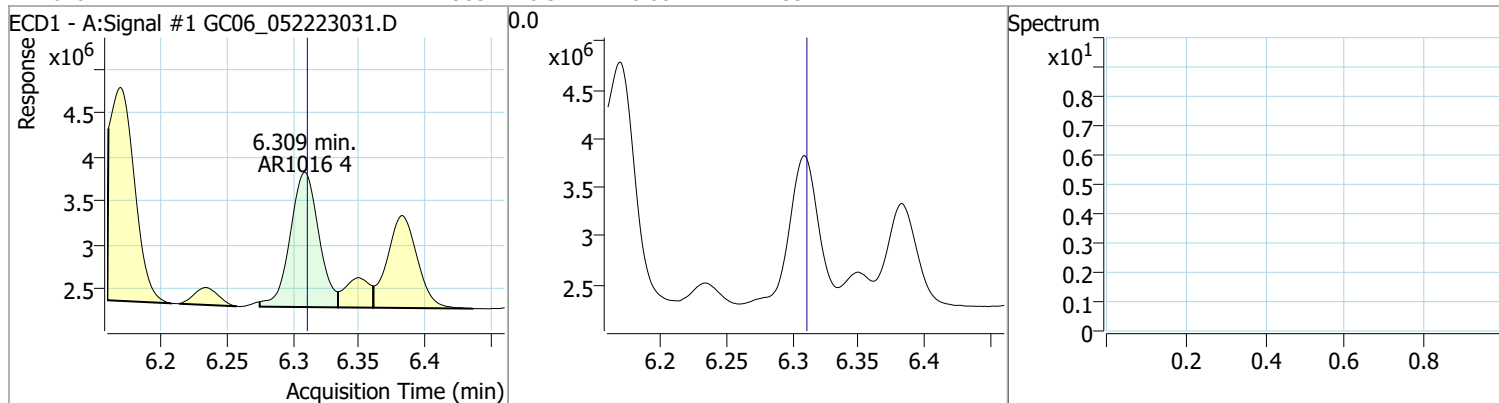
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	424.4663	6.17	0.00	3642631 (m)				



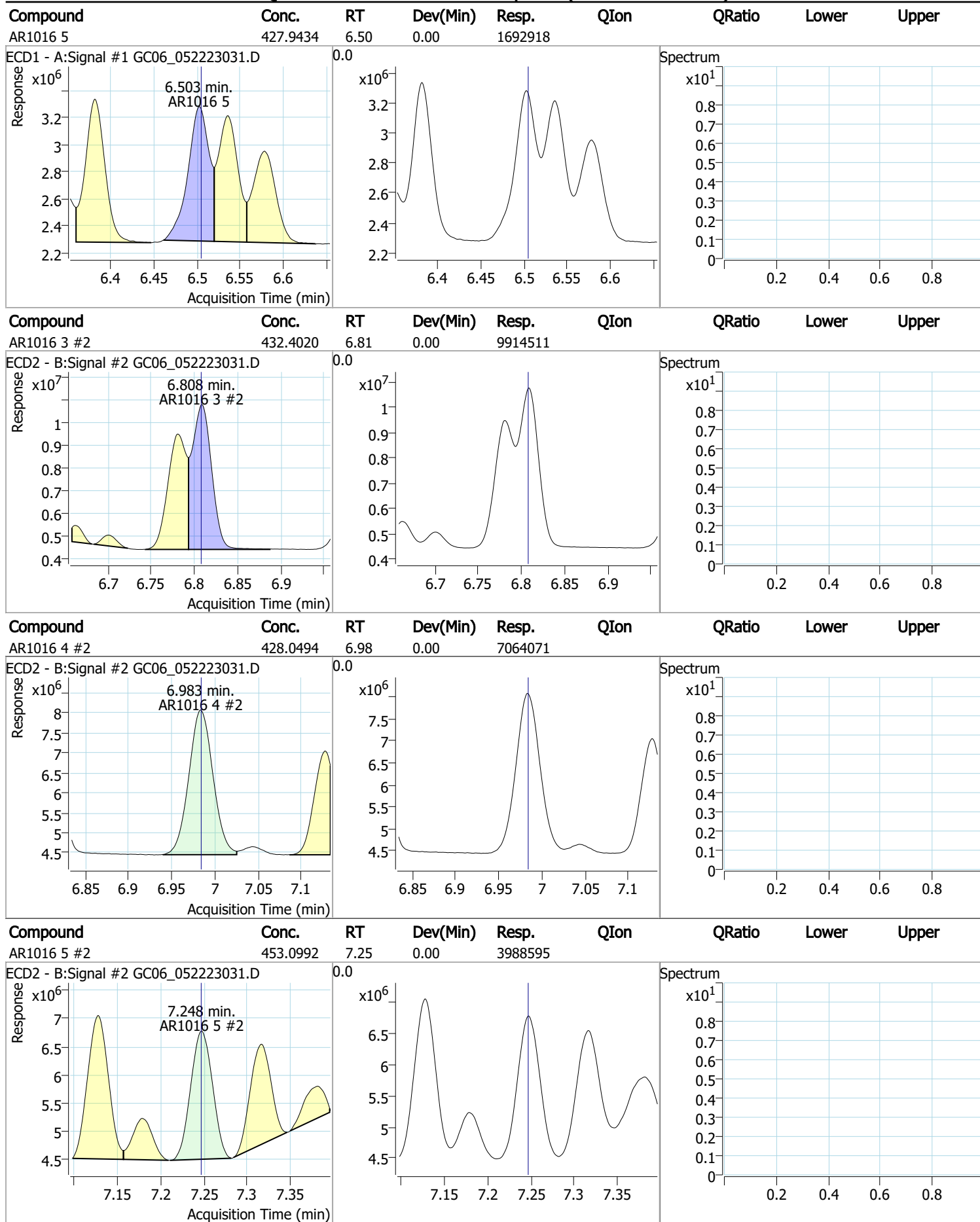
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	419.0600	6.26	0.00	7985254				



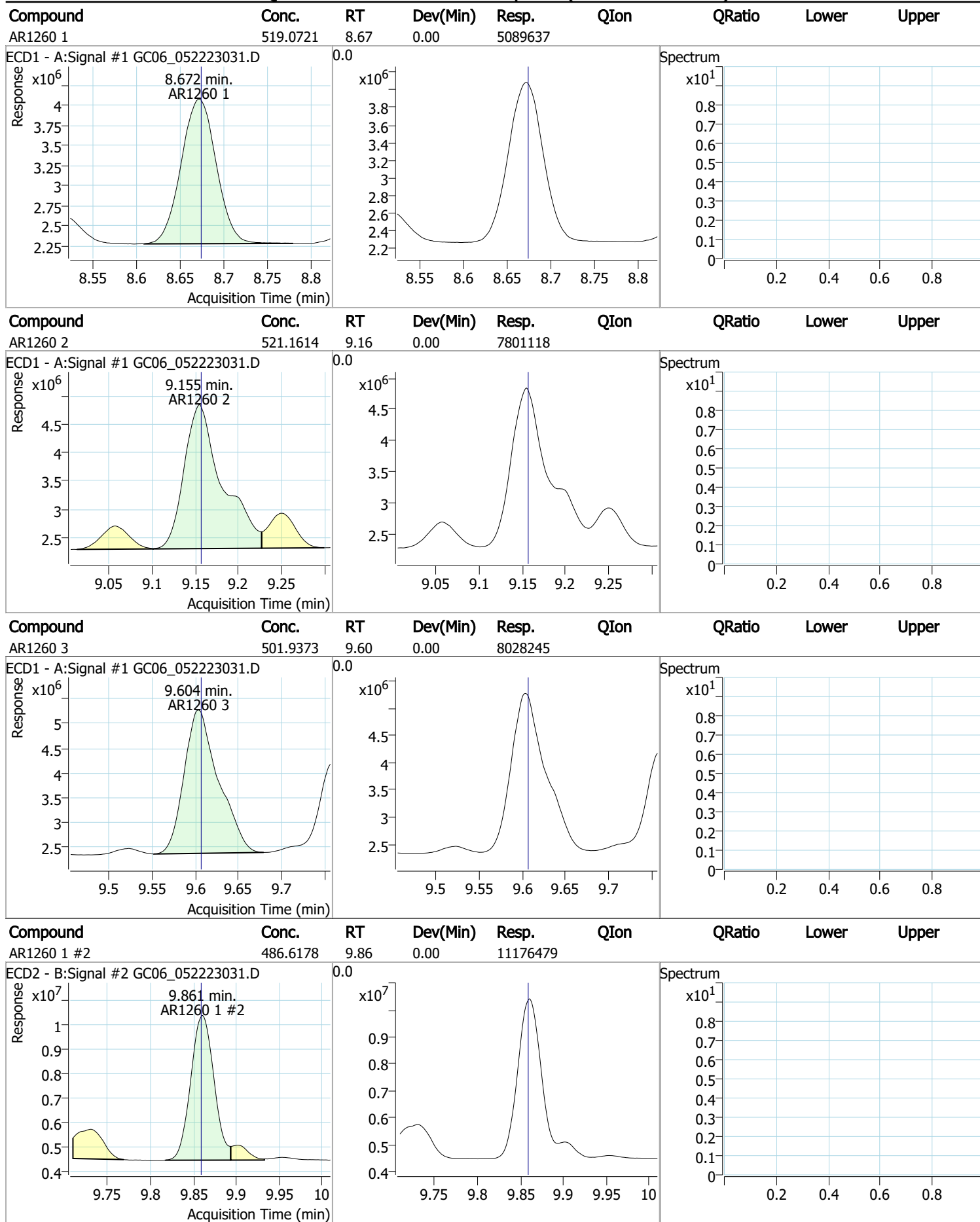
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	444.4953	6.31	0.00	2299147				



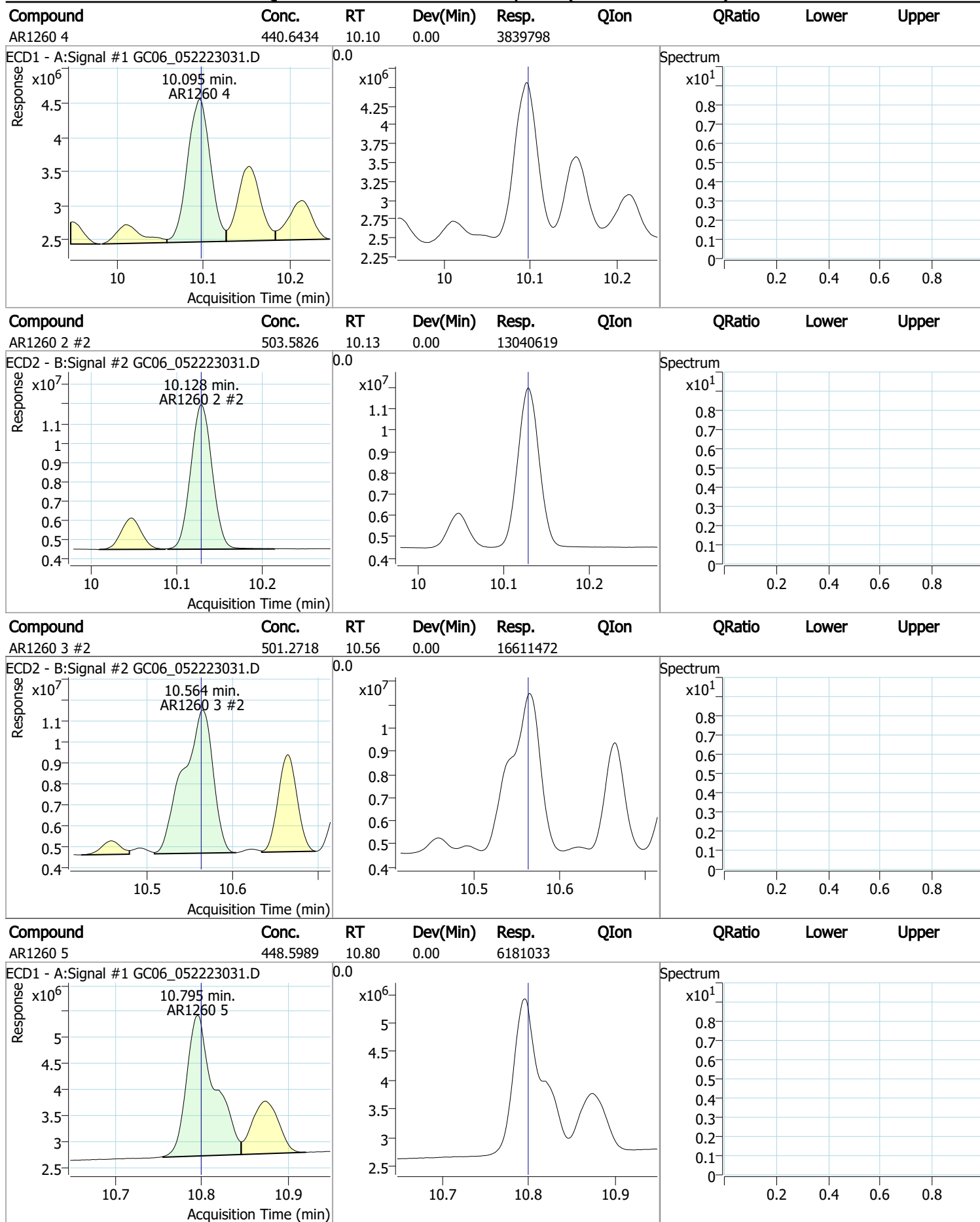
Quantitation Results Report (Not Reviewed)



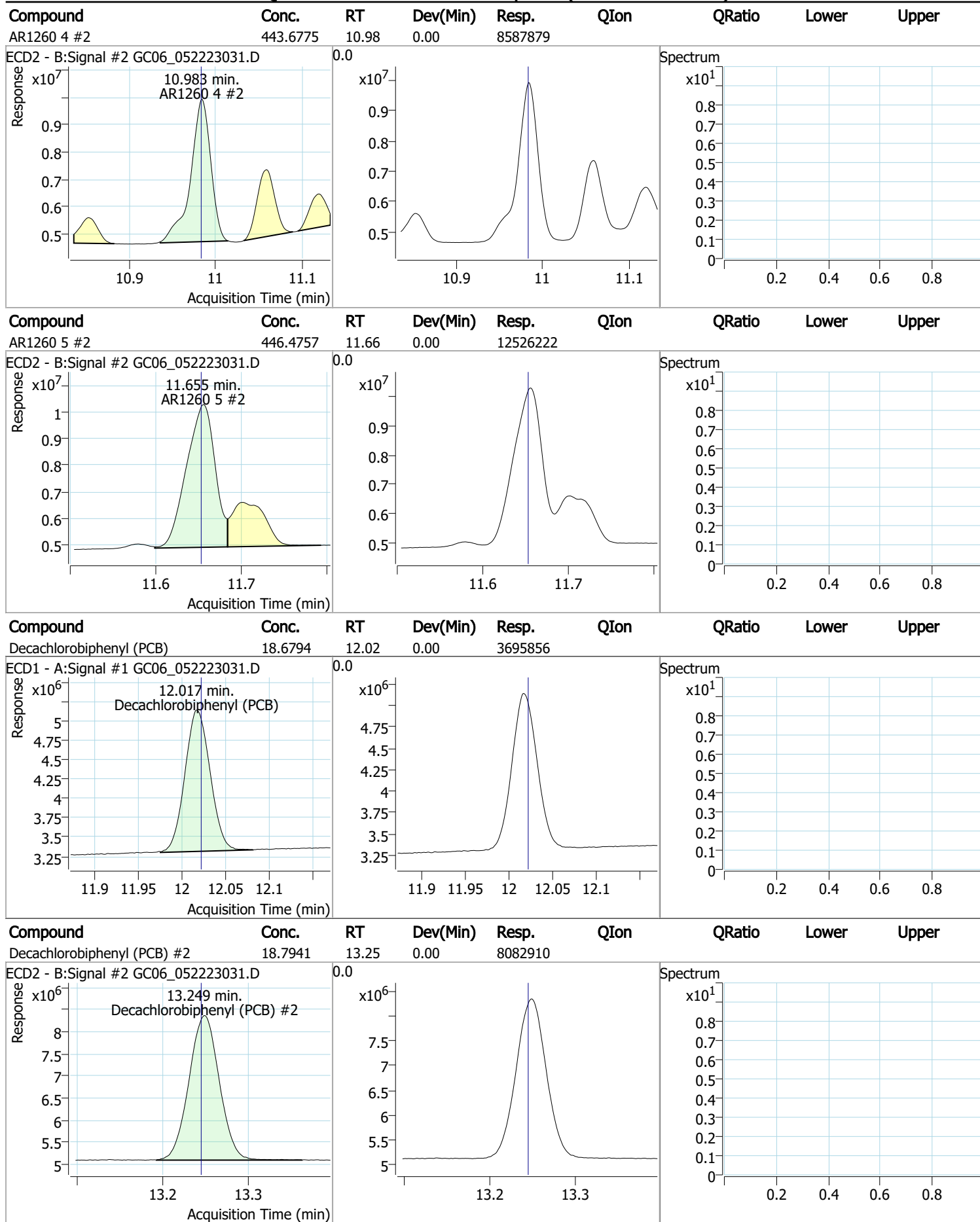
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Continuing Calibration Verification Raw Data

ENTHALPY CONTINUING CALIBRATION FOR 491224 PCBs Wipe
EPA 8082

Inst: SVOA-GC06	File: gc06_090523004	IDF: 1.0
Seqnum: 453357659004	Caldate: 22-MAY-2023	Time: 05-SEP-2023 09:34
Cal: 453205686001		

Standards: S18732

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	502.9	ug/L	1	15	0.0000	
Aroclor-1260	A			500.0	473.5	ug/L	-5	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.3346	1.5365	40.00	46.05	ug/L	15	15	0.0000	
TCMX (PCB)	A	1.0658	1.0102	40.00	37.92	ug/L	-5	15	0.0000	
Aroclor-1016	B			500.0	472.5	ug/L	-6	15	0.0000	
Aroclor-1260	B			500.0	493.7	ug/L	-1	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.0562	1.2337	40.00	46.72	ug/L	17	15	0.0000	c+
TCMX (PCB)	B	1.0609	0.9619	40.00	36.27	ug/L	-9	15	0.0000	

ISTD (ICAL gc06_052223022)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	7279227	12645971	73.73
1-bromo-2-nitrobenzene (PCB)	A	2781470	4899467	76.15

09/05/23 : 500 PPB PCB CCV

MES 09/05/23 [Aroclor-1016 A]: Separated from coeluting peak for Ch. A.

+ = high bias c = CCV

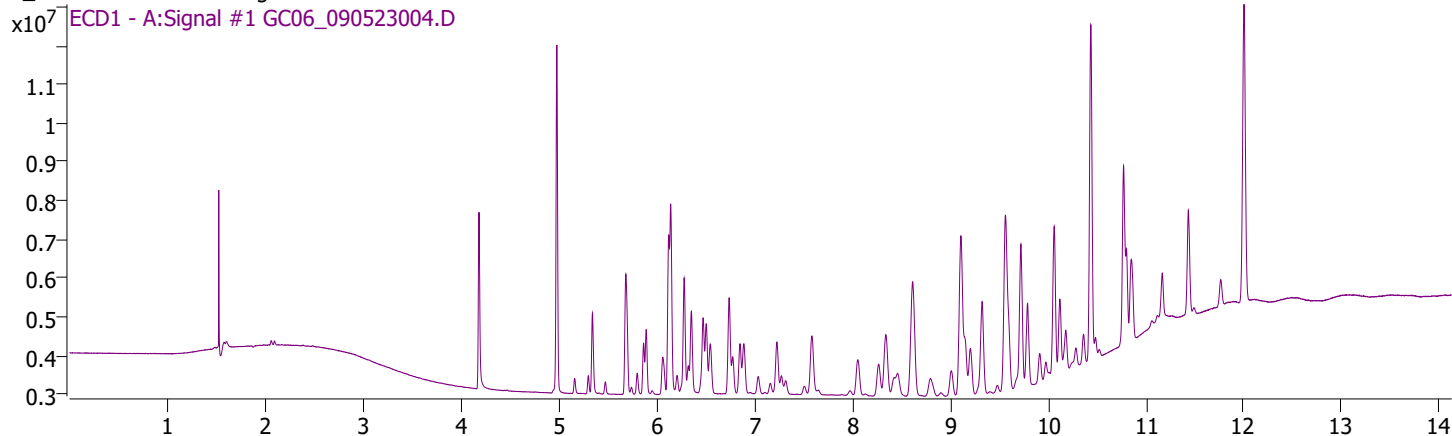
Analyst: MES 09/05/23 *

Reviewer: MTS 09/06/23

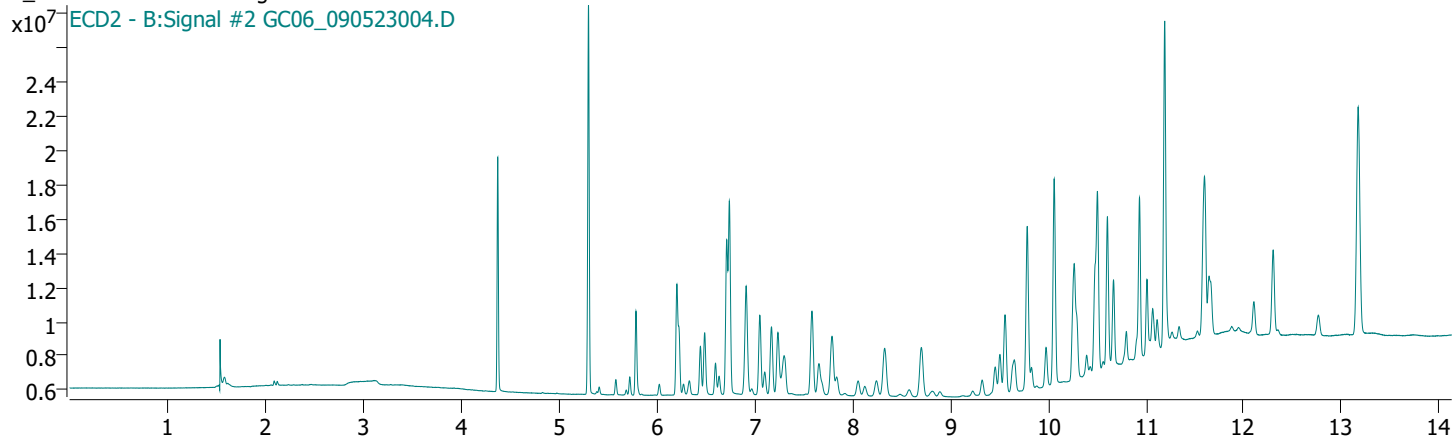
Quantitation Results Report (Not Reviewed)

Data File	GC06_090523004.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	9/5/2023 9:34:22 AM
Sample Name	CCV, S18732	Instrument	SVOA-GC06
Vial	144	Multiplier	1.00
DA Method File	PCB_608_052323_GC06_59.m	Comment	500 PPB PCB CCV
Tune File	ATUNE.U	Tune Date	
Batch Name	090523PCB.batch.bin	Last Calib Update	5/23/2023 1:46:10 PM
Ref Library			

GC06_090523004.D No MS Signals



GC06_090523004.D No MS Signals



Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.184	0.0	4899466.627	20.0000	ng/ml	0.009
M 1-bromo-2-nitrobenzene (PCB) #2	4.376	0.0	12645970.752	20.0000	ng/ml	0.001
System Monitoring Compounds						
S TCMX (PCB)	4.979	0.0	9898947.620	37.9155	ng/ml	0.010
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 189.58%	*	
S TCMX (PCB) #2	5.303	0.0	24327244.459	36.2655	ng/ml	0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 181.33%	*	
S Decachlorobiphenyl (PCB)	12.003	0.0	15056168.198	46.0522	ng/ml	0.026
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 230.26%	*	
S Decachlorobiphenyl (PCB) #2	13.169	0.0	31203755.530	46.7248	ng/ml	0.014
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 233.62%	*	

Target Compounds

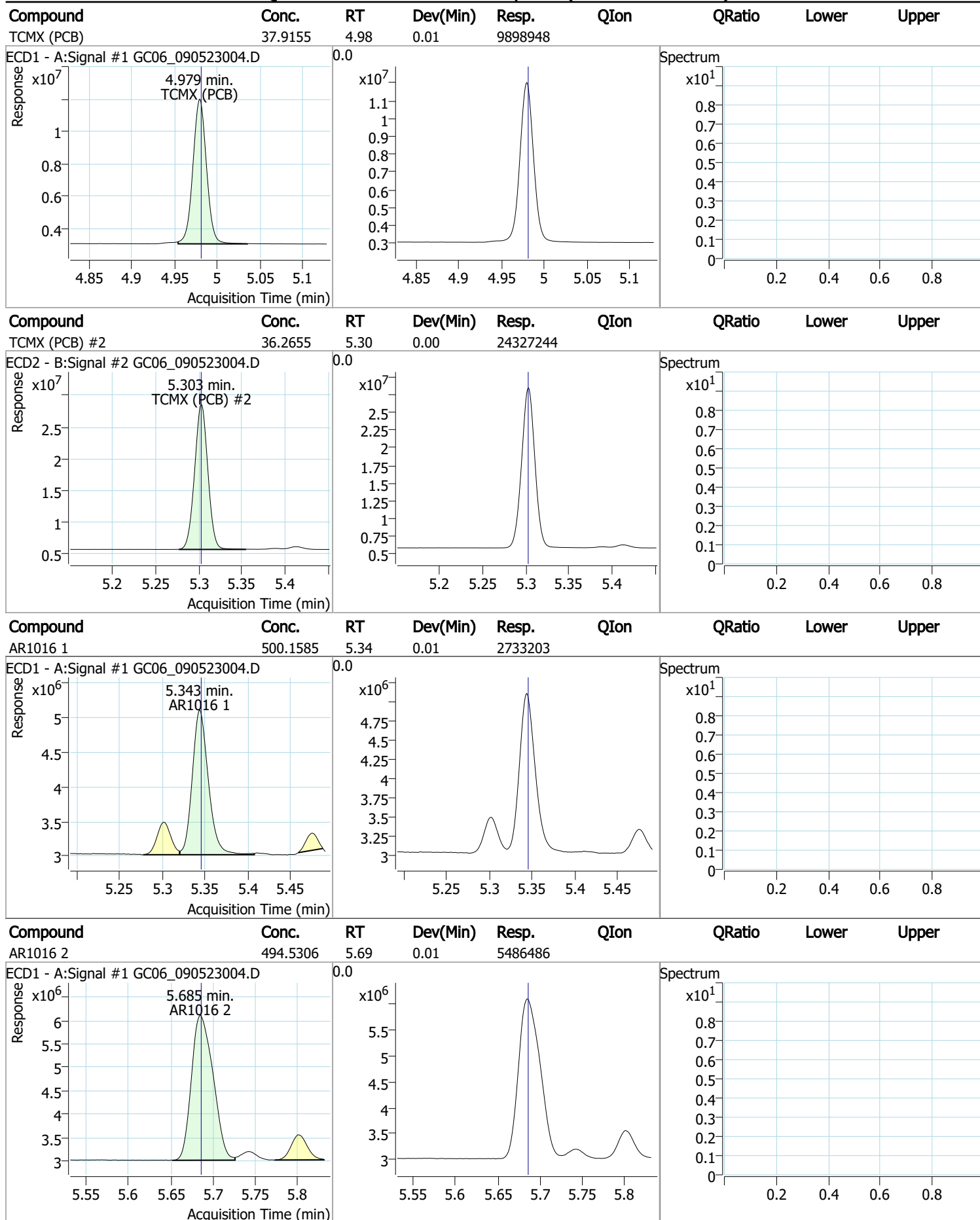
QValue

Quantitation Results Report (Not Reviewed)

Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.343	0.0	2733202.65 3	500.1585	ng/ml	100
T AR1016 2	5.685	0.0	5486486.06 6	494.5306	ng/ml	100
T AR1016 1 #2	5.788	0.0	6191123.37 3	470.0237	ng/ml	100
T AR1016 3	6.143	0.0	7038152.69 1	496.3353	ng/ml m	100
T AR1016 2 #2	6.207	0.0	13219049.6 80	446.7596	ng/ml	100
T AR1016 4	6.281	0.0	4447501.97 2	520.3615	ng/ml	100
T AR1016 5	6.474	0.0	3287482.01 7	502.9240	ng/ml	100
T AR1016 3 #2	6.743	0.0	17311526.3 10	486.2258	ng/ml	100
T AR1016 4 #2	6.914	0.0	12058471.4 97	470.5626	ng/ml	100
T AR1016 5 #2	7.173	0.0	6680276.60 9	488.7132	ng/ml	100
T AR1260 1	8.617	0.0	8369072.21 0	516.5433	ng/ml	100
T AR1260 2	9.109	0.0	12703849.0 50	513.6169	ng/ml	100
T AR1260 3	9.564	0.0	13022255.5 77	492.7238	ng/ml	100
T AR1260 1 #2	9.787	0.0	17372907.9 44	487.1265	ng/ml	100
T AR1260 4	10.063	0.0	6968192.55 6	483.9357	ng/ml	100
T AR1260 2 #2	10.063	0.0	20592398.6 61	512.1129	ng/ml	100
T AR1260 3 #2	10.504	0.0	25378364.1 07	493.1909	ng/ml	100
T AR1260 5	10.772	0.0	8214240.20 9	360.7889	ng/ml	100
T AR1260 4 #2	10.934	0.0	14426136.5 52	479.9741	ng/ml	100
T AR1260 5 #2	11.598	0.0	21612749.7 55	496.1055	ng/ml	100

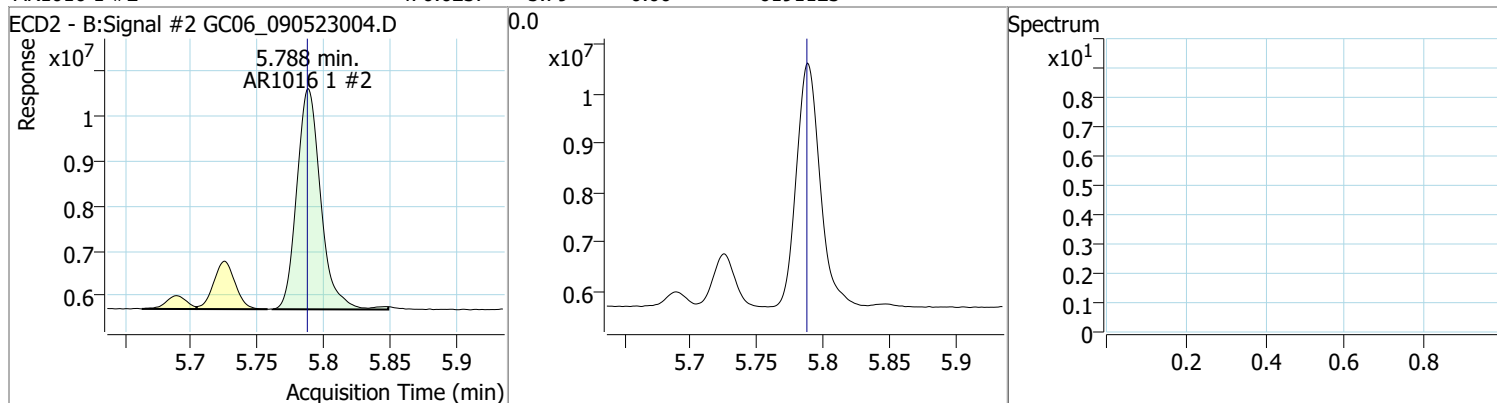
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

Quantitation Results Report (Not Reviewed)

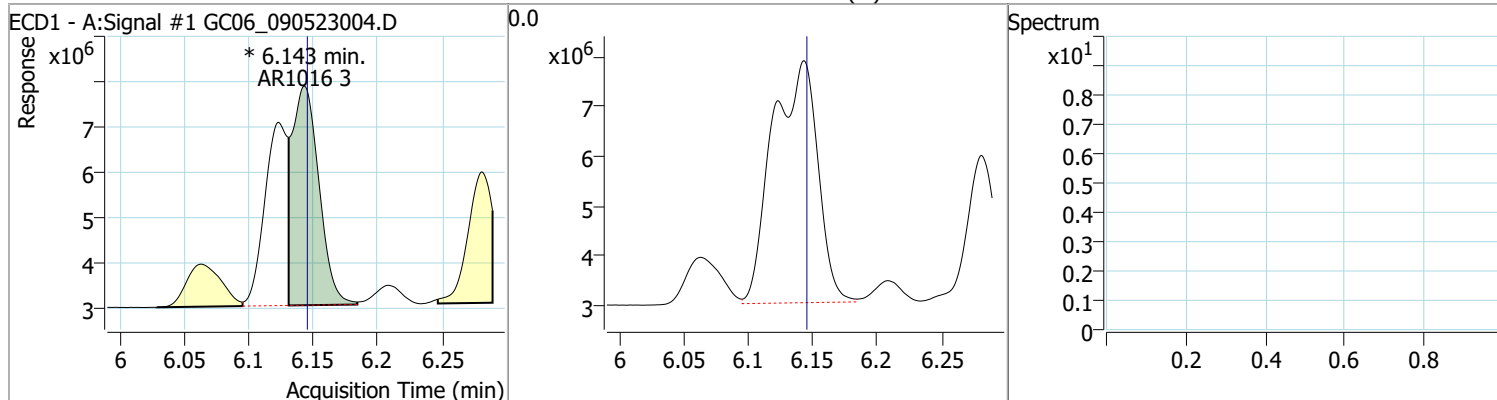


Quantitation Results Report (Not Reviewed)

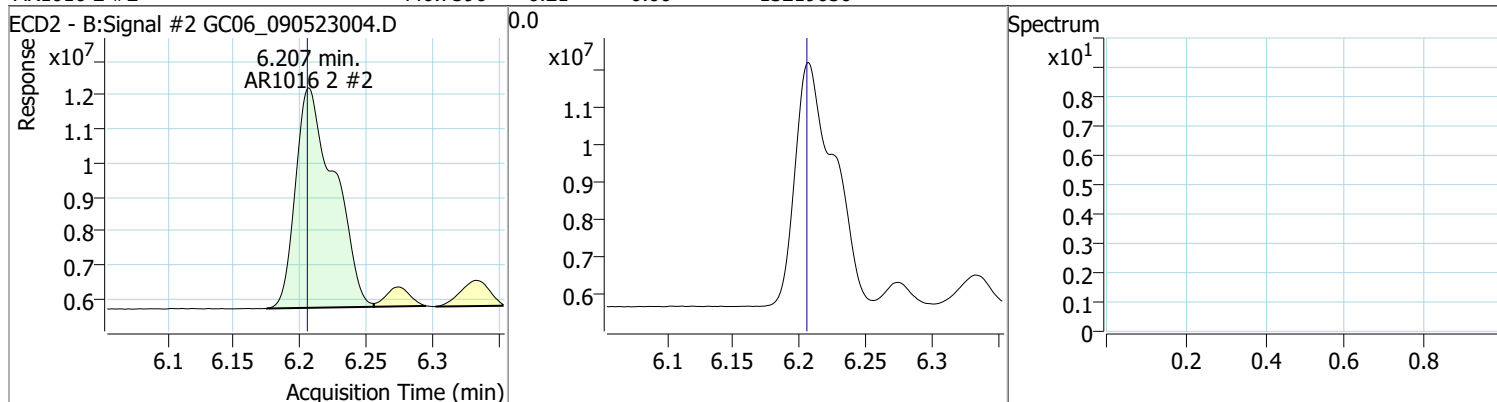
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	470.0237	5.79	0.00	6191123				



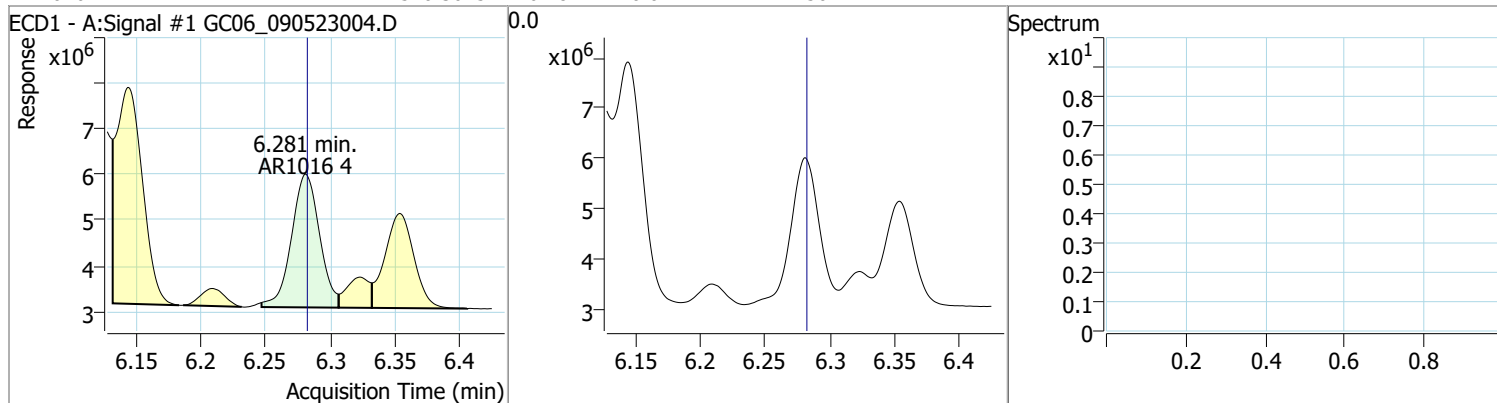
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	496.3353	6.14	0.01	7038153 (m)				



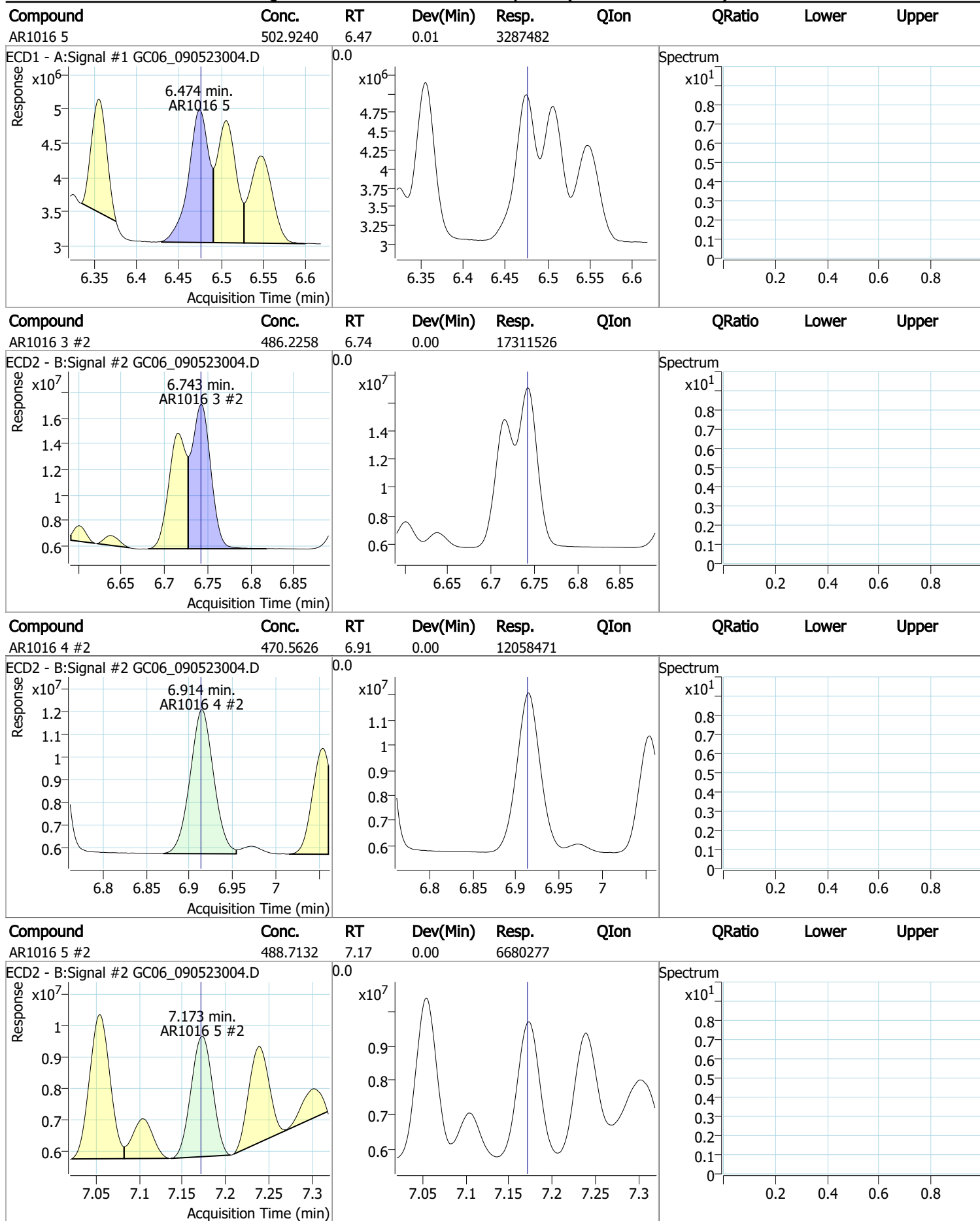
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	446.7596	6.21	0.00	13219050				



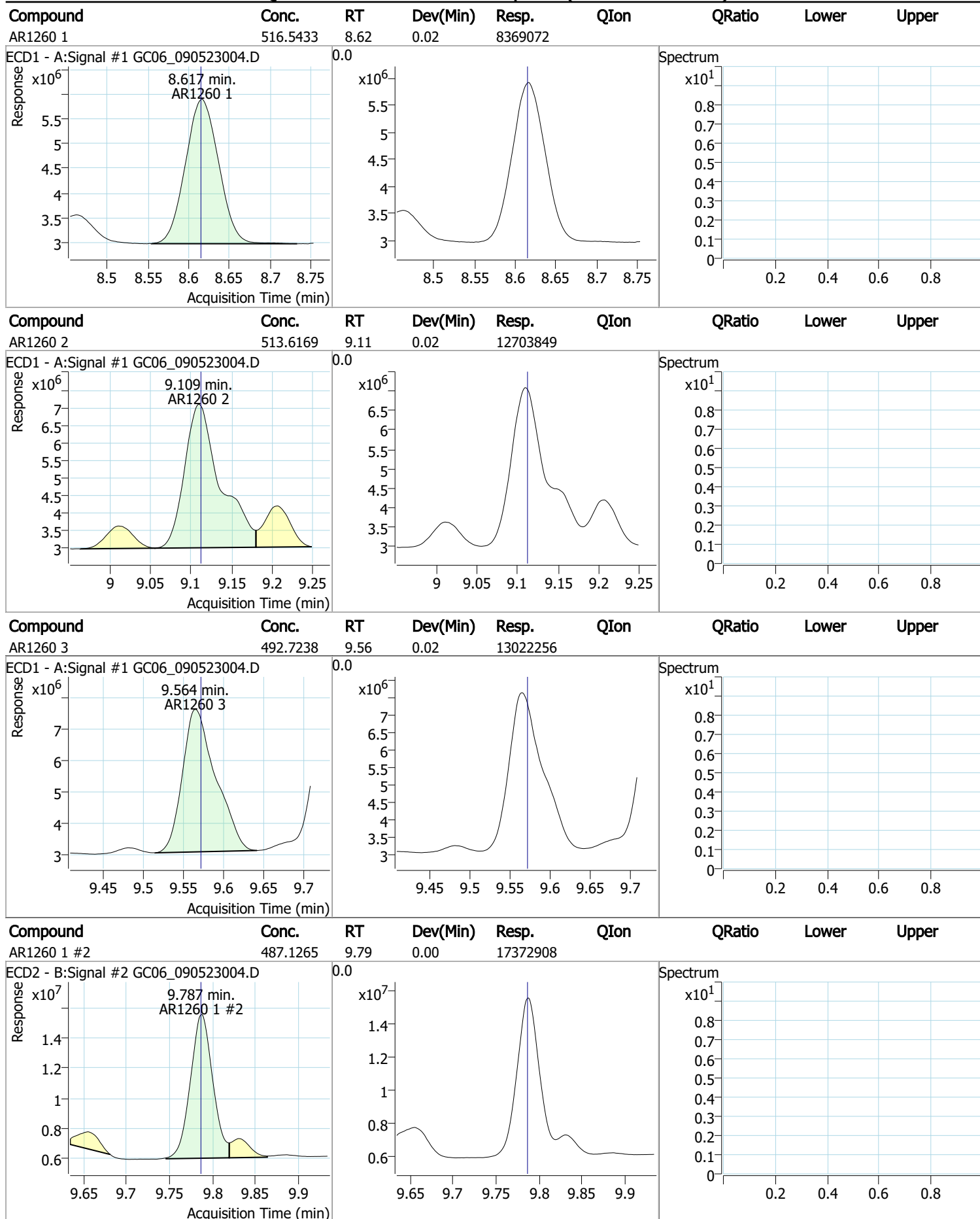
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	520.3615	6.28	0.01	4447502				



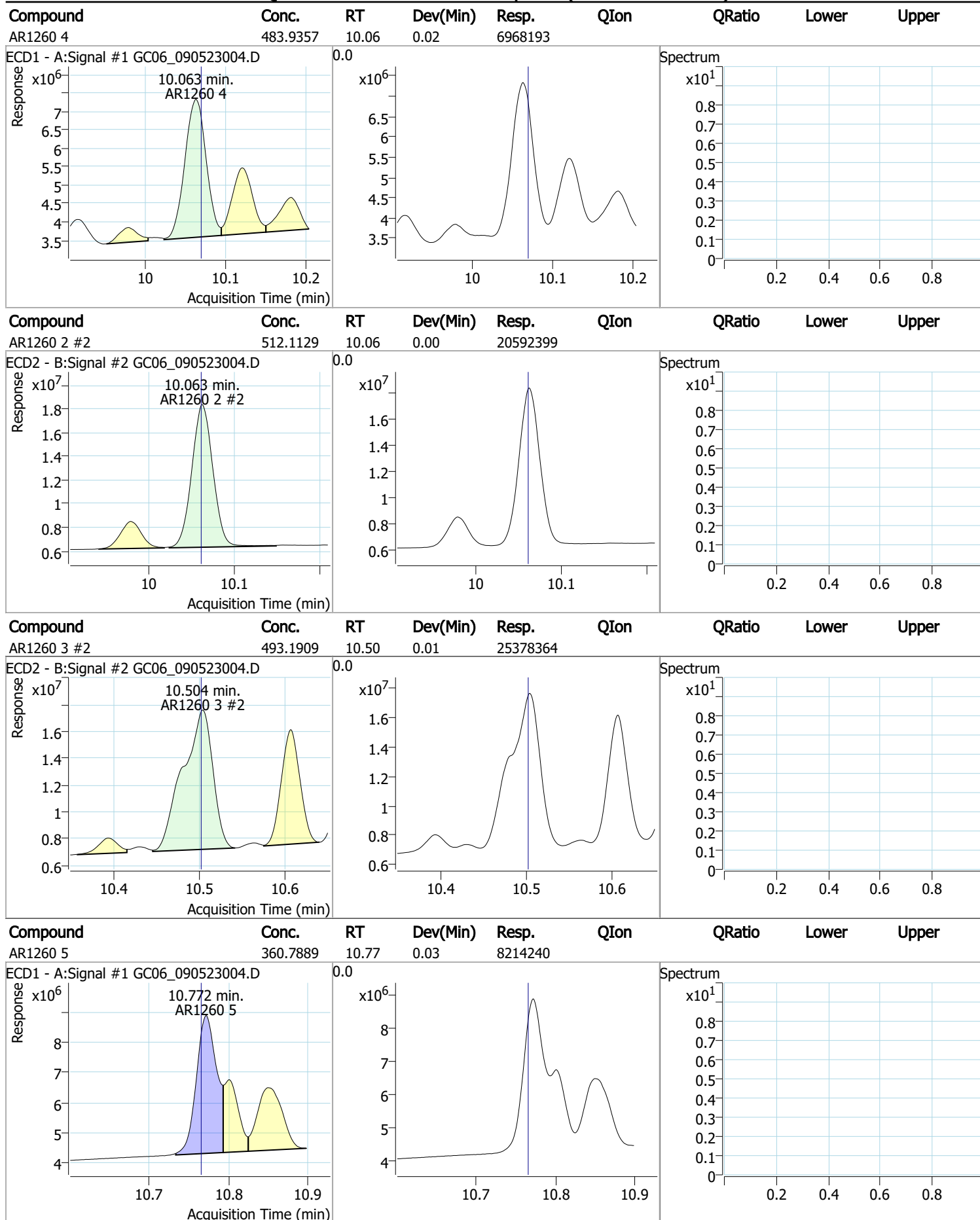
Quantitation Results Report (Not Reviewed)



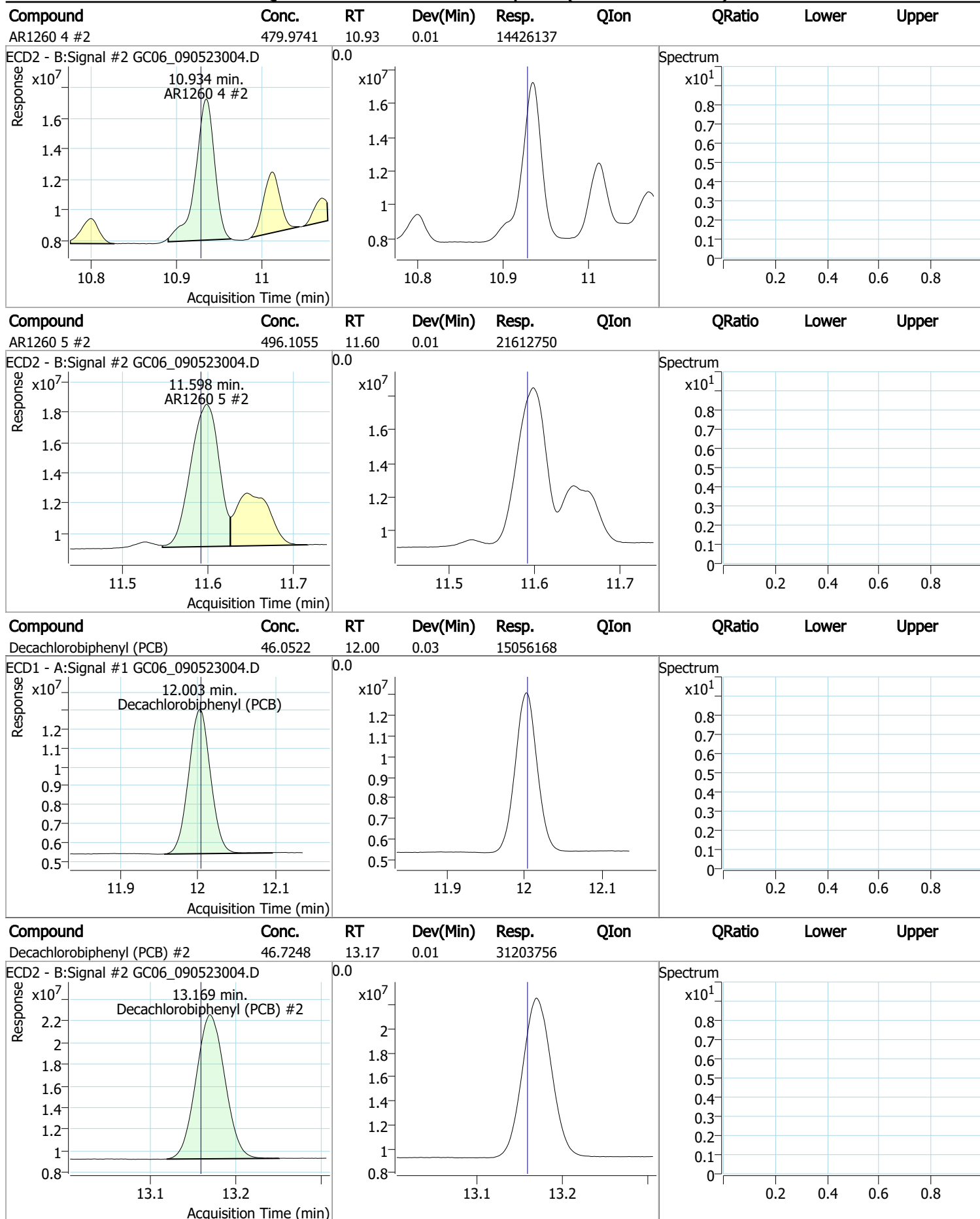
Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)



Quantitation Results Report (Not Reviewed)





Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 491224
Report Level: IV
Report Date: 09/06/2023

Metals

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 491224
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 08/28/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C8W-EXT-1 TO 2-230828-L-WF	491224-002	08/28/23 07:30	Wipe
ARCH-C9W-EXT-1 TO 2-230828-L-WF	491224-004	08/28/23 07:40	Wipe
ARCH-C9W-EXT-1 TO 2-230828-L-DUP-WF	491224-005	08/28/23 07:40	Wipe
ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-L-LA	491224-007	08/28/23 08:10	Wipe
ARCH-C10W-DG-1.5 TO 2-230828-L-FB	491224-009	08/28/23 07:55	Wipe
ARCH-C10W-DG-1.5 TO 2-230828-L-DUP-FB	491224-010	08/28/23 07:55	Wipe
ARCH-C9W-DG-2 TO 2.5-230828-L-FB	491224-012	08/28/23 08:25	Wipe
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-L-LA	491224-015	08/28/23 08:30	Wipe
ARCH-C11W-INT-1.5 TO 2.5-230828-L-WF	491224-017	08/28/23 08:45	Wipe
ARCH-C8W-PS-2.5-230828-L-G	491224-019	08/28/23 09:00	Wipe
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-L-LA	491224-022	08/28/23 09:15	Wipe
ARCH-C10W-PS-2.5-230828-L-G	491224-024	08/28/23 09:30	Wipe

Case Narrative

METALS (EPA 6010B)

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 491224
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 08/28/23

This data package contains sample and QC results for twelve wipe samples, requested for the above referenced project on 08/29/23. See attached cooler receipt form for any sample receipt problems or discrepancies.

Metals (EPA 6010B):

No analytical problems were encountered.

Chain of Custody

491224

Chain of Custody Record		Turn Around Time (rush by advanced notice only)			
COC ID:		Standard:		5 Day:	3 Day:
Page: 1 of 2		X (PCBs)		1 Day:	custom TAT:
ENTHALPY ANALYTICAL Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92868 Phone 714-771-6900		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Report: Level IV (lab use only)			
PROJECT INFORMATION		Analysis Request			
Company:	Rincon Consultants, Inc.	Confirmation Wipe Samples - Level IV			
Report To:	Lindsay Parker	Report/Stage 3 Validation			
Email:	lparker@rinconconsultants.com	Report PCB concentrations on a µg/100cm2 basis			
Address:	449 15th Street, Suite 303 Oakland, California 94612	Report lead concentrations on a µg/l2 basis			
Phone:	(510) 890-9556	Report Aroclor 1268 concentrations in addition to the standard Aroclors			
Fax:		Wipe samples collected from Zone 5 Enclosure CID (Low Occupancy)			
CUSTOMER INFORMATION		Test Instructions / Comments			
Quote #:	RIN031721	2x River Type 2 = 0.020062			
Proj. Name:	Hangar 1 - NCTRA WP	1x River Type 2 = 0.010062			
Proj. #:	20-10491				
P.O. #:					
Address:	158 Cody Road, Mountain View, CA				
Global ID:					
Sampled By:	M. Kim				
Sample ID		PCBs - EPA Method 3546/8082			
Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	
8/28/2023	0730	WP	1	-	
8/28/2023	0730	WP	1	-	
8/28/2023	0740	WP	1	-	
8/28/2023	0740	WP	1	-	
8/28/2023	0740	WP	1	-	
8/28/2023	0710	WP	1	-	
8/28/2023	0810	WP	1	-	
8/28/2023	0755	WP	1	-	
8/28/2023	0755	WP	1	-	
8/28/2023	0755	WP	1	-	
8/28/2023	0825	WP	1	-	
8/28/2023	0825	WP	1	-	
8/28/2023	0830	WP	1	-	
8/28/2023	0830	WP	1	-	
8/28/2023	0830	WP	1	-	
8/28/2023	0830	WP	1	-	
Signature		Company / Title			
Relinquished By:	Mr. [Signature]	Rincon / Env. Sci.			
Received By:	Audrey Hudson	ENTHALPY			
Relinquished By:	Audrey Hudson	"			
Received By:	Audrey Hudson	"			
Relinquished By:	Audrey Hudson	"			
Received By:	Audrey Hudson	"			
Relinquished By:	Audrey Hudson	"			
Received By:	Audrey Hudson	"			

Chain of Custody: _____
COC ID: _____

Phone 714-771-6900

3 x Rivet Type 1 = 0.1104 k ²	
1 x Rivet Type 2 = 0.0160 k ²	
3 x Rivet Type 1 = 0.1104 k ²	

ea
ENTHALPY

Section 1: General Info

Section 2: Shipping / Custody

Shipping Info:

Are custody seals present? ☐ No ☒ Yes If yes, where? ☒ on cooler, ☐ on samples, ☐ on package

Custody seals intact on arrival? ☒ Yes ☐ No ☐ N/A Date: 8.28.23 # of seals 1 ☒ Signature ☐ Initials

Section 3: Condition / Packaging

Important: Notify PM if temperature exceeds 6°C or arrive frozen

Date Opened 8.28.23 By (print) JTP (sign)

☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)

If no cooler: Sample Temp (°C):

How many coolers? 1 Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☒ Yes, ☐ No

Section 4: Containers / Labels / Samples

Were custody papers dry, filled out properly, and the project identifiable?

Were Method 5035 sampling containers present? Transferred to freezer @:

Did all containers arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____

Section 5: Preservatives

Are the samples appropriately preserved? (if yes, skip the rest of section 5)

Did any samples / containers require preservation upon receipt?

Did you document your preservative check in the bench book?

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ Date/Time _____

☐ HCL lot# _____ added to samples _____ Date/Time _____☐ HNO3 lot# _____ added to samples _____ Date/Time _____

☐ CrVI Buffer lot# _____ added to samples _____ Date/Time _____

Section 6: Explanations / Comments

Date Logged 8.28.03 By (print) JP for MY (sign)

Date Labeled 8-28-23 By (print) DP (sign)

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



491224

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: <u>Rincon Consultants</u>	Project: <u>Hangar 1 NTCRA</u>
Date Received: <u>08/29/23</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u> ☐ No (skip section 2)	Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: <u>5.4</u> #2: _____ #3: _____ #4: _____	
<i>(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)</i>	
Shipping Information: <u>Southwest Airlines</u>	

Section 3	
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: <u>1.5</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments

Section 6
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____
☐ Email (email sent to/on): _____ / _____
Project Manager's response:

Completed By: _____

Date: **AUG 29 2023**

SOUTHWEST AIRLINES

Printed on:
28 AUG 19:42

526 OAK 9259 1236



SNA

PC#
2 OF 2

DG
G

LOT WT
65 LB
(29.5 KG)

OAK WN 3842 28 AUG 20:40

STN FLT DATE ETD LOT 01



PC ID: 0002
PC WT: 32LB

526 92591236 0002

S

1.5 / 5.4

Results & QC Summary

Lead

Lab #: 491224		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-EXT-1 TO 2-230828-L-WF		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-002		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-002 Analyte		Result	RL Units
Lead		71	0.50 ug/ft2
Field ID: ARCH-C9W-EXT-1 TO 2-230828-L-WF		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-004		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-004 Analyte		Result	RL Units
Lead		49	0.50 ug/ft2
Field ID: ARCH-C9W-EXT-1 TO 2-230828-L-DUP-WF		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-005		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-005 Analyte		Result	RL Units
Lead		61	0.50 ug/ft2
Field ID: ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-L-LA		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-007		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-007 Analyte		Result	RL Units
Lead		64	0.50 ug/ft2
Field ID: ARCH-C10W-DG-1.5 TO 2-230828-L-FB		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-009		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-009 Analyte		Result	RL Units
Lead		27	0.50 ug/ft2

Lead

Lab #: 491224		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C10W-DG-1.5 TO 2-230828-L-DUP-FB		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-010		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-010 Analyte		Result	RL Units
Lead		15	0.50 ug/ft2
Field ID: ARCH-C9W-DG-2 TO 2.5-230828-L-FB		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-012		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-012 Analyte		Result	RL Units
Lead		25	0.50 ug/ft2
Field ID: ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-L-LA		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-015		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-015 Analyte		Result	RL Units
Lead		32	0.50 ug/ft2
Field ID: ARCH-C11W-INT-1.5 TO 2.5-230828-L-WF		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-017		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-017 Analyte		Result	RL Units
Lead		100	0.50 ug/ft2
Field ID: ARCH-C8W-PS-2.5-230828-L-G		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-019		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491224-019 Analyte		Result	RL Units
Lead		37	0.50 ug/ft2

Lead

Lab #: 491224	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-L-LA	Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-022	Received: 08/28/23	Analyst: SBW
Matrix: Wipe	Prepared: 08/29/23	
Diln Fac: 1.000	Analyzed: 08/30/23	

491224-022 Analyte	Result	RL	Units
Lead	37	0.50	ug/ft2

Field ID: ARCH-C10W-PS-2.5-230828-L-G	Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491224-024	Received: 08/28/23	Analyst: SBW
Matrix: Wipe	Prepared: 08/29/23	
Diln Fac: 1.000	Analyzed: 08/30/23	

491224-024 Analyte	Result	RL	Units
Lead	41	0.50	ug/ft2

Type: BLANK	Batch#: 321361	Analysis: EPA 6010B
Lab ID: QC1090212	Prepared: 08/29/23	Analyst: SBW
Matrix: Wipe	Analyzed: 08/29/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1090212 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend
 ND: Not Detected
 RL: Reporting Limit

Lead: Batch QC

Lab #: 491224

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 321361

Analysis: EPA 6010B

Lab ID: QC1090213

Prepared: 08/29/23

Analyst: SBW

Matrix: Wipe

Analyzed: 08/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1090213 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	48.28	97	80-120	ug/ft2

Type: BSD

Batch#: 321361

Analysis: EPA 6010B

Lab ID: QC1090214

Prepared: 08/29/23

Analyst: SBW

Matrix: Wipe

Analyzed: 08/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1090214 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	49.14	98	80-120	ug/ft2	2	20

Legend

RPD: Relative Percent Difference

REPORTING SUMMARY FOR 491224 METALS Wipe
Enthalpy Analytical - Orange

Lab ID	Inst ID	Analyzed	IDF	P B
491224-002	MET09	08/29/23 15:59	1.0	
491224-002	MET09	08/30/23 08:40	1.0	✓
491224-004	MET09	08/29/23 16:02	1.0	
491224-004	MET09	08/30/23 08:43	1.0	✓
491224-005	MET09	08/29/23 16:05	1.0	
491224-005	MET09	08/30/23 08:46	1.0	✓
491224-007	MET09	08/29/23 16:08	1.0	
491224-007	MET09	08/30/23 08:49	1.0	✓
491224-009	MET09	08/29/23 16:11	1.0	
491224-009	MET09	08/30/23 08:52	1.0	✓
491224-010	MET09	08/29/23 16:14	1.0	
491224-010	MET09	08/30/23 08:55	1.0	✓
491224-012	MET09	08/29/23 16:18	1.0	
491224-012	MET09	08/30/23 08:58	1.0	✓
491224-015	MET09	08/29/23 16:27	1.0	
491224-015	MET09	08/30/23 09:01	1.0	✓
491224-017	MET09	08/29/23 16:30	1.0	
491224-017	MET09	08/30/23 09:11	1.0	✓
491224-019	MET09	08/29/23 16:33	1.0	
491224-019	MET09	08/30/23 09:14	1.0	✓
491224-022	MET09	08/29/23 16:36	1.0	
491224-022	MET09	08/30/23 09:17	1.0	✓
491224-024	MET09	08/29/23 16:39	1.0	
491224-024	MET09	08/30/23 09:20	1.0	✓
QC1090212	MET09	08/29/23 15:50	1.0	✓
QC1090213	MET09	08/29/23 15:53	1.0	
QC1090213	MET09	08/30/23 08:33	1.0	✓
QC1090214	MET09	08/29/23 15:56	1.0	

Lab ID	Inst ID	Analyzed	IDF	P B
QC1090214	MET09	08/30/23 08:36	1.0	✓

Instrument: MET09

Begun: 08/29/23 10:01

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
001	icp data	ICALBLK				08/29/23 10:01	1.0		
002	icp data	ICAL	L1			08/29/23 10:04	1.0	1	
003	icp data	ICAL	L2			08/29/23 10:07	1.0	2	
004	icp data	ICAL	L3			08/29/23 10:10	1.0	3	
005	icp data	ICAL	L4			08/29/23 10:13	1.0	4	
006	icp data	ICAL	L5			08/29/23 10:17	1.0	5	
007	icp data	ICAL	L6			08/29/23 10:22	1.0	6	
008	icp data	ICAL	L7			08/29/23 10:26	1.0	7	
009	icp data	ICAL	L8			08/29/23 10:29	1.0	8	
010	icp data	ICV				08/29/23 10:32	1.0	9	
011	icp data	ICV				08/29/23 10:35	1.0	10	
012	icp data	ICB				08/29/23 10:38	1.0		
013	icp data	CRI				08/29/23 10:41	1.0	11	
014	icp data	ICSA				08/29/23 10:44	1.0	12	6:MGASMGCO3=1400
015	icp data	ICSAB				08/29/23 10:47	1.0	13	6:MGASMGCO3=1400
016	icp data	BLANK	QC1089645	Water	321199	08/29/23 10:50	1.0	14	
017	icp data	LCS	QC1089646	Water	321199	08/29/23 10:53	1.0	14	
018	icp data	SAMPLE	490630-001	Water	321199	08/29/23 10:56	1.0	14	
019	icp data	MSS	491028-001	Water	321199	08/29/23 10:59	1.0	14	
020	icp data	MS	QC1089647	Water	321199	08/29/23 11:02	1.0	14	
021	icp data	MSD	QC1089648	Water	321199	08/29/23 11:06	1.0	14	
022	icp data	CCV				08/29/23 11:09	1.0	10	
023	icp data	CCB				08/29/23 11:12	1.0		
024	icp data	CCV				08/29/23 11:15	1.0	9	
025	icp data	CCB				08/29/23 11:18	1.0		
026	icp data	BLANK	QC1090070	Drinking Water	321327	08/29/23 11:21	1.0	14	
027	icp data	LCS	QC1090071	Drinking Water	321327	08/29/23 11:24	1.0	14	
028	icp data	MSS	491229-001	Drinking Water	321327	08/29/23 11:27	1.0	14	
029	icp data	MS	QC1090072	Drinking Water	321327	08/29/23 11:31	1.0	14	
030	icp data	MSD	QC1090073	Drinking Water	321327	08/29/23 11:34	1.0	14	
031	icp data	SAMPLE	491230-001	Drinking Water	321327	08/29/23 11:37	1.0	14	
032	icp data	SAMPLE	491232-001	Drinking Water	321327	08/29/23 11:41	1.0	14	
033	icp data	SAMPLE	491164-007	Soil	321281	08/29/23 11:44	1.0	14	3:FE=290
034	icp data	PDS	QC1089611	Soil	321188	08/29/23 11:47	1.0	14	4:ALASAL2O3=120
035	icp data	SAMPLE	491076-021	Soil	321254	08/29/23 11:50	1.0	14	2:FE=280
036	icp data	CCV				08/29/23 11:53	1.0	9	
037	icp data	CCB				08/29/23 11:56	1.0		
038	icp data	SAMPLE	491076-022	Soil	321254	08/29/23 12:00	1.0	14	3:FE=290
039	icp data	SAMPLE	491076-023	Soil	321254	08/29/23 12:03	1.0	14	3:FE=300
040	icp data	SAMPLE	491076-024	Soil	321254	08/29/23 12:06	1.0	14	3:FE=300
041	icp data	SAMPLE	491076-025	Soil	321254	08/29/23 12:09	1.0	14	3:FE=250
042	icp data	SAMPLE	491127-005	Soil	321254	08/29/23 12:12	1.0	14	2:AL=250
043	icp data	SAMPLE	491127-012	Soil	321254	08/29/23 12:15	1.0	14	2:FE=200
044	icp data	SAMPLE	491127-019	Soil	321254	08/29/23 12:18	1.0	14	2:FE=170
045	icp data	SAMPLE	491127-026	Soil	321254	08/29/23 12:21	1.0	14	2:AL=210
046	icp data	SAMPLE	491173-007	Soil	321254	08/29/23 12:25	1.0	14	2:AL=77
047	icp data	SAMPLE	491173-008	Soil	321254	08/29/23 12:28	1.0	14	2:AL=110
048	icp data	CCV				08/29/23 12:31	1.0	9	
049	icp data	CCB				08/29/23 12:34	1.0		
050	icp data	MSS	491005-001	Soil	321201	08/29/23 12:37	10.0	14	2:FEASFE2O3=157

Instrument: MET09

Begun: 08/29/23 10:01

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	StdS Used	
051	icp data	MS	QC1089655	Soil	321201	08/29/23 12:40	10.0	14	2:FEASFE2O3=240
052	icp data	MSD	QC1089656	Soil	321201	08/29/23 12:43	10.0	14	2:FEASFE2O3=150
053	icp data	PDS	QC1089657	Soil	321201	08/29/23 12:46	10.0	14	2:FEASFE2O3=340
054	icp data	SAMPLE	491005-002	Soil	321201	08/29/23 12:50	10.0	14	1:FE=160
055	icp data	SAMPLE	491005-003	Soil	321201	08/29/23 12:53	10.0	14	1:FE=37
056	icp data	SAMPLE	491005-004	Soil	321201	08/29/23 12:56	10.0	14	1:FE=120
057	icp data	LCS	QC1089853	Soil	321253	08/29/23 12:59	1.0	14	
058	icp data	SAMPLE	491076-026	Soil	321253	08/29/23 13:02	1.0	14	2:FE=240
059	icp data	SAMPLE	491076-027	Soil	321253	08/29/23 13:05	1.0	14	2:FE=240
060	icp data	CCV				08/29/23 13:08	1.0	9	
061	icp data	CCB				08/29/23 13:11	1.0		
062	icp data	SAMPLE	491076-028	Soil	321253	08/29/23 13:15	1.0	14	2:FE=220
063	icp data	SAMPLE	491076-029	Soil	321253	08/29/23 13:18	1.0	14	2:FE=250
064	icp data	SAMPLE	491076-030	Soil	321253	08/29/23 13:21	1.0	14	2:FE=250
065	icp data	SAMPLE	491076-031	Soil	321253	08/29/23 13:24	1.0	14	2:FE=230
066	icp data	SAMPLE	491076-032	Soil	321253	08/29/23 13:27	1.0	14	2:FE=240
067	icp data	SAMPLE	491076-033	Soil	321253	08/29/23 13:30	1.0	14	2:FE=260
068	icp data	SAMPLE	491076-034	Soil	321253	08/29/23 13:33	1.0	14	2:FE=260
069	icp data	SAMPLE	491160-002	Soil	321253	08/29/23 13:36	1.0	14	2:FE=210
070	icp data	SAMPLE	491160-003	Soil	321253	08/29/23 13:39	1.0	14	2:FE=140
071	icp data	MSS	491193-001	Soil	321253	08/29/23 13:43	1.0	14	5:FEASFE2O3=230
072	icp data	CCV				08/29/23 13:46	1.0	9	
073	icp data	CCB				08/29/23 13:49	1.0		
074	icp data	MS	QC1089854	Soil	321253	08/29/23 13:52	1.0	14	5:FEASFE2O3=240
075	icp data	MSD	QC1089855	Soil	321253	08/29/23 13:55	1.0	14	5:FEASFE2O3=240
076	icp data	PDS	QC1089856	Soil	321253	08/29/23 13:58	1.0	14	5:FEASFE2O3=230
077	icp data	BLANK	QC1090113	Water	321335	08/29/23 14:01	1.0	14	
078	icp data	LCS	QC1090114	Water	321335	08/29/23 14:04	1.0	14	
079	icp data	SAMPLE	491099-002	Water	321335	08/29/23 14:08	1.0	14	
080	icp data	SAMPLE	491209-001	Water	321335	08/29/23 14:11	1.0	14	1:FE=38
081	icp data	SAMPLE	491232-002	Sea Water	321335	08/29/23 14:14	25.0	14	
082	icp data	SAMPLE	491241-001	Water	321335	08/29/23 14:17	1.0	14	
083	icp data	SAMPLE	491241-002	Water	321335	08/29/23 14:20	1.0	14	
084	icp data	CCV				08/29/23 14:23	1.0	9	
085	icp data	CCB				08/29/23 14:26	1.0		
086	icp data	MSS	491241-003	Water	321335	08/29/23 14:29	1.0	14	
087	icp data	MS	QC1090115	Water	321335	08/29/23 14:33	1.0	14	
088	icp data	MSD	QC1090116	Water	321335	08/29/23 14:36	1.0	14	
089	icp data	CCV				08/29/23 14:39	1.0	9	
090	icp data	CCB				08/29/23 14:42	1.0		
091	icp data	BLANK	QC1090212	Wipe	321361	08/29/23 15:50	1.0	14	
092	icp data	BS	QC1090213	Wipe	321361	08/29/23 15:53	1.0	14	
093	icp data	BSD	QC1090214	Wipe	321361	08/29/23 15:56	1.0	14	
094	icp data	SAMPLE	491224-002	Wipe	321361	08/29/23 15:59	1.0	14	2:FE=92
095	icp data	SAMPLE	491224-004	Wipe	321361	08/29/23 16:02	1.0	14	1:FE=64
096	icp data	SAMPLE	491224-005	Wipe	321361	08/29/23 16:05	1.0	14	2:FE=93
097	icp data	SAMPLE	491224-007	Wipe	321361	08/29/23 16:08	1.0	14	1:FE=86
098	icp data	SAMPLE	491224-009	Wipe	321361	08/29/23 16:11	1.0	14	1:FE=60
099	icp data	SAMPLE	491224-010	Wipe	321361	08/29/23 16:14	1.0	14	1:FE=59
100	icp data	SAMPLE	491224-012	Wipe	321361	08/29/23 16:18	1.0	14	1:FE=49

Instrument: MET09

Begun: 08/29/23 10:01

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
101	icp data	CCV				08/29/23 16:21	1.0	9	
102	icp data	CCB				08/29/23 16:24	1.0		
103	icp data	SAMPLE	491224-015	Wipe	321361	08/29/23 16:27	1.0	14	1:FE=47
104	icp data	SAMPLE	491224-017	Wipe	321361	08/29/23 16:30	1.0	14	1:FE=45
105	icp data	SAMPLE	491224-019	Wipe	321361	08/29/23 16:33	1.0	14	1:FE=64
106	icp data	SAMPLE	491224-022	Wipe	321361	08/29/23 16:36	1.0	14	1:FE=86
107	icp data	SAMPLE	491224-024	Wipe	321361	08/29/23 16:39	1.0	14	1:FE=92
108	icp data	SAMPLE	491258-003	Wipe	321361	08/29/23 17:24	1.0	14	1:FE=58
109	icp data	SAMPLE	491258-005	Wipe	321361	08/29/23 17:27	1.0	14	1:FE=54
110	icp data	SAMPLE	491258-007	Wipe	321361	08/29/23 17:30	1.0	14	1:FE=45
111	icp data	SAMPLE	491258-009	Wipe	321361	08/29/23 17:33	1.0	14	1:FE=36
112	icp data	SAMPLE	491258-010	Wipe	321361	08/29/23 17:36	1.0	14	1:FE=41
113	icp data	CCV				08/29/23 17:39	1.0	9	
114	icp data	CCB				08/29/23 17:42	1.0		
115	icp data	SAMPLE	491258-012	Wipe	321361	08/29/23 17:45	1.0	14	1:FE=65
116	icp data	SAMPLE	491258-015	Wipe	321361	08/29/23 17:49	1.0	14	1:FE=67
117	icp data	SAMPLE	491258-017	Wipe	321361	08/29/23 17:52	1.0	14	1:FE=47
118	icp data	BLANK	QC1090215	Wipe	321362	08/29/23 17:55	1.0	14	
119	icp data	BS	QC1090217	Wipe	321362	08/29/23 17:58	1.0	14	
120	icp data	BSD	QC1090218	Wipe	321362	08/29/23 18:01	1.0	14	
121	icp data	SAMPLE	491258-018	Wipe	321362	08/29/23 18:04	1.0	14	1:FE=37
122	icp data	SAMPLE	491258-020	Wipe	321362	08/29/23 18:07	1.0	14	1:FE=54
123	icp data	SAMPLE	491258-022	Wipe	321362	08/29/23 18:10	1.0	14	1:FE=73
124	icp data	SAMPLE	491258-024	Wipe	321362	08/29/23 18:14	1.0	14	1:FE=90
125	icp data	CCV				08/29/23 18:17	1.0	9	
126	icp data	CCB				08/29/23 18:20	1.0		
127	icp data	SAMPLE	491258-025	Wipe	321362	08/29/23 18:23	1.0	14	1:FE=54
128	icp data	SAMPLE	491258-027	Wipe	321362	08/29/23 18:26	1.0	14	1:FE=88
129	icp data	SAMPLE	491258-029	Wipe	321362	08/29/23 18:29	1.0	14	1:FE=54
130	icp data	SAMPLE	491258-031	Wipe	321362	08/29/23 18:32	1.0	14	1:FE=52
131	icp data	SAMPLE	491258-033	Wipe	321362	08/29/23 18:35	1.0	14	1:FE=74
132	icp data	SAMPLE	491258-036	Wipe	321362	08/29/23 18:38	1.0	14	1:FE=53
133	icp data	SAMPLE	491258-038	Wipe	321362	08/29/23 18:42	1.0	14	
134	icp data	SAMPLE	491258-039	Wipe	321362	08/29/23 18:45	1.0	14	
135	icp data	SAMPLE	491258-041	Wipe	321362	08/29/23 18:48	1.0	14	
136	icp data	SAMPLE	491258-042	Wipe	321362	08/29/23 18:51	1.0	14	
137	icp data	CCV				08/29/23 18:54	1.0	9	
138	icp data	CCB				08/29/23 18:57	1.0		
139	icp data	BLANK	QC1090242	Soil	321369	08/29/23 19:00	1.0	14	
140	icp data	LCS	QC1090243	Soil	321369	08/29/23 19:03	1.0	14	
141	icp data	MSS	491180-005	Soil	321369	08/29/23 19:07	1.0	14	4:ALASAL2O3=320
142	icp data	MS	QC1090244	Soil	321369	08/29/23 19:10	1.0	14	4:ALASAL2O3=400
143	icp data	MSD	QC1090245	Soil	321369	08/29/23 19:13	1.0	14	4:ALASAL2O3=430
144	icp data	PDS	QC1090246	Soil	321369	08/29/23 19:16	1.0	14	4:ALASAL2O3=310
145	icp data	SAMPLE	491180-012	Soil	321369	08/29/23 19:19	1.0	14	2:FE=200
146	icp data	SAMPLE	491180-019	Soil	321369	08/29/23 19:22	1.0	14	2:FE=190
147	icp data	CCV				08/29/23 19:25	1.0	9	
148	icp data	CCB				08/29/23 19:28	1.0		
149	icp data	SAMPLE	491180-026	Soil	321369	08/29/23 19:32	1.0	14	2:FE=230
150	icp data	SAMPLE	491213-002	Soil	321369	08/29/23 19:35	1.0	14	2:FE=130

Instrument: MET09					Begun: 08/29/23 10:01				
Method: EPA 6010B									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
151	icp data	SAMPLE	491289-001	Soil	321369	08/29/23 19:38	1.0	14	2:FE=170
152	icp data	SAMPLE	491290-001	Miscell.	321369	08/29/23 19:41	1.0	14	2:FE=140
153	icp data	CCV				08/29/23 19:44	1.0	9	
154	icp data	CCB				08/29/23 19:47	1.0		

SBW 08/29/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 025.

SBW 08/29/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 026 through 090.

SBW 08/30/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 091 through 154.

Standards Used:

1=S18676 2=S18675 3=S18674 4=S18673 5=S18672 6=S18663 7=S18726 8=S18547 9=S18803 10=S16826 11=S18728 12=S18677 13=S18816 14=S14463

Date: 08/29/23
Sequence: MET09 08/29/23

Reference: icp data
Analyzed: 08/29/23 10:01

#	Type	Sample ID	Y A	Y R
		ICALBLK STD	895233	256506
		LOWER LIMIT	268570	76952
		UPPER LIMIT	1790466	513011
012	ICB		901669	263598
014	ICSA		820222	238615
015	ICSAB		822466	238607
016	BLANK	QC1089645	915236	263988
017	LCS	QC1089646	893577	258546
018	SAMPLE	490630-001	888503	257755
019	MSS	491028-001	891122	257910
020	MS	QC1089647	881490	253976
021	MSD	QC1089648	880064	253460
022	CCV		909480	267945
023	CCB		891237	263215
024	CCV		864990	252499
025	CCB		890490	262349
026	BLANK	QC1090070	886356	261503
027	LCS	QC1090071	873823	256850
028	MSS	491229-001	882353	257740
029	MS	QC1090072	873013	254630
030	MSD	QC1090073	872157	255187
031	SAMPLE	491230-001	877894	256889
032	SAMPLE	491232-001	891551	257411
033	SAMPLE	491164-007	869921	260988
034	PDS	QC1089611	864354	263325
035	SAMPLE	491076-021	865488	262509
036	CCV		861837	254705
037	CCB		887616	264715
038	SAMPLE	491076-022	867468	261872
039	SAMPLE	491076-023	874477	262769
040	SAMPLE	491076-024	867636	262856
041	SAMPLE	491076-025	867492	261131
042	SAMPLE	491127-005	861544	261312
043	SAMPLE	491127-012	866043	262745
044	SAMPLE	491127-019	868826	262387
045	SAMPLE	491127-026	876732	265956
046	SAMPLE	491173-007	871687	265396
047	SAMPLE	491173-008	867441	266201
048	CCV		859760	255059
049	CCB		881917	262963
050	MSS	491005-001	878321	259266
051	MS	QC1089655	881419	260413
052	MSD	QC1089656	878812	261006
053	PDS	QC1089657	875690	259067
054	SAMPLE	491005-002	881417	260585
055	SAMPLE	491005-003	877403	261999
056	SAMPLE	491005-004	880488	260876
057	LCS	QC1089853	856840	264191
058	SAMPLE	491076-026	846144	260707
059	SAMPLE	491076-027	847868	260533
060	CCV		853183	255479

Date: 08/29/23
Sequence: MET09 08/29/23

Reference: icp data
Analyzed: 08/29/23 10:01

#	Type	Sample ID	Y A	Y R
061	CCB		878523	263563
062	SAMPLE	491076-028	845244	259055
063	SAMPLE	491076-029	847491	260386
064	SAMPLE	491076-030	848294	260339
065	SAMPLE	491076-031	848869	261198
066	SAMPLE	491076-032	847685	261131
067	SAMPLE	491076-033	854852	260741
068	SAMPLE	491076-034	850443	260881
069	SAMPLE	491160-002	860775	265336
070	SAMPLE	491160-003	852943	263375
071	MSS	491193-001	844496	261747
072	CCV		856984	254793
073	CCB		877066	264676
074	MS	QC1089854	840441	259870
075	MSD	QC1089855	843210	260161
076	PDS	QC1089856	848233	262387
077	BLANK	QC1090113	911855	272769
078	LCS	QC1090114	889684	265710
079	SAMPLE	491099-002	875651	260619
080	SAMPLE	491209-001	834998	242351
081	SAMPLE	491232-002	865691	254005
082	SAMPLE	491241-001	878655	259300
083	SAMPLE	491241-002	877897	261959
084	CCV		848593	253842
085	CCB		870658	263330
086	MSS	491241-003	878124	262207
087	MS	QC1090115	865458	258921
088	MSD	QC1090116	866141	259376
089	CCV		848593	254925
090	CCB		868591	263739
091	BLANK	QC1090212	795824	254331
092	BS	QC1090213	802344	253782
093	BSD	QC1090214	800446	255157
094	SAMPLE	491224-002	795925	249388
095	SAMPLE	491224-004	794195	249863
096	SAMPLE	491224-005	789873	249314
097	SAMPLE	491224-007	788945	248528
098	SAMPLE	491224-009	788759	250116
099	SAMPLE	491224-010	789406	251193
100	SAMPLE	491224-012	793449	250934
101	CCV		832589	252627
102	CCB		851385	260533
103	SAMPLE	491224-015	794393	251609
104	SAMPLE	491224-017	794807	251887
105	SAMPLE	491224-019	798435	252839
106	SAMPLE	491224-022	798115	251816
107	SAMPLE	491224-024	802442	252968
108	SAMPLE	491258-003	798417	250269
109	SAMPLE	491258-005	797829	252014
110	SAMPLE	491258-007	811230	254801
111	SAMPLE	491258-009	796766	252511
112	SAMPLE	491258-010	795629	253058

Date: 08/29/23		Reference: icp data		
Sequence: MET09 08/29/23		Analyzed: 08/29/23 10:01		
#	Type	Sample ID	Y A	Y R
113	CCV		833393	252641
114	CCB		849010	262464
115	SAMPLE	491258-012	791322	249499
116	SAMPLE	491258-015	790201	250858
117	SAMPLE	491258-017	794041	252549
118	BLANK	QC1090215	804567	257700
119	BS	QC1090217	806286	258326
120	BSD	QC1090218	801160	256135
121	SAMPLE	491258-018	793379	251745
122	SAMPLE	491258-020	798425	252983
123	SAMPLE	491258-022	799633	252415
124	SAMPLE	491258-024	792415	250442
125	CCV		834167	252846
126	CCB		852609	263379
127	SAMPLE	491258-025	795278	251465
128	SAMPLE	491258-027	791125	250218
129	SAMPLE	491258-029	793186	251756
130	SAMPLE	491258-031	792735	251392
131	SAMPLE	491258-033	799728	252182
132	SAMPLE	491258-036	799708	251982
133	SAMPLE	491258-038	798967	253770
134	SAMPLE	491258-039	799472	254465
135	SAMPLE	491258-041	805255	255831
136	SAMPLE	491258-042	793449	254715
137	CCV		837654	253322
138	CCB		852120	262212
139	BLANK	QC1090242	2439499 *	749367 *
140	LCS	QC1090243	839402	262505
141	MSS	491180-005	830381	258710
142	MS	QC1090244	826698	259300
143	MSD	QC1090245	828054	258826
144	PDS	QC1090246	833378	258151
145	SAMPLE	491180-012	836593	259324
146	SAMPLE	491180-019	828265	258151
147	CCV		836827	252179
148	CCB		857741	261040
149	SAMPLE	491180-026	840156	261256
150	SAMPLE	491213-002	839860	259559
151	SAMPLE	491289-001	851546	265296
152	SAMPLE	491290-001	857801	260277
153	CCV		838281	252571
154	CCB		858607	262373

Instrument: MET09

Calibration #: 673347641001

Units: mg/L

Date: 29-AUG-2023 10:01

X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	icp data	673347641002	L1	29-AUG-2023 10:04	S18676
L2	icp data	673347641003	L2	29-AUG-2023 10:07	S18675
L3	icp data	673347641004	L3	29-AUG-2023 10:10	S18674
L4	icp data	673347641005	L4	29-AUG-2023 10:13	S18673
L5	icp data	673347641006	L5	29-AUG-2023 10:17	S18672
L6	icp data	673347641007	L6	29-AUG-2023 10:22	S18663

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00342	1.05E-4		7870.7	1.000		7	0.995	

$$\text{Instrument amount} = a0 + (\text{response} \times a1) + (\text{response}^2 \times a2)$$

WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	2350.1	5568.1	9979.4	10112	9719.6	9495.0

Spiked Amounts / Drifts	Ch	L1 %D	L2 %D	L3 %D	L4 %D	L5 %D	L6 %D
Lead	A	0.0033 27	0.0100 -8	0.1000 8	1.0000 6	5.0000 2	10.000 -1

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09
Calnum: 673347641001

Cal Date: 29-AUG-2023

- ICV 673347641010 (29-AUG-2023) stds: S18803

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	0.9882	mg/L	-1	10	

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641012	File: icp data
Cal: 673347641002	Time: 29-AUG-2023 10:38
Caldate: 29-AUG-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	901669	0.72
Yttrium	R	256506	263598	2.76

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	File: icp data	IDF: 1.0
Seqnum: 673347641014	Caldate: 29-AUG-2023	Time: 29-AUG-2023 10:44
Cal: 673347641002		

Standards: S18677

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	0.003692	0.003333	mg/L	!a+

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Aluminum	A	400.0	377.1	mg/L	94	
Aluminum as Al2O3	A	755.8	712.6	mg/L	94	
Iron	A	160.0	143.6	mg/L	90	
Iron as Fe2O3	A	228.8	205.3	mg/L	90	
Calcium	R	400.0	394.2	mg/L	99	
Calcium as CaCO3	R	998.9	984.3	mg/L	99	
Magnesium	R	400.0	408.4	mg/L	102	
Magnesium as MgCO3	R	1388	1417	mg/L	102	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	820222	-8.38
Yttrium	R	256506	238615	-6.97

!=warning +=high bias a=ICSA

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641015	File: icp data
Cal: 673347641002	Time: 29-AUG-2023 10:47
Caldate: 29-AUG-2023	

Standards: S18816

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9965	mg/L	0	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	822466	-8.13
Yttrium	R	256506	238607	-6.98

ENTHALPY CONTINUING CALIBRATION FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641089	File: icp data
Cal: 673347641001	Time: 29-AUG-2023 14:39
Caldate: 29-AUG-2023	

Standards: S18803

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	7870.7	10610	1.000	1.058	mg/L	6	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	848593	-5.21
Yttrium	R	256506	254925	-0.62

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641090	File: icp data
Cal: 673347641001	Time: 29-AUG-2023 14:42
Caldate: 29-AUG-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	868591	-2.98
Yttrium	R	256506	263739	2.82

ENTHALPY CONTINUING CALIBRATION FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641101	File: icp data
Cal: 673347641001	Time: 29-AUG-2023 16:21
Caldate: 29-AUG-2023	

Standards: S18803

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	7870.7	11296	1.000	1.127	mg/L	13	10	c+ ***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	832589	-7.00
Yttrium	R	256506	252627	-1.51

+ = high bias c = CCV

Instrument: MET09
Method: EPA 6010B

Begun: 08/30/23 07:50

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
001	icp data	ICALBLK				08/30/23 07:50	1.0		
002	icp data	ICAL	L1			08/30/23 07:53	1.0	1	
003	icp data	ICAL	L2			08/30/23 07:56	1.0	2	
004	icp data	ICAL	L3			08/30/23 07:59	1.0	3	
005	icp data	ICAL	L4			08/30/23 08:02	1.0	4	
006	icp data	ICAL	L5			08/30/23 08:05	1.0	5	
007	icp data	ICAL	L6			08/30/23 08:08	1.0	6	
008	icp data	ICAL	L7			08/30/23 08:11	1.0	7	
009	icp data	ICAL	L8			08/30/23 08:15	1.0	8	
010	icp data	ICV				08/30/23 08:18	1.0	9	
011	icp data	ICB				08/30/23 08:21	1.0		
012	icp data	CRI				08/30/23 08:24	1.0	10	
013	icp data	ICSA				08/30/23 08:27	1.0	11	6:MGASMGCO3=1400
014	icp data	ICSAB				08/30/23 08:30	1.0	12	6:MGASMGCO3=1400
015	icp data	BS	QC1090213	Wipe	321361	08/30/23 08:33	1.0	13	
016	icp data	BSD	QC1090214	Wipe	321361	08/30/23 08:36	1.0	13	
017	icp data	SAMPLE	491224-002	Wipe	321361	08/30/23 08:40	1.0	13	2:FE=85
018	icp data	SAMPLE	491224-004	Wipe	321361	08/30/23 08:43	1.0	13	1:FE=59
019	icp data	SAMPLE	491224-005	Wipe	321361	08/30/23 08:46	1.0	13	2:FE=86
020	icp data	SAMPLE	491224-007	Wipe	321361	08/30/23 08:49	1.0	13	1:FE=79
021	icp data	SAMPLE	491224-009	Wipe	321361	08/30/23 08:52	1.0	13	1:FE=54
022	icp data	SAMPLE	491224-010	Wipe	321361	08/30/23 08:55	1.0	13	1:FE=44
023	icp data	SAMPLE	491224-012	Wipe	321361	08/30/23 08:58	1.0	13	1:FE=55
024	icp data	SAMPLE	491224-015	Wipe	321361	08/30/23 09:01	1.0	13	1:FE=42
025	icp data	CCV				08/30/23 09:05	1.0	9	
026	icp data	CCB				08/30/23 09:08	1.0		
027	icp data	SAMPLE	491224-017	Wipe	321361	08/30/23 09:11	1.0	13	1:FE=42
028	icp data	SAMPLE	491224-019	Wipe	321361	08/30/23 09:14	1.0	13	1:FE=59
029	icp data	SAMPLE	491224-022	Wipe	321361	08/30/23 09:17	1.0	13	1:FE=80
030	icp data	SAMPLE	491224-024	Wipe	321361	08/30/23 09:20	1.0	13	1:FE=86
031	icp data	SAMPLE	491258-003	Wipe	321361	08/30/23 09:23	1.0	13	1:FE=54
032	icp data	SAMPLE	491258-005	Wipe	321361	08/30/23 09:26	1.0	13	1:FE=50
033	icp data	SAMPLE	491258-007	Wipe	321361	08/30/23 09:30	1.0	13	1:FE=42
034	icp data	SAMPLE	491258-009	Wipe	321361	08/30/23 09:33	1.0	13	1:FE=33
035	icp data	SAMPLE	491258-010	Wipe	321361	08/30/23 09:36	1.0	13	1:FE=37
036	icp data	SAMPLE	491258-012	Wipe	321361	08/30/23 09:39	1.0	13	1:FE=59
037	icp data	XCCV				08/30/23 09:42	1.0	9	
038	icp data	CCV				08/30/23 09:55	1.0	9	
039	icp data	CCB				08/30/23 09:58	1.0		
040	icp data	SAMPLE	491258-015	Wipe	321361	08/30/23 10:01	1.0	13	1:FE=59
041	icp data	SAMPLE	491258-017	Wipe	321361	08/30/23 10:05	1.0	13	1:FE=43
042	icp data	BLANK	QC1090215	Wipe	321362	08/30/23 10:08	1.0	13	
043	icp data	BS	QC1090217	Wipe	321362	08/30/23 10:11	1.0	13	
044	icp data	BSD	QC1090218	Wipe	321362	08/30/23 10:14	1.0	13	
045	icp data	SAMPLE	491258-018	Wipe	321362	08/30/23 10:17	1.0	13	1:FE=34
046	icp data	SAMPLE	491258-020	Wipe	321362	08/30/23 10:20	1.0	13	1:FE=50
047	icp data	SAMPLE	491258-022	Wipe	321362	08/30/23 10:23	1.0	13	1:FE=67
048	icp data	SAMPLE	491258-024	Wipe	321362	08/30/23 10:26	1.0	13	1:FE=83
049	icp data	SAMPLE	491258-025	Wipe	321362	08/30/23 10:30	1.0	13	1:FE=50
050	icp data	CCV				08/30/23 10:33	1.0	9	

Instrument: MET09		Begun: 08/30/23 07:50							
Method: EPA 6010B									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
051	icp data	CCB				08/30/23 10:36	1.0		
052	icp data	SAMPLE	491258-027	Wipe	321362	08/30/23 10:39	1.0	13	1:FE=81
053	icp data	SAMPLE	491258-029	Wipe	321362	08/30/23 10:42	1.0	13	1:FE=49
054	icp data	SAMPLE	491258-031	Wipe	321362	08/30/23 10:45	1.0	13	1:FE=48
055	icp data	SAMPLE	491258-033	Wipe	321362	08/30/23 10:48	1.0	13	1:FE=70
056	icp data	SAMPLE	491258-036	Wipe	321362	08/30/23 10:51	1.0	13	1:FE=49
057	icp data	SAMPLE	491258-038	Wipe	321362	08/30/23 10:55	1.0	13	
058	icp data	SAMPLE	491258-039	Wipe	321362	08/30/23 10:58	1.0	13	
059	icp data	SAMPLE	491258-041	Wipe	321362	08/30/23 11:01	1.0	13	
060	icp data	SAMPLE	491258-042	Wipe	321362	08/30/23 11:04	1.0	13	
061	icp data	SAMPLE	491223-001	Soil	321321	08/30/23 11:07	50.0	13	
062	icp data	CCV				08/30/23 11:10	1.0	9	
063	icp data	CCB				08/30/23 11:13	1.0		

SBW 08/30/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 039.

SBW 08/30/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 040 through 063.

Standards Used:

1=S18676 2=S18675 3=S18674 4=S18673 5=S18672 6=S18663 7=S18726 8=S18547 9=S18803 10=S18728 11=S18677 12=S18816 13=S14463

Date: 08/30/23		Reference: icp data		
Sequence: MET09 08/30/23		Analyzed: 08/30/23 07:50		
#	Type	Sample ID	Y A	Y R
		ICALBLK STD	881675	255485
		LOWER LIMIT	264502	76646
		UPPER LIMIT	1763349	510971
011	ICB		876438	258886
013	ICSA		802840	235472
014	ICSAB		803586	236550
015	BS	QC1090213	827643	251318
016	BSD	QC1090214	828155	248567
017	SAMPLE	491224-002	827005	248914
018	SAMPLE	491224-004	824116	248352
019	SAMPLE	491224-005	825407	248621
020	SAMPLE	491224-007	826885	249060
021	SAMPLE	491224-009	830675	249855
022	SAMPLE	491224-010	833487	250956
023	SAMPLE	491224-012	827258	249024
024	SAMPLE	491224-015	830811	252031
025	CCV		860294	248241
026	CCB		881301	258815
027	SAMPLE	491224-017	832592	252428
028	SAMPLE	491224-019	834099	251660
029	SAMPLE	491224-022	835958	253184
030	SAMPLE	491224-024	838317	253244
031	SAMPLE	491258-003	833266	250527
032	SAMPLE	491258-005	829825	250893
033	SAMPLE	491258-007	842729	254985
034	SAMPLE	491258-009	829749	251472
035	SAMPLE	491258-010	830886	252530
036	SAMPLE	491258-012	829383	250832
038	CCV		885095	256801
039	CCB		902046	267088
040	SAMPLE	491258-015	843996	257268
041	SAMPLE	491258-017	850231	258022
042	BLANK	QC1090215	852184	260862
043	BS	QC1090217	850927	260758
044	BSD	QC1090218	846929	259082
045	SAMPLE	491258-018	847304	258802
046	SAMPLE	491258-020	846005	257807
047	SAMPLE	491258-022	846585	258049
048	SAMPLE	491258-024	842845	257608
049	SAMPLE	491258-025	846250	257375
050	CCV		874814	255455
051	CCB		900513	264568
052	SAMPLE	491258-027	835558	256461
053	SAMPLE	491258-029	840900	258069
054	SAMPLE	491258-031	840260	257990
055	SAMPLE	491258-033	843156	258074
056	SAMPLE	491258-036	843013	258527
057	SAMPLE	491258-038	847618	258307
058	SAMPLE	491258-039	849847	259092
059	SAMPLE	491258-041	851542	259006
060	SAMPLE	491258-042	839865	257960

Date: 08/30/23		Reference: icp data		
Sequence: MET09 08/30/23		Analyzed: 08/30/23 07:50		
#	Type	Sample ID	Y A	Y R
061	SAMPLE	491223-001	920837	268001
062	CCV		867204	255598
063	CCB		892478	264541

Instrument: MET09

Calibration #: 673348950001

Units: mg/L

Date: 30-AUG-2023 07:50

X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	icp data	673348950002	L1	30-AUG-2023 07:53	S18676
L2	icp data	673348950003	L2	30-AUG-2023 07:56	S18675
L3	icp data	673348950004	L3	30-AUG-2023 07:59	S18674
L4	icp data	673348950005	L4	30-AUG-2023 08:02	S18673
L5	icp data	673348950006	L5	30-AUG-2023 08:05	S18672
L6	icp data	673348950007	L6	30-AUG-2023 08:08	S18663

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00466	1.01E-4		7398.9	1.000		7	0.995	

$$\text{Instrument amount} = a0 + (\text{response} \times a1) + (\text{response}^2 \times a2)$$

WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	-2148	6253.2	10240	10295	9915.3	9838.0

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Lead	A	0.0033	18	0.0100	10	0.1000	8	1.0000	5	5.0000	1	10.000	0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09
Calnum: 673348950001

Cal Date: 30-AUG-2023

- ICV 673348950010 (30-AUG-2023) stds: S18803

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.020	mg/L	2	10	

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950011	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 08:21
Caldate: 30-AUG-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	876438	-0.59
Yttrium	R	255485	258886	1.33

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950013	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 08:27
Caldate: 30-AUG-2023	

Standards: S18677

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[0.0004912]	0.003333	mg/L	

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Aluminum	A	400.0	378.8	mg/L	95	
Aluminum as Al ₂ O ₃	A	755.8	715.8	mg/L	95	
Iron	A	160.0	144.9	mg/L	91	
Iron as Fe ₂ O ₃	A	228.8	207.2	mg/L	91	
Calcium	R	400.0	402.0	mg/L	100	
Calcium as CaCO ₃	R	998.9	1004	mg/L	100	
Magnesium	R	400.0	413.2	mg/L	103	
Magnesium as MgCO ₃	R	1388	1433	mg/L	103	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	802840	-8.94
Yttrium	R	255485	235472	-7.83

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950014	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 08:30
Caldate: 30-AUG-2023	

Standards: S18816

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9880	mg/L	-1	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	803586	-8.86
Yttrium	R	255485	236550	-7.41

ENTHALPY CONTINUING CALIBRATION FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950025	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 09:05
Caldate: 30-AUG-2023	

Standards: S18803

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	7398.9	10521	1.000	1.021	mg/L	2	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	860294	-2.43
Yttrium	R	255485	248241	-2.84

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950026	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 09:08
Caldate: 30-AUG-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	881301	-0.04
Yttrium	R	255485	258815	1.30

ENTHALPY CONTINUING CALIBRATION FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950038	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 09:55
Caldate: 30-AUG-2023	

Standards: S18803

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	7398.9	9609.3	1.000	0.9326	mg/L	-7	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	885095	0.39
Yttrium	R	255485	256801	0.52

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950039	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 09:58
Caldate: 30-AUG-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	902046	2.31
Yttrium	R	255485	267088	4.54

SAMPLE PREPARATION SUMMARY

Batch #: 321361
Started By: MTY

Method: 3050B
Prep Date: 29-AUG-2023 13:17

Analysis: ICP
Finished By: MTY

Sample	Matrix	Initial	Final	Prep DF	pH	Spike S18277	Spike S18278	Analysis
491224-002	Wipe	1 ft2	50 mL	50.0				6010
491224-004	Wipe	1 ft2	50 mL	50.0				6010
491224-005	Wipe	1 ft2	50 mL	50.0				6010
491224-007	Wipe	1.02 ft2	50 mL	49.02				6010
491224-009	Wipe	1 ft2	50 mL	50.0				6010
491224-010	Wipe	1 ft2	50 mL	50.0				6010
491224-012	Wipe	1 ft2	50 mL	50.0				6010
491224-015	Wipe	1 ft2	50 mL	50.0				6010
491224-017	Wipe	1 ft2	50 mL	50.0				6010
491224-019	Wipe	1.1104 ft2	50 mL	45.03				6010
491224-022	Wipe	1.01 ft2	50 mL	49.50				6010
491224-024	Wipe	1.1104 ft2	50 mL	45.03				6010
491258-003	Wipe	1 ft2	50 mL	50.0				6010
491258-005	Wipe	1 ft2	50 mL	50.0				6010
491258-007	Wipe	1.0828 ft2	50 mL	46.18				6010
491258-009	Wipe	1 ft2	50 mL	50.0				6010
491258-010	Wipe	1 ft2	50 mL	50.0				6010
491258-012	Wipe	1 ft2	50 mL	50.0				6010
491258-015	Wipe	1 ft2	50 mL	50.0				6010
491258-017	Wipe	1 ft2	50 mL	50.0				6010
QC1090212 BLANK	Wipe	1 ft2	50 mL	50.0				ICP
QC1090213 BS	Wipe	1 ft2	50 mL	50.0		.5 mL	.5 mL	ICP
QC1090214 BSD	Wipe	1 ft2	50 mL	50.0		.5 mL	.5 mL	ICP

Analyst: SBW 08/30/23

Reviewer: MCP 08/30/23

ICP and ICP-MS Prep Log for Soil/Misc.

Initials: My Prep Method: 3050B 1420.2 / Other: QC Batch # 25 3.21.361 Therm ID/Corr Factor: 1165010
 Prep Start, Date/Time: 8/29/23 13:14 Prep End, Date/Time: 8/29/23 15:13 HotBlock Temp (Obs/Corr), °C: 98 / 98

HotBlock ID: 3

Sample ID	Bottle #	Sample pH (Water Only)	Sample Appearance	Initial Weight (g)	Bal. ID	Final Vol (mL)	Digestion Tube Lot#	Comment
Blank						SD		
LCS								
441-56001			wipe					
-4								
-5								
-7								
-9								
-10								
-12								
-15								
-17								
-19								
-22								
-24								
258-3								
-5								
-7								
-9								
-10								
-12								
-15								
-17								
LCSO								

Hydrochloric Acid ID: 10 mL 24000043

Nitric Acid ID: 10 mL 2023052481

H₂O₂ ID: 3 mL 227111

LCS Spike ID: 0.5 mL S18274, S18278

MS/MSD Spike ID: ↓

Gold Std ID: ↓

ICP Raw Data

Instrument: MET09
Method: EPA 6010B

Begun: 08/29/23 10:01

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	StdS Used	
001	icp data	ICALBLK				08/29/23 10:01	1.0		
002	icp data	ICAL	L1			08/29/23 10:04	1.0	1	
003	icp data	ICAL	L2			08/29/23 10:07	1.0	2	
004	icp data	ICAL	L3			08/29/23 10:10	1.0	3	
005	icp data	ICAL	L4			08/29/23 10:13	1.0	4	
006	icp data	ICAL	L5			08/29/23 10:17	1.0	5	
007	icp data	ICAL	L6			08/29/23 10:22	1.0	6	
008	icp data	ICAL	L7			08/29/23 10:26	1.0	7	
009	icp data	ICAL	L8			08/29/23 10:29	1.0	8	
010	icp data	ICV				08/29/23 10:32	1.0	9	
011	icp data	ICV				08/29/23 10:35	1.0	10	
012	icp data	ICB				08/29/23 10:38	1.0		
013	icp data	CRI				08/29/23 10:41	1.0	11	
014	icp data	ICSA				08/29/23 10:44	1.0	12	6:MGASMGCO3=1400
015	icp data	ICSAB				08/29/23 10:47	1.0	13	6:MGASMGCO3=1400
016	icp data	BLANK	QC1089645	Water	321199	08/29/23 10:50	1.0	14	
017	icp data	LCS	QC1089646	Water	321199	08/29/23 10:53	1.0	14	
018	icp data	SAMPLE	490630-001	Water	321199	08/29/23 10:56	1.0	14	
019	icp data	MSS	491028-001	Water	321199	08/29/23 10:59	1.0	14	
020	icp data	MS	QC1089647	Water	321199	08/29/23 11:02	1.0	14	
021	icp data	MSD	QC1089648	Water	321199	08/29/23 11:06	1.0	14	
022	icp data	CCV				08/29/23 11:09	1.0	10	
023	icp data	CCB				08/29/23 11:12	1.0		
024	icp data	CCV				08/29/23 11:15	1.0	9	
025	icp data	CCB				08/29/23 11:18	1.0		
026	icp data	BLANK	QC1090070	Drinking Water	321327	08/29/23 11:21	1.0	14	
027	icp data	LCS	QC1090071	Drinking Water	321327	08/29/23 11:24	1.0	14	
028	icp data	MSS	491229-001	Drinking Water	321327	08/29/23 11:27	1.0	14	
029	icp data	MS	QC1090072	Drinking Water	321327	08/29/23 11:31	1.0	14	
030	icp data	MSD	QC1090073	Drinking Water	321327	08/29/23 11:34	1.0	14	
031	icp data	SAMPLE	491230-001	Drinking Water	321327	08/29/23 11:37	1.0	14	
032	icp data	SAMPLE	491232-001	Drinking Water	321327	08/29/23 11:41	1.0	14	
033	icp data	SAMPLE	491164-007	Soil	321281	08/29/23 11:44	1.0	14	3:FE=290
034	icp data	PDS	QC1089611	Soil	321188	08/29/23 11:47	1.0	14	4:ALASAL2O3=120
035	icp data	SAMPLE	491076-021	Soil	321254	08/29/23 11:50	1.0	14	2:FE=280
036	icp data	CCV				08/29/23 11:53	1.0	9	
037	icp data	CCB				08/29/23 11:56	1.0		
038	icp data	SAMPLE	491076-022	Soil	321254	08/29/23 12:00	1.0	14	3:FE=290
039	icp data	SAMPLE	491076-023	Soil	321254	08/29/23 12:03	1.0	14	3:FE=300
040	icp data	SAMPLE	491076-024	Soil	321254	08/29/23 12:06	1.0	14	3:FE=300
041	icp data	SAMPLE	491076-025	Soil	321254	08/29/23 12:09	1.0	14	3:FE=250
042	icp data	SAMPLE	491127-005	Soil	321254	08/29/23 12:12	1.0	14	2:AL=250
043	icp data	SAMPLE	491127-012	Soil	321254	08/29/23 12:15	1.0	14	2:FE=200
044	icp data	SAMPLE	491127-019	Soil	321254	08/29/23 12:18	1.0	14	2:FE=170
045	icp data	SAMPLE	491127-026	Soil	321254	08/29/23 12:21	1.0	14	2:AL=210
046	icp data	SAMPLE	491173-007	Soil	321254	08/29/23 12:25	1.0	14	2:AL=77
047	icp data	SAMPLE	491173-008	Soil	321254	08/29/23 12:28	1.0	14	2:AL=110
048	icp data	CCV				08/29/23 12:31	1.0	9	
049	icp data	CCB				08/29/23 12:34	1.0		
050	icp data	MSS	491005-001	Soil	321201	08/29/23 12:37	10.0	14	2:FEASFE2O3=40

Instrument: MET09

Begun: 08/29/23 10:01

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	StdS Used	
051	icp data	MS	QC1089655	Soil	321201	08/29/23 12:40	10.0	14	2:FEASFE2O3=240
052	icp data	MSD	QC1089656	Soil	321201	08/29/23 12:43	10.0	14	2:FEASFE2O3=150
053	icp data	PDS	QC1089657	Soil	321201	08/29/23 12:46	10.0	14	2:FEASFE2O3=340
054	icp data	SAMPLE	491005-002	Soil	321201	08/29/23 12:50	10.0	14	1:FE=160
055	icp data	SAMPLE	491005-003	Soil	321201	08/29/23 12:53	10.0	14	1:FE=37
056	icp data	SAMPLE	491005-004	Soil	321201	08/29/23 12:56	10.0	14	1:FE=120
057	icp data	LCS	QC1089853	Soil	321253	08/29/23 12:59	1.0	14	
058	icp data	SAMPLE	491076-026	Soil	321253	08/29/23 13:02	1.0	14	2:FE=240
059	icp data	SAMPLE	491076-027	Soil	321253	08/29/23 13:05	1.0	14	2:FE=240
060	icp data	CCV				08/29/23 13:08	1.0	9	
061	icp data	CCB				08/29/23 13:11	1.0		
062	icp data	SAMPLE	491076-028	Soil	321253	08/29/23 13:15	1.0	14	2:FE=220
063	icp data	SAMPLE	491076-029	Soil	321253	08/29/23 13:18	1.0	14	2:FE=250
064	icp data	SAMPLE	491076-030	Soil	321253	08/29/23 13:21	1.0	14	2:FE=250
065	icp data	SAMPLE	491076-031	Soil	321253	08/29/23 13:24	1.0	14	2:FE=230
066	icp data	SAMPLE	491076-032	Soil	321253	08/29/23 13:27	1.0	14	2:FE=240
067	icp data	SAMPLE	491076-033	Soil	321253	08/29/23 13:30	1.0	14	2:FE=260
068	icp data	SAMPLE	491076-034	Soil	321253	08/29/23 13:33	1.0	14	2:FE=260
069	icp data	SAMPLE	491160-002	Soil	321253	08/29/23 13:36	1.0	14	2:FE=210
070	icp data	SAMPLE	491160-003	Soil	321253	08/29/23 13:39	1.0	14	2:FE=140
071	icp data	MSS	491193-001	Soil	321253	08/29/23 13:43	1.0	14	5:FEASFE2O3=230
072	icp data	CCV				08/29/23 13:46	1.0	9	
073	icp data	CCB				08/29/23 13:49	1.0		
074	icp data	MS	QC1089854	Soil	321253	08/29/23 13:52	1.0	14	5:FEASFE2O3=240
075	icp data	MSD	QC1089855	Soil	321253	08/29/23 13:55	1.0	14	5:FEASFE2O3=240
076	icp data	PDS	QC1089856	Soil	321253	08/29/23 13:58	1.0	14	5:FEASFE2O3=230
077	icp data	BLANK	QC1090113	Water	321335	08/29/23 14:01	1.0	14	
078	icp data	LCS	QC1090114	Water	321335	08/29/23 14:04	1.0	14	
079	icp data	SAMPLE	491099-002	Water	321335	08/29/23 14:08	1.0	14	
080	icp data	SAMPLE	491209-001	Water	321335	08/29/23 14:11	1.0	14	1:FE=38
081	icp data	SAMPLE	491232-002	Sea Water	321335	08/29/23 14:14	25.0	14	
082	icp data	SAMPLE	491241-001	Water	321335	08/29/23 14:17	1.0	14	
083	icp data	SAMPLE	491241-002	Water	321335	08/29/23 14:20	1.0	14	
084	icp data	CCV				08/29/23 14:23	1.0	9	
085	icp data	CCB				08/29/23 14:26	1.0		
086	icp data	MSS	491241-003	Water	321335	08/29/23 14:29	1.0	14	
087	icp data	MS	QC1090115	Water	321335	08/29/23 14:33	1.0	14	
088	icp data	MSD	QC1090116	Water	321335	08/29/23 14:36	1.0	14	
089	icp data	CCV				08/29/23 14:39	1.0	9	
090	icp data	CCB				08/29/23 14:42	1.0		
091	icp data	BLANK	QC1090212	Wipe	321361	08/29/23 15:50	1.0	14	
092	icp data	BS	QC1090213	Wipe	321361	08/29/23 15:53	1.0	14	
093	icp data	BSD	QC1090214	Wipe	321361	08/29/23 15:56	1.0	14	
094	icp data	SAMPLE	491224-002	Wipe	321361	08/29/23 15:59	1.0	14	2:FE=92
095	icp data	SAMPLE	491224-004	Wipe	321361	08/29/23 16:02	1.0	14	1:FE=64
096	icp data	SAMPLE	491224-005	Wipe	321361	08/29/23 16:05	1.0	14	2:FE=93
097	icp data	SAMPLE	491224-007	Wipe	321361	08/29/23 16:08	1.0	14	1:FE=86
098	icp data	SAMPLE	491224-009	Wipe	321361	08/29/23 16:11	1.0	14	1:FE=60
099	icp data	SAMPLE	491224-010	Wipe	321361	08/29/23 16:14	1.0	14	1:FE=59
100	icp data	SAMPLE	491224-012	Wipe	321361	08/29/23 16:18	1.0	14	1:FE=49

Instrument: MET09

Begun: 08/29/23 10:01

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
101	icp data	CCV				08/29/23 16:21	1.0	9	
102	icp data	CCB				08/29/23 16:24	1.0		
103	icp data	SAMPLE	491224-015	Wipe	321361	08/29/23 16:27	1.0	14	1:FE=47
104	icp data	SAMPLE	491224-017	Wipe	321361	08/29/23 16:30	1.0	14	1:FE=45
105	icp data	SAMPLE	491224-019	Wipe	321361	08/29/23 16:33	1.0	14	1:FE=64
106	icp data	SAMPLE	491224-022	Wipe	321361	08/29/23 16:36	1.0	14	1:FE=86
107	icp data	SAMPLE	491224-024	Wipe	321361	08/29/23 16:39	1.0	14	1:FE=92
108	icp data	SAMPLE	491258-003	Wipe	321361	08/29/23 17:24	1.0	14	1:FE=58
109	icp data	SAMPLE	491258-005	Wipe	321361	08/29/23 17:27	1.0	14	1:FE=54
110	icp data	SAMPLE	491258-007	Wipe	321361	08/29/23 17:30	1.0	14	1:FE=45
111	icp data	SAMPLE	491258-009	Wipe	321361	08/29/23 17:33	1.0	14	1:FE=36
112	icp data	SAMPLE	491258-010	Wipe	321361	08/29/23 17:36	1.0	14	1:FE=41
113	icp data	CCV				08/29/23 17:39	1.0	9	
114	icp data	CCB				08/29/23 17:42	1.0		
115	icp data	SAMPLE	491258-012	Wipe	321361	08/29/23 17:45	1.0	14	1:FE=65
116	icp data	SAMPLE	491258-015	Wipe	321361	08/29/23 17:49	1.0	14	1:FE=67
117	icp data	SAMPLE	491258-017	Wipe	321361	08/29/23 17:52	1.0	14	1:FE=47
118	icp data	BLANK	QC1090215	Wipe	321362	08/29/23 17:55	1.0	14	
119	icp data	BS	QC1090217	Wipe	321362	08/29/23 17:58	1.0	14	
120	icp data	BSD	QC1090218	Wipe	321362	08/29/23 18:01	1.0	14	
121	icp data	SAMPLE	491258-018	Wipe	321362	08/29/23 18:04	1.0	14	1:FE=37
122	icp data	SAMPLE	491258-020	Wipe	321362	08/29/23 18:07	1.0	14	1:FE=54
123	icp data	SAMPLE	491258-022	Wipe	321362	08/29/23 18:10	1.0	14	1:FE=73
124	icp data	SAMPLE	491258-024	Wipe	321362	08/29/23 18:14	1.0	14	1:FE=90
125	icp data	CCV				08/29/23 18:17	1.0	9	
126	icp data	CCB				08/29/23 18:20	1.0		
127	icp data	SAMPLE	491258-025	Wipe	321362	08/29/23 18:23	1.0	14	1:FE=54
128	icp data	SAMPLE	491258-027	Wipe	321362	08/29/23 18:26	1.0	14	1:FE=88
129	icp data	SAMPLE	491258-029	Wipe	321362	08/29/23 18:29	1.0	14	1:FE=54
130	icp data	SAMPLE	491258-031	Wipe	321362	08/29/23 18:32	1.0	14	1:FE=52
131	icp data	SAMPLE	491258-033	Wipe	321362	08/29/23 18:35	1.0	14	1:FE=74
132	icp data	SAMPLE	491258-036	Wipe	321362	08/29/23 18:38	1.0	14	1:FE=53
133	icp data	SAMPLE	491258-038	Wipe	321362	08/29/23 18:42	1.0	14	
134	icp data	SAMPLE	491258-039	Wipe	321362	08/29/23 18:45	1.0	14	
135	icp data	SAMPLE	491258-041	Wipe	321362	08/29/23 18:48	1.0	14	
136	icp data	SAMPLE	491258-042	Wipe	321362	08/29/23 18:51	1.0	14	
137	icp data	CCV				08/29/23 18:54	1.0	9	
138	icp data	CCB				08/29/23 18:57	1.0		
139	icp data	BLANK	QC1090242	Soil	321369	08/29/23 19:00	1.0	14	
140	icp data	LCS	QC1090243	Soil	321369	08/29/23 19:03	1.0	14	
141	icp data	MSS	491180-005	Soil	321369	08/29/23 19:07	1.0	14	4:ALASAL2O3=320
142	icp data	MS	QC1090244	Soil	321369	08/29/23 19:10	1.0	14	4:ALASAL2O3=400
143	icp data	MSD	QC1090245	Soil	321369	08/29/23 19:13	1.0	14	4:ALASAL2O3=430
144	icp data	PDS	QC1090246	Soil	321369	08/29/23 19:16	1.0	14	4:ALASAL2O3=310
145	icp data	SAMPLE	491180-012	Soil	321369	08/29/23 19:19	1.0	14	2:FE=200
146	icp data	SAMPLE	491180-019	Soil	321369	08/29/23 19:22	1.0	14	2:FE=190
147	icp data	CCV				08/29/23 19:25	1.0	9	
148	icp data	CCB				08/29/23 19:28	1.0		
149	icp data	SAMPLE	491180-026	Soil	321369	08/29/23 19:32	1.0	14	2:FE=230
150	icp data	SAMPLE	491213-002	Soil	321369	08/29/23 19:35	1.0	14	2:FE=130

Instrument: MET09					Begun: 08/29/23 10:01				
Method: EPA 6010B									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
151	icp data	SAMPLE	491289-001	Soil	321369	08/29/23 19:38	1.0	14	2:FE=170
152	icp data	SAMPLE	491290-001	Miscell.	321369	08/29/23 19:41	1.0	14	2:FE=140
153	icp data	CCV				08/29/23 19:44	1.0	9	
154	icp data	CCB				08/29/23 19:47	1.0		

SBW 08/29/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 025.

SBW 08/29/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 026 through 090.

SBW 08/30/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 091 through 154.

Standards Used:

1=S18676 2=S18675 3=S18674 4=S18673 5=S18672 6=S18663 7=S18726 8=S18547 9=S18803 10=S16826 11=S18728 12=S18677 13=S18816 14=S14463

ENTHALPY BLANK USER REPORT FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	Lab ID: QC1090212	
Seqnum: 673347641091.1	Matrix: Wipe	
File: icp data	Batch: 321361	Time: 29-AUG-2023 15:50
Cal: 673347641001	Caldate: 29-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Flags
Lead	A	-0.0007655	ND	0.50	>c+ u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BLANK Abund	%Drift
Yttrium	A	895233	795824	-11.10

+ = high bias > = closing c = CCV u = use

Label: BLANK.QC1090212,321361 Rack: Tube: 2:9 Type: Sample

Date Time: 8/29/2023 3:50:00 PM Weight: 1 Volume: 1

Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -

LIMS ID: Customer: Customer Ref: -

Sample Date Time: Sample Site: Description: -

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00079110	0.00079110	mg/L	556.36895998	0.00011932	15.08217264	10.16346877	1.83		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	0.00079697
Al 396.152	Al	n	0.02739922	0.02739922	mg/L	2231.82978671	0.00051676	1.88605369	20.95603060	0.94	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	0.02770928
As 188.980	As	nu	-0.00063449	-0.00063449	mg/L	11.96533977	0.00163683	257.97741212	9.22151284	77.07	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	-0.00223668
B 249.678	B	n	0.00272708	0.00272708	mg/L	395.46228073	0.00047339	17.35900605	20.09795869	5.08	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	0.00268391
Ba 230.424	Ba	n	0.00090249	0.00090249	mg/L	254.21582950	0.00020657	22.88841140	21.33382847	8.39	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	0.00114028
Be 313.107	Be	n	0.00002754	0.00002754	mg/L	105.80868072	0.00000514	18.65840771	14.00499155	13.24	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.474213364378	2725930.91916582	0.00002548
Ca 317.933	Ca-R	n	0.01458685	0.01458685	mg/L	2269.80997461	0.00082606	5.66303409	13.75840708	0.61	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	0.01420857
Cd 214.439	Cd	n	0.00015550	0.00015550	mg/L	53.50043689	0.00004556	29.29789929	9.48319128	17.73	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	0.00013544
Co 230.786	Co	n	0.00088582	0.00088582	mg/L	141.29351361	0.00025545	28.83765777	11.33001811	8.02	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	0.00112507
Cr 267.716	Cr	n	0.00077213	0.00077213	mg/L	136.61497883	0.00022646	29.32957460	16.66253754	12.20	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	0.00065693
Cu 324.754	Cu	n	0.00274125	0.00274125	mg/L	661.42241012	0.00116300	42.42601867	51.28694694	7.75	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	0.00373919
Fe 259.940	Fe	n	0.02027183	0.02027183	mg/L	1637.92455757	0.00106468	5.25200464	71.84924608	4.39	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	0.01911895
K 766.491	K-R	n	0.04567425	0.04567425	mg/L	147.90529105	0.01544375	33.81281680	28.24243143	19.09	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	0.02911633
Li 670.783	Li-R	nu	-0.00282743	-0.00282743	mg/L	-338.62864256	0.00050629	17.90623891	69.43364550	20.50	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	-0.00230785
Mg 279.800	Mg-R	nu	-0.00396366	-0.00396366	mg/L	80.02978218	0.00049427	12.47007249	1.41372440	1.77	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	-0.00341190
Mn 257.610	Mn	n	0.00679192	0.00679192	mg/L	3207.33730797	0.00038866	5.72237021	184.32586239	5.75	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	0.00709314
Mo 204.598	Mo	n	0.00133997	0.00133997	mg/L	33.24928957	0.00058572	43.71175666	5.91420388	17.79	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	0.00145886
Na 589.592	Na-R	nu	-0.02977146	-0.02977146	mg/L	1455.26324810	0.01929506	64.81060654	260.72583979	17.92	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	-0.00848367
Ni 231.604	Ni	nu	-0.00083314	-0.00083314	mg/L	55.51578469	0.00024751	29.70814119	6.22608001	11.22	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	-0.00086266
P 177.434	P	n	0.03200909	0.03200909	mg/L	9.44485385	0.00766371	23.94227913	1.66311333	17.61		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	0.03736321
Pb 220.353	Pb	nu	-0.00076548	-0.00076548	mg/L	-30.19430113	0.00130636	170.65950245	13.12496516	43.47	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	-0.00224471
S 181.972	S	n	0.17387745	0.17387745	mg/L	366.79450678	0.00191627	1.10208075	2.77052192	0.76		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	0.17306849
Sb 206.834	Sb	nu	0.00079307	0.00079307	mg/L	-69.51485893	0.00089198	112.47198276	3.00877921	4.33	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	-0.00022977
Se 196.026	Se	n	0.00379239	0.00379239	mg/L	64.23872427	0.00294003	77.52451096	10.94269747	17.03	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	0.00372843
Si 251.611	Si	n	1.01556827	1.01556827	mg/L	9979.46117928	0.21252085	20.92629820	2036.43879226	20.41		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	0.79119715
Sn 189.925	Sn	n	0.02929756	0.02929756	mg/L	352.55819629	0.00080968	2.76363786	9.05018921	2.57	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	0.02837181
Sr 421.552	Sr-R	nu	-0.00003226	-0.00003226	mg/L	25.20167678	0.00001457	45.17106418	8.73493924	34.66	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	-0.00001960
Ti 334.941	Ti	n	0.00172579	0.00172579	mg/L	1041.64901525	0.00043229	25.04890521	166.69550950	16.00	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	0.00129084
Tl 190.794	Tl	n	0.00146341	0.00146341	mg/L	1.30921816	0.00128381	87.72673388	4.43394708	> 100.00	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.00048095
V 292.401	V	n	0.00309611	0.00309611	mg/L	122.53465959	0.00032334	10.44335672	12.94942549	10.57	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.00279894
Zn 206.200	Zn	n	0.00151348	0.00151348	mg/L	133.31984586	0.00007426	4.90670866	4.29740653	3.22	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	0.00149787
Y 371.029	Y	0.89	0.89	Ratio	795824.49	0.03	3.57	28446.38	3.57		-	-	-	Fitted	-	-	0.85	
Y 371.029	Y-R	0.99	0.99	Ratio	254331.44	0.01	0.73	1849.70	0.73		-	-	-	Fitted	-	-	1.00	

Instrument: MET09

Calibration #: 673347641001

Units: mg/L

Date: 29-AUG-2023 10:01

X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	icp data	673347641002	L1	29-AUG-2023 10:04	S18676
L2	icp data	673347641003	L2	29-AUG-2023 10:07	S18675
L3	icp data	673347641004	L3	29-AUG-2023 10:10	S18674
L4	icp data	673347641005	L4	29-AUG-2023 10:13	S18673
L5	icp data	673347641006	L5	29-AUG-2023 10:17	S18672
L6	icp data	673347641007	L6	29-AUG-2023 10:22	S18663

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00342	1.05E-4		7870.7	1.000		7	0.995	

$$\text{Instrument amount} = a0 + (\text{response} \times a1) + (\text{response}^2 \times a2)$$

WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	2350.1	5568.1	9979.4	10112	9719.6	9495.0

Spiked Amounts / Drifts	Ch	L1 %D	L2 %D	L3 %D	L4 %D	L5 %D	L6 %D
Lead	A	0.0033 27	0.0100 -8	0.1000 8	1.0000 6	5.0000 2	10.000 -1

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09
Calnum: 673347641001

Cal Date: 29-AUG-2023

- ICV 673347641010 (29-AUG-2023) stds: S18803

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	0.9882	mg/L	-1	10	

Label: ICALBLK Rack/Tube: S1:1 Type: BLK
 Date Time: 8/29/2023 10:01:24 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n	0.00000000	0.00000000	mg/L	488.97821427	-	-	26.81231627	5.48		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	0.00000000	0.00000000
Al 396.152	Al	n	0.00000000	0.00000000	mg/L	1019.07162533	-	-	17.94160931	1.76	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	0.00000000	0.00000000
As 188.980	As	n	0.00000000	0.00000000	mg/L	15.32447240	-	-	9.77642897	63.80	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	0.00000000	0.00000000
B 249.678	B	n	0.00000000	0.00000000	mg/L	309.41742443	-	-	6.38747227	2.06	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	0.00000000	0.00000000
Ba 230.424	Ba	n	0.00000000	0.00000000	mg/L	174.28305620	-	-	3.26151746	1.87	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	0.00000000	0.00000000
Be 313.107	Be	n	0.00000000	0.00000000	mg/L	32.76687987	-	-	5.84752667	17.85	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.474213364378	2725930.91916582	0.00000000	0.00000000
Ca 317.933	Ca-R	n	0.00000000	0.00000000	mg/L	1940.99431579	-	-	10.86718424	0.56	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	0.00000000	0.00000000
Cd 214.439	Cd	n	0.00000000	0.00000000	mg/L	20.97380162	-	-	1.29959260	6.20	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	0.00000000	0.00000000
Co 230.786	Co	n	0.00000000	0.00000000	mg/L	118.89209477	-	-	13.91828558	11.71	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	0.00000000	0.00000000
Cr 267.716	Cr	n	0.00000000	0.00000000	mg/L	79.15445436	-	-	1.27161460	1.61	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	0.00000000	0.00000000
Cu 324.754	Cu	n	0.00000000	0.00000000	mg/L	575.07587172	-	-	14.24162096	2.48	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	0.00000000	0.00000000
Fe 259.940	Fe	n	0.00000000	0.00000000	mg/L	266.51839310	-	-	61.81218576	23.19	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	0.00000000	0.00000000
K 766.491	K-R	n	0.00000000	0.00000000	mg/L	112.04200560	-	-	13.41170881	11.97	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	0.00000000	0.00000000
Li 670.783	Li-R	n	0.00000000	0.00000000	mg/L	0.00000000	-	-	36.98459843	> 100.00	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	0.00000000	0.00000000
Mg 279.800	Mg-R	n	0.00000000	0.00000000	mg/L	69.44827972	-	-	8.69956632	12.53	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	0.00000000	0.00000000
Mn 257.610	Mn	n	0.00000000	0.00000000	mg/L	-14.62434472	-	-	2.56793559	17.56	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	0.00000000	0.00000000
Mo 204.598	Mo	n	0.00000000	0.00000000	mg/L	20.41225057	-	-	1.60654405	7.87	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	0.00000000	0.00000000
Na 589.592	Na-R	n	0.00000000	0.00000000	mg/L	1552.58726191	-	-	227.45269675	14.65	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	0.00000000	0.00000000
Ni 231.604	Ni	n	0.00000000	0.00000000	mg/L	73.69385284	-	-	6.37810501	8.65	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	0.00000000	0.00000000
P 177.434	P	n	0.00000000	0.00000000	mg/L	2.49829225	-	-	1.35234975	54.13		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	0.00000000	0.00000000
Pb 220.353	Pb	n	0.00000000	0.00000000	mg/L	-33.68489938	-	-	9.81513019	29.14	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	0.00000000	0.00000000
S 181.972	S	n	0.00000000	0.00000000	mg/L	115.40424263	-	-	3.40571125	2.95		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	0.00000000	0.00000000
Sb 206.834	Sb	n	0.00000000	0.00000000	mg/L	-71.57599892	-	-	1.73672721	2.43	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	0.00000000	0.00000000
Se 196.026	Se	n	0.00000000	0.00000000	mg/L	43.57303240	-	-	3.43251465	7.88	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	0.00000000	0.00000000
Si 251.611	Si	n	0.00000000	0.00000000	mg/L	247.98373535	-	-	37.05761022	14.94		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	0.00000000	0.00000000
Sn 189.925	Sn	n	0.00000000	0.00000000	mg/L	27.44534484	-	-	6.58269583	23.98	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	0.00000000	0.00000000
Sr 421.552	Sr-R	n	0.00000000	0.00000000	mg/L	10.97886760	-	-	7.84220571	71.43	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	0.00000000	0.00000000
Ti 334.941	Ti	n	0.00000000	0.00000000	mg/L	378.90309938	-	-	8.61326333	2.27	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	0.00000000	0.00000000
Tl 190.794	Tl	n	0.00000000	0.00000000	mg/L	4.79934101	-	-	5.47523224	> 100.00	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.00000000	0.00000000
V 292.401	V	n	0.00000000	0.00000000	mg/L	-3.55738175	-	-	16.80909438	> 100.00	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.00000000	0.00000000
Zn 206.200	Zn	n	0.00000000	0.00000000	mg/L	42.94450338	-	-	6.84962079	15.95	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	0.00000000	0.00000000
Y 371.029	Y		1.00	1.00	Ratio	895233.10	0.00	0.00	6779.24	0.76		-	-	-	Fitted	-	-	1.00	1.00
Y 371.029	Y-R		1.00	1.00	Ratio	256505.55	0.00	0.00	468.71	0.18		-	-	-	Fitted	-	-	1.00	1.00

Label: ICAL.L1.S18676 Rack: Tube: S1:2 Type: STD
 Date Time: 8/29/2023 10:04:31 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	484.75761493	-	-	26.03525452	5.37		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981		
Al 396.152	Al	n	0.00666667	0.00666667	mg/L	1384.09191992	-	-	29.38898910	2.12	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	0.00666667	0.00666667
As 188.980	As	n	0.00333333	0.00333333	mg/L	34.27931606	-	-	0.43933489	1.28	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	0.00333333	0.00333333
B 249.678	B	n	0.00333333	0.00333333	mg/L	427.51194317	-	-	12.21201949	2.86	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	0.00333333	0.00333333
Ba 230.424	Ba	n	0.00333333	0.00333333	mg/L	483.08923469	-	-	6.33455383	1.31	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	0.00333333	0.00333333
Be 313.107	Be	n	0.00100000	0.00100000	mg/L	2608.01398146	-	-	55.64297092	2.13	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	0.00100000	0.00100000
Ca 317.933	Ca-R	n	0.03333333	0.03333333	mg/L	2650.38809130	-	-	21.84535884	0.82	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	0.03333333	0.03333333
Cd 214.439	Cd	n	0.00166667	0.00166667	mg/L	367.27005376	-	-	6.34930190	1.73	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	0.00166667	0.00166667
Co 230.786	Co	n	0.00166667	0.00166667	mg/L	178.47408524	-	-	16.13645967	9.04	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	0.00166667	0.00166667
Cr 267.716	Cr	n	0.00333333	0.00333333	mg/L	326.17640180	-	-	11.61884315	3.56	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	0.00333333	0.00333333
Cu 324.754	Cu	n	0.00333333	0.00333333	mg/L	701.43682288	-	-	15.80293711	2.25	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	0.00333333	0.00333333
Fe 259.940	Fe	n	0.00666667	0.00666667	mg/L	694.74864883	-	-	27.69548129	3.99	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	0.00666667	0.00666667
K 766.491	K-R	n	0.06666667	0.06666667	mg/L	175.81436571	-	-	15.06458899	8.57	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	0.06666667	0.06666667
Li 670.783	Li-R	n	0.00333333	0.00333333	mg/L	492.40312946	-	-	36.37734366	7.39	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	0.00333333	0.00333333
Mg 279.800	Mg-R	n	0.03333333	0.03333333	mg/L	176.68673455	-	-	6.99126904	3.96	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	0.03333333	0.03333333
Mn 257.610	Mn	n	0.00333333	0.00333333	mg/L	1589.67370838	-	-	18.65329384	1.17	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	0.00333333	0.00333333
Mo 204.598	Mo	n	0.00333333	0.00333333	mg/L	43.08131280	-	-	11.90602861	27.64	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	0.00333333	0.00333333
Na 589.592	Na-R	n	0.06666667	0.06666667	mg/L	2448.54925818	-	-	193.69636762	7.91	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	0.06666667	0.06666667
Ni 231.604	Ni	n	0.00333333	0.00333333	mg/L	160.27581223	-	-	3.68963432	2.30	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	0.00333333	0.00333333
P 177.434	P	n			mg/L	2.76396681	-	-	1.45429068	52.62		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926		
Pb 220.353	Pb	n	0.00333333	0.00333333	mg/L	7.83371281	-	-	6.34410841	80.98	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	0.00333333	0.00333333
S 181.972	S	n			mg/L	109.11937921	-	-	4.12233623	3.78		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252		
Sb 206.834	Sb	n	0.01000010	0.01000010	mg/L	-39.52405232	-	-	8.91648418	22.56	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	0.01000010	0.01000010
Se 196.026	Se	n	0.01000001	0.01000001	mg/L	93.52935358	-	-	3.33214631	3.56	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	0.01000001	0.01000001
Si 251.611	Si	n			mg/L	324.42397499	-	-	48.79861154	15.04		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089		
Sn 189.925	Sn	n	0.00333333	0.00333333	mg/L	52.52895616	-	-	8.19575621	15.60	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	0.00333333	0.00333333
Sr 421.552	Sr-R	n	0.01666667	0.01666667	mg/L	10347.36413443	-	-	26.97982920	0.26	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	0.01666667	0.01666667
Ti 334.941	Ti	n	0.00333333	0.00333333	mg/L	1648.47814254	-	-	27.14457232	1.65	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	0.00333333	0.00333333
Tl 190.794	Tl	n	0.01000010	0.01000010	mg/L	21.92250016	-	-	7.74126195	35.31	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.01000010	0.01000010
V 292.401	V	n	0.00166667	0.00166667	mg/L	67.78396033	-	-	13.42437766	19.80	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.00166667	0.00166667
Zn 206.200	Zn	n	0.01000010	0.01000010	mg/L	624.88694227	-	-	6.45869467	1.03	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	0.01000010	0.01000010
Y 371.029	Y		1.01	1.01	Ratio	901667.98	0.01	0.86	7787.38	0.86		-	-	-	Fitted	-	-	1.00	1.01
Y 371.029	Y-R		1.02	1.02	Ratio	260567.53	0.00	0.31	806.37	0.31		-	-	-	Fitted	-	-	1.02	1.02

Label: ICAL_L2,S18675 Rack/Tube: S1:3 Type: STD
 Date Time: 8/29/2023 10:07:38 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	514.20032427	-	-	29.82405449	5.80		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981		
Al 396.152	Al	n	0.02000000	0.02000000	mg/L	2029.83089197	-	-	16.82491747	0.83	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	0.02000000	0.02000000
As 188.980	As	n	0.01000000	0.01000000	mg/L	74.78452074	-	-	3.28889249	4.40	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	0.01000000	0.01000000
B 249.678	B	n	0.01000000	0.01000000	mg/L	666.47102900	-	-	6.97859157	1.05	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	0.01000000	0.01000000
Ba 230.424	Ba	n	0.01000000	0.01000000	mg/L	1109.87931028	-	-	10.62201666	0.96	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	0.01000000	0.01000000
Be 313.107	Be	n	0.00300000	0.00300000	mg/L	8084.82878204	-	-	74.13180694	0.92	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	0.00300000	0.00300000
Ca 317.933	Ca-R	n	0.10000000	0.10000000	mg/L	4108.87028908	-	-	30.85522165	0.75	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	0.10000000	0.10000000
Cd 214.439	Cd	n	0.00500000	0.00500000	mg/L	1067.39911615	-	-	13.39507441	1.25	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	0.00500000	0.00500000
Co 230.786	Co	n	0.00500000	0.00500000	mg/L	274.11531581	-	-	16.65776757	6.08	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	0.00500000	0.00500000
Cr 267.716	Cr	n	0.01000000	0.01000000	mg/L	832.32743883	-	-	6.66244053	0.80	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	0.01000000	0.01000000
Cu 324.754	Cu	n	0.01000000	0.01000000	mg/L	963.98726253	-	-	10.31831519	1.07	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	0.01000000	0.01000000
Fe 259.940	Fe	n	0.02000000	0.02000000	mg/L	1639.22582605	-	-	26.99016280	1.65	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	0.02000000	0.02000000
K 766.491	K-R	n	0.20000000	0.20000000	mg/L	346.22617355	-	-	27.68979435	8.00	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	0.20000000	0.20000000
Li 670.783	Li-R	n	0.01000000	0.01000000	mg/L	1442.97109390	-	-	86.63276753	6.00	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	0.01000000	0.01000000
Mg 279.800	Mg-R	n	0.10000000	0.10000000	mg/L	376.18055403	-	-	17.41642740	4.63	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	0.10000000	0.10000000
Mn 257.610	Mn	n	0.01000000	0.01000000	mg/L	4882.61663306	-	-	59.44985222	1.22	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	0.01000000	0.01000000
Mo 204.598	Mo	n	0.01000000	0.01000000	mg/L	102.01983294	-	-	10.19575278	9.99	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	0.01000000	0.01000000
Na 589.592	Na-R	n	0.20000000	0.20000000	mg/L	4287.80667792	-	-	95.98730705	2.24	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	0.20000000	0.20000000
Ni 231.604	Ni	n	0.01000000	0.01000000	mg/L	328.98685959	-	-	6.74124249	2.05	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	0.01000000	0.01000000
P 177.434	P	n			mg/L	1.71442648	-	-	2.30987972	> 100.00		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926		
Pb 220.353	Pb	n	0.01000000	0.01000000	mg/L	55.68073142	-	-	8.03273832	14.43	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	0.01000000	0.01000000
S 181.972	S	n			mg/L	113.58723940	-	-	3.70346238	3.26		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252		
Sb 206.834	Sb	n	0.03000030	0.03000030	mg/L	23.11911323	-	-	7.29278215	31.54	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	0.03000030	0.03000030
Se 196.026	Se	n	0.03000003	0.03000003	mg/L	160.69639307	-	-	7.30040945	4.54	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	0.03000003	0.03000003
Si 251.611	Si	n			mg/L	309.77103802	-	-	49.42910949	15.96		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089		
Sn 189.925	Sn	n	0.01000000	0.01000000	mg/L	135.11404535	-	-	3.94385286	2.92	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	0.01000000	0.01000000
Sr 421.552	Sr-R	n	0.05000000	0.05000000	mg/L	31012.70466934	-	-	92.54261557	0.30	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	0.05000000	0.05000000
Ti 334.941	Ti	n	0.01000000	0.01000000	mg/L	4124.24728526	-	-	71.86197257	1.74	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	0.01000000	0.01000000
Tl 190.794	Tl	n	0.03000030	0.03000030	mg/L	87.22052990	-	-	9.79670463	11.23	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.03000030	0.03000030
V 292.401	V	n	0.00500000	0.00500000	mg/L	198.60754336	-	-	1.91190304	0.96	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.00500000	0.00500000
Zn 206.200	Zn	n	0.03000030	0.03000030	mg/L	1784.39272805	-	-	13.64207395	0.76	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	0.03000030	0.03000030
Y 371.029	Y		1.00	1.00	Ratio	896492.69	0.01	0.78	6969.68	0.78		-	-	-	Fitted	-	-	0.99	1.00
Y 371.029	Y-R		1.01	1.01	Ratio	260287.58	0.01	0.84	2180.53	0.84		-	-	-	Fitted	-	-	1.02	1.02

Label: ICAL_L3,S18674 Rack/Tube: S1:4 Type: STD
 Date Time: 8/29/2023 10:10:45 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	491.50486219	-	-	15.48406756	3.15		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981		
Al 396.152	Al	n	0.20000000	0.20000000	mg/L	9031.66895434	-	-	99.80593858	1.11	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	0.20000000	0.20000000
As 188.980	As	n	0.10000000	0.10000000	mg/L	571.78980937	-	-	8.56768142	1.50	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	0.10000000	0.10000000
B 249.678	B	n	0.10000000	0.10000000	mg/L	4527.95848249	-	-	46.04742981	1.02	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	0.10000000	0.10000000
Ba 230.424	Ba	n	0.10000000	0.10000000	mg/L	11654.46118413	-	-	162.95670122	1.40	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	0.10000000	0.10000000
Be 313.107	Be	n	0.03000000	0.03000000	mg/L	84465.45818663	-	-	911.83030646	1.08	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	0.03000000	0.03000000
Ca 317.933	Ca-R	n	1.00000000	1.00000000	mg/L	20109.74142131	-	-	99.92440308	0.50	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	1.00000000	1.00000000
Cd 214.439	Cd	n	0.05000000	0.05000000	mg/L	10765.46070636	-	-	103.05136482	0.96	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	0.05000000	0.05000000
Co 230.786	Co	n	0.05000000	0.05000000	mg/L	2344.36743215	-	-	17.92039169	0.76	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.458877481	0.05000000	0.05000000
Cr 267.716	Cr	n	0.10000000	0.10000000	mg/L	7613.55406935	-	-	120.91718975	1.59	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	0.10000000	0.10000000
Cu 324.754	Cu	n	0.10000000	0.10000000	mg/L	4862.16797003	-	-	37.87558011	0.78	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	0.10000000	0.10000000
Fe 259.940	Fe	n	0.20000000	0.20000000	mg/L	14409.85500720	-	-	335.95444109	2.33	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	0.20000000	0.20000000
K 766.491	K-R	n	2.00000000	2.00000000	mg/L	3525.59515924	-	-	42.06102876	1.19	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	2.00000000	2.00000000
Li 670.783	Li-R	n	0.10000000	0.10000000	mg/L	14273.40022218	-	-	110.33831279	0.77	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	0.10000000	0.10000000
Mg 279.800	Mg-R	n	1.00000000	1.00000000	mg/L	3072.80445411	-	-	15.65855807	0.51	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	1.00000000	1.00000000
Mn 257.610	Mn	n	0.10000000	0.10000000	mg/L	49106.24869720	-	-	753.48694735	1.53	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	0.10000000	0.10000000
Mo 204.598	Mo	n	0.10000000	0.10000000	mg/L	1013.07752374	-	-	28.43777344	2.81	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	0.10000000	0.10000000
Na 589.592	Na-R	n	2.00000000	2.00000000	mg/L	30097.73990108	-	-	177.52605177	0.59	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	2.00000000	2.00000000
Ni 231.604	Ni	n	0.10000000	0.10000000	mg/L	2707.68840189	-	-	51.68736414	1.91	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	0.10000000	0.10000000
P 177.434	P	n			mg/L	2.56763218	-	-	1.77682379	69.20		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926		
Pb 220.353	Pb	n	0.10000000	0.10000000	mg/L	997.93794517	-	-	5.36887951	0.54	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	0.10000000	0.10000000
S 181.972	S	n			mg/L	115.70545790	-	-	3.55532293	3.07		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252		
Sb 206.834	Sb	n	0.30000300	0.30000300	mg/L	920.77973624	-	-	15.47184198	1.68	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	0.30000300	0.30000300
Se 196.026	Se	n	0.30000030	0.30000030	mg/L	1172.60145188	-	-	19.39009920	1.65	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	0.30000030	0.30000030
Si 251.611	Si	n			mg/L	336.66716891	-	-	47.05665867	13.98		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089		
Sn 189.925	Sn	n	0.10000000	0.10000000	mg/L	1167.04669166	-	-	11.00605423	0.94	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	0.10000000	0.10000000
Sr 421.552	Sr-R	n	0.50000000	0.50000000	mg/L	311285.70876001	-	-	1843.71595502	0.59	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	0.50000000	0.50000000
Ti 334.941	Ti	n	0.10000000	0.10000000	mg/L	39238.55854100	-	-	527.45414649	1.34	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	0.10000000	0.10000000
Tl 190.794	Tl	n	0.30000300	0.30000300	mg/L	1017.66876396	-	-	46.32290186	4.55	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.30000300	0.30000300
V 292.401	V	n	0.05000000	0.05000000	mg/L	2019.73891675	-	-	21.00447881	1.04	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.05000000	0.05000000
Zn 206.200	Zn	n	0.30000300	0.30000300	mg/L	17965.89942937	-	-	166.39240636	0.93	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	0.30000300	0.30000300
Y 371.029	Y		1.00	1.00	Ratio	894042.23	0.01	0.62	5503.12	0.62		-	-	-	Fitted	-	-	0.99	1.00
Y 371.029	Y-R		1.01	1.01	Ratio	257818.24	0.01	0.85	2178.97	0.85		-	-	-	Fitted	-	-	1.01	1.01

Label: ICAL_L4,S18673

Rack:Tube: S1:5

Type: STD

Date Time: 8/29/2023 10:13:53 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n			mg/L	434.93416785	-	-	24.41224512	5.61		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	
Al 396.152	Al	n	2.00000000	2.00000000	mg/L	78893.03047120	-	-	1171.50076248	1.48	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	2.00000000
As 188.980	As	n	1.00000000	1.00000000	mg/L	5698.90370104	-	-	55.62648380	0.98	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	1.00000000
B 249.678	B	n	1.00000000	1.00000000	mg/L	43425.44217576	-	-	565.19673523	1.30	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	1.00000000
Ba 230.424	Ba	n	1.00000000	1.00000000	mg/L	114194.20769691	-	-	2060.33561224	1.80	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	1.00000000
Be 313.107	Be	n	0.30000000	0.30000000	mg/L	844056.76426220	-	-	13261.20687932	1.57	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	0.30000000
Ca 317.933	Ca-R	n	10.00000000	10.00000000	mg/L	177351.24716352	-	-	1329.19755879	0.75	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	10.00000000
Cd 214.439	Cd	n	0.50000000	0.50000000	mg/L	105019.49010461	-	-	1786.58590583	1.70	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	0.50000000
Co 230.786	Co	n	0.50000000	0.50000000	mg/L	22758.16726456	-	-	272.23764390	1.20	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	0.50000000
Cr 267.716	Cr	n	1.00000000	1.00000000	mg/L	74081.51749168	-	-	978.60877931	1.32	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	1.00000000
Cu 324.754	Cu	n	1.00000000	1.00000000	mg/L	44172.95353921	-	-	564.43805955	1.28	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	1.00000000
Fe 259.940	Fe	n	2.00000000	2.00000000	mg/L	138801.48729556	-	-	1843.41376891	1.33	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	2.00000000
K 766.491	K-R	n	20.00000000	20.00000000	mg/L	36773.12670871	-	-	218.81248732	0.60	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	20.00000000
Li 670.783	Li-R	n	1.00000000	1.00000000	mg/L	139693.42914830	-	-	941.64179349	0.67	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	1.00000000
Mg 279.800	Mg-R	n	10.00000000	10.00000000	mg/L	29659.77483348	-	-	343.73804660	1.16	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	10.00000000
Mn 257.610	Mn	n	1.00000000	1.00000000	mg/L	474700.46728762	-	-	3085.75756993	0.65	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	1.00000000
Mo 204.598	Mo	n	1.00000000	1.00000000	mg/L	10237.14866220	-	-	233.37730346	2.28	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	1.00000000
Na 589.592	Na-R	n	20.00000000	20.00000000	mg/L	281364.18699301	-	-	1193.56846611	0.42	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	20.00000000
Ni 231.604	Ni	n	1.00000000	1.00000000	mg/L	25911.92545669	-	-	289.19518802	1.12	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	1.00000000
P 177.434	P	n			mg/L	2.01991369	-	-	2.04008997	> 100.00		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	
Pb 220.353	Pb	n	1.00000000	1.00000000	mg/L	10112.17832222	-	-	111.38821784	1.10	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	1.00000000
S 181.972	S	n			mg/L	124.22611940	-	-	3.23453801	2.60		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	
Sb 206.834	Sb	n	3.00003000	3.00003000	mg/L	10020.43944528	-	-	100.36656921	1.00	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	3.00003000
Se 196.026	Se	n	3.00000300	3.00000300	mg/L	11388.82839939	-	-	187.68871357	1.65	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	3.00000300
Si 251.611	Si	n			mg/L	603.43882106	-	-	92.99439160	15.41		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	
Sn 189.925	Sn	n	1.00000000	1.00000000	mg/L	11341.99673605	-	-	140.99884834	1.24	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	1.00000000
Sr 421.552	Sr-R	n	5.00000000	5.00000000	mg/L	3071471.25681995	-	-	12509.03465281	0.41	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	5.00000000
Ti 334.941	Ti	n	1.00000000	1.00000000	mg/L	393009.25316058	-	-	6204.72534328	1.58	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	1.00000000
Tl 190.794	Tl	n	3.00003000	3.00003000	mg/L	10533.12510409	-	-	366.75841501	3.48	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	3.00003000
V 292.401	V	n	0.50000000	0.50000000	mg/L	20254.17461864	-	-	263.47773081	1.30	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.50000000
Zn 206.200	Zn	n	3.00003000	3.00003000	mg/L	174474.65124743	-	-	2982.84678433	1.71	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	3.00003000
Y 371.029	Y		0.98	0.98	Ratio	880371.79	0.01	0.92	8079.62	0.92		-	-	-	Fitted	-	-	0.97
Y 371.029	Y-R		0.99	0.99	Ratio	253860.34	0.01	0.75	1915.64	0.75		-	-	-	Fitted	-	-	0.99

Label: ICAL.L5.S18672

Rack/Tube: S1:6

Type: STD

Date Time: 8/29/2023 10:17:00 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n			mg/L	451.06181683	-	-	13.50584972	2.99		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	
Al 396.152	Al	n	10.00000000	10.00000000	mg/L	406262.70056859	-	-	5106.81006509	1.26	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	10.00000000
As 188.980	As	n	5.00000000	5.00000000	mg/L	28205.82371845	-	-	238.00852843	0.84	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	5.00000000
B 249.678	B	n	5.00000000	5.00000000	mg/L	216608.16012957	-	-	2218.02060082	1.02	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	5.00000000
Ba 230.424	Ba	n	5.00000000	5.00000000	mg/L	547933.26474745	-	-	12653.16018352	2.31	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	5.00000000
Be 313.107	Be	n	1.50000000	1.50000000	mg/L	4104411.07528580	-	-	49388.88387767	1.20	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	1.50000000
Ca 317.933	Ca-R	n	50.00000000	50.00000000	mg/L	845063.28408035	-	-	2815.87823806	0.33	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	50.00000000
Cd 214.439	Cd	n	2.50000000	2.50000000	mg/L	502227.07541229	-	-	6150.22877817	1.22	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	2.50000000
Co 230.786	Co	n	2.50000000	2.50000000	mg/L	109460.31391863	-	-	1342.36319774	1.23	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	2.50000000
Cr 267.716	Cr	n	5.00000000	5.00000000	mg/L	359350.94942278	-	-	4252.08454200	1.18	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	5.00000000
Cu 324.754	Cu	n	5.00000000	5.00000000	mg/L	228461.47613705	-	-	2259.75498536	0.99	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	5.00000000
Fe 259.940	Fe	n	10.00000000	10.00000000	mg/L	663197.91848236	-	-	8119.01749600	1.22	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	10.00000000
K 766.491	K-R	n	100.00000000	100.00000000	mg/L	182651.81064568	-	-	251.78131985	0.14	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	100.00000000
Li 670.783	Li-R	n	5.00000000	5.00000000	mg/L	681864.82399046	-	-	1748.92723581	0.26	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	5.00000000
Mg 279.800	Mg-R	n	50.00000000	50.00000000	mg/L	143315.52814926	-	-	708.97596135	0.49	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	50.00000000
Mn 257.610	Mn	n	5.00000000	5.00000000	mg/L	2285244.27904342	-	-	25592.09029020	1.12	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	5.00000000
Mo 204.598	Mo	n	5.00000000	5.00000000	mg/L	50810.45480647	-	-	1031.43557734	2.03	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	5.00000000
Na 589.592	Na-R	n	100.00000000	100.00000000	mg/L	1346083.05345865	-	-	3276.97412956	0.24	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	100.00000000
Ni 231.604	Ni	n	5.00000000	5.00000000	mg/L	124317.69487939	-	-	1471.95688661	1.18	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	5.00000000
P 177.434	P	n			mg/L	-0.93910772	-	-	0.55885906	59.51		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	
Pb 220.353	Pb	n	5.00000000	5.00000000	mg/L	48598.19435246	-	-	516.00366393	1.06	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	5.00000000
S 181.972	S	n			mg/L	158.28638868	-	-	4.66952246	2.95		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	
Sb 206.834	Sb	n	15.00015000	15.00015000	mg/L	50803.39010660	-	-	395.13310013	0.78	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	15.00015000
Se 196.026	Se	n	15.00000000	15.00000000	mg/L	55864.00709514	-	-	532.40760675	0.95	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	15.00000000
Si 251.611	Si	n			mg/L	2134.40501832	-	-	494.78635858	23.18		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	
Sn 189.925	Sn	n	5.00000000	5.00000000	mg/L	55120.61562230	-	-	550.98247526	1.00	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	5.00000000
Sr 421.552	Sr-R	n	25.00000000	25.00000000	mg/L	14608188.41494450	-	-	56723.74894017	0.39	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	25.00000000
Ti 334.941	Ti	n	5.00000000	5.00000000	mg/L	1922423.65355139	-	-	38034.09843803	1.98	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	5.00000000
Tl 190.794	Tl	n	15.00015000	15.00015000	mg/L	52277.35141580	-	-	1010.65604246	1.93	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	15.00015000
V 292.401	V	n	2.50000000	2.50000000	mg/L	99450.82299566	-	-	1146.10519724	1.15	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	2.50000000
Zn 206.200	Zn	n	15.00015000	15.00015000	mg/L	809696.15867129	-	-	15801.94872690	1.95	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	15.00015000
Y 371.029	Y		0.97	0.97	Ratio	865088.27	0.01	0.90	7796.72	0.90		-	-	-	Fitted	-	-	0.96
Y 371.029	Y-R		0.97	0.97	Ratio	249004.73	0.00	0.11	281.98	0.11		-	-	-	Fitted	-	-	0.97

Label: ICAL_L6,S18663

Rack/Tube: S1:7

Type: STD

Date Time: 8/29/2023 10:22:54 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n			mg/L	367.66982507	-	-	26.81585938	7.29		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	
Al 396.152	Al	n	20.00000000	20.00000000	mg/L	832998.08251813	-	-	13961.35463704	1.68	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.7447222985	40552.4137229726	20.00000000
As 188.980	As	n	10.00000000	10.00000000	mg/L	55577.61070162	-	-	867.17589586	1.56	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	10.00000000
B 249.678	B	n	10.00000000	10.00000000	mg/L	432673.70640862	-	-	8077.73252420	1.87	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	10.00000000
Ba 230.424	Ba	n	10.00000000	10.00000000	mg/L	1085000.84911228	-	-	19457.56855003	1.79	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	10.00000000
Be 313.107	Be	n	3.00000000	3.00000000	mg/L	7940494.22979611	-	-	142919.83891222	1.80	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	3.00000000
Ca 317.933	Ca-R	n	100.00000000	100.00000000	mg/L	1654267.59387991	-	-	2086.05032256	0.13	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	100.00000000
Cd 214.439	Cd	n	5.00000000	5.00000000	mg/L	959498.70413456	-	-	24989.96469434	2.60	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	5.00000000
Co 230.786	Co	n	5.00000000	5.00000000	mg/L	214149.17567729	-	-	3073.01479804	1.43	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	5.00000000
Cr 267.716	Cr	n	10.00000000	10.00000000	mg/L	700122.95262247	-	-	10794.46485077	1.54	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	10.00000000
Cu 324.754	Cu	n	10.00000000	10.00000000	mg/L	462947.02062800	-	-	10896.13928822	2.35	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	10.00000000
Fe 259.940	Fe	n	20.00000000	20.00000000	mg/L	1298717.29448069	-	-	24191.83034984	1.86	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	20.00000000
K 766.491	K-R	n	200.00000000	200.00000000	mg/L	366209.49152383	-	-	353.00899854	0.10	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	200.00000000
Li 670.783	Li-R	n	10.00000000	10.00000000	mg/L	1368831.10457935	-	-	6483.20679707	0.47	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	10.00000000
Mg 279.800	Mg-R	n	100.00000000	100.00000000	mg/L	285488.70336782	-	-	325.32636025	0.11	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	100.00000000
Mn 257.610	Mn	n	10.00000000	10.00000000	mg/L	4388506.11330116	-	-	101783.32419370	2.32	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	10.00000000
Mo 204.598	Mo	n	10.00000000	10.00000000	mg/L	101344.43655081	-	-	2879.23374911	2.84	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	10.00000000
Na 589.592	Na-R	n	200.00000000	200.00000000	mg/L	2667164.16693473	-	-	7421.82324466	0.28	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	200.00000000
Ni 231.604	Ni	n	10.00000000	10.00000000	mg/L	241639.25364753	-	-	3305.26310646	1.37	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	10.00000000
P 177.434	P	n			mg/L	1.14329357	-	-	0.51369565	44.93		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	
Pb 220.353	Pb	n	10.00000000	10.00000000	mg/L	94950.24469269	-	-	1414.70044286	1.49	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	10.00000000
S 181.972	S	n			mg/L	178.74382171	-	-	3.39146727	1.90		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	
Sb 206.834	Sb	n	30.00030000	30.00030000	mg/L	101889.57985212	-	-	1640.27982320	1.61	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	30.00030000
Se 196.026	Se	n	30.00000000	30.00000000	mg/L	109433.91495780	-	-	1702.96499104	1.56	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	30.00000000
Si 251.611	Si	n			mg/L	4040.84509157	-	-	965.21242238	23.89		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762809	
Sn 189.925	Sn	n	10.00000000	10.00000000	mg/L	107998.33586854	-	-	1754.06598647	1.62	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	10.00000000
Sr 421.552	Sr-R	n	50.00000000	50.00000000	mg/L	28566224.99657000	-	-	70732.09700554	0.25	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	50.00000000
Ti 334.941	Ti	n	10.00000000	10.00000000	mg/L	3854285.16369950	-	-	99736.73743178	2.59	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	10.00000000
Tl 190.794	Tl	n	30.00030000	30.00030000	mg/L	102979.22689472	-	-	2363.52453347	2.30	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	30.00030000
V 292.401	V	n	5.00000000	5.00000000	mg/L	195284.46906624	-	-	3300.17073058	1.69	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	5.00000000
Zn 206.200	Zn	n	30.00030000	30.00030000	mg/L	1537910.92486097	-	-	41325.92871683	2.69	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	30.00030000
Y 371.029	Y		0.98	0.98	Ratio	874390.88	0.00	0.02	203.32	0.02		-	-	-	Fitted	-	-	0.98
Y 371.029	Y-R		0.97	0.97	Ratio	248539.53	0.00	0.34	841.00	0.34		-	-	-	Fitted	-	-	0.97

Label: ICAL_L7,S18726 Rack: Tube: S1:8 Type: STD
 Date Time: 8/29/2023 10:26:01 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n	2.00000000	2.00000000	mg/L	170852.37526766	-	-	2596.43891513	1.52		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	2.00000000	2.00000000
Al 396.152	Al	n			mg/L	1132.55057208	-	-	39.79500296	3.51	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726		
As 188.980	As	n			mg/L	19.48214920	-	-	8.21326824	42.16	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043		
B 249.678	B	n			mg/L	599.51535789	-	-	22.86424914	3.81	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349		
Ba 230.424	Ba	n			mg/L	224.24306385	-	-	19.13786863	8.53	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301		
Be 313.107	Be	n			mg/L	67.98109652	-	-	3.41508586	5.02	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582		
Ca 317.933	Ca-R	n			mg/L	1986.21134623	-	-	17.07959039	0.86	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256		
Cd 214.439	Cd	n			mg/L	35.95051126	-	-	17.97405376	50.00	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045		
Co 230.786	Co	n			mg/L	116.77852982	-	-	17.30266993	14.82	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.458877481		
Cr 267.716	Cr	n			mg/L	103.25173365	-	-	13.77862953	13.34	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322		
Cu 324.754	Cu	n			mg/L	599.91453568	-	-	9.50590211	1.58	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977		
Fe 259.940	Fe	n			mg/L	511.51057690	-	-	93.38462861	18.26	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452		
K 766.491	K-R	n			mg/L	106.72233562	-	-	22.45633611	21.04	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548		
Li 670.783	Li-R	n			mg/L	37.39700497	-	-	44.01887146	> 100.00	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153		
Mg 279.800	Mg-R	n			mg/L	61.87005695	-	-	3.41739851	5.52	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795		
Mn 257.610	Mn	n			mg/L	615.91406992	-	-	11.93709516	1.94	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311		
Mo 204.598	Mo	n			mg/L	229.62385691	-	-	73.36667496	31.95	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435		
Na 589.592	Na-R	n			mg/L	1468.99397587	-	-	227.11991751	15.46	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363		
Ni 231.604	Ni	n			mg/L	81.00981426	-	-	7.07492562	8.73	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201		
P 177.434	P	n			mg/L	3.33462938	-	-	1.62253443	48.66		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926		
Pb 220.353	Pb	n			mg/L	-27.10915486	-	-	9.18700465	33.89	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145		
S 181.972	S	n			mg/L	107.85087923	-	-	3.01767686	2.80		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252		
Sb 206.834	Sb	n			mg/L	49.92643048	-	-	50.44077987	> 100.00	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848		
Se 196.026	Se	n			mg/L	85.66046533	-	-	1.22887693	1.43	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147		
Si 251.611	Si	n			mg/L	232.22071987	-	-	26.46343500	11.40		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089		
Sn 189.925	Sn	n			mg/L	68.78721155	-	-	16.90702909	24.58	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529		
Sr 421.552	Sr-R	n			mg/L	98.42340489	-	-	7.72860734	7.85	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787		
Ti 334.941	Ti	n			mg/L	2967.29227359	-	-	898.22291598	30.27	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248		
Tl 190.794	Tl	n			mg/L	7.06330360	-	-	4.35054307	61.59	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907		
V 292.401	V	n			mg/L	12.35801352	-	-	7.30933861	59.15	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071		
Zn 206.200	Zn	n			mg/L	73.85921722	-	-	5.18172632	7.02	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065		
Y 371.029	Y		1.01	1.01	Ratio	904021.41	0.01	0.54	4918.46	0.54		-	-	-	Fitted	-	-	1.00	1.01
Y 371.029	Y-R		1.02	1.02	Ratio	260560.73	0.01	1.10	2862.82	1.10		-	-	-	Fitted	-	-	1.03	1.01

Label: ICAL.L8.S18547 Rack: Tube: S1:9 Type: STD
 Date Time: 8/29/2023 10:29:08 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Co Re
Ag 328.068	Ag	n			mg/L	505.79131123	-	-	17.15016679	3.39		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981		
Al 396.152	Al	n			mg/L	1085.44226864	-	-	65.38138423	6.02	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726		
As 188.980	As	n			mg/L	21.23494392	-	-	4.97483279	23.43	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043		
B 249.678	B	n			mg/L	500.29779504	-	-	17.98741601	3.60	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349		
Ba 230.424	Ba	n			mg/L	206.04474433	-	-	15.47668766	7.51	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301		
Be 313.107	Be	n			mg/L	43.09593942	-	-	17.81391504	41.34	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582		
Ca 317.933	Ca-R	n			mg/L	1943.52449517	-	-	15.29709164	0.79	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256		
Cd 214.439	Cd	n			mg/L	26.82450728	-	-	7.53345012	28.08	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045		
Co 230.786	Co	n			mg/L	127.23965353	-	-	5.45609143	4.29	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481		
Cr 267.716	Cr	n			mg/L	113.10262420	-	-	23.78127556	21.03	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322		
Cu 324.754	Cu	n			mg/L	567.16158443	-	-	10.07592749	1.78	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977		
Fe 259.940	Fe	n			mg/L	264.28224283	-	-	39.52800279	14.96	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452		
K 766.491	K-R	n			mg/L	126.13227977	-	-	24.43402655	19.37	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548		
Li 670.783	Li-R	n			mg/L	-13.98093016	-	-	57.88225160	> 100.00	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153		
Mg 279.800	Mg-R	n			mg/L	67.90351281	-	-	5.33594696	7.86	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795		
Mn 257.610	Mn	n			mg/L	49.56939534	-	-	5.67978269	11.46	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311		
Mo 204.598	Mo	n			mg/L	48.20124634	-	-	19.71834679	40.91	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435		
Na 589.592	Na-R	n			mg/L	1480.39080351	-	-	278.97364625	18.84	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363		
Ni 231.604	Ni	n			mg/L	76.54350238	-	-	12.07226307	15.77	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201		
P 177.434	P	n	10.00000000	10.00000000	mg/L	2172.61447870	-	-	19.11553868	0.88		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	10.00000000	10
Pb 220.353	Pb	n			mg/L	-34.44378348	-	-	12.99470471	37.73	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145		
S 181.972	S	n	10.00000000	10.00000000	mg/L	14573.29363345	-	-	64.00700666	0.44		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	10.00000000	10
Sb 206.834	Sb	n			mg/L	-22.98258446	-	-	19.97048766	86.89	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848		
Se 196.026	Se	n			mg/L	55.31761884	-	-	2.98595146	5.40	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147		
Si 251.611	Si	n	10.00000000	10.00000000	mg/L	96070.99781155	-	-	3100.03351112	3.23		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	10.00000000	10
Sn 189.925	Sn	n			mg/L	35.10674414	-	-	1.37888916	3.93	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529		
Sr 421.552	Sr-R	n			mg/L	19.25584738	-	-	12.16950132	63.20	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787		
Ti 334.941	Ti	n			mg/L	3967.33128140	-	-	972.33612013	24.51	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248		
Tl 190.794	Tl	n			mg/L	5.42237356	-	-	4.08819654	75.40	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907		
V 292.401	V	n			mg/L	5.77293660	-	-	10.06525061	> 100.00	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071		
Zn 206.200	Zn	n			mg/L	58.25179254	-	-	7.02638411	12.06	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065		
Y 371.029	Y		1.02	1.02	Ratio	916417.98	0.01	0.74	6779.16	0.74		-	-	-	Fitted	-	-	1.02	1.0
Y 371.029	Y-R		1.04	1.04	Ratio	265704.00	0.01	0.87	2307.36	0.87		-	-	-	Fitted	-	-	1.04	1.0

Label: ICV,S18803 Rack: Tube: S1:12 Type: QC
 Date Time: 8/29/2023 10:32:16 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.50094159	0.50094159	mg/L	43160.02742911	0.00469863	0.93795930	400.23713438	0.93		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	0.49553080
Al 396.152	Al	n	1.03259566	1.03259566	mg/L	43090.70603884	0.01439464	1.39402462	583.73730412	1.35	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	1.01649274
As 188.980	As	n	1.01179807	1.01179807	mg/L	5717.78907656	0.00977647	0.96624689	55.07814620	0.96	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	1.00054418
B 249.678	B	n	1.05400168	1.05400168	mg/L	45036.93483307	0.01087007	1.03131413	461.48987226	1.02	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	1.04146611
Ba 230.424	Ba	nQ	1.10395426	1.10395426	mg/L	114193.49865522	0.01907051	1.72747257	1969.57735277	1.72	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	1.08214897
Be 313.107	Be	n	1.01172306	1.01172306	mg/L	2757941.47891665	0.01146432	1.13314826	31250.95039129	1.13	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	0.99856695
Ca 317.933	Ca-R	n	52.60665691	52.60665691	mg/L	878194.39202864	0.11576318	0.22005424	1928.09254837	0.22	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	52.63019448
Cd 214.439	Cd	n	0.98593906	0.98593906	mg/L	205261.99501491	0.01481595	1.50272448	3084.07509659	1.50	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	0.96883417
Co 230.786	Co	n	1.00183096	1.00183096	mg/L	44541.32251743	0.01372857	1.37034761	608.90941668	1.37	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	0.98598022
Cr 267.716	Cr	n	0.96246738	0.96246738	mg/L	70902.90133802	0.01293067	1.34349150	951.40572581	1.34	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	0.94753891
Cu 324.754	Cu	n	1.00351370	1.00351370	mg/L	44812.83932256	0.01103680	1.09981559	486.70955322	1.09	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	0.99077502
Fe 259.940	Fe	n	1.01354862	1.01354862	mg/L	68800.95832032	0.01342263	1.32432046	905.81993817	1.32	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	0.99806132
K 766.491	K-R	n	60.77042991	60.77042991	mg/L	111200.25466476	0.15316858	0.25204459	280.10376664	0.25	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	60.61524598
Li 670.783	Li-R	n	1.00918995	1.00918995	mg/L	138499.09519399	0.00312790	0.30994124	428.96927194	0.31	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	1.00560054
Mg 279.800	Mg-R	n	52.20314736	52.20314736	mg/L	149407.17970858	0.22150784	0.42431894	633.56146791	0.42	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	52.34335062
Mn 257.610	Mn	n	0.98350190	0.98350190	mg/L	466465.49929934	0.01171504	1.19115623	5555.99557129	1.19	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	0.96998588
Mo 204.598	Mo	n	0.99126365	0.99126365	mg/L	10028.92104323	0.02259961	2.27987897	228.19437117	2.28	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	0.96594594
Na 589.592	Na-R	n	51.03149451	51.03149451	mg/L	691424.21314932	0.03098772	0.06072274	418.72371156	0.06	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	50.99740164
Ni 231.604	Ni	n	0.98688102	0.98688102	mg/L	24901.99424696	0.01081805	1.09618578	272.12508232	1.09	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	0.97449297
P 177.434	P	nQ	5.55933966	5.55933966	mg/L	1208.95816063	0.07129641	1.28246176	15.47214832	1.28		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	5.47701514
Pb 220.353	Pb	n	0.98823684	0.98823684	mg/L	9904.00572219	0.01170745	1.18468040	117.62405448	1.19	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	0.97489292
S 181.972	S	nQ	5.54417995	5.54417995	mg/L	8128.57913711	0.04328344	0.78070047	62.57871718	0.77		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	5.49876091
Sb 206.834	Sb	n	1.00570530	1.00570530	mg/L	3320.78416147	0.01735702	1.72585525	58.54766992	1.76	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	0.98617212
Se 196.026	Se	n	1.00536920	1.00536920	mg/L	3796.40418000	0.01812493	1.80281306	67.46042031	1.78	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	0.98450034
Si 251.611	Si	nQ	6.68973271	6.68973271	mg/L	64348.29065988	0.62426971	9.33175871	5981.94056662	9.30		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	6.05135254
Sn 189.925	Sn	n	5.05776658	5.05776658	mg/L	56557.58585874	0.06062135	1.19857937	677.59577233	1.20	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	4.98861619
Sr 421.552	Sr-R	n	1.01858068	1.01858068	mg/L	611164.66179209	0.00379281	0.37236197	2273.65647991	0.37	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	1.01623161
Ti 334.941	Ti	n	1.02548774	1.02548774	mg/L	395818.88640601	0.01596104	1.55643435	6154.71135791	1.55	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	1.00705754
Tl 190.794	Tl	n	1.01864279	1.01864279	mg/L	3515.12522013	0.01949807	1.91412234	67.34152933	1.92	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.99651186
V 292.401	V	n	1.00044391	1.00044391	mg/L	40058.54087462	0.01287536	1.28696420	515.64784227	1.29	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.98558041
Zn 206.200	Zn	n	0.97768614	0.97768614	mg/L	56575.34990676	0.01466444	1.49991321	848.60302917	1.50	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	0.96077332
Y 371.029	Y		0.98	0.98	Ratio	874359.69	0.01	0.80	7016.52	0.80		-	-	-	Fitted	-	-	0.97
Y 371.029	Y-R		0.98	0.98	Ratio	251648.77	0.01	0.81	2030.39	0.81		-	-	-	Fitted	-	-	0.99

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641012	File: icp data
Cal: 673347641002	Time: 29-AUG-2023 10:38
	Caldate: 29-AUG-2023

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	901669	0.72
Yttrium	R	256506	263598	2.76

Label: ICB Rack/Tube: S1:1 Type: QC
 Date Time: 8/29/2023 10:38:30 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration #	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	0.00024930	0.00024930	mg/L	510.21598195	0.00022372	89.73643655	19.05657319	3.74		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	0.00037908
Al 396.152	Al	nu	-0.00213898	-0.00213898	mg/L	1033.94670394	0.00050770	23.73571378	20.58852300	1.99	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	-0.00160283
As 188.980	As	nu	0.00064392	0.00064392	mg/L	19.16355461	0.00076693	119.10357159	4.32070639	22.55	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	-0.00023882
B 249.678	B	n	0.00174197	0.00174197	mg/L	353.63781495	0.00006356	3.64883034	2.69851142	0.76	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	0.00175220
Ba 230.424	Ba	n	0.00021120	0.00021120	mg/L	182.80046370	0.00005061	23.96434376	5.22727564	2.86	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	0.00018128
Be 313.107	Be	n	0.00000614	0.00000614	mg/L	47.22333300	0.00000261	42.55701460	7.11777183	15.07	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	0.00000915
Ca 317.933	Ca-R	nu	-0.00563240	-0.00563240	mg/L	1933.03654159	0.00073228	13.00120713	12.19647476	0.63	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	-0.00619800
Cd 214.439	Cd	n	0.00003049	0.00003049	mg/L	27.39648035	0.00001734	56.85161536	3.60846716	13.17	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	0.00002918
Co 230.786	Co	n	0.00075555	0.00075555	mg/L	135.49438198	0.00049785	65.89213736	22.08120446	16.30	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	0.00027626
Cr 267.716	Cr	n	0.00019293	0.00019293	mg/L	93.98933381	0.00004282	22.19284566	3.15035809	3.35	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	0.00014406
Cu 324.754	Cu	n	0.00105988	0.00105988	mg/L	587.26413847	0.00037507	35.38816299	16.54026995	2.82	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	0.00148588
Fe 259.940	Fe	nu	-0.00192993	-0.00192993	mg/L	139.60214201	0.00032918	17.05636502	22.21430875	15.91	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	-0.00227005
K 766.491	K-R	n	0.03581967	0.03581967	mg/L	129.87879285	0.02821065	78.75744081	51.58962728	39.72	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	0.04102492
Li 670.783	Li-R	nu	-0.00103624	-0.00103624	mg/L	-93.01916572	0.00049613	47.87854422	68.04145324	73.15	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	-0.00159940
Mg 279.800	Mg-R	nu	-0.00496482	-0.00496482	mg/L	77.12997477	0.00342666	69.01874087	9.80100086	12.71	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	-0.00198043
Mn 257.610	Mn	nu	-0.00000061	-0.00000061	mg/L	-14.18842204	0.00000640	1044.95050225	3.03638569	21.40	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	-0.00000155
Mo 204.598	Mo	nu	0.00028289	0.00028289	mg/L	22.57242987	0.00101399	358.43506265	10.23850314	45.36	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	-0.00085062
Na 589.592	Na-R	nu	-0.04287734	-0.04287734	mg/L	1278.26488553	0.01419825	33.11364417	191.85480844	15.01	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	-0.02711917
Ni 231.604	Ni	nu	-0.00033880	-0.00033880	mg/L	67.94578472	0.00043691	128.95782371	10.99040076	16.18	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	-0.00006072
P 177.434	P	nu	0.00101418	0.00101418	mg/L	2.71839673	0.01361786	1342.74614471	2.95523488	> 100.00		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	0.00045229
Pb 220.353	Pb	nu	-0.00047041	-0.00047041	mg/L	-27.18229020	0.00223161	474.40160304	22.42086731	82.48	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	0.00135826
S 181.972	S	nu	-0.00865876	-0.00865876	mg/L	102.88591524	0.00262816	30.35264494	3.79976702	3.69		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	-0.00659204
Sb 206.834	Sb	nu	-0.00066681	-0.00066681	mg/L	-74.44120511	0.00204967	307.38198915	6.91381157	9.29	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	-0.00268672
Se 196.026	Se	nu	-0.00243259	-0.00243259	mg/L	41.07022205	0.00023661	9.72685583	0.88067355	2.14	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	-0.00219498
Si 251.611	Si	nu	0.00455944	0.00455944	mg/L	291.67466293	0.00491576	107.81500610	47.10428629	16.15		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	-0.00007202
Sn 189.925	Sn	n	0.00038547	0.00038547	mg/L	29.38711346	0.00017939	46.53746509	2.00510649	6.82	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	0.00039511
Sr 421.552	Sr-R	nu	-0.00004224	-0.00004224	mg/L	18.99364913	0.00001353	32.03659748	8.11199647	42.71	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	-0.00005537
Ti 334.941	Ti	n	0.00037549	0.00037549	mg/L	520.92682730	0.00017231	45.88899007	66.44420292	12.76	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	0.00021973
Tl 190.794	Tl	n	0.00290786	0.00290786	mg/L	6.29796159	0.00182446	62.74228862	6.30123755	> 100.00	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.00390451
V 292.401	V	nu	0.00008787	0.00008787	mg/L	2.07225437	0.00029295	333.37200194	11.73231994	> 100.00	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.00008293
Zn 206.200	Zn	nu	0.00003487	0.00003487	mg/L	47.48933696	0.00004934	141.49223452	2.85539658	6.01	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	0.00006743
Y 371.029	Y	1.01	1.01	Ratio	901669.19	0.01	0.66	5990.93	0.66		-	-	-	Fitted	-	-	-	1.00
Y 371.029	Y-R	1.03	1.03	Ratio	263597.64	0.00	0.34	907.64	0.34		-	-	-	Fitted	-	-	-	1.03

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	File: icp data	IDF: 1.0
Seqnum: 673347641014	Caldate: 29-AUG-2023	Time: 29-AUG-2023 10:44
Cal: 673347641002		

Standards: S18677

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	0.003692	0.003333	mg/L	!a+

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Aluminum	A	400.0	377.1	mg/L	94	
Aluminum as Al ₂ O ₃	A	755.8	712.6	mg/L	94	
Iron	A	160.0	143.6	mg/L	90	
Iron as Fe ₂ O ₃	A	228.8	205.3	mg/L	90	
Calcium	R	400.0	394.2	mg/L	99	
Calcium as CaCO ₃	R	998.9	984.3	mg/L	99	
Magnesium	R	400.0	408.4	mg/L	102	
Magnesium as MgCO ₃	R	1388	1417	mg/L	102	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	820222	-8.38
Yttrium	R	256506	238615	-6.97

!=warning +=high bias a=ICSA

Label: ICSA,S18677

Rack:Tube: S1:14

Type: QC

Date Time: 8/29/2023 10:44:46 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concns Replicate
Ag 328.068	Ag	nu	-0.00083040	-0.00083040	mg/L	498.68989257	0.00015439	18.59186117	13.15092887	2.64		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	-0.0006
Al 396.152	Al	no	377.14799046	377.14799046	mg/L	15296174.94317500	4.19545948	1.11241730	170136.00839339	1.11	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	372.414
As 188.980	As	nu	-0.00244405	-0.00244405	mg/L	51.56550908	0.00217010	88.79108737	12.22579196	23.71	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	-0.0010
B 249.678	B	nu	-0.00145247	-0.00145247	mg/L	330.04140280	0.00003337	2.29736315	1.41666746	0.43	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	-0.0014
Ba 230.424	Ba	n	0.00105635	0.00105635	mg/L	617.32354621	0.00010758	10.18411582	11.11073748	1.80	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	0.00117
Be 313.107	Be	nKu	-0.00175035	-0.00175035	mg/L	48.48832567	0.00000393	0.22424161	10.69933263	22.07	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	-0.0017
Ca 317.933	Ca-R	no	394.15360887	394.15360887	mg/L	6567502.82421273	1.37165393	0.34799984	22845.56923860	0.35	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	393.280
Cd 214.439	Cd	nu	-0.00149916	-0.00149916	mg/L	573.22762776	0.00017724	11.82269814	36.89443677	6.44	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	-0.0016
Co 230.786	Co	nKu	-0.00176612	-0.00176612	mg/L	237.71280720	0.00005357	3.03304456	2.37589365	1.00	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	-0.0017
Cr 267.716	Cr	nu	-0.00148294	-0.00148294	mg/L	169.33980788	0.00013812	9.31373318	10.16228037	6.00	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	-0.0015
Cu 324.754	Cu	nKu	-0.00552414	-0.00552414	mg/L	586.92328755	0.00060819	11.00974154	26.82060220	4.57	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	-0.0048
Fe 259.940	Fe	no	143.56572737	143.56572737	mg/L	9690016.39260741	2.36187703	1.64515381	159390.15056484	1.64	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	140.836
K 766.491	K-R	nu	-0.03731705	-0.03731705	mg/L	120.39765308	0.02314884	62.03289214	42.33295360	35.16	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	-0.0141
Li 670.783	Li-R	nKu	-0.00456184	-0.00456184	mg/L	183.41659609	0.00024294	5.32547797	33.31754068	18.17	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	-0.0043
Mg 279.800	Mg-R	no	408.42405803	408.42405803	mg/L	1168701.83206691	1.10513252	0.27058458	3160.92370986	0.27	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	408.015
Mn 257.610	Mn	nu	-0.00109216	-0.00109216	mg/L	736.97031263	0.00003838	3.51373380	18.19999295	2.47	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	-0.0010
Mo 204.598	Mo	nu	0.00039093	0.00039093	mg/L	90.29681347	0.00094584	241.94887981	9.55040606	10.58	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	0.00142
Na 589.592	Na-R	n	0.16432045	0.16432045	mg/L	3727.67417323	0.02562636	15.59535776	346.27798561	9.29	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	0.19285
Ni 231.604	Ni	nu	-0.00243374	-0.00243374	mg/L	81.48525478	0.00038798	15.94160833	9.75945401	11.98	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	-0.0027
P 177.434	P	nu	-0.01456860	-0.01456860	mg/L	3.20931787	0.00232468	15.95678076	0.50448238	15.72		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	-0.0141
Pb 220.353	Pb	nK	0.00369186	0.00369186	mg/L	-945.16513243	0.00256613	69.50769035	25.78171286	2.73	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	0.00657
S 181.972	S	n	0.11587516	0.11587516	mg/L	298.77273386	0.00451978	3.90055989	6.53464801	2.19		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	0.11455
Sb 206.834	Sb	nu	-0.00126009	-0.00126009	mg/L	-85.22470809	0.00174721	138.65796675	5.89359573	6.92	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	-0.0028
Se 196.026	Se	nu	0.00118739	0.00118739	mg/L	92.08026200	0.00186452	157.02711520	6.93969822	7.54	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	-0.0005
Si 251.611	Si	n	0.00739267	0.00739267	mg/L	327.52833111	0.00677215	91.60630443	64.89276443	19.81		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	0.00016
Sn 189.925	Sn	nKu	-0.00741230	-0.00741230	mg/L	41.42530825	0.00055208	7.44814885	6.17086728	14.90	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	-0.0069
Sr 421.552	Sr-R	nu	-0.00586545	-0.00586545	mg/L	1532.83259150	0.00003292	0.56128368	19.73550059	1.29	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	-0.0058
Ti 334.941	Ti	nu	-0.00134180	-0.00134180	mg/L	574.54658577	0.00027677	20.62663256	106.72394085	18.58	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	-0.0015
Tl 190.794	Tl	n	0.00250905	0.00250905	mg/L	12.30369424	0.00103415	41.21697632	3.57171355	29.03	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.00131
V 292.401	V	nu	-0.00106305	-0.00106305	mg/L	-139.51158092	0.00037313	35.09941617	14.94337907	10.71	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	-0.0006
Zn 206.200	Zn	nKu	-0.02352238	-0.02352238	mg/L	160.58991186	0.00016440	0.69890925	9.51351578	5.92	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	-0.0237
Y 371.029	Y	0.92	0.92	Ratio	820221.61	0.01	0.75	6124.05	0.75		-	-	-	Fitted	-	-	0.91	
Y 371.029	Y-R	0.93	0.93	Ratio	238614.99	0.00	0.41	979.12	0.41		-	-	-	Fitted	-	-	0.93	

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641015	File: icp data
Cal: 673347641002	Time: 29-AUG-2023 10:47
Caldate: 29-AUG-2023	

Standards: S18816

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9965	mg/L	0	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	822466	-8.13
Yttrium	R	256506	238607	-6.98

Label: ICSAB,S18816 Rack:Tube: S1:15 Type: QC
 Date Time: 8/29/2023 10:47:53 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	1.07690803	1.07690803	mg/L	92302.48053313	0.01307942	1.21453488	1114.12751657	1.21		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	1.062134
Al 396.152	Al	no	375.55109608	375.55109608	mg/L	15231416.59929730	6.07443327	1.61747185	246332.93092071	1.62	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	368.6057
As 188.980	As	nu	-0.00244998	-0.00244998	mg/L	51.60903957	0.00101678	41.50167227	5.72830618	11.10	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	-0.00137
B 249.678	B	nu	-0.00152398	-0.00152398	mg/L	327.11100273	0.00030057	19.72291085	12.76087052	3.90	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	-0.00181
Ba 230.424	Ba	n	0.55131927	0.55131927	mg/L	57448.17546509	0.00863658	1.56652905	891.97447871	1.55	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	0.541660
Be 313.107	Be	n	0.51347749	0.51347749	mg/L	1404533.51853587	0.00925297	1.80201962	25222.94372109	1.80	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	0.502947
Ca 317.933	Ca-R	no	394.77588339	394.77588339	mg/L	6577868.80647247	0.94398582	0.23911942	15722.54697485	0.24	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	395.3334
Cd 214.439	Cd	n	0.96351085	0.96351085	mg/L	201450.34542558	0.01326673	1.37691582	2761.59196115	1.37	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	0.948431
Co 230.786	Co	n	0.48410779	0.48410779	mg/L	21788.20465917	0.00609431	1.25887511	270.30383659	1.24	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	0.477474
Cr 267.716	Cr	n	0.48231696	0.48231696	mg/L	35766.36981922	0.00743059	1.54060319	546.72401320	1.53	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	0.474087
Cu 324.754	Cu	n	0.54124532	0.54124532	mg/L	24699.08265583	0.00697203	1.28814525	307.45792068	1.24	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	0.533314
Fe 259.940	Fe	no	143.14472952	143.14472952	mg/L	9661606.85352133	1.88666128	1.31800960	127320.44130763	1.32	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	141.0600
K 766.491	K-R	nu	-0.03186835	-0.03186835	mg/L	130.55982431	0.01822336	57.18325844	33.32558178	25.53	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	-0.03210
Li 670.783	Li-R	nu	-0.00410532	-0.00410532	mg/L	246.92950639	0.00012311	2.99871518	16.88325899	6.84	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	-0.00397
Mg 279.800	Mg-R	no	408.85283152	408.85283152	mg/L	1169928.98715649	0.81681350	0.19978179	2336.26746511	0.20	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	408.6361
Mn 257.610	Mn	n	0.49239047	0.49239047	mg/L	234778.68203716	0.00671488	1.36373050	3184.60925246	1.36	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	0.485083
Mo 204.598	Mo	nu	-0.00234524	-0.00234524	mg/L	62.80275596	0.00099108	42.25939352	10.00725168	15.93	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	-0.00293
Na 589.592	Na-R	n	0.38399589	0.38399589	mg/L	6695.72187215	0.02446612	6.37145330	330.60011359	4.94	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	0.41221E
Ni 231.604	Ni	n	0.96298628	0.96298628	mg/L	24366.48477950	0.01213837	1.26049296	305.33749307	1.25	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	0.949211
P 177.434	P	nu	-0.01573680	-0.01573680	mg/L	2.96342093	0.00270847	17.21106198	0.58776950	19.83		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	-0.01881
Pb 220.353	Pb	n	0.99649053	0.99649053	mg/L	9027.39331270	0.01123930	1.12788857	112.92062513	1.25	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	0.98431E
S 181.972	S	n	0.11134997	0.11134997	mg/L	292.28737500	0.00421103	3.78179669	6.08825998	2.08		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	0.10832E
Sb 206.834	Sb	n	0.00402159	0.00402159	mg/L	-67.45758147	0.00250334	62.24745043	8.44410771	12.52	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	0.00130E
Se 196.026	Se	n	0.00335125	0.00335125	mg/L	100.14477893	0.00070266	20.96725742	2.61529557	2.61	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	0.002897
Si 251.611	Si	n	0.00604156	0.00604156	mg/L	314.65679125	0.00557006	92.19567742	53.37400918	16.96		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	0.00027C
Sn 189.925	Sn	nu	-0.00827090	-0.00827090	mg/L	32.05068410	0.00082704	9.99945549	9.24430071	28.84	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	-0.00919
Sr 421.552	Sr-R	nu	-0.00588811	-0.00588811	mg/L	1517.43188620	0.00000977	0.16585660	5.85426896	0.39	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	-0.00587
Ti 334.941	Ti	nu	-0.00125174	-0.00125174	mg/L	610.56541855	0.00019420	15.51458240	74.88607023	12.27	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	-0.00103
Tl 190.794	Tl	n	0.00253032	0.00253032	mg/L	12.38262514	0.00156946	62.02591128	5.42051362	43.78	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.00142E
V 292.401	V	n	0.51056943	0.51056943	mg/L	20350.97187510	0.00791503	1.55023607	316.99078661	1.56	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.50176E
Zn 206.200	Zn	n	0.92932851	0.92932851	mg/L	55303.05348936	0.01460556	1.57162506	845.19553040	1.53	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	0.91246E
Y 371.029	Y		0.92	0.92	Ratio	822466.13	0.01	0.65	5323.32	0.65		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.93	0.93	Ratio	238607.13	0.00	0.05	111.65	0.05		-	-	-	Fitted	-	-	0.93

ENTHALPY CONTINUING CALIBRATION FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641089	File: icp data
Cal: 673347641001	Time: 29-AUG-2023 14:39
Caldate: 29-AUG-2023	

Standards: S18803

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	7870.7	10610	1.000	1.058	mg/L	6	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	848593	-5.21
Yttrium	R	256506	254925	-0.62

Label: CCV,S18803

Rack:Tube: S1:12

Type: QC

Date Time: 8/29/2023 2:39:14 PM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.52833499	0.52833499	mg/L	45493.43906277	0.00198929	0.37652098	169.45127524	0.37		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	0.52632476
Al 396.152	Al	n	1.08240876	1.08240876	mg/L	45111.34690245	0.00699330	0.64608637	283.59501014	0.63	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	1.07433484
As 188.980	As	n	1.09481827	1.09481827	mg/L	6185.50530103	0.00589511	0.53845542	33.21155007	0.54	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	1.08846068
B 249.678	B	nQ	1.13435741	1.13435741	mg/L	48448.477111342	0.00758119	0.66832436	321.86007312	0.66	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	1.12581923
Ba 230.424	Ba	nQ	1.16607765	1.16607765	mg/L	120609.60576703	0.01011249	0.86722292	1044.40518816	0.87	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	1.15440450
Be 313.107	Be	n	1.07834918	1.07834918	mg/L	2939560.16552363	0.00933950	0.86609276	25458.84328538	0.87	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	1.06756978
Ca 317.933	Ca-R	n	53.14999843	53.14999843	mg/L	887244.09181922	0.07047289	0.13259247	1173.76061131	0.13	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	53.19759477
Cd 214.439	Cd	n	1.04318982	1.04318982	mg/L	217179.35362716	0.00946303	0.90712439	1969.81615622	0.91	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	1.03229241
Co 230.786	Co	n	1.06556024	1.06556024	mg/L	47367.97088142	0.00833410	0.78213320	369.64617833	0.78	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	1.05594389
Cr 267.716	Cr	n	1.01499153	1.01499153	mg/L	74767.55193840	0.00693357	0.68311558	510.15415530	0.68	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	1.00706769
Cu 324.754	Cu	n	1.06804568	1.06804568	mg/L	47658.71001465	0.00493424	0.46198792	217.59411515	0.46	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	1.06287984
Fe 259.940	Fe	n	1.06181521	1.06181521	mg/L	72058.28240660	0.00779714	0.73432147	526.18609626	0.73	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	1.05282224
K 766.491	K-R	n	61.15363122	61.15363122	mg/L	111901.05270719	0.10038782	0.16415676	183.58207357	0.16	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	61.18130958
Li 670.783	Li-R	n	1.03288481	1.03288481	mg/L	141748.81834473	0.00055965	0.05418350	76.75255289	0.05	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	1.03321150
Mg 279.800	Mg-R	n	51.61607701	51.61607701	mg/L	147728.06584773	0.05059858	0.09802871	144.72313017	0.10	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	51.63631834
Mn 257.610	Mn	n	1.03814408	1.03814408	mg/L	492380.37692169	0.00404045	0.38919914	1916.22923680	0.39	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	1.03441593
Mo 204.598	Mo	n	1.07015972	1.07015972	mg/L	10825.56374441	0.01658200	1.54948863	167.43295768	1.55	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	1.05149367
Na 589.592	Na-R	n	51.41906475	51.41906475	mg/L	696661.27635229	0.07342284	0.14279302	992.13112407	0.14	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	51.48939481
Ni 231.604	Ni	n	1.04094116	1.04094116	mg/L	26261.86638666	0.00636178	0.61115641	160.02880623	0.61	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	1.03394922
P 177.434	P	nQ	7.93451375	7.93451375	mg/L	1724.39897990	0.02440857	0.30762524	5.29694260	0.31		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	7.93942020
Pb 220.353	Pb	n	1.05848018	1.05848018	mg/L	10609.68271785	0.00662187	0.62560143	66.52951627	0.63	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	1.05090445
S 181.972	S	nQ	6.28805034	6.28805034	mg/L	9204.06616435	0.03221826	0.51237279	46.58080288	0.51		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	6.27426018
Sb 206.834	Sb	n	1.08543353	1.08543353	mg/L	3589.72340338	0.01148819	1.05839661	38.75129165	1.08	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	1.07225601
Se 196.026	Se	n	1.09276986	1.09276986	mg/L	4121.72735034	0.01253583	1.14716080	46.65796342	1.13	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	1.07953912
Si 251.611	Si	nQ	6.88284836	6.88284836	mg/L	66198.78626224	0.55078708	8.00231318	5277.80782707	7.97		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	6.32448342
Sn 189.925	Sn	n	5.30650686	5.30650686	mg/L	59337.88500232	0.05889055	1.10978002	658.24979943	1.11	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	5.24629057
Sr 421.552	Sr-R	n	1.05246034	1.05246034	mg/L	631478.26512268	0.00492616	0.46806161	2953.06395879	0.47	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	1.05509738
Ti 334.941	Ti	n	1.08215620	1.08215620	mg/L	417670.85018492	0.01001780	0.92572558	3862.94592470	0.92	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	1.07082085
Tl 190.794	Tl	n	1.07765372	1.07765372	mg/L	3718.93693021	0.01108532	1.02865321	38.28596373	1.03	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	1.06485787
V 292.401	V	n	1.05207994	1.05207994	mg/L	42126.47999503	0.00625674	0.59470211	250.57758154	0.59	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	1.04502179
Zn 206.200	Zn	n	1.02560700	1.02560700	mg/L	59348.40723242	0.00854623	0.83328516	494.55387775	0.83	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	1.01586999
Y 371.029	Y		0.95	0.95	Ratio	848593.21	0.01	0.81	6839.59	0.81		-	-	-	Fitted	-	-	0.94
Y 371.029	Y-R		0.99	0.99	Ratio	254924.80	0.00	0.26	667.24	0.26		-	-	-	Fitted	-	-	1.00

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641090	File: icp data
Cal: 673347641001	Time: 29-AUG-2023 14:42
Caldate: 29-AUG-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	868591	-2.98
Yttrium	R	256506	263739	2.82

Label: CCB Rack/Tube: S1:1 Type: QC
 Date Time: 8/29/2023 2:42:21 PM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	0.00002892	0.00002892	mg/L	491.44253956	0.00023777	822.21159778	20.25361215	4.12		Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	0.00014143
Al 396.152	Al	n	0.00274226	0.00274226	mg/L	1231.89546119	0.00065316	23.81814571	26.48703235	2.15	6.75213007	Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	0.00281183
As 188.980	As	n	0.00058646	0.00058646	mg/L	18.83981017	0.00022176	37.81339225	1.24934201	6.63	2.78436440	Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	0.00039513
B 249.678	B	n	0.00251587	0.00251587	mg/L	386.49344000	0.00019927	7.92053429	8.46003723	2.19	5.21333048	Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	0.00232966
Ba 230.424	Ba	n	0.00045373	0.00045373	mg/L	207.84825947	0.00006328	13.94717198	6.53576514	3.14	10.06958980	Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	0.00051919
Be 313.107	Be	n	0.00000769	0.00000769	mg/L	51.44673844	0.00000633	82.33883371	17.26505304	33.56	3.91585616	Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	0.00001492
Ca 317.933	Ca-R	nu	-0.00198026	-0.00198026	mg/L	1993.85912530	0.00139624	70.50786674	23.25501310	1.17	14.83468652	Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	-0.00353276
Cd 214.439	Cd	nu	0.00000062	0.00000062	mg/L	21.17903307	0.00004885	7821.15442928	10.16812418	48.01	4.60490783	Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	-0.00003321
Co 230.786	Co	n	0.00068967	0.00068967	mg/L	132.57261928	0.00011197	16.23575701	4.96639112	3.75	11.54290506	Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	0.00067961
Cr 267.716	Cr	nu	-0.00009402	-0.00009402	mg/L	72.87605116	0.00006296	66.97023383	4.63264310	6.36	3.18272368	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	-0.00002268
Cu 324.754	Cu	nZ	0.00356780	0.00356780	mg/L	697.85989468	0.00035864	10.05221911	15.81573041	2.27	6.02910139	Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	0.00394645
Fe 259.940	Fe	nu	-0.00097724	-0.00097724	mg/L	203.89261189	0.00047852	48.96603365	32.29250719	15.84	4.47864463	Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	-0.00149105
K 766.491	K-R	nu	-0.00196030	-0.00196030	mg/L	60.78905070	0.03347371	1707.58270787	61.21433011	> 100.00	12.53945864	Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	0.03666340
Li 670.783	Li-R	n	0.00060266	0.00060266	mg/L	131.74388008	0.00041068	68.14371949	56.32167143	42.75	2.70945011	Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	0.00063331
Mg 279.800	Mg-R	nu	-0.00863357	-0.00863357	mg/L	66.63594893	0.00139558	16.16458604	3.99166976	5.99	5.90057626	Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	-0.01024482
Mn 257.610	Mn	n	0.00013933	0.00013933	mg/L	52.17862806	0.00000638	4.57986138	3.02627483	5.80	4.85461201	Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	0.00014533
Mo 204.598	Mo	n	0.00153991	0.00153991	mg/L	35.26454650	0.00144867	94.07533543	14.62763744	41.48	17.89827567	Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	0.00030658
Na 589.592	Na-R	nu	-0.04069793	-0.04069793	mg/L	1307.70966521	0.00963096	23.66449570	130.13900096	9.95	18.16163796	Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	-0.03051284
Ni 231.604	Ni	nu	-0.00045898	-0.00045898	mg/L	64.92268091	0.00013970	30.43831224	3.51423849	5.41	3.38701095	Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	-0.00049745
P 177.434	P	n	0.00407511	0.00407511	mg/L	3.38263857	0.00376734	92.44758192	0.81755699	24.17		Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	0.00111184
Pb 220.353	Pb	nu	-0.00152257	-0.00152257	mg/L	-37.74886401	0.00135903	89.25897863	13.65409275	36.17	12.54731102	Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	-0.00169213
S 181.972	S	nu	-0.00338003	-0.00338003	mg/L	110.51759872	0.00077037	22.79174437	1.11378779	1.01		Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	-0.00295898
Sb 206.834	Sb	nu	-0.00000620	-0.00000620	mg/L	-72.21256371	0.00271581	43834.10386364	9.16082327	12.69	3.47298309	Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	0.00296736
Se 196.026	Se	n	0.00101012	0.00101012	mg/L	53.88378748	0.00090641	89.73251851	3.37361338	6.26	8.42291618	Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	0.00100759
Si 251.611	Si	n	0.00909322	0.00909322	mg/L	335.11809978	0.00492933	54.20883162	47.23428826	14.09		Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	0.00431774
Sn 189.925	Sn	n	0.00157353	0.00157353	mg/L	42.66622896	0.00057308	36.42011625	6.40562128	15.01	13.36988506	Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	0.00091698
Sr 421.552	Sr-R	nu	-0.00002938	-0.00002938	mg/L	26.71818432	0.00001244	42.33135120	7.45437309	27.90	4.18367638	Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	-0.00003951
Ti 334.941	Ti	n	0.00122969	0.00122969	mg/L	850.30794899	0.00041905	34.07765838	161.58848671	19.00	1.79555521	Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	0.00080114
Tl 190.794	Tl	n	0.00320207	0.00320207	mg/L	7.31404979	0.00042690	13.33186362	1.47439149	20.16	14.27194206	Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	0.00349813
V 292.401	V	n	0.00027570	0.00027570	mg/L	9.59365714	0.00004690	17.01051022	1.87822437	19.58	2.38111867	Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	0.00032076
Zn 206.200	Zn	nu	-0.00004633	-0.00004633	mg/L	42.79614435	0.00005757	124.25965653	3.33157264	7.78	6.82335884	Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	0.00001042
Y 371.029	Y		0.97	0.97	Ratio	868590.81	0.01	0.63	5448.81	0.63		-	-	-	Fitted	-	-	0.96
Y 371.029	Y-R		1.03	1.03	Ratio	263739.39	0.01	0.51	1345.12	0.51		-	-	-	Fitted	-	-	1.03

ENTHALPY CONTINUING CALIBRATION FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673347641101	File: icp data
Cal: 673347641001	Time: 29-AUG-2023 16:21
Caldate: 29-AUG-2023	

Standards: S18803

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	7870.7	11296	1.000	1.127	mg/L	13	10	c+ ***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	895233	832589	-7.00
Yttrium	R	256506	252627	-1.51

+ = high bias c = CCV

Label: CCV,S18803

Rack:Tube: S1:12

Type: QC

Date Time: 8/29/2023 4:21:10 PM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data		Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.54540366	0.54540366	mg/L	46947.39627779	0.00092802	0.17015210	79.04996268	0.17			Y (371.029 nm)	Linear	1.00000	Fitted	488.978214267913	85181.6985266981	0.54434614
Al 396.152	Al	nQ	1.13867399	1.13867399	mg/L	47396.93462586	0.00449901	0.39510973	182.44578421	0.38	6.75213007		Y (371.029 nm)	Linear	0.99992	Fitted	1120.744722985	40552.4137229726	1.13348607
As 188.980	As	nQ	1.15093813	1.15093813	mg/L	6501.79257859	0.00233804	0.20314219	13.17193140	0.20	2.78436440		Y (371.029 nm)	Linear	0.99998	Fitted	15.5359252211659	5633.74724575043	1.14891406
B 249.678	B	nQ	1.16273684	1.16273684	mg/L	49653.80241555	0.00647602	0.55696380	274.94024216	0.55	5.21333048		Y (371.029 nm)	Linear	1.00000	Fitted	279.685172602699	42455.103544349	1.15527486
Ba 230.424	Ba	nQ	1.20900012	1.20900012	mg/L	125043.40005055	0.00590445	0.48837479	609.80416637	0.49	10.06958980		Y (371.029 nm)	Linear	0.99998	Fitted	160.993736075354	103278.709683301	1.20244443
Be 313.107	Be	nQ	1.13234083	1.13234083	mg/L	3086738.02805457	0.00538144	0.47524907	14669.43154956	0.48	3.91585616		Y (371.029 nm)	Linear	0.99987	Fitted	30.4742133364378	2725930.91916582	1.12618104
Ca 317.933	Ca-R	n	55.62104183	55.62104183	mg/L	928399.01485374	0.00350015	0.00629286	58.29674994	0.01	14.83468652		Y-R (371.029 nm)	Linear	0.99995	Fitted	2026.83634122448	16655.4906345256	55.62040868
Cd 214.439	Cd	nQ	1.11751522	1.11751522	mg/L	232651.21583931	0.00145588	0.13027872	303.05569475	0.13	4.60490783		Y (371.029 nm)	Linear	0.99975	Fitted	21.0492504173132	208159.152542045	1.11611432
Co 230.786	Co	nQ	1.11611927	1.11611927	mg/L	49610.63654068	0.00471561	0.42250073	209.15370761	0.42	11.54290506		Y (371.029 nm)	Linear	0.99994	Fitted	101.984849696433	44353.4588877481	1.11198042
Cr 267.716	Cr	n	1.05849878	1.05849878	mg/L	77968.97418536	0.00478571	0.45212226	352.12030699	0.45	3.18272368		Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	79.797183671787	73577.464827322	1.05332799
Cu 324.754	Cu	nQ	1.10071645	1.10071645	mg/L	49100.30523439	0.00179864	0.16340654	79.31796964	0.16	6.02910139		Y (371.029 nm)	Linear	0.99997	Fitted	540.531594600528	44098.7920364977	1.09869354
Fe 259.940	Fe	nQ	1.11077799	1.11077799	mg/L	75370.22506343	0.00682735	0.61464566	460.74038966	0.61	4.47864463		Y (371.029 nm)	Linear	0.99994	Off-Peak Left+Right	269.863043879392	67484.5254883452	1.10339353
K 766.491	K-R	n	62.54594861	62.54594861	mg/L	114447.34395052	0.05197803	0.08310375	95.05371392	0.08	12.53945864		Y-R (371.029 nm)	Linear	1.00000	Fitted	64.3753360548484	1828.72861584548	62.48601962
Li 670.783	Li-R	n	1.03091910	1.03091910	mg/L	141481.64744879	0.00187871	0.18223612	257.65166610	0.18	2.70945011		Y-R (371.029 nm)	Linear	1.00000	FACT	49.1049849969768	137143.082810153	1.02886408
Mg 279.800	Mg-R	n	54.97356687	54.97356687	mg/L	157331.35915256	0.03176975	0.05779096	90.86852228	0.06	5.90057626		Y-R (371.029 nm)	Linear	0.99999	Fitted	91.3293396306707	2860.22142652795	55.00612654
Mn 257.610	Mn	n	1.06962111	1.06962111	mg/L	507310.76288603	0.00538560	0.50350502	2554.18233470	0.50	4.85461201		Y (371.029 nm)	Linear	0.99981	Fitted	-13.8882941084992	474261.596116311	1.06394748
Mo 204.598	Mo	nQ	1.11429930	1.11429930	mg/L	11271.24374377	0.01387372	1.24506207	140.08667062	1.24	17.89827567		Y (371.029 nm)	Linear	1.00000	Fitted	19.7156657214652	10097.2696718435	1.09962490
Na 589.592	Na-R	n	52.24431385	52.24431385	mg/L	707812.44277326	0.01026976	0.01965718	138.77084701	0.02	18.16163796		Y-R (371.029 nm)	Linear	0.99998	Fitted	1857.64586554991	13512.5686331363	52.23245536
Ni 231.604	Ni	nQ	1.10033186	1.10033186	mg/L	27755.86564169	0.00232645	0.21143187	58.52127171	0.21	3.38701095		Y (371.029 nm)	Linear	0.99990	Off-Peak Left+Right	76.4679820252488	25154.7272315201	1.09764616
P 177.434	P	nQ	7.40897501	7.40897501	mg/L	1610.35104467	0.03224711	0.43524386	6.99799736	0.43			Y (371.029 nm)	Linear	1.00000	Fitted	2.49829225403906	217.011618644926	7.44209697
Pb 220.353	Pb	nQ	1.12682275	1.12682275	mg/L	11296.26029181	0.00219557	0.19484605	22.05876117	0.20	12.54731102		Y (371.029 nm)	Linear	0.99993	Off-Peak Right	-22.4473432451369	10046.9421462145	1.12431470
S 181.972	S	nQ	6.52465748	6.52465748	mg/L	9545.97715894	0.02387253	0.36588169	34.51463594	0.36			Y (371.029 nm)	Linear	1.00000	Fitted	115.404242625685	1445.78893908252	6.54967714
Sb 206.834	Sb	nQ	1.12559291	1.12559291	mg/L	3725.20813102	0.00405023	0.35983053	13.66198690	0.37	3.47298309		Y (371.029 nm)	Linear	1.00000	Off-Peak Right	-72.1911376432931	3373.14111331848	1.12108552
Se 196.026	Se	nQ	1.15096608	1.15096608	mg/L	4338.52633353	0.00679245	0.59015204	25.28128870	0.58	8.42291618		Y (371.029 nm)	Linear	0.99995	Fitted	50.126153979537	3721.96917629147	1.14316278
Si 251.611	Si	nQ	7.72954551	7.72954551	mg/L	74311.91866344	0.66849444	8.64856080	6405.71524643	8.62			Y (371.029 nm)	Linear	1.00000	Fitted	247.98373534521	9582.30140762089	7.05928728
Sn 189.925	Sn	nQ	5.66418505	5.66418505	mg/L	63335.79705435	0.00783197	0.13827176	87.54191322	0.14	13.36988506		Y (371.029 nm)	Linear	0.99995	Fitted	25.0771818470955	11177.5109829529	5.65749530
Sr 421.552	Sr-R	n	1.05423947	1.05423947	mg/L	632563.73913222	0.00311719	0.29568163	1868.64890217	0.30	4.18367638		Y-R (371.029 nm)	Linear	0.99993	Fitted	44.6629001271193	599465.363230787	1.05619925
Ti 334.941	Ti	nQ	1.11341817	1.11341817	mg/L	429725.74176449	0.01301347	1.16878553	5018.10269039	1.17	1.79555521		Y (371.029 nm)	Linear	1.00000	Fitted	376.134913962659	385608.33371248	1.09844960
Tl 190.794	Tl	nQ	1.14066185	1.14066185	mg/L	3936.58745963	0.00831180	0.72868179	28.70689369	0.73	14.27194206		Y (371.029 nm)	Linear	0.99997	Fitted	-3.74484600295965	3453.75374334907	1.13161310
V 292.401	V	n	1.09682435	1.09682435	mg/L	43918.16067010	0.00399143	0.36390820	159.85378381	0.36	2.38111867		Y (371.029 nm)	Linear	0.99996	Off-Peak Left+Right	-1.45151296807222	40049.213442071	1.09221549
Zn 206.200	Zn	nQ	1.11799105	1.11799105	mg/L	64692.07466175	0.00290264	0.25963009	167.97023688	0.26	6.82335884		Y (371.029 nm)	Linear	0.99966	Fitted	45.4522577914024	57868.0685047065	1.11517492
Y 371.029	Y	0.93	0.93		Ratio	832588.80	0.01	0.64	5356.75	0.64			-	-	-	Fitted	-	-	0.92
Y 371.029	Y-R	0.98	0.98		Ratio	252626.81	0.00	0.19	478.80	0.19			-	-	-	Fitted	-	-	0.99

Instrument: MET09
Method: EPA 6010B

Begun: 08/30/23 07:50

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
001	icp data	ICALBLK				08/30/23 07:50	1.0		
002	icp data	ICAL	L1			08/30/23 07:53	1.0	1	
003	icp data	ICAL	L2			08/30/23 07:56	1.0	2	
004	icp data	ICAL	L3			08/30/23 07:59	1.0	3	
005	icp data	ICAL	L4			08/30/23 08:02	1.0	4	
006	icp data	ICAL	L5			08/30/23 08:05	1.0	5	
007	icp data	ICAL	L6			08/30/23 08:08	1.0	6	
008	icp data	ICAL	L7			08/30/23 08:11	1.0	7	
009	icp data	ICAL	L8			08/30/23 08:15	1.0	8	
010	icp data	ICV				08/30/23 08:18	1.0	9	
011	icp data	ICB				08/30/23 08:21	1.0		
012	icp data	CRI				08/30/23 08:24	1.0	10	
013	icp data	ICSA				08/30/23 08:27	1.0	11	6:MGASMGCO3=1400
014	icp data	ICSAB				08/30/23 08:30	1.0	12	6:MGASMGCO3=1400
015	icp data	BS	QC1090213	Wipe	321361	08/30/23 08:33	1.0	13	
016	icp data	BSD	QC1090214	Wipe	321361	08/30/23 08:36	1.0	13	
017	icp data	SAMPLE	491224-002	Wipe	321361	08/30/23 08:40	1.0	13	2:FE=85
018	icp data	SAMPLE	491224-004	Wipe	321361	08/30/23 08:43	1.0	13	1:FE=59
019	icp data	SAMPLE	491224-005	Wipe	321361	08/30/23 08:46	1.0	13	2:FE=86
020	icp data	SAMPLE	491224-007	Wipe	321361	08/30/23 08:49	1.0	13	1:FE=79
021	icp data	SAMPLE	491224-009	Wipe	321361	08/30/23 08:52	1.0	13	1:FE=54
022	icp data	SAMPLE	491224-010	Wipe	321361	08/30/23 08:55	1.0	13	1:FE=44
023	icp data	SAMPLE	491224-012	Wipe	321361	08/30/23 08:58	1.0	13	1:FE=55
024	icp data	SAMPLE	491224-015	Wipe	321361	08/30/23 09:01	1.0	13	1:FE=42
025	icp data	CCV				08/30/23 09:05	1.0	9	
026	icp data	CCB				08/30/23 09:08	1.0		
027	icp data	SAMPLE	491224-017	Wipe	321361	08/30/23 09:11	1.0	13	1:FE=42
028	icp data	SAMPLE	491224-019	Wipe	321361	08/30/23 09:14	1.0	13	1:FE=59
029	icp data	SAMPLE	491224-022	Wipe	321361	08/30/23 09:17	1.0	13	1:FE=80
030	icp data	SAMPLE	491224-024	Wipe	321361	08/30/23 09:20	1.0	13	1:FE=86
031	icp data	SAMPLE	491258-003	Wipe	321361	08/30/23 09:23	1.0	13	1:FE=54
032	icp data	SAMPLE	491258-005	Wipe	321361	08/30/23 09:26	1.0	13	1:FE=50
033	icp data	SAMPLE	491258-007	Wipe	321361	08/30/23 09:30	1.0	13	1:FE=42
034	icp data	SAMPLE	491258-009	Wipe	321361	08/30/23 09:33	1.0	13	1:FE=33
035	icp data	SAMPLE	491258-010	Wipe	321361	08/30/23 09:36	1.0	13	1:FE=37
036	icp data	SAMPLE	491258-012	Wipe	321361	08/30/23 09:39	1.0	13	1:FE=59
037	icp data	XCCV				08/30/23 09:42	1.0	9	
038	icp data	CCV				08/30/23 09:55	1.0	9	
039	icp data	CCB				08/30/23 09:58	1.0		
040	icp data	SAMPLE	491258-015	Wipe	321361	08/30/23 10:01	1.0	13	1:FE=59
041	icp data	SAMPLE	491258-017	Wipe	321361	08/30/23 10:05	1.0	13	1:FE=43
042	icp data	BLANK	QC1090215	Wipe	321362	08/30/23 10:08	1.0	13	
043	icp data	BS	QC1090217	Wipe	321362	08/30/23 10:11	1.0	13	
044	icp data	BSD	QC1090218	Wipe	321362	08/30/23 10:14	1.0	13	
045	icp data	SAMPLE	491258-018	Wipe	321362	08/30/23 10:17	1.0	13	1:FE=34
046	icp data	SAMPLE	491258-020	Wipe	321362	08/30/23 10:20	1.0	13	1:FE=50
047	icp data	SAMPLE	491258-022	Wipe	321362	08/30/23 10:23	1.0	13	1:FE=67
048	icp data	SAMPLE	491258-024	Wipe	321362	08/30/23 10:26	1.0	13	1:FE=83
049	icp data	SAMPLE	491258-025	Wipe	321362	08/30/23 10:30	1.0	13	1:FE=50
050	icp data	CCV				08/30/23 10:33	1.0	9	

Instrument: MET09		Begun: 08/30/23 07:50							
Method: EPA 6010B									
#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used	
051	icp data	CCB				08/30/23 10:36	1.0		
052	icp data	SAMPLE	491258-027	Wipe	321362	08/30/23 10:39	1.0	13	1:FE=81
053	icp data	SAMPLE	491258-029	Wipe	321362	08/30/23 10:42	1.0	13	1:FE=49
054	icp data	SAMPLE	491258-031	Wipe	321362	08/30/23 10:45	1.0	13	1:FE=48
055	icp data	SAMPLE	491258-033	Wipe	321362	08/30/23 10:48	1.0	13	1:FE=70
056	icp data	SAMPLE	491258-036	Wipe	321362	08/30/23 10:51	1.0	13	1:FE=49
057	icp data	SAMPLE	491258-038	Wipe	321362	08/30/23 10:55	1.0	13	
058	icp data	SAMPLE	491258-039	Wipe	321362	08/30/23 10:58	1.0	13	
059	icp data	SAMPLE	491258-041	Wipe	321362	08/30/23 11:01	1.0	13	
060	icp data	SAMPLE	491258-042	Wipe	321362	08/30/23 11:04	1.0	13	
061	icp data	SAMPLE	491223-001	Soil	321321	08/30/23 11:07	50.0	13	
062	icp data	CCV				08/30/23 11:10	1.0	9	
063	icp data	CCB				08/30/23 11:13	1.0		

SBW 08/30/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 039.

SBW 08/30/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 040 through 063.

Standards Used:

1=S18676 2=S18675 3=S18674 4=S18673 5=S18672 6=S18663 7=S18726 8=S18547 9=S18803 10=S18728 11=S18677 12=S18816 13=S14463

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-002	Client ID: ARCH-C8W-EXT-1 TO 2-230828-L-WF
Seqnum: 673348950017	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 08:40
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.417	71	0.50		U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	827005	-6.20

U=Use

Label: 491224-002,321361 Rack/Tube: 1:3 Type: Sample
 Date Time: 8/30/2023 8:40:05 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	0.00009013	0.00009013	mg/L	547.25344828	0.00060933	676.06015553	52.06857358	9.51		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.00073661
Al 396.152	Al	n	5.82348270	5.82348270	mg/L	239913.97529124	0.12764460	2.19189448	5229.48126768	2.18	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	5.68493177
As 188.980	As	n	0.02477406	0.02477406	mg/L	169.11789584	0.00011200	0.45206601	0.63578553	0.38	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.02471696
B 249.678	B	n	0.02037218	0.02037218	mg/L	1096.25513524	0.00055980	2.74785957	23.71212931	2.16	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.02018792
Ba 230.424	Ba	n	0.06863603	0.06863603	mg/L	7582.37988685	0.00143229	2.08678733	153.92303225	2.03	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.06711880
Be 313.107	Be	n	0.00122716	0.00122716	mg/L	3490.06781733	0.00002798	2.27990146	76.74278222	2.20	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00119819
Ca 317.933	Ca-R	n	33.14418764	33.14418764	mg/L	560484.39173792	0.08396891	0.25334429	1414.78622324	0.25	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	33.10001294
Cd 214.439	Cd	nu	0.00002810	0.00002810	mg/L	301.04507814	0.00009516	338.64557189	20.13580485	6.69	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00000069
Co 230.786	Co	n	0.02145014	0.02145014	mg/L	1130.46682669	0.00063470	2.95896124	28.30419716	2.50	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.02072488
Cr 267.716	Cr	n	0.05728674	0.05728674	mg/L	4319.30258957	0.00103863	1.81304485	76.35465130	1.77	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.05611296
Cu 324.754	Cu	n	0.24949524	0.24949524	mg/L	11640.62727590	0.00429544	1.72165070	191.51250464	1.65	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.24498572
Fe 259.940	Fe	no	84.75086414	84.75086414	mg/L	5752626.86204397	1.37262691	1.61960225	93165.75934589	1.62	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	83.23129991
K 766.491	K-R	n	3.61519949	3.61519949	mg/L	6618.62320108	0.00968248	0.26782692	17.73009604	0.27	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	3.62567277
Li 670.783	Li-R	n	0.00611279	0.00611279	mg/L	884.32404464	0.00101239	16.56186128	134.55622901	15.22	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00499305
Mg 279.800	Mg-R	n	8.63042846	8.63042846	mg/L	25727.54692426	0.02334473	0.27049333	69.05724445	0.27	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	8.61407415
Mn 257.610	Mn	n	0.80737919	0.80737919	mg/L	381964.49957796	0.01306861	1.61864599	6179.19021316	1.62	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.79299224
Mo 204.598	Mo	n	0.00510653	0.00510653	mg/L	59.63866689	0.00084391	16.52601573	8.52215135	14.29	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00413619
Na 589.592	Na-R	n	7.72460191	7.72460191	mg/L	103024.26458986	0.03604243	0.46659273	480.26414722	0.47	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	7.69663065
Ni 231.604	Ni	n	0.07402827	0.07402827	mg/L	1993.91477688	0.00124243	1.67832255	31.89747171	1.60	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.07302989
P 177.434	P	n	0.39347608	0.39347608	mg/L	226.89257346	0.00353947	0.89953906	2.01491415	0.89		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.39064163
Pb 220.353	Pb	n	1.41691656	1.41691656	mg/L	14614.36735242	0.02120461	1.49653199	218.86917520	1.50	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	1.39316023
S 181.972	S	n	4.51166170	4.51166170	mg/L	7589.96505919	0.00884014	0.19593975	14.65843979	0.19		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	4.51638975
Sb 206.834	Sb	nu	-0.01431405	-0.01431405	mg/L	-107.82937237	0.00242097	16.91324647	8.12802395	7.54	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.01470760
Se 196.026	Se	n	0.01174556	0.01174556	mg/L	90.04177782	0.00060681	5.16625591	2.26161423	2.51	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.01208309
Si 251.611	Si	no	20.17659424	20.17659424	mg/L	188077.56305582	0.17729880	0.87873504	1645.35928007	0.87		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	19.98409302
Sn 189.925	Sn	n	0.04933640	0.04933640	mg/L	590.23633300	0.00077087	1.56247039	8.74366203	1.48	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.04859219
Sr 421.552	Sr-R	n	0.05760959	0.05760959	mg/L	34588.42900876	0.00008201	0.14234828	48.31358241	0.14	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.05760230
Ti 334.941	Ti	n	0.35776616	0.35776616	mg/L	139118.91353106	0.00776204	2.16958470	3010.27504308	2.16	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.34941324
Tl 190.794	Tl	nu	-0.00436927	-0.00436927	mg/L	-22.56861536	0.00020255	4.63573825	0.68325682	3.03	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.00457784
V 292.401	V	n	0.00851472	0.00851472	mg/L	262.55961452	0.00030002	3.52358480	12.06812315	4.60	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00886116
Zn 206.200	Zn	n	31.39537690	31.39537690	mg/L	1820407.60643155	0.78235444	2.49194153	45332.00320181	2.49	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	30.51929712
Y 371.029	Y		0.94	0.94	Ratio	827005.43	0.02	2.66	22018.59	2.66		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.97	0.97	Ratio	248914.44	0.00	0.36	904.45	0.36		-	-	-	Fitted	-	-	0.98

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-004	Client ID: ARCH-C9W-EXT-1 TO 2-230828-L-WF
Seqnum: 673348950018	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 08:43
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.9766	49	0.50		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	824116	-6.53

U=USE

Label: 491224-004,321361

Rack/Tube: 1:4

Type: Sample

Date Time: 8/30/2023 8:43:12 AM

Weight: 1

Volume: 1

Dilution: 1

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: _____

Customer: _____

Customer Ref.: _____

Sample Date Time: _____

Sample Site: _____

Description: _____

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	0.00020036	0.00020036	mg/L	561.06033375	0.00040349	201.38600826	34.47937434	6.15		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.00062341
Al 396.152	Al	n	4.73359681	4.73359681	mg/L	195244.97516180	0.12619411	2.66592434	5170.05616575	2.65	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	4.60100419
As 188.980	As	n	0.01977620	0.01977620	mg/L	137.20563802	0.00027092	1.36990757	1.53796178	1.12	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.01946388
B 249.678	B	n	0.01485039	0.01485039	mg/L	867.58910435	0.00017969	1.21000404	7.61137399	0.88	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01487092
Ba 230.424	Ba	n	0.05634076	0.05634076	mg/L	6251.54522618	0.00147396	2.61615501	158.40156302	2.53	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.05479736
Be 313.107	Be	n	0.00094213	0.00094213	mg/L	2694.49468345	0.00003004	3.18810947	82.38845681	3.06	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00091357
Ca 317.933	Ca-R	n	29.09050196	29.09050196	mg/L	492234.65017660	0.02638785	0.09070949	444.60697777	0.09	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	29.11280625
Cd 214.439	Cd	nu	-0.00011170	-0.00011170	mg/L	192.56458613	0.00005567	49.83508572	11.77912112	6.12	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00015391
Co 230.786	Co	n	0.01256541	0.01256541	mg/L	712.81201152	0.00043414	3.45502970	19.36019686	2.72	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.01247064
Cr 267.716	Cr	n	0.02120300	0.02120300	mg/L	1666.05552806	0.00059090	2.78688305	43.43991586	2.61	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.02058147
Cu 324.754	Cu	n	0.22564118	0.22564118	mg/L	10577.37425968	0.00475241	2.10618089	211.88677759	2.00	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.22085565
Fe 259.940	Fe	no	59.39216919	59.39216919	mg/L	4031424.03731842	1.45931249	2.45707895	99049.46176423	2.46	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	57.88754615
K 766.491	K-R	n	3.26623392	3.26623392	mg/L	5981.29740755	0.02950921	0.90346289	54.03587690	0.90	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	3.27983491
Li 670.783	Li-R	n	0.00559047	0.00559047	mg/L	800.54348058	0.00027149	4.85635936	36.08396230	4.51	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00589620
Mg 279.800	Mg-R	n	7.51329837	7.51329837	mg/L	22393.09887465	0.01405515	0.18707027	41.57724682	0.19	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	7.52850829
Mn 257.610	Mn	n	0.60511995	0.60511995	mg/L	286271.21170430	0.01288780	2.12979239	6093.69733275	2.13	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.59148937
Mo 204.598	Mo	n	0.00317250	0.00317250	mg/L	40.35908773	0.00038905	12.26313158	3.92879015	9.73	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00350608
Na 589.592	Na-R	n	7.77550520	7.77550520	mg/L	103852.59027385	0.01234289	0.15874068	164.46858163	0.16	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	7.76131339
Ni 231.604	Ni	n	0.03740800	0.03740800	mg/L	1050.28598353	0.00095433	2.55113578	24.50086020	2.33	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.03662320
P 177.434	P	n	0.31849778	0.31849778	mg/L	184.19213419	0.01229733	3.86104147	7.00049994	3.80		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.31391122
Pb 220.353	Pb	n	0.97661723	0.97661723	mg/L	10066.62492890	0.01620468	1.65926669	167.26108036	1.66	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.95907742
S 181.972	S	n	4.56776069	4.56776069	mg/L	7686.37741600	0.00968595	0.21205038	16.06094464	0.21		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	4.55658325
Sb 206.834	Sb	nu	-0.01163671	-0.01163671	mg/L	-103.63654199	0.00076548	6.57810838	2.56996177	2.48	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.01251062
Se 196.026	Se	n	0.00711501	0.00711501	mg/L	76.76805214	0.00196333	27.59418601	7.31748821	9.53	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.00511819
Si 251.611	Si	no	16.82446334	16.82446334	mg/L	156980.19032628	0.32290824	1.91927809	2996.63651537	1.91		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	16.46713402
Sn 189.925	Sn	n	0.07437482	0.07437482	mg/L	872.84569865	0.00157796	2.12163845	17.89828703	2.05	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.07285397
Sr 421.552	Sr-R	n	0.04968692	0.04968692	mg/L	29869.40921421	0.00007179	0.14448705	42.29540964	0.14	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.04964067
Ti 334.941	Ti	n	0.29362919	0.29362919	mg/L	114247.46935591	0.00898612	3.06036496	3484.99974514	3.05	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.28357424
Tl 190.794	Tl	nu	-0.00407656	-0.00407656	mg/L	-21.11776577	0.00083306	20.43531995	2.81016193	13.31	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.00403432
V 292.401	V	n	0.00599535	0.00599535	mg/L	182.93149124	0.00012978	2.16469644	5.22030767	2.85	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00608469
Zn 206.200	Zn	n	18.51738388	18.51738388	mg/L	1073858.01486939	0.40951617	2.21152281	23728.61639835	2.21	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	18.06658815
Y 371.029	Y	0.93	0.93	Ratio	824115.56	0.03	2.73	22526.70	2.73			-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R	0.97	0.97	Ratio	248351.65	0.00	0.24	591.31	0.24			-	-	-	Fitted	-	-	0.97

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-005	Client ID: ARCH-C9W-EXT-1 TO 2-230828-L-DUP-WF
Seqnum: 673348950019	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 08:46
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.230	61	0.50		U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	825407	-6.38

U=USE

Label: 491224-005,321361 Rack/Tube: 1:5 Type: Sample
 Date Time: 8/30/2023 8:46:20 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	0.00014485	0.00014485	mg/L	550.92939517	0.00035972	248.34049629	30.73899417	5.58		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.00052546
Al 396.152	Al	n	3.22730915	3.22730915	mg/L	133536.17364234	0.07002190	2.16966818	2868.73259092	2.15	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	3.14968610
As 188.980	As	n	0.02533611	0.02533611	mg/L	172.34139322	0.00047306	1.86714934	2.68553339	1.56	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.02487069
B 249.678	B	n	0.01474137	0.01474137	mg/L	855.64920764	0.00019443	1.31896413	8.23586488	0.96	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01456442
Ba 230.424	Ba	n	0.04215027	0.04215027	mg/L	4733.04116942	0.00103772	2.46195492	111.52024560	2.36	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.04097629
Be 313.107	Be	n	0.00061897	0.00061897	mg/L	1783.56005512	0.00002815	4.54783389	77.21387434	4.33	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00058944
Ca 317.933	Ca-R	n	23.71143424	23.71143424	mg/L	401541.29486613	0.02745541	0.11578976	462.59434064	0.12	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	23.69826255
Cd 214.439	Cd	n	0.00006463	0.00006463	mg/L	311.03543301	0.00007143	110.51641128	15.11378595	4.86	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.00001335
Co 230.786	Co	n	0.01876724	0.01876724	mg/L	1011.37933684	0.00045191	2.40797601	20.15272885	1.99	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.01824542
Cr 267.716	Cr	n	0.02993175	0.02993175	mg/L	2306.01561960	0.00059294	1.98095802	43.58933351	1.89	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.02926864
Cu 324.754	Cu	n	0.29725302	0.29725302	mg/L	13766.10368710	0.00607546	2.04386893	270.87513635	1.97	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.29040609
Fe 259.940	Fe	no	86.05060938	86.05060938	mg/L	5840833.68544267	1.35358598	1.57301150	91873.37477033	1.57	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	84.57937595
K 766.491	K-R	n	3.54573506	3.54573506	mg/L	6489.89795310	0.00941549	0.26554422	17.24120989	0.27	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	3.53882695
Li 670.783	Li-R	n	0.00467544	0.00467544	mg/L	686.89750735	0.00048025	10.27181135	63.82990272	9.29	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00426863
Mg 279.800	Mg-R	n	6.08841150	6.08841150	mg/L	18207.92976229	0.01459303	0.23968541	43.16839679	0.24	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	6.07181736
Mn 257.610	Mn	n	0.69035423	0.69035423	mg/L	326626.90706993	0.01091173	1.58059876	5159.35913316	1.58	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.67878911
Mo 204.598	Mo	n	0.00348772	0.00348772	mg/L	42.69599831	0.00050837	14.57590587	5.13372755	12.02	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00290131
Na 589.592	Na-R	n	8.39237785	8.39237785	mg/L	111906.35900582	0.01159967	0.13821670	154.56516930	0.14	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	8.37898521
Ni 231.604	Ni	n	0.05404076	0.05404076	mg/L	1480.66283810	0.00049230	0.91097404	12.63894024	0.85	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.05348080
P 177.434	P	n	0.40866895	0.40866895	mg/L	235.45712496	0.00505331	1.23652824	2.87669532	1.22		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.40763768
Pb 220.353	Pb	n	1.22954389	1.22954389	mg/L	12688.13970348	0.01692125	1.37622186	174.65732716	1.38	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	1.21097948
S 181.972	S	n	4.70984695	4.70984695	mg/L	7917.98827387	0.00610787	0.12968291	10.12787269	0.13		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	4.70802444
Sb 206.834	Sb	nu	-0.02511733	-0.02511733	mg/L	-143.54234468	0.00342323	13.62896586	11.49296062	8.01	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.02234849
Se 196.026	Se	n	0.01299525	0.01299525	mg/L	93.53709206	0.00269897	20.76885340	10.05926355	10.75	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.01084748
Si 251.611	Si	no	11.66591248	11.66591248	mg/L	109095.79216204	0.15799443	1.35432555	1466.21185765	1.34		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	11.48420494
Sn 189.925	Sn	n	0.09203662	0.09203662	mg/L	1074.06466389	0.00169447	1.84108112	19.21974924	1.79	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.09012652
Sr 421.552	Sr-R	n	0.03955713	0.03955713	mg/L	23854.14115358	0.00003617	0.09143769	21.30945030	0.09	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.03953722
Ti 334.941	Ti	n	0.19706187	0.19706187	mg/L	76787.28798017	0.00464967	2.35949979	1803.23712387	2.35	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.19174550
Tl 190.794	Tl	nu	-0.00505759	-0.00505759	mg/L	-25.04974327	0.00088552	17.50881017	2.98714342	11.92	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.00474027
V 292.401	V	n	0.00483411	0.00483411	mg/L	113.33447551	0.00043130	8.92206088	17.34866149	15.31	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00439519
Zn 206.200	Zn	no	81.51056389	81.51056389	mg/L	4724270.30552436	1.41993963	1.74203142	82275.63510887	1.74	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	79.87098096
Y 371.029	Y	0.94	0.94	Ratio	825407.14	0.03	2.67	22049.86	2.67			-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R	0.97	0.97	Ratio	248621.30	0.00	0.32	805.57	0.32			-	-	-	Fitted	-	-	0.98

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-007	Client ID: ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-L-LA
Seqnum: 673348950020	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 08:49
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.02 ft2 ⇒ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.313	64	0.50		U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	826885	-6.21

U=USE

Label: 491224-007,321361 Rack: Tube: 1:6 Type: Sample
 Date Time: 8/30/2023 8:49:27 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	-0.00007004	-0.00007004	mg/L	534.20529438	0.00034936	498.78936894	29.85383914	5.59		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.00027594
Al 396.152	Al	n	5.03732698	5.03732698	mg/L	207699.80453691	0.14489050	2.87633699	5936.03001980	2.86	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	4.88131561
As 188.980	As	n	0.03819537	0.03819537	mg/L	244.63556191	0.00147669	3.86615991	8.38305105	3.43	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.03662750
B 249.678	B	n	0.01508790	0.01508790	mg/L	873.02776947	0.00047738	3.16398474	20.22095734	2.32	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01561464
Ba 230.424	Ba	n	0.06091127	0.06091127	mg/L	6749.82348337	0.00179705	2.95027892	193.12301406	2.86	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.05894631
Be 313.107	Be	n	0.00098840	0.00098840	mg/L	2824.66033856	0.00004450	4.50199613	122.05627307	4.32	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00094179
Ca 317.933	Ca-R	n	30.74204970	30.74204970	mg/L	520018.32572164	0.02492764	0.08108646	420.00404551	0.08	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	30.7662830
Cd 214.439	Cd	nu	-0.00002340	-0.00002340	mg/L	275.37863277	0.00008026	343.06990479	16.98360661	6.17	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.0001082
Co 230.786	Co	n	0.00936109	0.00936109	mg/L	587.34328462	0.00092196	9.84886355	41.11439732	7.00	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00831999
Cr 267.716	Cr	n	0.03907545	0.03907545	mg/L	2979.94987238	0.00095694	2.44894496	70.34866415	2.36	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.03803769
Cu 324.754	Cu	n	0.50744217	0.50744217	mg/L	23140.54596111	0.01556624	3.06758966	694.02266185	3.00	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.49322079
Fe 259.940	Fe	no	78.93900416	78.93900416	mg/L	5358149.10587105	2.05305351	2.60081000	139349.07478368	2.60	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	76.7193429
K 766.491	K-R	n	3.53242113	3.53242113	mg/L	6467.06505156	0.02389720	0.67651057	43.75943061	0.68	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	3.55777679
Li 670.783	Li-R	n	0.00606015	0.00606015	mg/L	873.35652107	0.00027938	4.61004777	37.13163699	4.25	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00578442
Mg 279.800	Mg-R	n	7.98552586	7.98552586	mg/L	23814.08047071	0.01877280	0.23508527	55.53276196	0.23	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	8.00675114
Mn 257.610	Mn	n	0.67641522	0.67641522	mg/L	320028.74754243	0.01600271	2.36581097	7566.50894184	2.36	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.65939009
Mo 204.598	Mo	n	0.00359403	0.00359403	mg/L	44.29093614	0.00038650	10.75382608	3.90301130	8.81	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00336660
Na 589.592	Na-R	n	7.88279055	7.88279055	mg/L	105157.84141516	0.00695884	0.08827893	92.72634252	0.09	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	7.87783007
Ni 231.604	Ni	n	0.09734529	0.09734529	mg/L	2591.85194010	0.00218553	2.24513172	56.10996870	2.16	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.09491757
P 177.434	P	n	0.37544200	0.37544200	mg/L	216.60565783	0.00795318	2.11835053	4.52750424	2.09		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.36652402
Pb 220.353	Pb	n	1.31335620	1.31335620	mg/L	13546.46125419	0.02831180	2.15568306	292.22795485	2.16	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	1.28151682
S 181.972	S	n	4.48653360	4.48653360	mg/L	7548.82468213	0.02556546	0.56982646	42.39183500	0.56		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	4.45702479
Sb 206.834	Sb	nu	-0.00193145	-0.00193145	mg/L	-67.06634802	0.00242431	125.51812260	8.13924972	12.14	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.00026907
Se 196.026	Se	n	0.01082267	0.01082267	mg/L	87.14690521	0.00087204	8.05750085	3.25015138	3.73	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.01174922
Si 251.611	Si	no	17.47039576	17.47039576	mg/L	162965.45628584	0.36856453	2.10965187	3420.33369271	2.10		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	17.0796331
Sn 189.925	Sn	n	0.07881110	0.07881110	mg/L	924.17991339	0.00228854	2.90382482	25.95804290	2.81	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.07638113
Sr 421.552	Sr-R	n	0.05338389	0.05338389	mg/L	32070.54962311	0.00018766	0.35152300	110.55699236	0.34	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.05319377
Ti 334.941	Ti	n	0.30557060	0.30557060	mg/L	118875.36901590	0.00997247	3.26355778	3867.52534718	3.25	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.29640514
Tl 190.794	Tl	nu	-0.00520825	-0.00520825	mg/L	-25.33991871	0.00075788	14.55162666	2.55658027	10.09	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.0050135
V 292.401	V	n	0.00592842	0.00592842	mg/L	162.45918084	0.00024631	4.15467546	9.90742142	6.10	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00565650
Zn 206.200	Zn	n	3.19638120	3.19638120	mg/L	186409.50158594	0.04820706	1.50817631	2793.26437557	1.50	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	3.14359659
Y 371.029	Y		0.94	0.94	Ratio	826885.37	0.03	2.80	23176.95	2.80		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.97	0.97	Ratio	249060.07	0.01	0.61	1524.90	0.61		-	-	-	Fitted	-	-	0.97

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-009	Client ID: ARCH-C10W-DG-1.5 TO 2-230828-L-FB
Seqnum: 673348950021	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 08:52
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.5318	27	0.50		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	830675	-5.78

U=USE

Label: 491224-009,321361 Rack: Tube: 1:8 Type: Sample
 Date Time: 8/30/2023 8:52:34 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	0.00003297	0.00003297	mg/L	547.47704039	0.00050738	1538.73162340	43.35704688	7.92		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.0003071
Al 396.152	Al	n	3.92855167	3.92855167	mg/L	162256.74721870	0.12528982	3.18921149	5133.00832333	3.16	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	3.7952575
As 188.980	As	n	0.02548020	0.02548020	mg/L	168.84577199	0.00094226	3.69799624	5.34910193	3.17	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.0244156
B 249.678	B	n	0.01426972	0.01426972	mg/L	843.69450204	0.00022214	1.55670431	9.40936020	1.12	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.0142395
Ba 230.424	Ba	n	0.04819833	0.04819833	mg/L	5373.94787327	0.00185409	3.84679921	199.25298157	3.71	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.0461727
Be 313.107	Be	n	0.00080292	0.00080292	mg/L	2302.25651252	0.00002971	3.69981954	81.48368359	3.54	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.0007696
Ca 317.933	Ca-R	n	26.51590177	26.51590177	mg/L	448863.83002806	0.05418351	0.20434346	912.93415439	0.20	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	26.453766
Cd 214.439	Cd	nu	-0.00013723	-0.00013723	mg/L	171.00763501	0.00004454	32.45531283	9.42392511	5.51	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.000160
Co 230.786	Co	n	0.01423306	0.01423306	mg/L	782.78448252	0.00043606	3.06374277	19.44607296	2.48	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.0137307
Cr 267.716	Cr	n	0.04520302	0.04520302	mg/L	3429.85701732	0.00138028	3.05351684	101.47070014	2.96	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.0436686
Cu 324.754	Cu	n	0.18984703	0.18984703	mg/L	8980.83737668	0.00541553	2.85257403	241.45186746	2.69	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.1841423
Fe 259.940	Fe	no	53.55209464	53.55209464	mg/L	3635030.92674521	1.54442657	2.88397043	104826.50008686	2.88	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	51.886875
K 766.491	K-R	n	3.16147969	3.16147969	mg/L	5789.54110519	0.02183989	0.69081213	39.99216845	0.69	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	3.1689670
Li 670.783	Li-R	n	0.00517799	0.00517799	mg/L	741.48207176	0.00047703	9.21260370	63.40133663	8.55	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.0051137
Mg 279.800	Mg-R	n	6.69036573	6.69036573	mg/L	19952.47553515	0.01081688	0.16167844	31.99796007	0.16	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	6.6807041
Mn 257.610	Mn	n	0.52992587	0.52992587	mg/L	250703.91929838	0.01488040	2.80801452	7035.85047755	2.81	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.5139385
Mo 204.598	Mo	n	0.00409996	0.00409996	mg/L	49.66234360	0.00097956	23.89203023	9.89210499	19.92	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.0033995
Na 589.592	Na-R	n	6.39157216	6.39157216	mg/L	85440.18774915	0.00519313	0.08124964	69.19827223	0.08	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	6.3855905
Ni 231.604	Ni	n	0.11971495	0.11971495	mg/L	3162.63378260	0.00341225	2.85031300	87.60404847	2.77	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.1160896
P 177.434	P	n	0.38221712	0.38221712	mg/L	220.44557299	0.01009799	2.64195195	5.74848271	2.61		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.3705766
Pb 220.353	Pb	n	0.53181181	0.53181181	mg/L	5476.34613496	0.01178880	2.21672419	121.68133315	2.22	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.5190296
S 181.972	S	n	3.47867628	3.47867628	mg/L	5881.09268147	0.02355744	0.67719559	39.06221056	0.66		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	3.4555494
Sb 206.834	Sb	nu	-0.01436264	-0.01436264	mg/L	-113.68517778	0.00177260	12.34175464	5.95123052	5.23	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.015492
Se 196.026	Se	n	0.01341228	0.01341228	mg/L	100.85934865	0.00177994	13.27098401	6.63398649	6.58	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.0142406
Si 251.611	Si	no	13.95680249	13.95680249	mg/L	130369.89705736	0.26311545	1.88521294	2441.75049492	1.87		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	13.671476
Sn 189.925	Sn	n	0.04977145	0.04977145	mg/L	593.38209217	0.00205165	4.12215083	23.27117402	3.92	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.0474432
Sr 421.552	Sr-R	n	0.04474006	0.04474006	mg/L	26926.88225541	0.00016558	0.37009426	97.55087952	0.36	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.0445821
Ti 334.941	Ti	n	0.24062828	0.24062828	mg/L	93691.72424986	0.00725902	3.01669432	2815.19362331	3.00	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.2333775
Tl 190.794	Tl	nu	-0.00607432	-0.00607432	mg/L	-27.78951827	0.00046868	7.71578805	1.58100806	5.69	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.005831
V 292.401	V	n	0.00578846	0.00578846	mg/L	178.92721977	0.00055587	9.60309386	22.35930712	12.50	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.0051714
Zn 206.200	Zn	n	2.37767839	2.37767839	mg/L	138605.53073691	0.04847523	2.03876321	2808.80287853	2.03	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	2.3237855
Y 371.029	Y		0.94	0.94	Ratio	830675.32	0.03	3.46	28782.33	3.46		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.98	0.98	Ratio	249855.16	0.00	0.26	652.23	0.26		-	-	-	Fitted	-	-	0.98

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-010	Client ID: ARCH-C10W-DG-1.5 TO 2-230828-L-DUP-FB
Seqnum: 673348950022	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 08:55
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.3092	15	0.50		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	833487	-5.47

U=USE

Label: 491224-010,321361 Rack/Tube: 1:9 Type: Sample
 Date Time: 8/30/2023 8:55:41 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	0.00003141	0.00003141	mg/L	549.18954087	0.00014096	448.81798724	12.04506744	2.19		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.00012070
Al 396.152	Al	n	3.81748015	3.81748015	mg/L	157698.13572312	0.10311085	2.70101857	4224.35625854	2.68	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	3.70773639
As 188.980	As	n	0.03032782	0.03032782	mg/L	194.97535347	0.00182453	6.01602234	10.35767050	5.31	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.03012825
B 249.678	B	n	0.01447596	0.01447596	mg/L	854.52032461	0.00070339	4.85904121	29.79451711	3.49	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01525279
Ba 230.424	Ba	n	0.04719051	0.04719051	mg/L	5261.86052860	0.00121854	2.58217374	130.95238134	2.49	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.04589170
Be 313.107	Be	n	0.00077590	0.00077590	mg/L	2225.60385069	0.00002944	3.79470133	80.76113783	3.63	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00074467
Ca 317.933	Ca-R	n	24.02756543	24.02756543	mg/L	406958.80985940	0.04032158	0.16781386	679.37554033	0.17	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	24.06836330
Cd 214.439	Cd	nu	-0.00008216	-0.00008216	mg/L	151.45890402	0.00006755	82.21311562	14.29273092	9.44	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00013253
Co 230.786	Co	n	0.00410319	0.00410319	mg/L	322.51354651	0.00030075	7.32977034	13.41198094	4.16	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00403097
Cr 267.716	Cr	n	0.01421182	0.01421182	mg/L	1151.33651677	0.00024776	1.74336233	18.21420436	1.58	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.01394645
Cu 324.754	Cu	n	0.29692938	0.29692938	mg/L	13755.20296930	0.00665204	2.24027687	296.58193751	2.16	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.28954742
Fe 259.940	Fe	no	44.41648067	44.41648067	mg/L	3014958.08310531	1.14257752	2.57241795	77551.37383858	2.57	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	43.24018105
K 766.491	K-R	n	2.83318333	2.83318333	mg/L	5189.08983339	0.02051334	0.72403851	37.56305813	0.72	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	2.81726215
Li 670.783	Li-R	n	0.00444481	0.00444481	mg/L	638.41410356	0.00025056	5.63721035	33.30219389	5.22	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00441170
Mg 279.800	Mg-R	n	6.60425126	6.60425126	mg/L	19686.03339881	0.01558817	0.23603234	46.11215514	0.23	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	6.62146805
Mn 257.610	Mn	n	0.32387653	0.32387653	mg/L	153254.75384711	0.00716189	2.21130119	3386.33181619	2.21	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.31616679
Mo 204.598	Mo	n	0.00340462	0.00340462	mg/L	42.78079560	0.00102954	30.23966114	10.39681992	24.30	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00458338
Na 589.592	Na-R	n	6.54227187	6.54227187	mg/L	87508.30149899	0.01817667	0.27783416	242.20344677	0.28	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	6.55307706
Ni 231.604	Ni	n	0.09270615	0.09270615	mg/L	2467.88102849	0.00191269	2.06317348	49.10520794	1.99	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.09055813
P 177.434	P	n	0.38604254	0.38604254	mg/L	222.62216636	0.00703151	1.82143283	4.00282413	1.80		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.38267943
Pb 220.353	Pb	n	0.30917137	0.30917137	mg/L	3176.33690824	0.00628152	2.03172648	64.83639126	2.04	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.30225543
S 181.972	S	n	3.83833105	3.83833105	mg/L	6478.82997612	0.02097700	0.54651349	34.78339742	0.54		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	3.81574289
Sb 206.834	Sb	nu	-0.00908517	-0.00908517	mg/L	-97.91677962	0.00337307	37.12720075	11.32454559	11.57	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.01209013
Se 196.026	Se	n	0.01123576	0.01123576	mg/L	94.31675905	0.00285512	25.41100050	10.64126516	11.28	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.01046042
Si 251.611	Si	no	13.68779470	13.68779470	mg/L	127877.85755616	0.25751526	1.88134955	2389.77996678	1.87		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	13.41040771
Sn 189.925	Sn	n	0.07107483	0.07107483	mg/L	834.54581922	0.00242409	3.41062188	27.49562171	3.29	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.06839102
Sr 421.552	Sr-R	n	0.04204019	0.04204019	mg/L	25308.66591581	0.00016028	0.38125647	94.42873624	0.37	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.04208543
Ti 334.941	Ti	n	0.23646531	0.23646531	mg/L	92078.39816567	0.00722905	3.05712753	2803.56934590	3.04	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.22814552
Tl 190.794	Tl	nu	-0.00493464	-0.00493464	mg/L	-23.76079517	0.00038676	7.83774172	1.30467585	5.49	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.00488582
V 292.401	V	n	0.00456033	0.00456033	mg/L	138.30489297	0.00042351	9.28680183	17.03519909	12.32	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00409938
Zn 206.200	Zn	n	2.99993036	2.99993036	mg/L	174517.74226590	0.06245766	2.08197044	3618.98758646	2.07	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	2.93336070
Y 371.029	Y	0.95	0.95	Ratio	833487.00	0.03	2.76	22966.54	2.76			-	-	-	Fitted	-	-	0.92
Y 371.029	Y-R	0.98	0.98	Ratio	250955.53	0.00	0.34	864.92	0.34			-	-	-	Fitted	-	-	0.98

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-012	Client ID: ARCH-C9W-DG-2 TO 2.5-230828-L-FB
Seqnum: 673348950023	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 08:58
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.5090	25	0.50		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	827258	-6.17

U=USE

Label: 491224-012,321361 Rack/Tube: 1:7 Type: Sample
 Date Time: 8/30/2023 8:58:48 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	0.00006257	0.00006257	mg/L	551.22994108	0.00017850	285.26209707	15.25316918	2.77		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	-0.00004748
Al 396.152	Al	n	9.62899715	9.62899715	mg/L	395836.88040985	0.22611168	2.34823708	9263.58686065	2.34	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	9.39115779
As 188.980	As	n	0.01931980	0.01931980	mg/L	134.47416810	0.00148699	7.69671443	8.44149728	6.28	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.01765775
B 249.678	B	n	0.01787336	0.01787336	mg/L	999.97525240	0.00102856	5.75471221	43.56807125	4.36	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01906090
Ba 230.424	Ba	n	0.11044430	0.11044430	mg/L	12071.82092961	0.00255691	2.31510903	274.78184279	2.28	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.10779703
Be 313.107	Be	n	0.00201540	0.00201540	mg/L	5710.74102600	0.00006175	3.06388103	169.37663297	2.97	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00194793
Ca 317.933	Ca-R	n	49.30096984	49.30096984	mg/L	832781.79466984	0.13087441	0.26546010	2205.09365838	0.26	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	49.18827993
Cd 214.439	Cd	nu	-0.00016404	-0.00016404	mg/L	175.29596073	0.00004466	27.22697299	9.45081441	5.39	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00019737
Co 230.786	Co	n	0.01470889	0.01470889	mg/L	806.92406051	0.00039490	2.68474014	17.61016950	2.18	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.01438515
Cr 267.716	Cr	n	0.04805795	0.04805795	mg/L	3644.90134715	0.00078415	1.63167020	57.64616759	1.58	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.04729026
Cu 324.754	Cu	n	0.24002498	0.24002498	mg/L	11226.46144269	0.00437994	1.82478317	195.27989436	1.74	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.23538659
Fe 259.940	Fe	no	55.14867527	55.14867527	mg/L	3743425.51600523	1.00862788	1.82892495	68459.66830220	1.83	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	54.05920407
K 766.491	K-R	n	3.96795705	3.96795705	mg/L	7269.30553516	0.02429777	0.61234966	44.49293354	0.61	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	3.95284176
Li 670.783	Li-R	n	0.00945912	0.00945912	mg/L	1327.44286291	0.00060620	6.40862225	80.56946322	6.07	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00998735
Mg 279.800	Mg-R	n	12.46450434	12.46450434	mg/L	37038.65821503	0.03513173	0.28185424	103.92497286	0.28	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	12.42416363
Mn 257.610	Mn	n	0.81461681	0.81461681	mg/L	385335.89060531	0.01496465	1.83701732	7075.68934075	1.84	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.79923136
Mo 204.598	Mo	n	0.00442920	0.00442920	mg/L	54.18833586	0.00114469	25.84428140	11.55966624	21.33	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00348438
Na 589.592	Na-R	n	7.76792946	7.76792946	mg/L	103785.93002384	0.00901610	0.11606826	120.13923006	0.12	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	7.76119498
Ni 231.604	Ni	n	0.10272488	0.10272488	mg/L	2727.29855914	0.00236417	2.30145380	60.69615154	2.23	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.10053013
P 177.434	P	n	0.37480017	0.37480017	mg/L	216.40364449	0.00246951	0.65888833	1.40582018	0.65		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.37702105
Pb 220.353	Pb	n	0.50901695	0.50901695	mg/L	5225.53975034	0.00829549	1.62970837	85.62418774	1.64	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.50098733
S 181.972	S	n	4.20474087	4.20474087	mg/L	7085.64183559	0.01363069	0.32417431	22.60198130	0.32		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	4.19449728
Sb 206.834	Sb	nu	-0.01094568	-0.01094568	mg/L	-102.45890601	0.00273602	24.99633961	9.18574775	8.97	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.01151734
Se 196.026	Se	n	0.01076221	0.01076221	mg/L	92.81069938	0.00130634	12.13821257	4.86883431	5.25	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.01173696
Si 251.611	Si	no	30.15785138	30.15785138	mg/L	280718.87374970	0.00797943	0.02645887	74.05026099	0.03		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	30.15405393
Sn 189.925	Sn	n	0.04830180	0.04830180	mg/L	577.97486777	0.00030889	0.63949728	3.50361326	0.61	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.04797530
Sr 421.552	Sr-R	n	0.08602508	0.08602508	mg/L	51487.29152325	0.00005849	0.06799719	34.46182384	0.07	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.08597694
Ti 334.941	Ti	n	0.59402268	0.59402268	mg/L	230760.29156915	0.01368448	2.30369585	5307.11469178	2.30	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.57913862
Tl 190.794	Tl	nu	-0.00294065	-0.00294065	mg/L	-16.95375784	0.00044258	15.05038226	1.49295613	8.81	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.00243748
V 292.401	V	n	0.01016071	0.01016071	mg/L	352.99557847	0.00025929	2.55187249	10.42958989	2.95	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00986179
Zn 206.200	Zn	n	1.49596844	1.49596844	mg/L	87506.54486398	0.01918134	1.28220206	1111.42526390	1.27	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	1.47532659
Y 371.029	Y		0.94	0.94	Ratio	827258.13	0.03	2.79	23096.37	2.79		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.97	0.97	Ratio	249023.86	0.00	0.38	934.73	0.38		-	-	-	Fitted	-	-	0.98

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-015	Client ID: ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-L-LA
Seqnum: 673348950024	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 09:01
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.6337	32	0.50		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	830811	-5.77

U=USE

Label: 491224-015,321361 Rack/Tube: 1:10 Type: Sample
 Date Time: 8/30/2023 9:01:55 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00024044	0.00024044	mg/L	567.02884041	0.00010160	42.25417540	8.68158441	1.53		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.00035216
Al 396.152	Al	n	2.20042936	2.20042936	mg/L	91436.54696164	0.08003360	3.63718099	3278.90264047	3.59	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	2.11384433
As 188.980	As	n	0.02654513	0.02654513	mg/L	173.08471170	0.00057205	2.15500563	3.24746777	1.88	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.02634267
B 249.678	B	n	0.01302748	0.01302748	mg/L	792.48150051	0.00055146	4.23302656	23.35875841	2.95	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01350861
Ba 230.424	Ba	n	0.03048794	0.03048794	mg/L	3463.77044943	0.00120497	3.95227112	129.49354014	3.74	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.02923005
Be 313.107	Be	n	0.00039477	0.00039477	mg/L	1156.05173575	0.00001970	4.99129270	54.04721797	4.68	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00037314
Ca 317.933	Ca-R	n	16.87701127	16.87701127	mg/L	286479.29757159	0.03378060	0.20015749	569.16700411	0.20	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	16.84163473
Cd 214.439	Cd	nu	-0.00007511	-0.00007511	mg/L	144.60978719	0.00006611	88.01402048	13.98851309	9.67	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00013224
Co 230.786	Co	n	0.00536974	0.00536974	mg/L	376.65360267	0.00044246	8.23982605	19.73115522	5.24	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00494850
Cr 267.716	Cr	n	0.02400584	0.02400584	mg/L	1869.81024296	0.00071857	2.99333110	52.82561826	2.83	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.02320830
Cu 324.754	Cu	n	0.79718156	0.79718156	mg/L	36056.57818523	0.03055013	3.83226708	1362.08071286	3.78	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.76351536
Fe 259.940	Fe	no	42.17640678	42.17640678	mg/L	2862906.74560149	1.34764397	3.19525553	91470.06606274	3.20	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	40.70544850
K 766.491	K-R	n	2.66579104	2.66579104	mg/L	4881.83562575	0.01289065	0.48355807	23.60474653	0.48	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	2.66639901
Li 670.783	Li-R	n	0.00343457	0.00343457	mg/L	498.25887094	0.00061841	18.00555812	82.19282524	16.50	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00291675
Mg 279.800	Mg-R	n	4.91498879	4.91498879	mg/L	14685.33437927	0.01944151	0.39555545	57.51090888	0.39	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	4.90290914
Mn 257.610	Mn	n	0.30689365	0.30689365	mg/L	145214.19705114	0.00926147	3.01780950	4379.06969035	3.02	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.29706375
Mo 204.598	Mo	n	0.00205599	0.00205599	mg/L	28.84240684	0.00086656	42.14820993	8.75096207	30.34	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00213666
Na 589.592	Na-R	n	5.89486150	5.89486150	mg/L	78890.46071648	0.00826074	0.14013454	110.07403376	0.14	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	5.88549091
Ni 231.604	Ni	n	0.05491362	0.05491362	mg/L	1497.13670624	0.00146618	2.66997375	37.64179355	2.51	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.05354924
P 177.434	P	n	0.34763547	0.34763547	mg/L	200.70632750	0.01156869	3.32782178	6.58570578	3.28		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.33430581
Pb 220.353	Pb	n	0.63373731	0.63373731	mg/L	6530.52208705	0.01745798	2.75476554	180.19728451	2.76	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.61481175
S 181.972	S	n	3.68258794	3.68258794	mg/L	6220.64783414	0.03900255	1.05910705	64.67279997	1.04		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	3.63928735
Sb 206.834	Sb	nu	-0.00565520	-0.00565520	mg/L	-86.67510934	0.00195232	34.52255840	6.55460027	7.56	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.00767652
Se 196.026	Se	n	0.00966082	0.00966082	mg/L	88.19321383	0.00231024	23.91348635	8.61044658	9.76	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.00813987
Si 251.611	Si	n	8.21003108	8.21003108	mg/L	77043.93126512	0.26477550	3.22502438	2457.15607995	3.19		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	7.91315244
Sn 189.925	Sn	n	0.07124257	0.07124257	mg/L	836.00628570	0.00240413	3.37456227	27.26912449	3.26	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.06904195
Sr 421.552	Sr-R	n	0.02985488	0.02985488	mg/L	18055.91292377	0.00011964	0.40075387	70.48801251	0.39	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.02971683
Ti 334.941	Ti	n	0.13607583	0.13607583	mg/L	53141.19922701	0.00571966	4.20328890	2218.19909992	4.17	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.12967182
Tl 190.794	Tl	nu	-0.00451627	-0.00451627	mg/L	-22.39374697	0.00035395	7.83719847	1.19397987	5.33	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.00433508
V 292.401	V	n	0.00361023	0.00361023	mg/L	102.15733381	0.00035094	9.72074313	14.11622120	13.82	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00321030
Zn 206.200	Zn	n	1.74152676	1.74152676	mg/L	101579.80471742	0.04980366	2.85976990	2885.77591874	2.84	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	1.68474920
Y 371.029	Y		0.94	0.94	Ratio	830811.13	0.03	2.68	22288.59	2.68		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.99	0.99	Ratio	252030.66	0.01	0.59	1475.01	0.59		-	-	-	Fitted	-	-	0.99

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-017	Client ID: ARCH-C11W-INT-1.5 TO 2.5-230828-L-WF
Seqnum: 673348950027	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 09:11
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.991	100	0.50		U

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	832592	-5.57

U=USE

Label: 491224-017,321361 Rack/Tube: 1:11 Type: Sample
 Date Time: 8/30/2023 9:11:17 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	-0.00015059	-0.00015059	mg/L	534.02607486	0.00015043	99.89885777	12.85497754	2.41		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	-0.00005623
Al 396.152	Al	n	3.06357827	3.06357827	mg/L	126805.65192101	0.09552778	3.11817650	3913.68487114	3.09	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	2.96186433
As 188.980	As	n	0.02159729	0.02159729	mg/L	144.90998369	0.00186818	8.65006699	10.60547707	7.32	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.01980494
B 249.678	B	n	0.01447929	0.01447929	mg/L	854.91678020	0.00021410	1.47863412	9.06872980	1.06	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01423219
Ba 230.424	Ba	n	0.03964945	0.03964945	mg/L	4449.39452775	0.00135791	3.42480067	145.93038013	3.28	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.03818081
Be 313.107	Be	n	0.00058749	0.00058749	mg/L	1697.99345982	0.00001601	2.72543185	43.91901052	2.59	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00056963
Ca 317.933	Ca-R	n	21.31607766	21.31607766	mg/L	361277.79866262	0.03943271	0.18499047	664.39900397	0.18	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	21.27633077
Cd 214.439	Cd	nu	-0.00001631	-0.00001631	mg/L	154.65498836	0.00002919	178.95631017	6.17678879	3.99	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00003506
Co 230.786	Co	n	0.00755900	0.00755900	mg/L	473.69430759	0.00040349	5.33793436	17.99364092	3.80	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00711029
Cr 267.716	Cr	n	0.01337115	0.01337115	mg/L	1088.93159603	0.00031441	2.35138091	23.11344645	2.12	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.01301377
Cu 324.754	Cu	n	0.13249772	0.13249772	mg/L	6423.15941741	0.00336424	2.53908902	149.99479078	2.34	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.12879176
Fe 259.940	Fe	no	41.52103273	41.52103273	mg/L	2818428.42949488	1.15483664	2.78132928	78383.45023619	2.78	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	40.26856747
K 766.491	K-R	n	2.75265199	2.75265199	mg/L	5041.51532236	0.01337624	0.48594023	24.49394637	0.49	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	2.74223277
Li 670.783	Li-R	n	0.00374686	0.00374686	mg/L	542.07629750	0.00042116	11.24031410	55.97594437	10.33	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00334449
Mg 279.800	Mg-R	n	5.68871209	5.68871209	mg/L	16973.48593171	0.00748985	0.13166168	22.15611841	0.13	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	5.69195225
Mn 257.610	Mn	n	0.38551985	0.38551985	mg/L	182391.66046608	0.00988736	2.56468136	4675.00732399	2.56	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.37493351
Mo 204.598	Mo	n	0.00562986	0.00562986	mg/L	65.15161349	0.00011314	2.00967888	1.14256130	1.75	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00558739
Na 589.592	Na-R	n	7.11169563	7.11169563	mg/L	95113.56728875	0.02007490	0.28228013	267.49740040	0.28	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	7.09209878
Ni 231.604	Ni	n	0.02504619	0.02504619	mg/L	730.29966838	0.00037706	1.50547703	9.68052628	1.33	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.02461090
P 177.434	P	n	0.32537837	0.32537837	mg/L	188.06599482	0.00789270	2.42569788	4.49307394	2.39		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.31726944
Pb 220.353	Pb	n	1.99087035	1.99087035	mg/L	20535.83476465	0.03994827	2.00657321	412.33700233	2.01	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	1.94673501
S 181.972	S	n	4.09839769	4.09839769	mg/L	6910.41895018	0.03941095	0.96161842	65.34999401	0.95		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	4.05459474
Sb 206.834	Sb	nu	-0.00961911	-0.00961911	mg/L	-100.26261908	0.00320934	33.36421918	10.77485595	10.75	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.00990667
Se 196.026	Se	n	0.01007696	0.01007696	mg/L	90.29885037	0.00035255	3.49856918	1.31397987	1.46	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.00988874
Si 251.611	Si	no	10.96598251	10.96598251	mg/L	102620.27838432	0.20667424	1.88468510	1917.96768474	1.87		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	10.76290453
Sn 189.925	Sn	n	0.06453202	0.06453202	mg/L	760.01568955	0.00229066	3.54965353	25.98216862	3.42	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.06209707
Sr 421.552	Sr-R	n	0.03633580	0.03633580	mg/L	21918.76980680	0.00012549	0.34536279	73.93200449	0.34	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.03619620
Ti 334.941	Ti	n	0.18595200	0.18595200	mg/L	72486.98092159	0.00551903	2.96798672	2140.39099559	2.95	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.18027282
Tl 190.794	Tl	nu	-0.00600180	-0.00600180	mg/L	-27.33175066	0.00128377	21.38975677	4.33055804	15.84	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.00487364
V 292.401	V	n	0.00401727	0.00401727	mg/L	119.27879613	0.00054191	13.48939458	21.79757500	18.27	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00342264
Zn 206.200	Zn	n	9.53341955	9.53341955	mg/L	553045.08112638	0.23078461	2.42079575	13372.36478930	2.42	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	9.27368278
Y 371.029	Y		0.94	0.94	Ratio	832592.04	0.03	2.90	24140.80	2.90		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.99	0.99	Ratio	252427.59	0.00	0.14	365.26	0.14		-	-	-	Fitted	-	-	0.99

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-019	Client ID: ARCH-C8W-PS-2.5-230828-L-G
Seqnum: 673348950028	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 09:14
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.11 ft2 ⇒ 50.0 ml = 45.03 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.8187	37	0.50		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	834099	-5.40

U=USE

Label: 491224-019,321361 Rack/Tube: 1:12 Type: Sample
 Date Time: 8/30/2023 9:14:24 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00023314	0.00023314	mg/L	563.58264627	0.00004490	19.25825355	3.83667838	0.68		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.00019132
Al 396.152	Al	n	3.22845732	3.22845732	mg/L	133569.46909672	0.06368435	1.97259379	2609.08897256	1.95	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	3.16147041
As 188.980	As	n	0.02139841	0.02139841	mg/L	146.21544434	0.00029250	1.36693101	1.66050278	1.14	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.02125426
B 249.678	B	n	0.01289008	0.01289008	mg/L	783.57894186	0.00059405	4.60855317	25.16278478	3.21	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01298420
Ba 230.424	Ba	n	0.04091855	0.04091855	mg/L	4591.65982506	0.00078931	1.92898370	84.82464046	1.85	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.04000743
Be 313.107	Be	n	0.00062968	0.00062968	mg/L	1814.39818457	0.00001437	2.28202783	39.41473815	2.17	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00061365
Ca 317.933	Ca-R	n	22.29807390	22.29807390	mg/L	377786.15830616	0.15055343	0.67518579	2536.66408767	0.67	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	22.47185956
Cd 214.439	Cd	nu	-0.00015060	-0.00015060	mg/L	180.74905870	0.00005089	33.79438272	10.76880889	5.96	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00016013
Co 230.786	Co	n	0.00717941	0.00717941	mg/L	471.57850966	0.00008598	1.19753684	3.83406015	0.81	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00710278
Cr 267.716	Cr	n	0.01737697	0.01737697	mg/L	1383.30929093	0.00033123	1.90613811	24.35012727	1.76	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.01710364
Cu 324.754	Cu	n	0.43960859	0.43960859	mg/L	20114.73529003	0.00621197	1.41306805	276.96129085	1.38	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.43316736
Fe 259.940	Fe	no	59.45932308	59.45932308	mg/L	4035974.23995951	0.85130232	1.43173900	57781.34361675	1.43	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	58.55074636
K 766.491	K-R	n	2.98498276	2.98498276	mg/L	5465.45980699	0.02669603	0.89434468	48.88451975	0.89	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	3.01467846
Li 670.783	Li-R	n	0.00390822	0.00390822	mg/L	572.03931432	0.00063768	16.31649422	84.75415786	14.82	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00319271
Mg 279.800	Mg-R	n	6.01381429	6.01381429	mg/L	17955.59532487	0.05845538	0.97201833	172.91982826	0.96	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	6.08022421
Mn 257.610	Mn	n	0.48478434	0.48478434	mg/L	229366.39021047	0.00725129	1.49577624	3428.60417883	1.49	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.47680491
Mo 204.598	Mo	n	0.00306323	0.00306323	mg/L	38.92450884	0.00125000	40.80670116	12.62310889	32.43	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00250388
Na 589.592	Na-R	n	6.54739068	6.54739068	mg/L	87487.93332913	0.01462258	0.22333453	194.84543266	0.22	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	6.53526819
Ni 231.604	Ni	n	0.02605310	0.02605310	mg/L	758.49636467	0.00036197	1.38937054	9.29310088	1.23	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.02572225
P 177.434	P	n	0.31354225	0.31354225	mg/L	181.32083243	0.00485691	1.54904351	2.76489003	1.52		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.30852047
Pb 220.353	Pb	n	0.81865738	0.81865738	mg/L	8440.41524978	0.00964301	1.17790565	99.53298064	1.18	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.80799776
S 181.972	S	n	4.26624662	4.26624662	mg/L	7186.27511374	0.00306580	0.07186178	5.08361440	0.07		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	4.26394003
Sb 206.834	Sb	nu	-0.00354915	-0.00354915	mg/L	-76.47227881	0.00458497	129.18498124	15.39329401	20.13	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.00315185
Se 196.026	Se	n	0.00572404	0.00572404	mg/L	71.10040218	0.00126512	22.10197720	4.71522366	6.63	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.00620937
Si 251.611	Si	no	11.39667656	11.39667656	mg/L	106609.40275843	0.07273383	0.63820211	674.98077255	0.63		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	11.32906330
Sn 189.925	Sn	n	0.04810396	0.04810396	mg/L	574.50988309	0.00036185	0.75222964	4.10435994	0.71	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.04769105
Sr 421.552	Sr-R	n	0.03776186	0.03776186	mg/L	22773.76066640	0.00016588	0.43927182	97.72574954	0.43	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.03759954
Ti 334.941	Ti	n	0.19493960	0.19493960	mg/L	75969.43394110	0.00367440	1.88489021	1425.00517864	1.88	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.19161707
Tl 190.794	Tl	nu	-0.00270218	-0.00270218	mg/L	-16.55195963	0.00053919	19.95395956	1.81885807	10.99	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.00224895
V 292.401	V	n	0.00775527	0.00775527	mg/L	254.48602779	0.00051323	6.61781763	20.64409819	8.11	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00763674
Zn 206.200	Zn	n	2.20523232	2.20523232	mg/L	128681.39039109	0.02372896	1.07602992	1374.92831789	1.07	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	2.18005277
Y 371.029	Y		0.95	0.95	Ratio	834099.10	0.02	2.39	19951.54	2.39		-	-	-	Fitted	-	-	0.92
Y 371.029	Y-R		0.99	0.99	Ratio	251660.47	0.00	0.46	1167.06	0.46		-	-	-	Fitted	-	-	0.99

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-022	Client ID: ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-L-LA
Seqnum: 673348950029	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 09:17
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.01 ft2 ⇒ 50.0 ml = 49.50 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.7561	37	0.50		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	835958	-5.19

U=USE

Label: 491224-022,321361 Rack: Tube: 1:13 Type: Sample
 Date Time: 8/30/2023 9:17:31 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nu	-0.00005471	-0.00005471	mg/L	534.96912929	0.00012179	222.61480612	10.40753107	1.95		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	-0.0001589
Al 396.152	Al	n	2.61479124	2.61479124	mg/L	108431.08512359	0.04732204	1.80978260	1938.74016743	1.79	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	2.56335451
As 188.980	As	n	0.03837951	0.03837951	mg/L	245.43624061	0.00115196	3.00150461	6.53958084	2.66	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.03737776
B 249.678	B	n	0.01418821	0.01418821	mg/L	833.09133275	0.00031542	2.22308522	13.36048501	1.60	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.0139685C
Ba 230.424	Ba	n	0.03766549	0.03766549	mg/L	4247.59527442	0.00091319	2.42447920	98.13758435	2.31	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.03665871
Be 313.107	Be	n	0.00049763	0.00049763	mg/L	1440.92735754	0.00002523	5.07023284	69.20708036	4.80	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00047061
Ca 317.933	Ca-R	n	18.77093866	18.77093866	mg/L	318311.28160423	0.08164538	0.43495631	1375.63729454	0.43	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	18.7356156
Cd 214.439	Cd	nu	-0.00009988	-0.00009988	mg/L	255.25436323	0.00005089	50.95410274	10.76849056	4.22	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.0001429
Co 230.786	Co	n	0.00927432	0.00927432	mg/L	582.24643189	0.00053464	5.76475913	23.84209866	4.09	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00867656
Cr 267.716	Cr	n	0.06336237	0.06336237	mg/L	4762.87398547	0.00087596	1.38245525	64.39547686	1.35	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.0624304C
Cu 324.754	Cu	n	0.40532226	0.40532226	mg/L	18583.35384278	0.00639343	1.57736893	285.05165299	1.53	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.39841517
Fe 259.940	Fe	no	79.67493651	79.67493651	mg/L	5408086.37093613	1.66861300	2.09427591	113255.53693940	2.09	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	77.8049756
K 766.491	K-R	n	2.59084672	2.59084672	mg/L	4741.46029408	0.05290730	2.04208533	96.88135497	2.04	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	2.61038632
Li 670.783	Li-R	n	0.00285566	0.00285566	mg/L	439.33797775	0.00051934	18.18625992	69.02476819	15.71	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00244307
Mg 279.800	Mg-R	n	5.40817880	5.40817880	mg/L	16187.68567914	0.02288362	0.42312984	67.69319630	0.42	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	5.39967827
Mn 257.610	Mn	n	0.49358362	0.49358362	mg/L	233570.84495193	0.00640503	1.29765800	3028.46891136	1.30	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.4866924C
Mo 204.598	Mo	n	0.00278970	0.00278970	mg/L	35.61704936	0.00071125	25.49576810	7.18257981	20.17	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00353164
Na 589.592	Na-R	n	6.71702056	6.71702056	mg/L	89620.03707093	0.02123316	0.31610984	282.93116768	0.32	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	6.70027786
Ni 231.604	Ni	n	0.10863726	0.10863726	mg/L	2881.39833868	0.00208389	1.91820866	53.50050559	1.86	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.10627056
P 177.434	P	n	0.37929138	0.37929138	mg/L	218.71453422	0.01279846	3.37430836	7.28577790	3.33		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.36591536
Pb 220.353	Pb	n	0.75610724	0.75610724	mg/L	7801.58666921	0.00981255	1.29777256	101.28294099	1.30	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.74510907
S 181.972	S	n	3.93277229	3.93277229	mg/L	6630.28629885	0.00969747	0.24658106	16.08004235	0.24		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	3.93876167
Sb 206.834	Sb	nu	-0.00583695	-0.00583695	mg/L	-80.05178503	0.00184596	31.62548490	6.19752568	7.74	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.0070567
Se 196.026	Se	n	0.01079871	0.01079871	mg/L	86.10734014	0.00162040	15.00546684	6.03935154	7.01	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.01131722
Si 251.611	Si	n	9.56160367	9.56160367	mg/L	89570.23303716	0.11764155	1.23035380	1091.73112785	1.22		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	9.42656322
Sn 189.925	Sn	n	0.06692857	0.06692857	mg/L	788.87368510	0.00106510	1.59139506	12.08102343	1.53	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.06572113
Sr 421.552	Sr-R	n	0.03260935	0.03260935	mg/L	19708.72677460	0.00022059	0.67644718	129.95657102	0.66	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.03240846
Ti 334.941	Ti	n	0.15450683	0.15450683	mg/L	60282.67170770	0.00270163	1.74855334	1047.74804200	1.74	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.1513886C
Tl 190.794	Tl	nu	-0.00482265	-0.00482265	mg/L	-24.17390196	0.00067335	13.96220484	2.27141144	9.40	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.0046482
V 292.401	V	n	0.00351702	0.00351702	mg/L	66.27103553	0.00030801	8.75757422	12.38921154	18.69	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00383206
Zn 206.200	Zn	n	2.00012773	2.00012773	mg/L	117103.33305782	0.02772086	1.38595425	1606.23093912	1.37	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	1.96816712
Y 371.029	Y	0.95	0.95	Ratio	835957.62	0.02	2.31	19327.86	2.31			-	-	-	Fitted	-	-	0.92
Y 371.029	Y-R	0.99	0.99	Ratio	253184.21	0.00	0.23	573.71	0.23			-	-	-	Fitted	-	-	0.99

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst: MET09	Lab ID: 491224-024	Client ID: ARCH-C10W-PS-2.5-230828-L-G
Seqnum: 673348950030	Matrix: Wipe	Acct: RINCON-BERK (JG)
File: icp data	Batch: 321361	Time: 30-AUG-2023 09:20
Cal: 673348950001	Caldate: 30-AUG-2023	
IDF: 1.0	Raw Units: mg/L	Units: ug/ft2

- 1.11 ft2 ⇒ 50.0 ml = 45.03 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.9078	41	0.50		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	881675	838317	-4.92

U=USE

Label: 491224-024,321361 Rack/Tube: 1:14 Type: Sample
 Date Time: 8/30/2023 9:20:38 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.00049659	0.00049659	mg/L	581.17255741	0.00006149	12.38191064	5.25425413	0.90		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.00054763
Al 396.152	Al	n	4.29930273	4.29930273	mg/L	177462.55252950	0.08451519	1.96578836	3462.50942338	1.95	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	4.20648118
As 188.980	As	n	0.02839235	0.02839235	mg/L	189.84184687	0.00085504	3.01151159	4.85397281	2.56	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.02761366
B 249.678	B	n	0.01403570	0.01403570	mg/L	826.42617203	0.00033373	2.37769939	14.13609452	1.71	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01389200
Ba 230.424	Ba	n	0.05514941	0.05514941	mg/L	6131.77479624	0.00117104	2.12339826	125.84778242	2.05	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.05392601
Be 313.107	Be	n	0.00085205	0.00085205	mg/L	2438.74459311	0.00002644	3.10355828	72.53483705	2.97	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00082197
Ca 317.933	Ca-R	n	28.49401435	28.49401435	mg/L	482124.77283636	0.07886667	0.27678327	1328.81890927	0.28	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	28.56806089
Cd 214.439	Cd	n	0.00004366	0.00004366	mg/L	309.25198806	0.00002481	56.81138484	5.24873463	1.70	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.00005284
Co 230.786	Co	n	0.01262321	0.01262321	mg/L	738.16053725	0.00060186	4.76789039	26.83969559	3.64	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.01204710
Cr 267.716	Cr	n	0.03190974	0.03190974	mg/L	2452.43965212	0.00057522	1.80265265	42.28712467	1.72	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.03124767
Cu 324.754	Cu	n	0.68823041	0.68823041	mg/L	31199.53183109	0.01013382	1.47244602	451.81752683	1.45	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.67694737
Fe 259.940	Fe	no	86.06621806	86.06621806	mg/L	5841898.77730935	1.40023583	1.62692850	95039.68943189	1.63	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	84.49258668
K 766.491	K-R	n	3.43209479	3.43209479	mg/L	6282.36649085	0.01912477	0.55723317	35.02037838	0.56	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	3.42099796
Li 670.783	Li-R	n	0.00389036	0.00389036	mg/L	586.02855964	0.00073351	18.85467310	97.49086821	16.64	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00304371
Mg 279.800	Mg-R	n	7.27964371	7.27964371	mg/L	21733.08650992	0.00888816	0.12209605	26.29251107	0.12	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	7.26866161
Mn 257.610	Mn	n	0.67811790	0.67811790	mg/L	320846.17837219	0.00988392	1.45755243	4673.38467405	1.46	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.66716133
Mo 204.598	Mo	n	0.00340926	0.00340926	mg/L	42.12960663	0.00099425	29.16307885	10.04035665	23.83	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00441670
Na 589.592	Na-R	n	8.09312462	8.09312462	mg/L	107918.51679512	0.02037161	0.25171502	271.45099949	0.25	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	8.11429618
Ni 231.604	Ni	n	0.05619248	0.05619248	mg/L	1536.10084580	0.00057623	1.02545010	14.79367077	0.96	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.05553017
P 177.434	P	n	0.36723231	0.36723231	mg/L	211.90298488	0.00710171	1.93384592	4.04278769	1.91		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.36274507
Pb 220.353	Pb	n	0.90781699	0.90781699	mg/L	9364.44552429	0.01266325	1.39491165	130.70714612	1.40	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.89352511
S 181.972	S	n	4.86445115	4.86445115	mg/L	8174.42783991	0.01381771	0.28405488	22.91209368	0.28		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	4.84856514
Sb 206.834	Sb	nu	-0.00421297	-0.00421297	mg/L	-73.35723923	0.00355504	84.38314390	11.93546762	16.27	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.00831797
Se 196.026	Se	n	0.01005370	0.01005370	mg/L	82.89801994	0.00079642	7.92167911	2.96832794	3.58	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.01023907
Si 251.611	Si	no	12.88718947	12.88718947	mg/L	120429.47391695	0.08065539	0.62585713	748.49405667	0.62		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	12.95240157
Sn 189.925	Sn	n	0.05578079	0.05578079	mg/L	663.07565867	0.00132687	2.37872704	15.05023870	2.27	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.05451538
Sr 421.552	Sr-R	n	0.04814984	0.04814984	mg/L	28964.30014473	0.00006364	0.13216116	37.49047536	0.13	3.584443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.04822048
Ti 334.941	Ti	n	0.25283943	0.25283943	mg/L	98421.82818865	0.00487927	1.92979103	1892.27998023	1.92	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.24724939
Tl 190.794	Tl	nu	-0.00343240	-0.00343240	mg/L	-19.51948433	0.00074612	21.73756285	2.51689364	12.89	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	-0.00312627
V 292.401	V	n	0.00711640	0.00711640	mg/L	204.56322524	0.00043862	6.16352230	17.64304501	8.62	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00693015
Zn 206.200	Zn	n	2.82937673	2.82937673	mg/L	165243.56944325	0.04474131	1.58131333	2592.44810681	1.57	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	2.77994072
Y 371.029	Y		0.95	0.95	Ratio	838316.98	0.02	1.81	15136.35	1.81		-	-	-	Fitted	-	-	0.93
Y 371.029	Y-R		0.99	0.99	Ratio	253243.66	0.00	0.21	521.74	0.21		-	-	-	Fitted	-	-	0.99

ENTHALPY SPIKE USER REPORT FOR 491224 METALS Wipe
EPA 6010B

Type: BS	Type: BSD
Inst: MET09	Inst: MET09
Seqnum: 673348950015.1	Seqnum: 673348950016.1
File: icp data	File: icp data
IDF: 1.0	IDF: 1.0
Lab ID: QC1090213	Lab ID: QC1090214
Matrix: Wipe	Matrix: Wipe
Batch: 321361	Batch: 321361
Time: 30-AUG-2023 08:33	Time: 30-AUG-2023 08:36
Cal: 673348950001	Cal: 673348950001
Units: ug/ft2	

- BS: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF
- BSD: 1.00 ft2 ⇒ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Lead	50.00	0.9657	48.28	A	97	0.9828	49.14	A	98	80-120	2	20	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BS Abund	%Drift
Yttrium	A	881675	827643	-6.13

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BSD Abund	%Drift
Yttrium	A	881675	828155	-6.07

U=use

Label: BS, QC 1090213, 321361 Rack/Tube: 1:1 Type: Sample
 Date Time: 8/30/2023 8:33:51 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.46340505	0.46340505	mg/L	40153.12681530	0.00480907	1.03776732	410.94839164	1.02		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.45800098
Al 396.152	Al	n	0.92235481	0.92235481	mg/L	39031.94759698	0.02154996	2.33640649	882.88187052	2.26	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	0.89949849
As 188.980	As	n	0.89382481	0.89382481	mg/L	5090.71707372	0.01497483	1.67536562	85.01068661	1.67	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.87866992
B 249.678	B	n	0.89683596	0.89683596	mg/L	38236.62162366	0.01273679	1.42019200	539.50878690	1.41	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.88595684
Ba 230.424	Ba	n	1.04427750	1.04427750	mg/L	112394.83342488	0.02614704	2.50384023	2809.93200307	2.50	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	1.01599115
Be 313.107	Be	n	0.94861995	0.94861995	mg/L	2602082.12680724	0.03913022	4.12496263	107332.77200277	4.12	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.90451319
Ca 317.933	Ca-R	n	1.01720089	1.01720089	mg/L	19342.54792907	0.00564579	0.55503170	95.12547537	0.49	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	1.01563054
Cd 214.439	Cd	n	0.96765043	0.96765043	mg/L	204782.98573858	0.01365561	1.41121330	2889.47157331	1.41	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.95264697
Co 230.786	Co	n	0.99865949	0.99865949	mg/L	44636.64758355	0.02086293	2.08909296	930.37191524	2.08	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.97613343
Cr 267.716	Cr	n	0.94755360	0.94755360	mg/L	69762.03026305	0.02483518	2.62097889	1825.74518122	2.62	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.92116183
Cu 324.754	Cu	n	0.95390862	0.95390862	mg/L	43042.56041589	0.02117945	2.22028128	944.28828438	2.19	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.93111521
Fe 259.940	Fe	n	1.06591411	1.06591411	mg/L	72553.25134129	0.00223764	0.20992656	151.87749327	0.21	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	1.06336203
K 766.491	K-R	n	9.45834528	9.45834528	mg/L	17322.38736927	0.03097042	0.32744013	56.71156920	0.33	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	9.44811620
Li 670.783	Li-R	n	0.98949164	0.98949164	mg/L	131526.83980135	0.00595980	0.60230951	792.11251476	0.60	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.98386122
Mg 279.800	Mg-R	n	0.98614550	0.98614550	mg/L	3014.87034948	0.00612559	0.62116466	18.12041165	0.60	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	0.98208987
Mn 257.610	Mn	n	0.98537691	0.98537691	mg/L	465918.80915790	0.02555265	2.59318511	12081.97788476	2.59	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.95843904
Mo 204.598	Mo	n	0.98201047	0.98201047	mg/L	9925.30535087	0.03268323	3.32819568	330.05059953	3.33	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.94742731
Na 589.592	Na-R	n	1.46044756	1.46044756	mg/L	20045.26635279	0.00987320	0.67603907	131.55999692	0.66	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	1.45574052
Ni 231.604	Ni	n	0.96557150	0.96557150	mg/L	24871.20287159	0.02408040	2.49390163	618.22562089	2.49	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.93996731
P 177.434	P	n	0.02012197	0.02012197	mg/L	14.23459401	0.00378159	18.79334579	2.15274553	15.12		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.02388422
Pb 220.353	Pb	n	0.96568956	0.96568956	mg/L	9950.79067717	0.01609439	1.66662138	166.12263352	1.67	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.94826829
S 181.972	S	n	0.03078944	0.03078944	mg/L	171.00429754	0.00485168	15.75761390	8.04490556	4.70		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	0.03614683
Sb 206.834	Sb	n	0.92612574	0.92612574	mg/L	3033.70427540	0.01883628	2.03387888	63.23980797	2.08	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.90627844
Se 196.026	Se	n	0.82624548	0.82624548	mg/L	3137.58153951	0.01418999	1.71740557	52.88723151	1.69	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.81078596
Si 251.611	Si	n	4.63857688	4.63857688	mg/L	43918.20173846	0.11183529	2.41098278	1037.84813260	2.36		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	4.52904048
Sn 189.925	Sn	n	0.02325538	0.02325538	mg/L	289.68335329	0.00094470	4.06229645	10.71542101	3.70	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.02220520
Sr 421.552	Sr-R	n	1.00697571	1.00697571	mg/L	593552.14597423	0.00249629	0.24789989	1470.67787623	0.25	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	1.00663523
Ti 334.941	Ti	n	0.98284233	0.98284233	mg/L	381536.83049337	0.02874437	2.92461685	11147.64510949	2.92	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.95172104
Tl 190.794	Tl	n	1.02858585	1.02858585	mg/L	3463.25571965	0.02619105	2.54631597	88.35049652	2.55	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	1.00099296
V 292.401	V	n	0.95069865	0.95069865	mg/L	38234.04352842	0.02476843	2.60528675	996.28324631	2.61	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.92401287
Zn 206.200	Zn	n	0.97608866	0.97608866	mg/L	56651.16145485	0.01380906	1.41473442	800.13920239	1.41	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	0.96184167
Y 371.029	Y		0.94	0.94	Ratio	827643.06	0.03	3.72	30794.98	3.72		-	-	-	Fitted	-	-	0.90
Y 371.029	Y-R		0.98	0.98	Ratio	251317.86	0.00	0.47	1186.53	0.47		-	-	-	Fitted	-	-	0.99

Label: BSD, QC1090214, 321361 Rack: Tube: 1:2 Type: Sample
 Date Time: 8/30/2023 8:36:58 AM Weight: 1 Volume: 1
 Dilution: 1 %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: Customer: Customer Ref.:
 Sample Date Time: Sample Site: Description:
 Replicates: 3 Flags Replicate 1: Flags Replicate 2:
 Flags Replicate 3:

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	C _R
Ag 328.068	Ag	n	0.47140895	0.47140895	mg/L	40837.08452187	0.00768150	1.62947633	656.40580469	1.61		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.46266916	0.
Al 396.152	Al	n	0.93153465	0.93153465	mg/L	39408.09162975	0.02589582	2.77990992	1060.92801024	2.69	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	0.90384870	0.
As 188.980	As	n	0.91427750	0.91427750	mg/L	5206.82789619	0.01832146	2.00392775	104.00916598	2.00	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.89355107	0.
B 249.678	B	n	0.91157705	0.91157705	mg/L	38861.03303871	0.01896166	2.08009353	803.18333919	2.07	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.89050548	0.
Ba 230.424	Ba	n	1.06645225	1.06645225	mg/L	114777.89539960	0.03080766	2.88879836	3310.79217382	2.88	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	1.03257324	1.
Be 313.107	Be	n	0.96831313	0.96831313	mg/L	2656100.00414027	0.04593980	4.74431230	126011.20570185	4.74	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.91648809	0.
Ca 317.933	Ca-R	n	1.04552249	1.04552249	mg/L	19819.74568593	0.01082446	1.03531618	182.38062527	0.92	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	1.05258322	1.
Cd 214.439	Cd	n	0.98817010	0.98817010	mg/L	209124.91459503	0.01437753	1.45496524	3042.22685612	1.45	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.97168542	0.
Co 230.786	Co	n	1.01716515	1.01716515	mg/L	45461.91203606	0.02691147	2.64573293	1200.10395459	2.64	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.98671996	1.
Cr 267.716	Cr	n	0.96729100	0.96729100	mg/L	71213.02366290	0.02649848	2.73945319	1948.02212007	2.74	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.93840051	0.
Cu 324.754	Cu	n	0.97047977	0.97047977	mg/L	43781.40085967	0.02484051	2.55961089	1107.51666144	2.53	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.94303290	0.
Fe 259.940	Fe	n	1.02848157	1.02848157	mg/L	70012.61575433	0.02611932	2.53960040	1772.82441254	2.53	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	0.99967672	1.
K 766.491	K-R	n	9.70620548	9.70620548	mg/L	17776.26199501	0.07294055	0.75148364	133.56528981	0.75	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	9.75194704	9.
Li 670.783	Li-R	n	1.01384651	1.01384651	mg/L	134763.86342878	0.00546450	0.53898730	726.28281620	0.54	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	1.01785431	1.
Mg 279.800	Mg-R	n	1.01559263	1.01559263	mg/L	3102.00287890	0.01050041	1.03391940	31.06179513	1.00	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	1.02224854	1.
Mn 257.610	Mn	n	1.00258060	1.00258060	mg/L	474053.23992580	0.02474027	2.46765897	11697.86405440	2.47	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.97483980	1.
Mo 204.598	Mo	n	0.99843426	0.99843426	mg/L	10091.16282359	0.03597602	3.60324376	363.30273831	3.60	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.95994251	1.
Na 589.592	Na-R	n	1.49021118	1.49021118	mg/L	20441.81699056	0.01927509	1.29344668	256.83986878	1.26	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	1.50651141	1.
Ni 231.604	Ni	n	0.98589779	0.98589779	mg/L	25393.05103134	0.02569522	2.60627613	659.68340971	2.60	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.95765270	0.
P 177.434	P	n	0.02380223	0.02380223	mg/L	16.33003363	0.00226552	9.51812008	1.28969478	7.90		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.02385693	0.
Pb 220.353	Pb	n	0.98282620	0.98282620	mg/L	10127.63706211	0.01865544	1.89814223	192.55721621	1.90	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.96259919	0.
S 181.972	S	n	0.01782073	0.01782073	mg/L	149.49958778	0.00053386	2.99573905	0.88523392	0.59		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	0.01791050	0.
Sb 206.834	Sb	n	0.94536178	0.94536178	mg/L	3098.28726162	0.01783557	1.88663963	59.88009688	1.93	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.92727292	0.
Se 196.026	Se	n	0.84065326	0.84065326	mg/L	3191.28173790	0.01624573	1.93251278	60.54916361	1.90	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.82203023	0.
Si 251.611	Si	n	4.78692726	4.78692726	mg/L	45294.91273186	0.14477239	3.02432813	1343.50930218	2.97		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	4.63361616	4.
Sn 189.925	Sn	n	0.02198306	0.02198306	mg/L	275.25558150	0.00054607	2.48405580	6.19389220	2.25	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.02138061	0.
Sr 421.552	Sr-R	n	1.03336208	1.03336208	mg/L	609097.86008455	0.00537534	0.52017981	3166.85550513	0.52	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	1.03843143	1.
Ti 334.941	Ti	n	1.00461687	1.00461687	mg/L	389981.45954676	0.03056554	3.04250748	11853.93171367	3.04	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.97260289	1.
Tl 190.794	Tl	n	1.04823324	1.04823324	mg/L	3529.53271142	0.02898376	2.76501015	97.77117017	2.77	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	1.01660483	1.
V 292.401	V	n	0.96877821	0.96877821	mg/L	38961.26389480	0.02785151	2.87491136	1120.29716406	2.88	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.93848353	0.
Zn 206.200	Zn	n	0.99821498	0.99821498	mg/L	57933.35998156	0.01652104	1.65505865	957.27966676	1.65	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	0.97916591	1.
Y 371.029	Y		0.94	0.94	Ratio	828154.54	0.03	3.37	27939.30	3.37		-	-	-	Fitted	-	-	0.90	0.
Y 371.029	Y-R		0.97	0.97	Ratio	248566.57	0.01	1.03	2550.45	1.03		-	-	-	Fitted	-	-	0.97	0.

Instrument: MET09

Calibration #: 673348950001

Units: mg/L

Date: 30-AUG-2023 07:50

X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	icp data	673348950002	L1	30-AUG-2023 07:53	S18676
L2	icp data	673348950003	L2	30-AUG-2023 07:56	S18675
L3	icp data	673348950004	L3	30-AUG-2023 07:59	S18674
L4	icp data	673348950005	L4	30-AUG-2023 08:02	S18673
L5	icp data	673348950006	L5	30-AUG-2023 08:05	S18672
L6	icp data	673348950007	L6	30-AUG-2023 08:08	S18663

Analyte	Ch	Type	a0	a1	a2	Avg RF	r ²	%RSD	n	Min r ²	Flags
Lead	A	WB1K	0.00466	1.01E-4		7398.9	1.000		7	0.995	

$$\text{Instrument amount} = a0 + (\text{response} \times a1) + (\text{response}^2 \times a2)$$

WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	-2148	6253.2	10240	10295	9915.3	9838.0

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Lead	A	0.0033	18	0.0100	10	0.1000	8	1.0000	5	5.0000	1	10.000	0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09
Calnum: 673348950001

Cal Date: 30-AUG-2023

- ICV 673348950010 (30-AUG-2023) stds: S18803

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.020	mg/L	2	10	

Label: ICALBLK	Rack: Tube: S1:1	Type: BLK
Date Time: 8/30/2023 7:50:08 AM	Weight: -	Volume: -
Dilution: -	%RSE limit: -	Calibration Coefficient [3]: -
LIMS ID: -	Customer: -	Customer Ref.: -
Sample Date Time: -	Sample Site: -	Description: -
Replicates: 3	Flags Replicate 1: -	Flags Replicate 2: -
Flags Replicate 3: -		

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n	0.00000000	0.00000000	mg/L	553.75100543	-	-	12.62437512	2.28		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.00000000	0.00000000
Al 396.152	Al	n	0.00000000	0.00000000	mg/L	1151.18212212	-	-	25.37751450	2.20	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	0.00000000	0.00000000
As 188.980	As	n	0.00000000	0.00000000	mg/L	16.67327455	-	-	4.37842222	26.26	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.00000000	0.00000000
B 249.678	B	n	0.00000000	0.00000000	mg/L	323.02308876	-	-	14.39152118	4.46	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.00000000	0.00000000
Ba 230.424	Ba	n	0.00000000	0.00000000	mg/L	202.21337358	-	-	4.48391824	2.22	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.00000000	0.00000000
Be 313.107	Be	n	0.00000000	0.00000000	mg/L	43.05462618	-	-	8.65025260	20.09	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00000000	0.00000000
Ca 317.933	Ca-R	n	0.00000000	0.00000000	mg/L	1992.57361199	-	-	18.01770537	0.90	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	0.00000000	0.00000000
Cd 214.439	Cd	n	0.00000000	0.00000000	mg/L	23.21189500	-	-	8.67346790	37.37	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.00000000	0.00000000
Co 230.786	Co	n	0.00000000	0.00000000	mg/L	123.95449370	-	-	20.54745687	16.58	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00000000	0.00000000
Cr 267.716	Cr	n	0.00000000	0.00000000	mg/L	87.96315953	-	-	11.27272524	12.82	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.00000000	0.00000000
Cu 324.754	Cu	n	0.00000000	0.00000000	mg/L	550.04058645	-	-	6.03911832	1.10	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.00000000	0.00000000
Fe 259.940	Fe	n	0.00000000	0.00000000	mg/L	227.42469255	-	-	13.00626918	5.72	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	0.00000000	0.00000000
K 766.491	K-R	n	0.00000000	0.00000000	mg/L	110.07535454	-	-	21.71766268	19.73	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	0.00000000	0.00000000
Li 670.783	Li-R	n	0.00000000	0.00000000	mg/L	0.00000000	-	-	85.27146539	> 100.00	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00000000	0.00000000
Mg 279.800	Mg-R	n	0.00000000	0.00000000	mg/L	82.33975027	-	-	15.87656533	19.28	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	0.00000000	0.00000000
Mn 257.610	Mn	n	0.00000000	0.00000000	mg/L	-3.82266270	-	-	11.70144501	> 100.00	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.00000000	0.00000000
Mo 204.598	Mo	n	0.00000000	0.00000000	mg/L	16.93335027	-	-	4.72014309	27.87	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00000000	0.00000000
Na 589.592	Na-R	n	0.00000000	0.00000000	mg/L	566.60789407	-	-	15.11142516	2.67	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	0.00000000	0.00000000
Ni 231.604	Ni	n	0.00000000	0.00000000	mg/L	87.83517033	-	-	12.72980406	14.49	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.00000000	0.00000000
P 177.434	P	n	0.00000000	0.00000000	mg/L	2.75442697	-	-	2.06007528	74.79		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.00000000	0.00000000
Pb 220.353	Pb	n	0.00000000	0.00000000	mg/L	-46.66803068	-	-	7.92430218	16.98	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.00000000	0.00000000
S 181.972	S	n	0.00000000	0.00000000	mg/L	119.98854691	-	-	7.28381011	6.07		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	0.00000000	0.00000000
Sb 206.834	Sb	n	0.00000000	0.00000000	mg/L	-73.13839047	-	-	9.20809640	12.59	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.00000000	0.00000000
Se 196.026	Se	n	0.00000000	0.00000000	mg/L	52.82411268	-	-	1.89501310	3.59	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.00000000	0.00000000
Si 251.611	Si	n	0.00000000	0.00000000	mg/L	871.76339404	-	-	462.97892219	53.11		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	0.00000000	0.00000000
Sn 189.925	Sn	n	0.00000000	0.00000000	mg/L	25.10720135	-	-	5.16784918	20.58	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.00000000	0.00000000
Sr 421.552	Sr-R	n	0.00000000	0.00000000	mg/L	38.25920931	-	-	22.13762523	57.86	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.00000000	0.00000000
Ti 334.941	Ti	n	0.00000000	0.00000000	mg/L	518.84101771	-	-	95.39851406	18.39	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.00000000	0.00000000
Tl 190.794	Tl	n	0.00000000	0.00000000	mg/L	7.38958958	-	-	1.77838463	24.07	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.00000000	0.00000000
V 292.401	V	n	0.00000000	0.00000000	mg/L	2.88824267	-	-	9.82994896	> 100.00	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00000000	0.00000000
Zn 206.200	Zn	n	0.00000000	0.00000000	mg/L	81.85401663	-	-	1.90935184	2.33	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720471119	57943.0513184825	0.00000000	0.00000000
Y 371.029	Y		1.00	1.00	Ratio	881674.51	0.00	0.00	9741.22	1.10		-	-	-	Fitted	-	-	1.00	1.00
Y 371.029	Y-R		1.00	1.00	Ratio	255485.25	0.00	0.00	3412.13	1.34		-	-	-	Fitted	-	-	1.00	1.00

Label: ICAL_L1,S18676 Rack/Tube: S1:2 Type: STD
 Date Time: 8/30/2023 7:53:15 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	541.25408832	-	-	16.83865616	3.11		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406		
Al 396.152	Al	n	0.00666667	0.00666667	mg/L	1519.08389746	-	-	38.89618250	2.56	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	0.00666667	0.00666667
As 188.980	As	n	0.00333333	0.00333333	mg/L	31.85323053	-	-	7.63184568	23.96	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.00333333	0.00333333
B 249.678	B	n	0.00333333	0.00333333	mg/L	414.60523292	-	-	23.38820853	5.64	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.00333333	0.00333333
Ba 230.424	Ba	n	0.00333333	0.00333333	mg/L	518.04605394	-	-	2.49359248	0.48	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.00333333	0.00333333
Be 313.107	Be	n	0.00100000	0.00100000	mg/L	2636.18280862	-	-	65.91875390	2.50	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00100000	0.00100000
Ca 317.933	Ca-R	n	0.03333333	0.03333333	mg/L	2631.99572467	-	-	18.49716106	0.70	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	0.03333333	0.03333333
Cd 214.439	Cd	n	0.00166667	0.00166667	mg/L	380.71694241	-	-	2.59572983	0.68	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.00166667	0.00166667
Co 230.786	Co	n	0.00166667	0.00166667	mg/L	170.78204862	-	-	10.56463045	6.19	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00166667	0.00166667
Cr 267.716	Cr	n	0.00333333	0.00333333	mg/L	352.68694432	-	-	8.45628304	2.40	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.00333333	0.00333333
Cu 324.754	Cu	n	0.00333333	0.00333333	mg/L	607.21935814	-	-	8.86568148	1.46	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.00333333	0.00333333
Fe 259.940	Fe	n	0.00666667	0.00666667	mg/L	648.28474262	-	-	5.57883055	0.86	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	0.00666667	0.00666667
K 766.491	K-R	n	0.06666667	0.06666667	mg/L	142.63126609	-	-	37.26847110	26.13	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	0.06666667	0.06666667
Li 670.783	Li-R	n	0.00333333	0.00333333	mg/L	407.27731700	-	-	54.62692241	13.41	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.00333333	0.00333333
Mg 279.800	Mg-R	n	0.03333333	0.03333333	mg/L	185.35780334	-	-	5.13898135	2.77	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	0.03333333	0.03333333
Mn 257.610	Mn	n	0.00333333	0.00333333	mg/L	1605.04173608	-	-	44.65814382	2.78	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.00333333	0.00333333
Mo 204.598	Mo	n	0.00333333	0.00333333	mg/L	42.43122374	-	-	1.63583940	3.86	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00333333	0.00333333
Na 589.592	Na-R	n	0.06666667	0.06666667	mg/L	1584.29436468	-	-	73.41651214	4.63	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	0.06666667	0.06666667
Ni 231.604	Ni	n	0.00333333	0.00333333	mg/L	166.17786826	-	-	1.74594096	1.05	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.00333333	0.00333333
P 177.434	P	n			mg/L	4.63014333	-	-	1.33649716	28.87		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139		
Pb 220.353	Pb	n	0.00333333	0.00333333	mg/L	-7.16163395	-	-	10.26502223	> 100.00	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.00333333	0.00333333
S 181.972	S	n			mg/L	122.33056586	-	-	3.64432067	2.98		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515		
Sb 206.834	Sb	n	0.01000010	0.01000010	mg/L	-41.98786858	-	-	0.49960956	1.19	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.01000010	0.01000010
Se 196.026	Se	n	0.01000001	0.01000001	mg/L	88.31791959	-	-	5.70496780	6.46	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.01000001	0.01000001
Si 251.611	Si	n			mg/L	286.98214172	-	-	49.20321175	17.15		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424		
Sn 189.925	Sn	n	0.00333333	0.00333333	mg/L	61.51442935	-	-	8.09679934	13.16	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.00333333	0.00333333
Sr 421.552	Sr-R	n	0.01666667	0.01666667	mg/L	10211.43318363	-	-	16.60731265	0.16	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.01666667	0.01666667
Ti 334.941	Ti	n	0.00333333	0.00333333	mg/L	1633.86329857	-	-	50.96461845	3.12	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.00333333	0.00333333
Tl 190.794	Tl	n	0.01000010	0.01000010	mg/L	14.10856502	-	-	2.32629472	16.49	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.01000010	0.01000010
V 292.401	V	n	0.00166667	0.00166667	mg/L	53.16768876	-	-	5.98191360	11.25	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00166667	0.00166667
Zn 206.200	Zn	n	0.01000010	0.01000010	mg/L	641.04621073	-	-	8.87007176	1.38	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	0.01000010	0.01000010
Y 371.029	Y		1.01	1.01	Ratio	886552.34	0.01	0.85	7564.64	0.85		-	-	-	Fitted	-	-	1.00	1.01
Y 371.029	Y-R		1.00	1.00	Ratio	256684.01	0.00	0.37	939.33	0.37		-	-	-	Fitted	-	-	1.01	1.01

Label: ICAL_L2,S18675 Rack: Tube: S1:3 Type: STD
 Date Time: 8/30/2023 7:56:22 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	559.79731856	-	-	28.85960592	5.16		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406		
Al 396.152	Al	n	0.02000000	0.02000000	mg/L	2158.39660657	-	-	26.00514766	1.20	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	0.02000000	0.02000000
As 188.980	As	n	0.01000000	0.01000000	mg/L	77.17961277	-	-	7.56772284	9.81	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.01000000	0.01000000
B 249.678	B	n	0.01000000	0.01000000	mg/L	659.27889632	-	-	5.96340274	0.90	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.01000000	0.01000000
Ba 230.424	Ba	n	0.01000000	0.01000000	mg/L	1130.32682518	-	-	21.53082603	1.90	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.01000000	0.01000000
Be 313.107	Be	n	0.00300000	0.00300000	mg/L	8040.68472383	-	-	134.69615957	1.68	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00300000	0.00300000
Ca 317.933	Ca-R	n	0.10000000	0.10000000	mg/L	4138.38777869	-	-	16.03716238	0.39	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	0.10000000	0.10000000
Cd 214.439	Cd	n	0.00500000	0.00500000	mg/L	1089.73633148	-	-	12.84484101	1.18	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.00500000	0.00500000
Co 230.786	Co	n	0.00500000	0.00500000	mg/L	289.71569539	-	-	19.24071858	6.64	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00500000	0.00500000
Cr 267.716	Cr	n	0.01000000	0.01000000	mg/L	846.26589945	-	-	20.08605075	2.37	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.01000000	0.01000000
Cu 324.754	Cu	n	0.01000000	0.01000000	mg/L	898.95280666	-	-	15.49300151	1.72	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.01000000	0.01000000
Fe 259.940	Fe	n	0.02000000	0.02000000	mg/L	1587.53666161	-	-	28.32152024	1.78	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588737364	0.02000000	0.02000000
K 766.491	K-R	n	0.20000000	0.20000000	mg/L	375.91887018	-	-	47.10932194	12.53	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	0.20000000	0.20000000
Li 670.783	Li-R	n	0.01000000	0.01000000	mg/L	1322.23023808	-	-	46.96766915	3.55	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.01000000	0.01000000
Mg 279.800	Mg-R	n	0.10000000	0.10000000	mg/L	398.08215650	-	-	8.67315408	2.18	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	0.10000000	0.10000000
Mn 257.610	Mn	n	0.01000000	0.01000000	mg/L	4887.76628418	-	-	84.58078330	1.73	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.01000000	0.01000000
Mo 204.598	Mo	n	0.01000000	0.01000000	mg/L	98.78635377	-	-	4.42870018	4.48	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.01000000	0.01000000
Na 589.592	Na-R	n	0.20000000	0.20000000	mg/L	3455.83987590	-	-	61.92011696	1.79	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	0.20000000	0.20000000
Ni 231.604	Ni	n	0.01000000	0.01000000	mg/L	345.28480422	-	-	11.31658325	3.28	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.01000000	0.01000000
P 177.434	P	n			mg/L	5.29577080	-	-	1.22171862	23.07		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139		
Pb 220.353	Pb	n	0.01000000	0.01000000	mg/L	62.53163786	-	-	7.64540983	12.23	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.01000000	0.01000000
S 181.972	S	n			mg/L	125.84604877	-	-	6.22458613	4.95		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515		
Sb 206.834	Sb	n	0.03000030	0.03000030	mg/L	20.35950371	-	-	3.64775001	17.92	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.03000030	0.03000030
Se 196.026	Se	n	0.03000003	0.03000003	mg/L	174.29656411	-	-	1.58469547	0.91	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.03000003	0.03000003
Si 251.611	Si	n			mg/L	269.08937103	-	-	36.52006222	13.57		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424		
Sn 189.925	Sn	n	0.01000000	0.01000000	mg/L	138.64300191	-	-	8.51971017	6.15	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.01000000	0.01000000
Sr 421.552	Sr-R	n	0.05000000	0.05000000	mg/L	30442.71335248	-	-	79.77503296	0.26	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.05000000	0.05000000
Ti 334.941	Ti	n	0.01000000	0.01000000	mg/L	4184.02563007	-	-	106.71444743	2.55	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.01000000	0.01000000
Tl 190.794	Tl	n	0.03000030	0.03000030	mg/L	76.17550550	-	-	3.06494892	4.02	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.03000030	0.03000030
V 292.401	V	n	0.00500000	0.00500000	mg/L	201.15064403	-	-	7.82800914	3.89	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00500000	0.00500000
Zn 206.200	Zn	n	0.03000030	0.03000030	mg/L	1817.80442019	-	-	33.41845804	1.84	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	0.03000030	0.03000030
Y 371.029	Y		1.01	1.01	Ratio	887171.95	0.01	0.79	7051.01	0.79		-	-	-	Fitted	-	-	1.00	1.01
Y 371.029	Y-R		1.00	1.00	Ratio	255651.60	0.01	1.07	2726.16	1.07		-	-	-	Fitted	-	-	1.01	1.01

Label: ICAL_L3,S18674 Rack: Tube: S1:4 Type: STD
 Date Time: 8/30/2023 7:59:29 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	528.77518381	-	-	10.56970084	2.00		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406		
Al 396.152	Al	n	0.20000000	0.20000000	mg/L	9311.97740757	-	-	175.99769576	1.89	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	0.20000000	0.20000000
As 188.980	As	n	0.10000000	0.10000000	mg/L	582.04114242	-	-	8.21193116	1.41	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.10000000	0.10000000
B 249.678	B	n	0.10000000	0.10000000	mg/L	4415.33856505	-	-	33.04734111	0.75	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.10000000	0.10000000
Ba 230.424	Ba	n	0.10000000	0.10000000	mg/L	11693.36564345	-	-	149.95342684	1.28	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.5425566625	0.10000000	0.10000000
Be 313.107	Be	n	0.03000000	0.03000000	mg/L	84381.24017471	-	-	918.37874004	1.09	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.03000000	0.03000000
Ca 317.933	Ca-R	n	1.00000000	1.00000000	mg/L	20346.62323518	-	-	151.81663940	0.75	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	1.00000000	1.00000000
Cd 214.439	Cd	n	0.05000000	0.05000000	mg/L	11013.94416689	-	-	106.47853528	0.97	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.05000000	0.05000000
Co 230.786	Co	n	0.05000000	0.05000000	mg/L	2370.09394845	-	-	23.11615081	0.98	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.05000000	0.05000000
Cr 267.716	Cr	n	0.10000000	0.10000000	mg/L	7667.90131279	-	-	93.78436624	1.22	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.10000000	0.10000000
Cu 324.754	Cu	n	0.10000000	0.10000000	mg/L	4764.86709306	-	-	39.86726644	0.84	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.10000000	0.10000000
Fe 259.940	Fe	n	0.20000000	0.20000000	mg/L	14243.45820464	-	-	156.61054319	1.10	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	0.20000000	0.20000000
K 766.491	K-R	n	2.00000000	2.00000000	mg/L	3467.11206129	-	-	27.73256267	0.80	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	2.00000000	2.00000000
Li 670.783	Li-R	n	0.10000000	0.10000000	mg/L	13805.36045037	-	-	150.34619025	1.09	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.10000000	0.10000000
Mg 279.800	Mg-R	n	1.00000000	1.00000000	mg/L	3185.11426926	-	-	21.84166477	0.69	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	1.00000000	1.00000000
Mn 257.610	Mn	n	0.10000000	0.10000000	mg/L	49759.56940232	-	-	796.80619018	1.60	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.10000000	0.10000000
Mo 204.598	Mo	n	0.10000000	0.10000000	mg/L	1007.93575082	-	-	34.91542160	3.46	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.10000000	0.10000000
Na 589.592	Na-R	n	2.00000000	2.00000000	mg/L	29045.65467672	-	-	274.31562698	0.94	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	2.00000000	2.00000000
Ni 231.604	Ni	n	0.10000000	0.10000000	mg/L	2728.40791433	-	-	20.75559998	0.76	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.10000000	0.10000000
P 177.434	P	n			mg/L	4.38717281	-	-	1.18062712	26.91		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139		
Pb 220.353	Pb	n	0.10000000	0.10000000	mg/L	1024.02447469	-	-	2.26172230	0.22	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.10000000	0.10000000
S 181.972	S	n			mg/L	121.93154137	-	-	4.01474558	3.29		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515		
Sb 206.834	Sb	n	0.30000300	0.30000300	mg/L	898.00361834	-	-	11.03124482	1.23	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.30000300	0.30000300
Se 196.026	Se	n	0.30000030	0.30000030	mg/L	1150.46454965	-	-	22.77680620	1.98	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.30000030	0.30000030
Si 251.611	Si	n			mg/L	299.24699912	-	-	47.19748009	15.77		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424		
Sn 189.925	Sn	n	0.10000000	0.10000000	mg/L	1175.56540351	-	-	17.99783810	1.53	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.10000000	0.10000000
Sr 421.552	Sr-R	n	0.50000000	0.50000000	mg/L	306878.06413464	-	-	1212.86699771	0.40	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.50000000	0.50000000
Ti 334.941	Ti	n	0.10000000	0.10000000	mg/L	39088.91132622	-	-	535.05037986	1.37	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.10000000	0.10000000
Tl 190.794	Tl	n	0.30000300	0.30000300	mg/L	1021.20094291	-	-	47.64171181	4.67	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.30000300	0.30000300
V 292.401	V	n	0.05000000	0.05000000	mg/L	2024.03828564	-	-	26.85674144	1.33	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.05000000	0.05000000
Zn 206.200	Zn	n	0.30000300	0.30000300	mg/L	18383.27319231	-	-	194.43833604	1.06	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	0.30000300	0.30000300
Y 371.029	Y		1.00	1.00	Ratio	880445.14	0.01	0.96	8458.03	0.96		-	-	-	Fitted	-	-	0.99	1.00
Y 371.029	Y-R		1.00	1.00	Ratio	254758.25	0.01	0.52	1322.17	0.52		-	-	-	Fitted	-	-	1.00	1.00

Label: ICAL_L4,S18673

Rack:Tube: S1:5

Type: STD

Date Time: 8/30/2023 8:02:36 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	n			mg/L	507.72267561	-	-	43.32758710	8.53		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406		
Al 396.152	Al	n	2.00000000	2.00000000	mg/L	79727.16449391	-	-	1373.26118099	1.72	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	2.00000000	2
As 188.980	As	n	1.00000000	1.00000000	mg/L	5699.17041370	-	-	69.24489562	1.22	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	1.00000000	1
B 249.678	B	n	1.00000000	1.00000000	mg/L	42954.03023137	-	-	644.48716166	1.50	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	1.00000000	1
Ba 230.424	Ba	n	1.00000000	1.00000000	mg/L	115668.11023792	-	-	2003.68879504	1.73	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	1.00000000	1
Be 313.107	Be	n	0.30000000	0.30000000	mg/L	850197.22468351	-	-	15545.60159902	1.83	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.30000000	0
Ca 317.933	Ca-R	n	10.00000000	10.00000000	mg/L	179283.74482240	-	-	844.32432155	0.47	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	10.00000000	1
Cd 214.439	Cd	n	0.50000000	0.50000000	mg/L	108292.69401027	-	-	1855.91277981	1.71	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.50000000	0
Co 230.786	Co	n	0.50000000	0.50000000	mg/L	23035.51162713	-	-	379.75004989	1.65	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.50000000	0
Cr 267.716	Cr	n	1.00000000	1.00000000	mg/L	74973.49275500	-	-	1308.20548476	1.74	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	1.00000000	1
Cu 324.754	Cu	n	1.00000000	1.00000000	mg/L	44349.55926833	-	-	668.06796006	1.51	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	1.00000000	1
Fe 259.940	Fe	n	2.00000000	2.00000000	mg/L	139738.63918703	-	-	2268.75506947	1.62	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	2.00000000	2
K 766.491	K-R	n	20.00000000	20.00000000	mg/L	36874.54958654	-	-	138.52160208	0.38	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	20.00000000	2
Li 670.783	Li-R	n	1.00000000	1.00000000	mg/L	135816.01000077	-	-	715.40997843	0.53	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	1.00000000	1
Mg 279.800	Mg-R	n	10.00000000	10.00000000	mg/L	30503.06118124	-	-	129.88298727	0.43	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	10.00000000	1
Mn 257.610	Mn	n	1.00000000	1.00000000	mg/L	482033.68781357	-	-	5879.21908193	1.22	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	1.00000000	1
Mo 204.598	Mo	n	1.00000000	1.00000000	mg/L	10230.77272138	-	-	299.91200222	2.93	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	1.00000000	1
Na 589.592	Na-R	n	20.00000000	20.00000000	mg/L	279056.24273783	-	-	1665.38347726	0.60	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	20.00000000	2
Ni 231.604	Ni	n	1.00000000	1.00000000	mg/L	26356.02798535	-	-	387.05602266	1.47	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	1.00000000	1
P 177.434	P	n			mg/L	6.34595803	-	-	0.65886045	10.38		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139		
Pb 220.353	Pb	n	1.00000000	1.00000000	mg/L	10295.23071105	-	-	147.02847454	1.43	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	1.00000000	1
S 181.972	S	n			mg/L	137.25401452	-	-	3.31811945	2.42		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515		
Sb 206.834	Sb	n	3.00003000	3.00003000	mg/L	9953.63032342	-	-	136.72510183	1.37	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	3.00003000	3
Se 196.026	Se	n	3.00000300	3.00000300	mg/L	11262.69016316	-	-	222.73999949	1.98	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	3.00000300	3
Si 251.611	Si	n			mg/L	543.25697141	-	-	97.02568104	17.86		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424		
Sn 189.925	Sn	n	1.00000000	1.00000000	mg/L	11589.31527754	-	-	177.35011020	1.53	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	1.00000000	1
Sr 421.552	Sr-R	n	5.00000000	5.00000000	mg/L	3040571.04393512	-	-	17836.42456137	0.59	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	5.00000000	5
Ti 334.941	Ti	n	1.00000000	1.00000000	mg/L	394763.61277641	-	-	7551.96651448	1.91	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	1.00000000	1
Tl 190.794	Tl	n	3.00003000	3.00003000	mg/L	10614.80475095	-	-	407.66759165	3.84	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	3.00003000	3
V 292.401	V	n	0.50000000	0.50000000	mg/L	20391.06298719	-	-	360.75392201	1.77	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.50000000	0
Zn 206.200	Zn	n	3.00003000	3.00003000	mg/L	180294.63276527	-	-	2910.97680552	1.61	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	3.00003000	3
Y 371.029	Y		0.98	0.98	Ratio	864540.04	0.01	0.80	6881.96	0.80		-	-	-	Fitted	-	-	0.97	0
Y 371.029	Y-R		0.98	0.98	Ratio	250881.84	0.00	0.21	518.41	0.21		-	-	-	Fitted	-	-	0.98	0

Label: ICAL_L5,S18672

Rack/Tube: S1:6

Type: STD

Date Time: 8/30/2023 8:05:44 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n			mg/L	445.71508722	-	-	9.15463757	2.05		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	
Al 396.152	Al	n	10.00000000	10.00000000	mg/L	405996.31733113	-	-	6111.33277382	1.51	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	10.00000000
As 188.980	As	n	5.00000000	5.00000000	mg/L	28289.71793456	-	-	268.63030617	0.95	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	5.00000000
B 249.678	B	n	5.00000000	5.00000000	mg/L	213792.43130613	-	-	2931.99839852	1.37	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	5.00000000
Ba 230.424	Ba	n	5.00000000	5.00000000	mg/L	553424.49571680	-	-	14406.01678588	2.60	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	5.00000000
Be 313.107	Be	n	1.50000000	1.50000000	mg/L	4131387.73277495	-	-	56528.76719670	1.37	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	1.50000000
Ca 317.933	Ca-R	n	50.00000000	50.00000000	mg/L	848381.91216086	-	-	2884.84607322	0.34	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	50.00000000
Cd 214.439	Cd	n	2.50000000	2.50000000	mg/L	516428.48123662	-	-	4951.85610594	0.96	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	2.50000000
Co 230.786	Co	n	2.50000000	2.50000000	mg/L	110834.77286718	-	-	1280.70314185	1.16	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	2.50000000
Cr 267.716	Cr	n	5.00000000	5.00000000	mg/L	363549.08773801	-	-	4608.15449116	1.27	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	5.00000000
Cu 324.754	Cu	n	5.00000000	5.00000000	mg/L	227167.88150454	-	-	2984.51545527	1.31	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	5.00000000
Fe 259.940	Fe	n	10.00000000	10.00000000	mg/L	667786.12970281	-	-	6946.32922766	1.04	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	10.00000000
K 766.491	K-R	n	100.00000000	100.00000000	mg/L	182338.44049588	-	-	475.58494472	0.26	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	100.00000000
Li 670.783	Li-R	n	5.00000000	5.00000000	mg/L	659064.40082766	-	-	1947.41660650	0.30	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	5.00000000
Mg 279.800	Mg-R	n	50.00000000	50.00000000	mg/L	145932.17348850	-	-	852.37451214	0.58	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	50.00000000
Mn 257.610	Mn	n	5.00000000	5.00000000	mg/L	2312410.33921087	-	-	21272.62060002	0.92	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	5.00000000
Mo 204.598	Mo	n	5.00000000	5.00000000	mg/L	50984.02787485	-	-	1392.80316514	2.73	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	5.00000000
Na 589.592	Na-R	n	100.00000000	100.00000000	mg/L	1332208.58264283	-	-	2067.30125603	0.16	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	100.00000000
Ni 231.604	Ni	n	5.00000000	5.00000000	mg/L	126532.99264172	-	-	1446.66254967	1.14	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	5.00000000
P 177.434	P	n			mg/L	-4.38305088	-	-	2.17720812	49.67		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	
Pb 220.353	Pb	n	5.00000000	5.00000000	mg/L	49576.74112587	-	-	451.50641999	0.91	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	5.00000000
S 181.972	S	n			mg/L	175.28180506	-	-	0.94732771	0.54		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	
Sb 206.834	Sb	n	15.00015000	15.00015000	mg/L	50417.39351983	-	-	484.71841418	0.96	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	15.00015000
Se 196.026	Se	n	15.00000000	15.00000000	mg/L	55478.62911751	-	-	662.74739807	1.19	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	15.00000000
Si 251.611	Si	n			mg/L	1884.08517899	-	-	407.35543823	21.62		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	
Sn 189.925	Sn	n	5.00000000	5.00000000	mg/L	56528.64696562	-	-	614.61130640	1.09	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	5.00000000
Sr 421.552	Sr-R	n	25.00000000	25.00000000	mg/L	14378332.54790380	-	-	35962.70264040	0.25	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	25.00000000
Ti 334.941	Ti	n	5.00000000	5.00000000	mg/L	1927567.36805599	-	-	38367.71685120	1.99	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	5.00000000
Tl 190.794	Tl	n	15.00015000	15.00015000	mg/L	52901.70026736	-	-	1230.18621969	2.33	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	15.00015000
V 292.401	V	n	2.50000000	2.50000000	mg/L	100027.60407738	-	-	1390.78332588	1.39	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	2.50000000
Zn 206.200	Zn	n	15.00015000	15.00015000	mg/L	838365.93960477	-	-	12330.43368765	1.47	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.038872047119	57943.0513184825	15.00015000
Y 371.029	Y		0.96	0.96	Ratio	849277.99	0.01	0.92	7845.81	0.92		-	-	-	Fitted	-	-	0.95
Y 371.029	Y-R		0.96	0.96	Ratio	246221.93	0.00	0.36	885.94	0.36		-	-	-	Fitted	-	-	0.97

Label: ICAL_L6.S18663

Rack/Tube: S1:7

Type: STD

Date Time: 8/30/2023 8:08:50 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n			mg/L	408.94608349	-	-	57.47999753	14.06		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	
Al 396.152	Al	n	20.00000000	20.00000000	mg/L	840697.23005729	-	-	11790.06036073	1.40	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	20.00000000
As 188.980	As	n	10.00000000	10.00000000	mg/L	56959.07646774	-	-	441.30683762	0.77	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	10.00000000
B 249.678	B	n	10.00000000	10.00000000	mg/L	431693.58585794	-	-	3187.47290175	0.74	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	10.00000000
Ba 230.424	Ba	n	10.00000000	10.00000000	mg/L	1110152.21072359	-	-	15673.03785872	1.41	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	10.00000000
Be 313.107	Be	n	3.00000000	3.00000000	mg/L	8097162.04113076	-	-	95476.26533310	1.18	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	3.00000000
Ca 317.933	Ca-R	n	100.00000000	100.00000000	mg/L	1684492.68069476	-	-	958.55737555	0.06	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	100.00000000
Cd 214.439	Cd	n	5.00000000	5.00000000	mg/L	1000492.03917241	-	-	17061.58278481	1.71	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	5.00000000
Co 230.786	Co	n	5.00000000	5.00000000	mg/L	220123.63217741	-	-	1866.77762439	0.85	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	5.00000000
Cr 267.716	Cr	n	10.00000000	10.00000000	mg/L	717746.14340313	-	-	8058.48785683	1.12	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	10.00000000
Cu 324.754	Cu	n	10.00000000	10.00000000	mg/L	469058.81585837	-	-	3632.29145897	0.77	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	10.00000000
Fe 259.940	Fe	n	20.00000000	20.00000000	mg/L	1327834.63978114	-	-	16103.91189477	1.21	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	20.00000000
K 766.491	K-R	n	200.00000000	200.00000000	mg/L	368128.31615385	-	-	796.54428665	0.22	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	200.00000000
Li 670.783	Li-R	n	10.00000000	10.00000000	mg/L	1328204.25063407	-	-	4265.27531315	0.32	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	10.00000000
Mg 279.800	Mg-R	n	100.00000000	100.00000000	mg/L	295902.39145142	-	-	37.25246828	0.01	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	100.00000000
Mn 257.610	Mn	n	10.00000000	10.00000000	mg/L	4527368.24833616	-	-	75653.77120947	1.67	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	10.00000000
Mo 204.598	Mo	n	10.00000000	10.00000000	mg/L	102645.33168148	-	-	2321.99326058	2.26	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	10.00000000
Na 589.592	Na-R	n	200.00000000	200.00000000	mg/L	2647513.73054919	-	-	5363.82755028	0.20	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	200.00000000
Ni 231.604	Ni	n	10.00000000	10.00000000	mg/L	249966.70427446	-	-	1976.30145561	0.79	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	10.00000000
P 177.434	P	n			mg/L	-2.03119083	-	-	4.70762338	> 100.00		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	
Pb 220.353	Pb	n	10.00000000	10.00000000	mg/L	98379.81441778	-	-	841.17321802	0.86	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	10.00000000
S 181.972	S	n			mg/L	216.44898588	-	-	2.95877818	1.37		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	
Sb 206.834	Sb	n	30.00030000	30.00030000	mg/L	102931.61493106	-	-	895.36667443	0.87	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	30.00030000
Se 196.026	Se	n	30.00000000	30.00000000	mg/L	111389.19120381	-	-	850.36061342	0.76	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	30.00000000
Si 251.611	Si	n			mg/L	3691.04262531	-	-	846.37484135	22.93		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	
Sn 189.925	Sn	n	10.00000000	10.00000000	mg/L	112262.47426101	-	-	1153.89066790	1.03	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	10.00000000
Sr 421.552	Sr-R	n	50.00000000	50.00000000	mg/L	28439332.82267770	-	-	68847.27638421	0.24	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	50.00000000
Ti 334.941	Ti	n	10.00000000	10.00000000	mg/L	3908411.49667501	-	-	88117.87403776	2.25	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	10.00000000
Tl 190.794	Tl	n	30.00030000	30.00030000	mg/L	106483.30548732	-	-	1790.87469715	1.68	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	30.00030000
V 292.401	V	n	5.00000000	5.00000000	mg/L	198859.84782769	-	-	2465.50823482	1.24	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	5.00000000
Zn 206.200	Zn	n	30.00030000	30.00030000	mg/L	1614009.77963953	-	-	30554.63579265	1.89	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	30.00030000
Y 371.029	Y		0.94	0.94	Ratio	832836.65	0.01	0.92	7662.37	0.92		-	-	-	Fitted	-	-	0.93
Y 371.029	Y-R		0.95	0.95	Ratio	242125.62	0.00	0.15	351.23	0.15		-	-	-	Fitted	-	-	0.95

Label: ICAL.L7,S18726

Rack:Tube: S1:8

Type: STD

Date Time: 8/30/2023 8:11:57 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Conc Replic
Ag 328.068	Ag	n	2.00000000	2.00000000	mg/L	171459.44318012	-	-	2118.26754792	1.24		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	2.00000000	2.00
Al 396.152	Al	n			mg/L	1249.65322158	-	-	15.61410114	1.25	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889		
As 188.980	As	n			mg/L	30.34731449	-	-	4.03590599	13.30	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138		
B 249.678	B	n			mg/L	486.04732863	-	-	28.55007163	5.87	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001		
Ba 230.424	Ba	n			mg/L	258.26028367	-	-	7.73033690	2.99	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.5425566625		
Be 313.107	Be	n			mg/L	-11.95315357	-	-	15.15612103	> 100.00	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874		
Ca 317.933	Ca-R	n			mg/L	2000.66898249	-	-	3.37238633	0.17	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403		
Cd 214.439	Cd	n			mg/L	49.79585244	-	-	9.66254477	19.40	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908		
Co 230.786	Co	n			mg/L	140.53833561	-	-	5.18226897	3.69	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719		
Cr 267.716	Cr	n			mg/L	108.29512336	-	-	6.55420591	6.05	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593		
Cu 324.754	Cu	n			mg/L	534.00813867	-	-	14.75431437	2.76	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204		
Fe 259.940	Fe	n			mg/L	529.69170703	-	-	97.26921107	18.36	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364		
K 766.491	K-R	n			mg/L	115.91368953	-	-	10.99196840	9.48	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643		
Li 670.783	Li-R	n			mg/L	-25.55800249	-	-	57.03887776	> 100.00	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138		
Mg 279.800	Mg-R	n			mg/L	76.12003379	-	-	11.91683540	15.66	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053		
Mn 257.610	Mn	n			mg/L	607.03806724	-	-	6.39110695	1.05	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671		
Mo 204.598	Mo	n			mg/L	236.39456194	-	-	82.14201510	34.75	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118		
Na 589.592	Na-R	n			mg/L	720.95095353	-	-	118.69035280	16.46	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026		
Ni 231.604	Ni	n			mg/L	80.66688608	-	-	7.76142221	9.62	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696		
P 177.434	P	n			mg/L	4.13651327	-	-	0.94204506	22.77		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139		
Pb 220.353	Pb	n			mg/L	-40.07283694	-	-	12.02027514	30.00	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013		
S 181.972	S	n			mg/L	119.81999788	-	-	3.56800038	2.98		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515		
Sb 206.834	Sb	n			mg/L	25.29955262	-	-	33.53474473	> 100.00	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559		
Se 196.026	Se	n			mg/L	87.67394770	-	-	3.64134634	4.15	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359		
Si 251.611	Si	n			mg/L	195.07096638	-	-	26.52855299	13.60		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424		
Sn 189.925	Sn	n			mg/L	73.89990521	-	-	10.37873080	14.04	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715		
Sr 421.552	Sr-R	n			mg/L	24.82122677	-	-	20.45449810	82.41	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264		
Ti 334.941	Ti	n			mg/L	2860.74832142	-	-	903.99486245	31.60	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632		
Tl 190.794	Tl	n			mg/L	8.54583279	-	-	2.02493791	23.70	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617		
V 292.401	V	n			mg/L	2.16249460	-	-	19.80298084	> 100.00	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217		
Zn 206.200	Zn	n			mg/L	77.39888270	-	-	6.15478477	7.95	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825		
Y 371.029	Y		1.00	1.00	Ratio	881876.78	0.01	0.71	6265.12	0.71		-	-	-	Fitted	-	-	0.99	1.00
Y 371.029	Y-R		1.00	1.00	Ratio	255650.31	0.01	0.75	1916.11	0.75		-	-	-	Fitted	-	-	1.01	1.00

Label: ICAL_L8,S18547

Rack:Tube: S1:9

Type: STD

Date Time: 8/30/2023 8:15:04 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Co Re
Ag 328.068	Ag	n			mg/L	529.76642554	-	-	26.12214310	4.93		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406		
Al 396.152	Al	n			mg/L	1128.40178875	-	-	33.26402754	2.95	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889		
As 188.980	As	n			mg/L	14.86356427	-	-	2.16317339	14.55	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138		
B 249.678	B	n			mg/L	428.04695686	-	-	22.35481729	5.22	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001		
Ba 230.424	Ba	n			mg/L	226.56854007	-	-	4.69747923	2.07	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.5425566625		
Be 313.107	Be	n			mg/L	51.70918083	-	-	17.23448634	33.33	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874		
Ca 317.933	Ca-R	n			mg/L	1939.20900170	-	-	23.68372674	1.22	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403		
Cd 214.439	Cd	n			mg/L	28.17645700	-	-	6.35161476	22.54	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908		
Co 230.786	Co	n			mg/L	119.13076843	-	-	8.23769887	6.91	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719		
Cr 267.716	Cr	n			mg/L	104.08732930	-	-	1.19424595	1.15	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593		
Cu 324.754	Cu	n			mg/L	527.54073000	-	-	15.20216915	2.88	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204		
Fe 259.940	Fe	n			mg/L	300.95144368	-	-	31.14483506	10.35	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364		
K 766.491	K-R	n			mg/L	132.84838440	-	-	32.21779149	24.25	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643		
Li 670.783	Li-R	n			mg/L	-22.53111146	-	-	28.01478664	> 100.00	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138		
Mg 279.800	Mg-R	n			mg/L	78.20141958	-	-	3.74291795	4.79	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053		
Mn 257.610	Mn	n			mg/L	43.14153463	-	-	3.19158213	7.40	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671		
Mo 204.598	Mo	n			mg/L	56.18893474	-	-	17.11622483	30.46	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118		
Na 589.592	Na-R	n			mg/L	682.13933664	-	-	52.33976820	7.67	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026		
Ni 231.604	Ni	n			mg/L	85.29054679	-	-	6.85161506	8.03	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696		
P 177.434	P	n	10.00000000	10.00000000	mg/L	5695.45292919	-	-	56.00235432	0.98		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	10.00000000	10
Pb 220.353	Pb	n			mg/L	-49.05651632	-	-	18.79550692	38.31	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013		
S 181.972	S	n	10.00000000	10.00000000	mg/L	16701.67431106	-	-	107.42172108	0.64		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	10.00000000	10
Sb 206.834	Sb	n			mg/L	-44.01575124	-	-	10.39236424	23.61	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559		
Se 196.026	Se	n			mg/L	69.95364125	-	-	9.01446095	12.89	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359		
Si 251.611	Si	n	10.00000000	10.00000000	mg/L	93673.25153644	-	-	2119.75807375	2.26		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	10.00000000	10
Sn 189.925	Sn	n			mg/L	35.60877525	-	-	2.79208255	7.84	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715		
Sr 421.552	Sr-R	n			mg/L	20.51493884	-	-	3.45684531	16.85	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264		
Ti 334.941	Ti	n			mg/L	3709.36166473	-	-	938.76175109	25.31	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632		
Tl 190.794	Tl	n			mg/L	7.51914979	-	-	1.11016906	14.76	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617		
V 292.401	V	n			mg/L	12.19181958	-	-	15.53461645	> 100.00	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217		
Zn 206.200	Zn	n			mg/L	59.01717409	-	-	3.60818661	6.11	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825		
Y 371.029	Y		1.02	1.02	Ratio	896448.68	0.01	0.98	8760.00	0.98		-	-	-	Fitted	-	-	1.01	1.01
Y 371.029	Y-R		1.02	1.02	Ratio	261707.06	0.01	0.82	2155.64	0.82		-	-	-	Fitted	-	-	1.02	1.01

Label: ICV.S18803 Rack: Tube: S1:12 Type: QC
 Date Time: 8/30/2023 8:18:12 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3 Flags Replicate 1: - Flags Replicate 2: -
 Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.51748950	0.51748950	mg/L	44774.71220355	0.00483005	0.93336121	412.74120320	0.92		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.51198547
Al 396.152	Al	n	1.08437335	1.08437335	mg/L	45768.09434190	0.01574294	1.45180028	644.97352877	1.41	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	1.06621037
As 188.980	As	n	1.04629836	1.04629836	mg/L	5958.24224105	0.01088805	1.04062556	61.81040011	1.04	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	1.03386037
B 249.678	B	n	1.07999546	1.07999546	mg/L	46004.71839915	0.01329885	1.23138017	563.31657637	1.22	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	1.06475213
Ba 230.424	Ba	nQ	1.12091368	1.12091368	mg/L	120648.60458873	0.01053451	0.93981441	1132.10719210	0.94	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	1.10903438
Be 313.107	Be	n	1.05135750	1.05135750	mg/L	2883900.19775970	0.01508656	1.43496031	41381.89559841	1.43	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	1.03465090
Ca 317.933	Ca-R	n	54.19915970	54.19915970	mg/L	915377.69658145	0.14054589	0.25931378	2368.04777813	0.26	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	54.28587757
Cd 214.439	Cd	n	1.04352252	1.04352252	mg/L	220842.32980063	0.00984690	0.94362146	2083.56427747	0.94	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	1.03228492
Co 230.786	Co	n	1.05686234	1.05686234	mg/L	47236.01365449	0.00848831	0.80316114	378.53191515	0.80	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	1.04785203
Cr 267.716	Cr	n	1.01512716	1.01512716	mg/L	74736.65007668	0.01343642	1.32361922	987.77121330	1.32	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.99995940
Cu 324.754	Cu	n	1.03169546	1.03169546	mg/L	46529.59503160	0.01118332	1.08397477	498.60947191	1.07	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	1.01880288
Fe 259.940	Fe	n	1.06411221	1.06411221	mg/L	72567.30844477	0.01606014	1.50925284	1090.06713466	1.50	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	1.04592260
K 766.491	K-R	n	62.89084429	62.89084429	mg/L	115168.59247837	0.15977345	0.25404883	292.56961646	0.25	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	62.88719060
Li 670.783	Li-R	n	1.04373093	1.04373093	mg/L	138782.23095538	0.00435465	0.41721944	578.77280879	0.42	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	1.03886294
Mg 279.800	Mg-R	n	53.22125352	53.22125352	mg/L	157535.93028841	0.22925032	0.43074957	678.15704060	0.43	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	53.42788965
Mn 257.610	Mn	n	1.03058055	1.03058055	mg/L	487331.73312175	0.01998817	1.93950543	9450.94154719	1.94	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	1.00788048
Mo 204.598	Mo	n	1.04337249	1.04337249	mg/L	10544.96119138	0.02691908	2.58000676	271.84151579	2.58	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	1.01354160
Na 589.592	Na-R	n	53.22910486	53.22910486	mg/L	709865.38668417	0.20043008	0.37654228	2670.72392924	0.38	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	53.08888940
Ni 231.604	Ni	n	1.02434935	1.02434935	mg/L	26380.83772899	0.01150174	1.12283345	295.28859918	1.12	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	1.01132948
P 177.434	P	nQ	5.67300876	5.67300876	mg/L	3232.27752106	0.05224216	0.92088981	29.73988650	0.92		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	5.61333990
Pb 220.353	Pb	n	1.02016957	1.02016957	mg/L	10512.98609465	0.01242176	1.21761687	128.21455970	1.22	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	1.00582701
S 181.972	S	nQ	5.76075022	5.76075022	mg/L	9669.21666843	0.03537371	0.61404688	58.65556978	0.61		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	5.72012846
Sb 206.834	Sb	n	1.04420495	1.04420495	mg/L	3430.64830093	0.01604239	1.53632595	53.85978454	1.57	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	1.02765645
Se 196.026	Se	n	1.03446499	1.03446499	mg/L	3918.16202763	0.01630430	1.57610938	60.76745121	1.55	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	1.01595206
Si 251.611	Si	nQ	6.65340805	6.65340805	mg/L	62613.60630810	0.54958782	8.26024523	5100.25676200	8.15		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	6.09336723
Sn 189.925	Sn	n	5.29382354	5.29382354	mg/L	60070.78228226	0.07925743	1.49716799	898.98851435	1.50	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	5.20268116
Sr 421.552	Sr-R	n	1.05651624	1.05651624	mg/L	623253.28114703	0.00597147	0.56520417	3518.06432398	0.56	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	1.04968022
Ti 334.941	Ti	n	1.05916981	1.05916981	mg/L	411142.79395748	0.01703390	1.60823129	6606.08876286	1.61	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	1.03976335
Tl 190.794	Tl	nQ	1.10424798	1.10424798	mg/L	3719.22592031	0.01948712	1.76474092	65.73606795	1.77	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	1.08229871
V 292.401	V	n	1.04137465	1.04137465	mg/L	41874.83044955	0.01377728	1.32298999	554.17633524	1.32	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	1.02575643
Zn 206.200	Zn	n	1.05601075	1.05601075	mg/L	61220.36530114	0.01145983	1.08520017	664.01753907	1.08	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	1.04290173
Y 371.029	Y		0.97	0.97	Ratio	856080.83	0.01	0.86	7374.43	0.86		-	-	-	Fitted	-	-	0.96
Y 371.029	Y-R		0.97	0.97	Ratio	248564.79	0.00	0.17	421.49	0.17		-	-	-	Fitted	-	-	0.97

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950011	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 08:21
	Caldate: 30-AUG-2023

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	876438	-0.59
Yttrium	R	255485	258886	1.33

Label: ICB Rack/Tube: S1:1 Type: QC
 Date Time: 8/30/2023 8:21:19 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	C R
Ag 328.068	Ag	nu	-0.00021599	-0.00021599	mg/L	535.29551852	0.00003142	14.54643265	2.68487060	0.50		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	-0.00018122	-1
Al 396.152	Al	n	0.00296157	0.00296157	mg/L	1363.07657920	0.00101216	34.17639218	41.46714577	3.04	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	0.00297298	0
As 188.980	As	nu	-0.00023043	-0.00023043	mg/L	15.04221064	0.00044270	192.11939240	2.51317654	16.71	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.00010015	-1
B 249.678	B	n	0.00301635	0.00301635	mg/L	375.81552778	0.00024963	8.27595638	10.57396214	2.81	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.00301837	0
Ba 230.424	Ba	n	0.00058926	0.00058926	mg/L	232.17433232	0.00012038	20.42961444	12.93719306	5.57	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.00072196	0
Be 313.107	Be	nu	0.00000995	0.00000995	mg/L	67.11951004	0.00001564	157.17174445	42.91085297	63.93	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00002791	-1
Ca 317.933	Ca-R	nu	-0.01104856	-0.01104856	mg/L	2017.24959112	0.00106586	9.64707995	17.95866412	0.89	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	-0.01167754	-1
Cd 214.439	Cd	nu	-0.00000908	-0.00000908	mg/L	26.10428399	0.00006526	718.48077057	13.80848803	52.90	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00005384	0
Co 230.786	Co	n	0.00047937	0.00047937	mg/L	122.24704062	0.00005056	10.54701487	2.25467569	1.84	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00053474	0
Cr 267.716	Cr	nu	-0.00009131	-0.00009131	mg/L	95.92769433	0.00004245	46.49396838	3.12092170	3.25	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	-0.00013211	-1
Cu 324.754	Cu	n	0.00127977	0.00127977	mg/L	568.81732398	0.00029166	22.78982812	13.00358894	2.29	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.00102634	0
Fe 259.940	Fe	n	0.00178042	0.00178042	mg/L	322.97305307	0.00044847	25.18887194	30.43926057	9.42	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	0.00136911	0
K 766.491	K-R	n	0.05012549	0.05012549	mg/L	94.24121360	0.00981328	19.57743486	17.96962471	19.07	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	0.0468212	0
Li 670.783	Li-R	nu	-0.00039603	-0.00039603	mg/L	-40.45379282	0.00085232	215.21559189	113.28101157	> 100.00	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	-0.00134654	-1
Mg 279.800	Mg-R	nu	-0.00977728	-0.00977728	mg/L	66.96558071	0.00188180	19.24666616	5.56665248	8.31	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	-0.01159326	-1
Mn 257.610	Mn	n	0.00010597	0.00010597	mg/L	51.72715825	0.00000794	7.49180656	3.75362800	7.26	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.00010012	0
Mo 204.598	Mo	nZ	0.00397699	0.00397699	mg/L	48.50724897	0.00197943	49.77198102	19.98917832	41.21	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00182916	0
Na 589.592	Na-R	n	0.00770612	0.00770612	mg/L	692.07643183	0.00032880	4.26671346	4.38122362	0.63	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	0.00732697	0
Ni 231.604	Ni	nu	0.00018789	0.00018789	mg/L	86.28072725	0.00028860	153.59799860	7.40931984	8.59	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	-0.00014335	0
P 177.434	P	nu	0.00141718	0.00141718	mg/L	3.56125318	0.00267187	188.53414219	1.52101739	42.71		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.00449628	-1
Pb 220.353	Pb	nu	-0.00225917	-0.00225917	mg/L	-37.80366135	0.00036580	16.19176844	3.77570519	9.99	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	-0.00268007	-1
S 181.972	S	n	0.00552208	0.00552208	mg/L	129.14508907	0.00245084	44.38255978	4.06390855	3.15		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	0.00748887	0
Sb 206.834	Sb	nu	0.00085136	0.00085136	mg/L	-72.85210094	0.00421681	495.30589262	14.15728476	19.43	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.00294916	0
Se 196.026	Se	n	0.00213650	0.00213650	mg/L	66.07377034	0.00166554	77.95659457	6.20761299	9.39	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.00034660	0
Si 251.611	Si	nu	-0.06681461	-0.06681461	mg/L	251.71417979	0.00379212	5.67558414	35.19143087	13.98		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	-0.07045191	-1
Sn 189.925	Sn	n	0.00221058	0.00221058	mg/L	50.69585314	0.00052280	23.64991416	5.92992731	11.70	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.00169529	0
Sr 421.552	Sr-R	nu	-0.00045872	-0.00045872	mg/L	15.08303194	0.00001280	2.78970530	7.53926360	49.99	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	-0.00044394	-1
Ti 334.941	Ti	n	0.00148965	0.00148965	mg/L	946.85550917	0.00046732	31.37137645	181.23791304	19.14	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.00109644	0
Tl 190.794	Tl	n	0.00405417	0.00405417	mg/L	7.18821891	0.00092914	22.91820020	3.13428379	43.60	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.00510238	0
V 292.401	V	n	0.00044805	0.00044805	mg/L	11.99120983	0.00027559	61.50935734	11.08544182	92.45	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00050283	0
Zn 206.200	Zn	nu	0.00013262	0.00013262	mg/L	88.75660051	0.00025967	195.79428363	15.04612503	16.95	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	0.00013707	0
Y 371.029	Y	0.99	0.99	Ratio	876438.06	0.01	0.85	7484.20	0.85		-	-	-	-	Fitted	-	-	0.99	0
Y 371.029	Y-R	1.01	1.01	Ratio	258885.76	0.01	0.61	1583.18	0.61		-	-	-	-	Fitted	-	-	1.02	1

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950013	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 08:27
Caldate: 30-AUG-2023	

Standards: S18677

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[0.0004912]	0.003333	mg/L	

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Aluminum	A	400.0	378.8	mg/L	95	
Aluminum as Al ₂ O ₃	A	755.8	715.8	mg/L	95	
Iron	A	160.0	144.9	mg/L	91	
Iron as Fe ₂ O ₃	A	228.8	207.2	mg/L	91	
Calcium	R	400.0	402.0	mg/L	100	
Calcium as CaCO ₃	R	998.9	1004	mg/L	100	
Magnesium	R	400.0	413.2	mg/L	103	
Magnesium as MgCO ₃	R	1388	1433	mg/L	103	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	802840	-8.94
Yttrium	R	255485	235472	-7.83

Label: ICSA,S18677

Rack:Tube: S1:14

Type: QC

Date Time: 8/30/2023 8:27:37 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concns Replicate
Ag 328.068	Ag	nu	-0.00135130	-0.00135130	mg/L	519.82740079	0.00020062	14.84612962	17.14315525	3.30		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	-0.0011
Al 396.152	Al	no	378.82762619	378.82762619	mg/L	15522279.44647100	6.28980328	1.66033384	257687.43420568	1.66	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	371.771
As 188.980	As	nu	-0.00274328	-0.00274328	mg/L	52.18204709	0.00071800	26.17306676	4.07602263	7.81	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	-0.0019
B 249.678	B	nu	0.00023815	0.00023815	mg/L	372.37478943	0.00065034	273.08077426	27.54719877	7.40	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.0008E
Ba 230.424	Ba	n	0.00106341	0.00106341	mg/L	651.46258218	0.00009655	9.07943652	10.37605985	1.59	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.0010E
Be 313.107	Be	nKu	-0.00177639	-0.00177639	mg/L	40.56458838	0.00000210	0.11804152	5.75167521	14.18	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	-0.0017
Ca 317.933	Ca-R	no	401.98558172	401.98558172	mg/L	6775890.69681094	0.86771774	0.21585793	14620.11524747	0.22	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	402.13E
Cd 214.439	Cd	nKu	-0.00178191	-0.00178191	mg/L	544.42512452	0.00004369	2.45168771	9.24398489	1.70	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.0017
Co 230.786	Co	nu	-0.00164737	-0.00164737	mg/L	246.68072354	0.00042052	25.52698380	18.75301929	7.60	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	-0.0018
Cr 267.716	Cr	nu	-0.00181764	-0.00181764	mg/L	170.27812063	0.00027100	14.90945130	19.92244117	11.70	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	-0.0020
Cu 324.754	Cu	nKu	-0.00605302	-0.00605302	mg/L	540.80351518	0.00020574	3.39897089	9.17296036	1.70	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	-0.0060
Fe 259.940	Fe	no	144.89126395	144.89126395	mg/L	9835892.89674605	3.96855226	2.73898657	269361.74944400	2.74	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	140.31E
K 766.491	K-R	nu	-0.01747661	-0.01747661	mg/L	96.43086080	0.01093013	62.54146370	20.01473395	20.76	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	-0.0251
Li 670.783	Li-R	nKu	-0.00542621	-0.00542621	mg/L	49.75605805	0.00008430	1.55362625	11.20463843	22.52	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	-0.0053
Mg 279.800	Mg-R	no	413.20505170	413.20505170	mg/L	1222867.57066784	1.48533681	0.35946724	4393.85044965	0.36	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	413.28E
Mn 257.610	Mn	nu	-0.00106343	-0.00106343	mg/L	787.43943811	0.00003930	3.69560586	18.58217359	2.36	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	-0.0010
Mo 204.598	Mo	nu	0.00064019	0.00064019	mg/L	82.11285181	0.00173948	271.71436888	17.56609636	21.39	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	-0.0001
Na 589.592	Na-R	n	0.13801486	0.13801486	mg/L	2070.78794028	0.00895623	6.48932533	119.34150196	5.76	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	0.1446E
Ni 231.604	Ni	nu	-0.00215441	-0.00215441	mg/L	94.85040105	0.00047734	22.15652397	12.25499892	12.92	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	-0.0023
P 177.434	P	nu	-0.01770943	-0.01770943	mg/L	2.94140013	0.00180036	10.16612954	1.02489284	34.84		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	-0.0164
Pb 220.353	Pb	nu	0.00049119	0.00049119	mg/L	-1006.65120778	0.00285855	581.96604799	29.50534035	2.93	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.0037E
S 181.972	S	n	0.12755842	0.12755842	mg/L	348.87264662	0.00522946	4.09966197	8.67133266	2.49		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	0.1224E
Sb 206.834	Sb	nu	0.00222990	0.00222990	mg/L	-76.78918402	0.00416178	186.63560794	13.97252223	18.20	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.0023
Se 196.026	Se	nu	0.00086856	0.00086856	mg/L	99.67451379	0.00324049	373.08718862	12.07758010	12.12	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	-0.0028
Si 251.611	Si	nu	-0.06706342	-0.06706342	mg/L	256.70072201	0.00337398	5.03103417	31.31106751	12.20		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	-0.0702
Sn 189.925	Sn	nKu	-0.00830439	-0.00830439	mg/L	33.19030088	0.00028750	3.46207212	3.26105491	9.83	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	-0.0079
Sr 421.552	Sr-R	nu	-0.00638654	-0.00638654	mg/L	1529.77418546	0.00006993	1.09498927	41.20006457	2.69	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	-0.0063
Ti 334.941	Ti	nu	-0.00134633	-0.00134633	mg/L	573.96872851	0.00027856	20.68995551	108.02925370	18.82	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	-0.0014
Tl 190.794	Tl	n	0.00335676	0.00335676	mg/L	12.21256799	0.00046573	13.87451471	1.57106398	12.86	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.0038E
V 292.401	V	nu	-0.00027353	-0.00027353	mg/L	-115.85694213	0.00027545	100.70070219	11.07953741	9.56	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	-0.0002
Zn 206.200	Zn	nKu	-0.02461581	-0.02461581	mg/L	160.69110385	0.00006683	0.27148773	3.87227083	2.41	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	-0.0246
Y 371.029	Y		0.91	0.91	Ratio	802839.84	0.01	0.60	4841.14	0.60		-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R		0.92	0.92	Ratio	235471.95	0.00	0.43	1001.91	0.43		-	-	-	Fitted	-	-	0.92

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950014	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 08:30
Caldate: 30-AUG-2023	

Standards: S18816

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9880	mg/L	-1	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	803586	-8.86
Yttrium	R	255485	236550	-7.41

Label: ICSAB,S18816

Rack:Tube: S1:15

Type: QC

Date Time: 8/30/2023 8:30:44 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal/Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concent Replicat
Ag 328.068	Ag	n	1.07543507	1.07543507	mg/L	92532.93413373	0.01523543	1.41667571	1301.91063751	1.41		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	1.0582
Al 396.152	Al	no	374.16511776	374.16511776	mg/L	15331248.39731980	6.65760967	1.77932398	272756.12267739	1.78	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	366.84
As 188.980	As	nu	-0.00307482	-0.00307482	mg/L	49.52559479	0.00198289	64.48797757	11.25666844	22.73	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	-0.002
B 249.678	B	nu	-0.00039015	-0.00039015	mg/L	343.95155016	0.00055336	141.82992217	23.43920216	6.81	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.0002
Ba 230.424	Ba	n	0.54328758	0.54328758	mg/L	58916.71441485	0.00780163	1.43600416	838.41445167	1.42	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.534E
Be 313.107	Be	n	0.51573874	0.51573874	mg/L	1419487.40401644	0.00968066	1.87704736	26553.70110896	1.87	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.5052
Ca 317.933	Ca-R	no	396.42694794	396.42694794	mg/L	6682222.26293315	1.54980485	0.39094336	26112.55302168	0.39	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	395.42
Cd 214.439	Cd	n	0.98635215	0.98635215	mg/L	209615.93705836	0.01124607	1.14016751	2379.62171713	1.14	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.9742
Co 230.786	Co	n	0.49208033	0.49208033	mg/L	22260.92302763	0.00708702	1.44021690	316.04236675	1.42	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.4843
Cr 267.716	Cr	n	0.49327653	0.49327653	mg/L	36563.66989033	0.00820654	1.66367976	603.29960395	1.65	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.4842
Cu 324.754	Cu	n	0.53488681	0.53488681	mg/L	24653.98950940	0.00870044	1.62659390	387.90989555	1.57	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.525C
Fe 259.940	Fe	no	144.80868117	144.80868117	mg/L	9830267.59221040	2.62819211	1.81494099	178386.06607258	1.81	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	141.87
K 766.491	K-R	nu	-0.02108473	-0.02108473	mg/L	87.79609915	0.00289397	13.72541331	5.29929448	6.04	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	-0.021
Li 670.783	Li-R	nu	-0.00480015	-0.00480015	mg/L	121.27827676	0.00035524	7.40056980	47.21447367	38.93	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	-0.004
Mg 279.800	Mg-R	no	407.10126039	407.10126039	mg/L	1204804.69640244	1.41959660	0.34870848	4199.38098204	0.35	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	405.7C
Mn 257.610	Mn	n	0.50484049	0.50484049	mg/L	239972.52419672	0.00693980	1.37465262	3281.32525138	1.37	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.4972
Mo 204.598	Mo	nu	0.00071605	0.00071605	mg/L	81.78890077	0.00098669	137.79611550	9.96403265	12.18	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.000E
Na 589.592	Na-R	n	0.35244654	0.35244654	mg/L	4932.43430647	0.00784793	2.22670098	104.57340461	2.12	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	0.361C
Ni 231.604	Ni	n	0.96803804	0.96803804	mg/L	25001.91255204	0.01310534	1.35380450	336.45859009	1.35	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.9534
P 177.434	P	nu	-0.01727100	-0.01727100	mg/L	3.02548716	0.00365404	21.15706257	2.08013270	68.75		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	-0.020
Pb 220.353	Pb	n	0.98803891	0.98803891	mg/L	9202.70133275	0.01074254	1.08725915	110.88209964	1.20	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.9763
S 181.972	S	n	0.12381076	0.12381076	mg/L	342.31088250	0.00236602	1.91099524	3.92325610	1.15		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	0.1211
Sb 206.834	Sb	nu	0.00161780	0.00161780	mg/L	-78.65746109	0.00394231	243.68396372	13.23568287	16.83	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.002E
Se 196.026	Se	nu	-0.00007622	-0.00007622	mg/L	95.53132881	0.00322630	4232.65393946	12.02467283	12.59	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	-0.003
Si 251.611	Si	nu	-0.06640266	-0.06640266	mg/L	262.58261361	0.00564288	8.49796949	52.36674478	19.94		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	-0.070
Sn 189.925	Sn	nu	-0.00834583	-0.00834583	mg/L	31.08441621	0.00076727	9.19342031	8.70283512	28.00	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	-0.007
Sr 421.552	Sr-R	nu	-0.00631002	-0.00631002	mg/L	1497.71996265	0.00002027	0.32117963	11.93991581	0.80	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	-0.006
Ti 334.941	Ti	nu	-0.00124305	-0.00124305	mg/L	602.27142252	0.00013924	11.20156898	54.00058430	8.97	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	-0.001
Tl 190.794	Tl	n	0.00244652	0.00244652	mg/L	9.02484017	0.00088575	36.20443539	2.98790367	33.11	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.001E
V 292.401	V	n	0.51711131	0.51711131	mg/L	20696.72992552	0.00952255	1.84148919	383.03426333	1.85	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.506E
Zn 206.200	Zn	n	0.96644724	0.96644724	mg/L	57564.55357606	0.01194148	1.23560640	691.92601342	1.20	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	0.952E
Y 371.029	Y	0.91	0.91	Ratio	803585.63	0.01	0.60	4810.31	0.60		-	-	-	-	Fitted	-	-	0.91
Y 371.029	Y-R	0.93	0.93	Ratio	236550.44	0.01	0.68	1614.24	0.68		-	-	-	-	Fitted	-	-	0.93

ENTHALPY CONTINUING CALIBRATION FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950025	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 09:05
Caldate: 30-AUG-2023	

Standards: S18803

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	7398.9	10521	1.000	1.021	mg/L	2	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	860294	-2.43
Yttrium	R	255485	248241	-2.84

Label: CCV,S18803

Rack:Tube: S1:12

Type: QC

Date Time: 8/30/2023 9:05:03 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	n	0.51934436	0.51934436	mg/L	44933.21789807	0.00542080	1.04377789	463.22292950	1.03		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.51320770
Al 396.152	Al	n	1.08949710	1.08949710	mg/L	45979.90386762	0.01500914	1.37762049	614.91041704	1.34	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	1.07289420
As 188.980	As	n	1.05244238	1.05244238	mg/L	5993.17346726	0.01269822	1.20654756	72.08655889	1.20	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	1.03827097
B 249.678	B	n	1.07192495	1.07192495	mg/L	45663.07718231	0.01386749	1.29370016	587.40340521	1.29	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	1.05663504
Ba 230.424	Ba	nQ	1.11121113	1.11121113	mg/L	119606.29057893	0.01408126	1.26719928	1513.26427623	1.27	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	1.09604296
Be 313.107	Be	n	1.05606099	1.05606099	mg/L	2896801.80593394	0.01547732	1.46557086	42453.73397948	1.47	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	1.03830157
Ca 317.933	Ca-R	n	55.42996439	55.42996439	mg/L	936114.76205379	0.05694307	0.10272975	959.42972858	0.10	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	55.49571202
Cd 214.439	Cd	n	1.04022457	1.04022457	mg/L	220144.64939618	0.01121504	1.07813641	2373.05655723	1.08	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	1.02837453
Co 230.786	Co	n	1.04822777	1.04822777	mg/L	46851.04971692	0.01163724	1.11018223	518.95694086	1.11	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	1.03499915
Cr 267.716	Cr	n	1.00696479	1.00696479	mg/L	74136.72615271	0.01357735	1.34834409	998.13176452	1.35	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.99196450
Cu 324.754	Cu	n	1.03442290	1.03442290	mg/L	46651.59245063	0.01108537	1.07164773	494.24240352	1.06	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	1.02178237
Fe 259.940	Fe	n	1.05854306	1.05854306	mg/L	72192.66478514	0.01297320	1.22557092	880.54346622	1.22	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	1.04412876
K 766.491	K-R	n	63.31838040	63.31838040	mg/L	115951.53269523	0.22540107	0.35598047	412.74381104	0.36	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	63.29886194
Li 670.783	Li-R	n	1.04866515	1.04866515	mg/L	139439.09638392	0.00418459	0.39903942	556.17014005	0.40	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	1.04751759
Mg 279.800	Mg-R	n	54.48739187	54.48739187	mg/L	161281.41217254	0.13829075	0.25380320	409.08489608	0.25	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	54.62686142
Mn 257.610	Mn	n	1.02230760	1.02230760	mg/L	483420.95894772	0.00815941	0.79813611	3857.98632219	0.80	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	1.01369077
Mo 204.598	Mo	n	1.03745685	1.03745685	mg/L	10485.21785185	0.02299769	2.21673700	232.24146863	2.21	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	1.01316670
Na 589.592	Na-R	n	53.68643494	53.68643494	mg/L	715959.26729494	0.11855205	0.22082311	1579.70201014	0.22	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	53.55863711
Ni 231.604	Ni	n	1.02100974	1.02100974	mg/L	26295.11628402	0.01153373	1.12964000	296.11007887	1.13	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	1.00797851
P 177.434	P	n	5.24350144	5.24350144	mg/L	2987.77198271	0.05471867	1.04355220	31.14969163	1.04		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	5.18090041
Pb 220.353	Pb	n	1.02090638	1.02090638	mg/L	10520.59223613	0.01225019	1.19993277	126.44368794	1.20	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	1.00699762
S 181.972	S	nQ	5.70725723	5.70725723	mg/L	9580.43147656	0.03928104	0.68826477	65.13458762	0.68		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	5.66221805
Sb 206.834	Sb	n	1.04628375	1.04628375	mg/L	3437.63924043	0.01924809	1.83966291	64.62242204	1.88	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	1.02443665
Se 196.026	Se	n	1.03862137	1.03862137	mg/L	3933.74338087	0.01547552	1.49000566	57.67851093	1.47	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	1.02216405
Si 251.611	Si	nQ	7.25123588	7.25123588	mg/L	68161.46349145	0.67405420	9.29571464	6255.32323977	9.18		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	6.56329526
Sn 189.925	Sn	n	5.29889001	5.29889001	mg/L	60128.22802281	0.06274715	1.18415656	711.71837558	1.18	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	5.23090220
Sr 421.552	Sr-R	n	1.06821035	1.06821035	mg/L	630152.05194899	0.00608074	0.56924597	3582.44047119	0.57	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	1.06493751
Ti 334.941	Ti	n	1.06492825	1.06492825	mg/L	413376.05097114	0.01657736	1.55666492	6429.03499151	1.56	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	1.04646446
Tl 190.794	Tl	nQ	1.10131069	1.10131069	mg/L	3709.33338354	0.02195946	1.99393882	74.07605396	2.00	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	1.07680517
V 292.401	V	n	1.04438365	1.04438365	mg/L	41995.72142810	0.01443644	1.38229249	580.69010812	1.38	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	1.02845428
Zn 206.200	Zn	n	1.06075854	1.06075854	mg/L	61494.35694304	0.00825062	0.77780393	478.06619272	0.78	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	1.05342595
Y 371.029	Y		0.98	0.98	Ratio	860293.86	0.01	0.93	8029.02	0.93		-	-	-	Fitted	-	-	0.97
Y 371.029	Y-R		0.97	0.97	Ratio	248241.36	0.01	0.85	2113.90	0.85		-	-	-	Fitted	-	-	0.98

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950026	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 09:08
Caldate: 30-AUG-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	881301	-0.04
Yttrium	R	255485	258815	1.30

Label: CCB Rack/Tube: S1:1 Type: QC
 Date Time: 8/30/2023 9:08:09 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration #	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	nu	-0.00003017	-0.00003017	mg/L	551.17266761	0.00033411	1107.44455484	28.55093070	5.18		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	-0.00010884	0.00010884
Al 396.152	Al	nu	-0.00096429	-0.00096429	mg/L	1202.24085243	0.00007045	7.30616623	2.88638853	0.24	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	-0.00099401	-0.00099401
As 188.980	As	nu	-0.00020949	-0.00020949	mg/L	15.16104061	0.00095104	453.98570222	5.39895462	35.61	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	-0.00016764	-0.00016764
B 249.678	B	n	0.00264465	0.00264465	mg/L	360.06931676	0.00023200	8.77255962	9.82725702	2.73	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.00286214	0.00286214
Ba 230.424	Ba	n	0.00050151	0.00050151	mg/L	222.74267653	0.00014418	28.74877478	15.49443848	6.96	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.00061888	0.00061888
Be 313.107	Be	n	0.00001031	0.00001031	mg/L	68.02609680	0.00000215	20.90302849	5.91003143	8.69	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.00001279	0.00001279
Ca 317.933	Ca-R	nu	-0.01093310	-0.01093310	mg/L	2019.17639152	0.00199241	18.22364016	33.56994323	1.66	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	-0.00865578	-0.00865578
Cd 214.439	Cd	nu	-0.00004724	-0.00004724	mg/L	18.03154551	0.00000930	19.67805587	1.96689012	10.91	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00004378	-0.00004378
Co 230.786	Co	n	0.00039796	0.00039796	mg/L	118.61741449	0.00032761	82.32111669	14.60948481	12.32	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00052275	0.00052275
Cr 267.716	Cr	nu	-0.00011390	-0.00011390	mg/L	94.26514687	0.00015717	137.99046524	11.55420388	12.26	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.00001205	-0.00001205
Cu 324.754	Cu	n	0.00095302	0.00095302	mg/L	554.24644523	0.00009937	10.42652165	4.43025961	0.80	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.00105386	0.00105386
Fe 259.940	Fe	n	0.00237247	0.00237247	mg/L	363.14793683	0.00043099	18.16607844	29.25271819	8.06	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	0.00187487	0.00187487
K 766.491	K-R	n	0.06524762	0.06524762	mg/L	121.93045925	0.01442115	22.10219289	26.40733857	21.66	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	0.06936780	-0.06936780
Li 670.783	Li-R	nu	-0.00085125	-0.00085125	mg/L	-100.96103806	0.00059327	69.69430231	78.85108764	78.10	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	-0.00141250	-0.00141250
Mg 279.800	Mg-R	nu	-0.00666326	-0.00666326	mg/L	76.17596263	0.00124487	18.68266058	3.68252651	4.83	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	-0.00770433	-0.00770433
Mn 257.610	Mn	n	0.00012213	0.00012213	mg/L	59.36342127	0.00001016	8.32259672	4.80584782	8.10	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.00013310	0.00013310
Mo 204.598	Mo	n	0.00291121	0.00291121	mg/L	37.74353150	0.00150362	51.64925263	15.18424014	40.23	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00146562	0.00146562
Na 589.592	Na-R	nu	0.00267577	0.00267577	mg/L	625.02821270	0.00666119	248.94510838	88.76010659	14.20	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	0.01011621	0.01011621
Ni 231.604	Ni	nu	-0.00016730	-0.00016730	mg/L	77.16134750	0.00053975	322.62364849	13.85717166	17.96	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	-0.00061507	-0.00061507
P 177.434	P	nu	-0.00213761	-0.00213761	mg/L	1.53747665	0.00043125	20.17415040	0.24549508	15.97		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	-0.00242115	-0.00242115
Pb 220.353	Pb	nu	-0.00234532	-0.00234532	mg/L	-38.67788346	0.00178545	76.12810545	18.42896159	47.65	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	-0.00440647	-0.00440647
S 181.972	S	nu	-0.00278256	-0.00278256	mg/L	115.37369018	0.00064789	23.28410631	1.07431905	0.93		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	-0.00239259	-0.00239259
Sb 206.834	Sb	nu	-0.00112816	-0.00112816	mg/L	-79.49701659	0.00080104	71.00378890	2.68935438	3.38	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	-0.00070650	-0.00070650
Se 196.026	Se	nu	-0.00164579	-0.00164579	mg/L	51.97615207	0.00141651	86.06868082	5.27943734	10.16	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	-0.00046172	-0.00046172
Si 251.611	Si	nu	-0.06683953	-0.06683953	mg/L	251.48087714	0.00340416	5.09304115	31.59115613	12.56		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	-0.06994364	-0.06994364
Sn 189.925	Sn	n	0.00232633	0.00232633	mg/L	52.00739040	0.00127395	54.76247642	14.44999268	27.78	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.00119408	0.00119408
Sr 421.552	Sr-R	nu	-0.00045587	-0.00045587	mg/L	16.77095011	0.00001761	3.86193608	10.37209215	61.85	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	-0.00045047	-0.00045047
Ti 334.941	Ti	n	0.00135032	0.00135032	mg/L	892.81139228	0.00048592	35.98517002	188.44816348	21.11	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.00082853	0.00082853
Tl 190.794	Tl	n	0.00283143	0.00283143	mg/L	3.06342621	0.00064460	22.76586061	2.17443171	70.98	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.00340048	0.00340048
V 292.401	V	n	0.00036316	0.00036316	mg/L	8.57346298	0.00021105	58.11584862	8.48930551	99.02	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00053572	0.00053572
Zn 206.200	Zn	n	0.00043381	0.00043381	mg/L	106.23990954	0.00012948	29.84859034	7.50274387	7.06	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	0.00035697	0.00035697
Y 371.029	Y		1.00	1.00	Ratio	881301.28	0.01	0.81	7163.06	0.81		-	-	-	Fitted	-	-	0.99	1.00
Y 371.029	Y-R		1.01	1.01	Ratio	258814.82	0.01	0.64	1661.55	0.64		-	-	-	Fitted	-	-	1.01	1.00

ENTHALPY CONTINUING CALIBRATION FOR 491224 METALS Wipe
EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950038	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 09:55
Caldate: 30-AUG-2023	

Standards: S18803

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	7398.9	9609.3	1.000	0.9326	mg/L	-7	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	885095	0.39
Yttrium	R	255485	256801	0.52

Label: CCV,S18803

Rack:Tube: S1:12

Type: QC

Date Time: 8/30/2023 9:55:43 AM

Weight: -

Volume: -

Dilution: -

%RSE limit: -

Calibration Coefficient [3]: -

LIMS ID: -

Customer: -

Customer Ref.: -

Sample Date Time: -

Sample Site: -

Description: -

Replicates: 3

Flags Replicate 1: -

Flags Replicate 2: -

Flags Replicate 3: -

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	nl	0.47169740	0.47169740	mg/L	40861.64540318	0.00475993	1.00910569	406.74916295	1.00		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	0.46621812
Al 396.152	Al	nl	0.97407764	0.97407764	mg/L	41241.48881420	0.01584205	1.62636424	649.03418096	1.57	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	0.95608234
As 188.980	As	nl	0.96095891	0.96095891	mg/L	5473.61690846	0.01126105	1.17185566	63.92790294	1.17	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.94814258
B 249.678	B	nl	0.98764560	0.98764560	mg/L	42092.17734987	0.01372426	1.38959332	581.33610211	1.38	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.97205990
Ba 230.424	Ba	nl	1.01599533	1.01599533	mg/L	109371.91251968	0.01712049	1.68509500	1839.87949530	1.68	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.99645922
Be 313.107	Be	nl	0.96356034	0.96356034	mg/L	2643073.39862417	0.01430185	1.48427091	39229.44520512	1.48	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	0.94767703
Ca 317.933	Ca-R	nl	50.13591579	50.13591579	mg/L	846918.03033693	0.17827701	0.35558742	3003.77680940	0.35	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	50.26375536
Cd 214.439	Cd	nl	0.95008652	0.95008652	mg/L	201070.88777010	0.01741889	1.83340073	3685.76656257	1.83	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	0.92997700
Co 230.786	Co	nl	0.95902790	0.95902790	mg/L	42872.74363367	0.01522885	1.58794615	679.12294773	1.58	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.94154738
Cr 267.716	Cr	nl	0.92188895	0.92188895	mg/L	67881.69169032	0.01360024	1.47525784	999.81441164	1.47	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.90643096
Cu 324.754	Cu	nl	0.93657900	0.93657900	mg/L	42287.29646240	0.01072089	1.14468562	477.99183040	1.13	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.92426099
Fe 259.940	Fe	nl	0.96412465	0.96412465	mg/L	65770.35346957	0.01571528	1.63000532	1066.66005253	1.62	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	0.94624247
K 766.491	K-R	nl	57.23849972	57.23849972	mg/L	104818.01094328	0.23421315	0.40918813	428.88007050	0.41	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	57.29544356
Li 670.783	Li-R	nl	0.95106070	0.95106070	mg/L	126461.79301552	0.00416573	0.43800912	553.66417449	0.44	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	0.94963366
Mg 279.800	Mg-R	nl	49.25478492	49.25478492	mg/L	145802.21530344	0.35054003	0.71168726	1036.95031241	0.71	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	49.50460308
Mn 257.610	Mn	nl	0.94334337	0.94334337	mg/L	446080.22669220	0.01374132	1.45666198	6497.26708741	1.46	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.92774333
Mo 204.598	Mo	nl	0.94641233	0.94641233	mg/L	9565.79266905	0.02296170	2.42618396	231.87806851	2.42	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.92044033
Na 589.592	Na-R	nl	48.47516778	48.47516778	mg/L	646519.33663182	0.11609043	0.23948434	1546.90102290	0.24	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	48.47666833
Ni 231.604	Ni	nl	0.93307581	0.93307581	mg/L	24037.46804148	0.01234590	1.32313968	316.96102668	1.32	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.91891248
P 177.434	P	nl	4.93048994	4.93048994	mg/L	2809.57900713	0.05583175	1.13237731	31.78333161	1.13		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	4.86604071
Pb 220.353	Pb	nl	0.93259098	0.93259098	mg/L	9609.28077803	0.00989226	1.06072830	102.10562976	1.06	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	0.92133404
S 181.972	S	nl	5.22012849	5.22012849	mg/L	8772.99338866	0.04940848	0.94649938	81.92759550	0.93		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	5.16342076
Sb 206.834	Sb	nl	0.95097227	0.95097227	mg/L	3117.58716646	0.01321009	1.38911392	44.35077524	1.42	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.93611637
Se 196.026	Se	nl	0.95132500	0.95132500	mg/L	3607.94232196	0.01664492	1.74965669	62.03697566	1.72	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.93223004
Si 251.611	Si	nQ!	6.22222014	6.22222014	mg/L	58612.31888572	0.50216346	8.07048685	4660.15162230	7.95		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	5.70648113
Sn 189.925	Sn	nl	4.83205418	4.83205418	mg/L	54833.15090575	0.09927684	2.05454742	1126.06150952	2.05	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	4.71751272
Sr 421.552	Sr-R	nl	0.96128504	0.96128504	mg/L	567106.42923263	0.00232019	0.24136312	1366.92704669	0.24	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	0.96025806
Ti 334.941	Ti	nl	0.97150612	0.97150612	mg/L	377144.45799577	0.01876913	1.93196249	7279.04711803	1.93	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.95280246
Tl 190.794	Tl	nl	1.00157995	1.00157995	mg/L	3372.83795965	0.02529810	2.52581972	85.33832763	2.53	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.97310668
V 292.401	V	nl	0.95113011	0.95113011	mg/L	38245.41316373	0.01423615	1.49676174	572.63385591	1.50	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.93515559
Zn 206.200	Zn	nl	0.95804374	0.95804374	mg/L	55547.49903253	0.01673935	1.74724303	969.92915780	1.75	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	0.93877187
Y 371.029	Y	!	1.00	1.00	Ratio	885094.70	0.01	0.53	4678.98	0.53		-	-	-	Fitted	-	-	1.00
Y 371.029	Y-R	!	1.01	1.01	Ratio	256801.13	0.00	0.43	1110.47	0.43		-	-	-	Fitted	-	-	1.01

ENTHALPY INSTRUMENT BLANK FOR 491224 METALS Wipe

EPA 6010B

Inst: MET09	IDF: 1.0
Seqnum: 673348950039	File: icp data
Cal: 673348950001	Time: 30-AUG-2023 09:58
Caldate: 30-AUG-2023	

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	881675	902046	2.31
Yttrium	R	255485	267088	4.54

Label: CCB Rack/Tube: S1:1 Type: QC
 Date Time: 8/30/2023 9:58:51 AM Weight: - Volume: -
 Dilution: - %RSE limit: - Calibration Coefficient [3]: -
 LIMS ID: - Customer: - Customer Ref.: -
 Sample Date Time: - Sample Site: - Description: -
 Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration #	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	nlu	-0.00018792	-0.00018792	mg/L	537.69573975	0.00023507	125.09398256	20.08761056	3.74		Y (371.029 nm)	Linear	1.00000	Fitted	553.751005433673	85452.8460873406	-0.00045917	-0.00045917
Al 396.152	Al	nlu	-0.00211330	-0.00211330	mg/L	1155.16244870	0.00060641	28.69513110	24.84421713	2.15	6.53044957	Y (371.029 nm)	Linear	0.99985	Fitted	1241.79535123009	40969.0768971889	-0.00168645	-0.00168645
As 188.980	As	nlu	-0.00022844	-0.00022844	mg/L	15.05340961	0.00104808	458.80735252	5.94984599	39.52	9.72276565	Y (371.029 nm)	Linear	0.99999	Fitted	16.3499069771723	5676.9036191138	0.00030545	0.00030545
B 249.678	B	nl	0.00243340	0.00243340	mg/L	351.12312684	0.00020784	8.54129691	8.80390851	2.51	9.19978466	Y (371.029 nm)	Linear	0.99999	Fitted	248.050354790408	42358.2926276001	0.00265138	0.00265138
Ba 230.424	Ba	nl	0.00024792	0.00024792	mg/L	195.49306268	0.00002020	8.14600592	2.17039211	1.11	7.82833959	Y (371.029 nm)	Linear	0.99999	Fitted	168.852433908466	107466.542556625	0.00022494	0.00022494
Be 313.107	Be	nlu	-0.00001444	-0.00001444	mg/L	0.24747757	0.00000667	46.18294194	18.29601485	> 100.00	3.74702855	Y (371.029 nm)	Linear	0.99995	Fitted	39.7803777827508	2742963.79125874	-0.00000700	-0.00000700
Ca 317.933	Ca-R	nlu	-0.01512390	-0.01512390	mg/L	1948.59330009	0.00118117	7.80996919	19.90148136	1.02	14.71930368	Y-R (371.029 nm)	Linear	0.99999	Fitted	2203.39842359021	16848.9297438403	-0.01590829	-0.01590829
Cd 214.439	Cd	nlu	-0.00001622	-0.00001622	mg/L	24.59660877	0.00003441	212.16701973	7.28103746	29.60	3.72540027	Y (371.029 nm)	Linear	0.99987	Fitted	28.0203370183153	211595.910137908	-0.00001729	-0.00001729
Co 230.786	Co	nl	0.00049081	0.00049081	mg/L	122.75713109	0.00021780	44.37653273	9.71284248	7.91	8.41131279	Y (371.029 nm)	Linear	0.99999	Fitted	100.869654925906	44594.5096397719	0.00040176	0.00040176
Cr 267.716	Cr	nlu	-0.00005376	-0.00005376	mg/L	98.68945745	0.00019622	364.98344325	14.42470188	14.62	2.46360616	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	102.642677008088	73514.4736818593	0.00004240	0.00004240
Cu 324.754	Cu	nl	0.00058828	0.00058828	mg/L	537.98814200	0.00016317	27.73702105	7.27507397	1.35	19.39981478	Y (371.029 nm)	Linear	0.99988	Fitted	511.763791236307	44585.108850204	0.00072938	0.00072938
Fe 259.940	Fe	nlu	0.00014230	0.00014230	mg/L	211.77744484	0.00058413	410.48375856	39.64746673	18.72	2.88662065	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	202.132096565255	67874.0588377364	-0.00039361	-0.00039361
K 766.491	K-R	nl	0.04494837	0.04494837	mg/L	84.76221584	0.01281823	28.51768672	23.47214759	27.69	7.96508834	Y-R (371.029 nm)	Linear	0.99999	Fitted	2.45439959299961	1831.15285969643	0.03036879	0.03036879
Li 670.783	Li-R	nlu	-0.00166118	-0.00166118	mg/L	-208.60392496	0.00026065	15.69070695	34.64288911	16.61	5.89202850	Y-R (371.029 nm)	Linear	0.99999	FACT	12.1879099521634	132909.195422138	-0.00137793	-0.00137793
Mg 279.800	Mg-R	nlu	-0.00296515	-0.00296515	mg/L	87.11879368	0.00134919	45.50141921	3.99109364	4.58	5.47283723	Y-R (371.029 nm)	Linear	0.99997	Fitted	95.8846033172676	2958.15091758053	-0.00141735	-0.00141735
Mn 257.610	Mn	nl	0.00005962	0.00005962	mg/L	29.81645215	0.00001620	27.17355454	7.66008141	25.69	4.12889049	Y (371.029 nm)	Linear	0.99994	Fitted	1.62498971706739	472826.855034671	0.00004182	0.00004182
Mo 204.598	Mo	nl	0.00295385	0.00295385	mg/L	38.17585692	0.00085143	28.82437995	8.59813913	22.52	5.40212322	Y (371.029 nm)	Linear	1.00000	Fitted	8.34528659707811	10098.4694399118	0.00228376	0.00228376
Na 589.592	Na-R	nl	0.00655899	0.00655899	mg/L	676.79855980	0.00073903	11.26735944	9.84748982	1.46	8.17953493	Y-R (371.029 nm)	Linear	0.99999	Fitted	589.39747145035	13324.9654801026	0.00577872	0.00577872
Ni 231.604	Ni	nlu	-0.00005725	-0.00005725	mg/L	79.98728936	0.00029350	512.62962270	7.53508621	9.42	2.87575333	Y (371.029 nm)	Linear	0.99998	Off-Peak Left+Right	81.4562115735417	25673.3913586696	0.00023332	-0.00023332
P 177.434	P	nlu	0.00107343	0.00107343	mg/L	3.36566505	0.00287304	267.65088125	1.63553627	48.59		Y (371.029 nm)	Linear	1.00000	Fitted	2.75442697045003	569.269850222139	0.00346278	-0.00346278
Pb 220.353	Pb	nlu	-0.00068146	-0.00068146	mg/L	-21.52853396	0.00106323	156.02230866	10.97442259	50.98	41.48453441	Y (371.029 nm)	Linear	0.99998	Off-Peak Right	-14.4732148771195	10321.7734229013	-0.00189601	-0.00189601
S 181.972	S	nlu	-0.00645930	-0.00645930	mg/L	109.27896733	0.00269935	41.79013667	4.47598046	4.10		Y (371.029 nm)	Linear	1.00000	Fitted	119.988546912851	1658.16857641515	-0.00452648	-0.00452648
Sb 206.834	Sb	nlu	-0.00046364	-0.00046364	mg/L	-77.26743737	0.00310152	668.95303634	10.41284567	13.48	3.08179658	Y (371.029 nm)	Linear	0.99996	Off-Peak Right	-75.7097480156327	3357.34135378559	0.00004196	0.00004196
Se 196.026	Se	nlu	-0.00085635	-0.00085635	mg/L	54.91937627	0.00079491	92.82597381	2.96270764	5.39	9.75905376	Y (371.029 nm)	Linear	1.00000	Fitted	58.1125691239103	3727.0813226359	0.00001937	-0.00001937
Si 251.611	Si	nlu	-0.06889702	-0.06889702	mg/L	232.39046358	0.00236243	3.42893353	21.92372915	9.43		Y (371.029 nm)	Linear	1.00000	Fitted	871.763394035489	9280.14881424	-0.07090954	-0.07090954
Sn 189.925	Sn	nl	0.00149780	0.00149780	mg/L	42.61209493	0.00073955	49.37560635	8.38844329	19.69	2.86013827	Y (371.029 nm)	Linear	0.99999	Fitted	25.6204245589627	11342.6400378715	0.00107708	0.00107708
Sr 421.552	Sr-R	nlu	-0.00040687	-0.00040687	mg/L	45.64291939	0.00003170	7.79150102	18.67659468	40.92	3.58443423	Y-R (371.029 nm)	Linear	0.99997	Fitted	285.651457197719	589145.060153264	-0.00037596	-0.00037596
Ti 334.941	Ti	nl	0.00108185	0.00108185	mg/L	788.70717476	0.00024015	22.19810236	93.13467301	11.81	1.67538696	Y (371.029 nm)	Linear	0.99998	Fitted	369.138125173879	387820.089337632	0.00089610	0.00089610
Tl 190.794	Tl	nl	0.00333709	0.00333709	mg/L	4.76931350	0.00060895	18.24782980	2.05416563	43.07	21.95027866	Y (371.029 nm)	Linear	1.00000	Fitted	-6.48755878096215	3373.30923524617	0.00271870	0.00271870
V 292.401	V	nl	0.00055529	0.00055529	mg/L	16.30621717	0.00030195	54.37719282	12.14575956	74.49	6.12790059	Y (371.029 nm)	Linear	0.99999	Off-Peak Left+Right	-6.03427895651242	40223.9222238217	0.00044560	0.00044560
Zn 206.200	Zn	nlu	-0.00063395	-0.00063395	mg/L	44.33400984	0.00002617	4.12864556	1.51658342	3.42	5.39683843	Y (371.029 nm)	Linear	0.99980	Fitted	81.0388720417119	57943.0513184825	-0.00063512	-0.00063512
Y 371.029	Y	!	1.02	1.02	Ratio	902045.76	0.01	0.72	6502.99	0.72		-	-	-	Fitted	-	-	1.02	1.02
Y 371.029	Y-R	!	1.05	1.05	Ratio	267087.85	0.01	0.53	1427.03	0.53		-	-	-	Fitted	-	-	1.05	1.05



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 491258
Report Level: II
Report Date: 09/06/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore	Lab Job #:	491258
Rincon Consultants	Project No:	20-10491
449 15th Street	Location:	Hangar 1 NTCRA
#303	Date Received:	08/28/23
Oakland, CA 94612		

Sample ID	Lab ID	Collected	Matrix
ARCH-C8W-DG-3 TO 3.5-230828-P-FB	491258-001	08/28/23 09:45	Wipe
ARCH-C8W-DG-3 TO 3.5-230828-P-DUP-FB	491258-002	08/28/23 09:45	Wipe
ARCH-C8W-DG-3 TO 3.5-230828-L-FB	491258-003	08/28/23 09:45	Wipe
ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-P-LA	491258-004	08/28/23 09:55	Wipe
ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-L-LA	491258-005	08/28/23 09:55	Wipe
ARCH-C9W-PS-3.5-230828-P-G	491258-006	08/28/23 07:35	Wipe
ARCH-C9W-PS-3.5-230828-L-G	491258-007	08/28/23 07:35	Wipe
ARCH-C10W-INT-2.5 TO 3.5-230828-P-WF	491258-008	08/28/23 08:05	Wipe
ARCH-C10W-INT-2.5 TO 3.5-230828-L-WF	491258-009	08/28/23 08:05	Wipe
ARCH-C10W-INT-2.5 TO 3.5-230828-L-DUP-WF	491258-010	08/28/23 08:05	Wipe
ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-P-LA	491258-011	08/28/23 08:40	Wipe
ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-L-LA	491258-012	08/28/23 08:40	Wipe
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-P-LA	491258-013	08/28/23 08:25	Wipe
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-P-DUP-LA	491258-014	08/28/23 08:25	Wipe
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-L-LA	491258-015	08/28/23 08:25	Wipe

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 491258
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 08/28/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C9W-DG-4 TO 4.5-230828-P-FB	491258-016	08/28/23 08:55	Wipe
ARCH-C9W-DG-4 TO 4.5-230828-L-FB	491258-017	08/28/23 08:55	Wipe
ARCH-C9W-DG-4 TO 4.5-230828-L-DUP-FB	491258-018	08/28/23 08:55	Wipe
ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-P-LA	491258-019	08/28/23 09:10	Wipe
ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-L-LA	491258-020	08/28/23 09:10	Wipe
ARCH-C8W-DG-4.5 TO 5-230828-P-FB	491258-021	08/28/23 09:45	Wipe
ARCH-C8W-DG-4.5 TO 5-230828-L-FB	491258-022	08/28/23 09:45	Wipe
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-P-LA	491258-023	08/28/23 09:25	Wipe
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-L-LA	491258-024	08/28/23 09:25	Wipe
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-L-DUP-LA	491258-025	08/28/23 09:25	Wipe
ARCH-C11W-PS-4.5-230828-P-G	491258-026	08/28/23 09:55	Wipe
ARCH-C11W-PS-4.5-230828-L-G	491258-027	08/28/23 09:55	Wipe
ARCH-C9W-INT-4.5 TO 5.5-230828-P-WF	491258-028	08/28/23 10:05	Wipe
ARCH-C9W-INT-4.5 TO 5.5-230828-L-WF	491258-029	08/28/23 10:05	Wipe
ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-P-LA	491258-030	08/28/23 10:30	Wipe
ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-L-LA	491258-031	08/28/23 10:30	Wipe

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 491258
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 08/28/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-P-LA	491258-032	08/28/23 10:20	Wipe
ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-L-LA	491258-033	08/28/23 10:20	Wipe
ARCH-C10W-DG-5 TO 5.5-230828-P-FB	491258-034	08/28/23 10:45	Wipe
ARCH-C10W-DG-5 TO 5.5-230828-P-DUP-FB	491258-035	08/28/23 10:45	Wipe
ARCH-C10W-DG-5 TO 5.5-230828-L-FB	491258-036	08/28/23 10:45	Wipe
230828-P-FIELDBLANK1-LO	491258-037	08/28/23 07:20	Wipe
230828-L-FIELDBLANK1-LO	491258-038	08/28/23 07:20	Wipe
230828-L-MEDBLANK1	491258-039	08/28/23 12:00	Wipe
230828-P-FIELDBLANK2-LO	491258-040	08/28/23 07:40	Wipe
230828-L-FIELDBLANK2-LO	491258-041	08/28/23 07:40	Wipe
230828-L-MEDBLANK2	491258-042	08/28/23 12:05	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 491258
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 08/28/23

This data package contains sample and QC results for forty two wipe samples, requested for the above referenced project on 08/29/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

491258

Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900		Chain of Custody Record COC ID: _____				Turn Around Time (rush by advanced notice only)			
Page: _____		1 of 3		Standard: _____		5 Day: _____		3 Day: _____	
Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other		Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other		Report: Level II data validation		Sample Receipt Temp: _____ (lab use only)			

CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments			
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721												
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP												
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491												
Address:	449 15th Street, Suite 303	P.O. #:													
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA												
Phone:	(651) 890-9556	Global ID:													
Fax:		Sampled By:	D. Welch to M. Kim												

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
1 ARCH-C8W-DG-3 TO 3.5-230828-P-FB	8/28/2023	0945	WP	1	--
2 ARCH-C8W-DG-3 TO 3.5-230828-P-DUP-FB	8/28/2023	0945	WP	1	--
3 ARCH-C8W-DG-3 TO 3.5-230828-L-FB	8/28/2023	0945	WP	1	--
4 ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-P-LA	8/28/2023	0955	WP	1	--
5 ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-L-LA	8/28/2023	0955	WP	1	--
6 ARCH-C9W-PS-3.5-230828-P-G	8/28/2023	0735	WP	1	--
7 ARCH-C9W-PS-3.5-230828-L-G	8/28/2023	0735	WP	1	--
8 ARCH-C10W-INT-2.5 TO 3.5-230828-P-WF	8/28/2023	0805	WP	1	--
9 ARCH-C10W-INT-2.5 TO 3.5-230828-L-WF	8/28/2023	0805	WP	1	--
10 ARCH-C10W-INT-2.5 TO 3.5-230828-L-DUP-WF	8/28/2023	0805	WP	1	--
11 ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-P-LA	8/28/2023	0840	WP	1	--
12 ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-L-LA	8/28/2023	0840	WP	1	--
13 ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-P-LA	8/28/2023	0825	WP	1	--
14 ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-P-DUP-LA	8/28/2023	0825	WP	1	--
15 ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-L-LA	8/28/2023	0825	WP	1	--

Signature	Print Name	Company / Title	Date / Time
	Donald Welch	Rincon / Env. Sci.	8/28/23 13:05
	AUDREY HUDSON	ENTHALPY	8/28/23 16:40
	Lindsay Parker	ENTHALPY	8/28/23 16:40
	J. J. Parker	ENTHALPY	8/28/23 17:57
	M. Kim	ENTHALPY	8/29/23 09:14

6x R.M.T. Type 1 = 0.0288 f2

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/l12 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

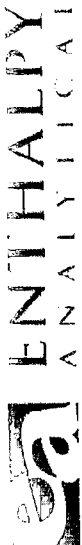
Wipe samples collected from Zone 5 Enclosure CID (Low Occupancy)

491258

		Chain of Custody Record COC ID:		Turn Around Time (rush by advanced notice only)			
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900		Page: 2 of 3		Standard: X (PCBs) 5 Day: 1 Day: X (Pb)		3 Day: Custom TAT:	
Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other		Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other Report: Level II data validation		Sample Receipt Temp: (lab use only)			

CUSTOMER INFORMATION				PROJECT INFORMATION				ANALYSIS REQUEST				TEST INSTRUCTIONS / COMMENTS			
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721	Sample ID	ARCH-C9W-DG-4 TO 4.5-230828-P-FB	Sampling Date	8/28/2023	Matrix	WP	Container No. / Size	1	Pres.	-	PCBs - EPA Method 8082 Lead - EPA Method 3050/6010B Report PCB concentrations on a µg/100cm2 basis Report lead concentrations on a µg/lit basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 5 Enclosure CVD (Low Occupancy)	
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP		ARCH-C9W-DG-4 TO 4.5-230828-L-FB	8/28/2023	WP	1	-						
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491		ARCH-C9W-DG-4 TO 4.5-230828-L-DUP-FB	8/28/2023	WP	1	-						
Address:	449 15th Street, Suite 303	P.O. #:			ARCH-C9W-DG-4 TO 4.5-DN-C9 4-VS-230828-P-LA	8/28/2023	WP	1	-						
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA		ARCH-C9W-DG-4 TO 4.5-DN-C9 4-VS-230828-L-LA	8/28/2023	WP	1	-						
Phone:	(651) 890-9556	Global ID:			ARCH-C8W-DG-4.5 TO 5-230828-P-FB	8/28/2023	WP	1	-						
Fax:		Sampled By:	D. Welsh & M. K...		ARCH-C8W-DG-4.5 TO 5-230828-L-FB	8/28/2023	WP	1	-						
					ARCH-C8W-DG-4.5 TO 5-230828-L-LA	8/28/2023	WP	1	-						
					ARCH-C8W-DG-4.5 TO 5-UP-C8 4-DG-230828-P-LA	8/28/2023	WP	1	-						
					ARCH-C8W-DG-4.5 TO 5-UP-C8 4-DG-230828-L-LA	8/28/2023	WP	1	-						
					ARCH-C8W-DG-4.5 TO 5-UP-C8 4-DG-230828-L-DUP-LA	8/28/2023	WP	1	-						
					ARCH-C11W-PS-4.5-230828-P-G	8/28/2023	WP	1	-						
					ARCH-C11W-PS-4.5-230828-L-G	8/28/2023	WP	1	-						
					ARCH-C9W-INT-4.5 TO 5.5-230828-P-WF	8/28/2023	WP	1	-						
					ARCH-C9W-INT-4.5 TO 5.5-230828-L-WF	8/28/2023	WP	1	-						
					ARCH-C9W-DG-5 TO 5.5-UP-C9 5-DG-230828-P-LA	8/28/2023	WP	1	-						

Signature		Print Name		Company / Title		Date / Time	
		David Welsh		Rincon Emv. Sci.		8/28/23 / 1305	
		Lindsay Parker		ENTHALPY		8/28/23 / 1310	
		Lindsay Parker		ENTHALPY		8/28/23 / 1310	
		Lindsay Parker		ENTHALPY		8/28/23 / 1310	
		Lindsay Parker		ENTHALPY		8/28/23 / 1310	



Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92668
Phone 714-771-6900

491258

Chain of Custody Record
COC ID: 3 of 3
Page: 3

Turn Around Time (rush by advanced notice only)
Standard: X (PCBs) 5 Day: 1 Day: X (Pb)
3 Day: Custom TAT:

Matrix: A = Air S = Soil/Solid
W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water
SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:
1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
4 = H₂SO₄ 5 = NaOH 6 = Other
Report: Level II data validation (lab use only)

PROJECT INFORMATION
Quote #: RIN031721
Proj. Name: Hangar 1 - NCTRA WP
Proj. #: 20-10491
P.O. #: 158 Cody Road, Mountain View, CA
Address:
Global ID:
Sampled By: D. Welch & M. Khan

CUSTOMER INFORMATION
Company: Ritcon Consultants, Inc.
Report To: Lindsay Parker
Email: lparker@ritconconsultants.com
Address: 449 15th Street, Suite 303
Oakland, California 94612
Phone: (651) 800-9556
Fax:

Analysis Request
PCBs - EPA Method 8082
Lead - EPA Method 3050/6010B
HOLD

Test Instructions / Comments
Confirmation Wipe Samples - Level II
Report/Stage 2A Validation
Report PCB concentrations on a µg/100cm² basis
Report lead concentrations on a µg/lit basis
Report Aroclor 1268 concentrations in addition to the standard Aroclors
Wipe samples collected from Zone 5 Enclosure C/D (Low Occupancy)
2x Rinet Typ 2 = 0.02004

Signature
1 Relinquished By: [Signature]
1 Received By: [Signature]
2 Relinquished By: [Signature]
2 Received By: [Signature]
3 Relinquished By: [Signature]
3 Received By: [Signature]

Print Name
Daniel Welch
Audrey Hudson
Megan Ugo
Fawn

Company / Title
Ritcon / Env. Sci.
ENTHALPY
BP
ENTHALPY
GA

Date / Time
8/28/23 / 13:05
8/28/23 / 13:05
8/28/23 / 16:40
8/28/23 / 17:57
8/29/23 / 09:14

9 of 29

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



491258

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 08/29/23 Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 5.4 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam

☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.5 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: [Signature] Date: AUG 29 2023

SOUTHWEST AIRLINES

Printed on:
28 AUG 19:42

526 OAK 9259 1236



SNA

PC#
2 OF 2

DG
G

LOT WT
65 LB
(29.5 KG)

OAK WN 3842 28 AUG 20:40

STN FLT DATE ETD LOT 01



PC ID: 0002
PC WT: 32LB

526 92591236 0002

S

1.5 / 5.4

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-DG-3 TO 3.5-230828-P-FB	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-001	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491258-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-001 Surrogate		%REC	Limits
TCMX (PCB)		71	19-121
Decachlorobiphenyl (PCB)		78	19-121

Field ID: ARCH-C8W-DG-3 TO 3.5-230828-P-DUP-FB	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-002	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491258-002 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-002 Surrogate		%REC	Limits
TCMX (PCB)		87	19-121
Decachlorobiphenyl (PCB)		110	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-P-LA

Batch#: 321678

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491258-004

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/01/23

Diln Fac: 1.000

Analyzed: 09/05/23

491258-004 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-004 Surrogate		%REC	Limits
TCMX (PCB)		74	19-121
Decachlorobiphenyl (PCB)		83	19-121

Field ID: ARCH-C9W-PS-3.5-230828-P-G

Batch#: 321678

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491258-006

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/01/23

Diln Fac: 1.000

Analyzed: 09/05/23

491258-006 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-006 Surrogate		%REC	Limits
TCMX (PCB)		69	19-121
Decachlorobiphenyl (PCB)		77	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: ARCH-C10W-INT-2.5 TO 3.5-230828-P-WF

Type: SAMPLE

Lab ID: 491258-008

Matrix: Wipe

Diln Fac: 1.000

Batch#: 321678

Sampled: 08/28/23

Received: 08/28/23

Prepared: 09/01/23

Analyzed: 09/05/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

491258-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-008 Surrogate		%REC	Limits
TCMX (PCB)		72	19-121
Decachlorobiphenyl (PCB)		101	19-121

Field ID: ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-P-LA

Type: SAMPLE

Lab ID: 491258-011

Matrix: Wipe

Diln Fac: 1.000

Batch#: 321678

Sampled: 08/28/23

Received: 08/28/23

Prepared: 09/01/23

Analyzed: 09/05/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

491258-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-011 Surrogate		%REC	Limits
TCMX (PCB)		74	19-121
Decachlorobiphenyl (PCB)		85	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-P-LA

Batch#: 321678

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491258-013

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/01/23

DiIn Fac: 1.000

Analyzed: 09/05/23

491258-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-013 Surrogate		%REC	Limits
TCMX (PCB)		76	19-121
Decachlorobiphenyl (PCB)		92	19-121

Field ID: ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-P-DUP-LA

Batch#: 321678

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491258-014

Received: 08/28/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/01/23

DiIn Fac: 1.000

Analyzed: 09/05/23

491258-014 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-014 Surrogate		%REC	Limits
TCMX (PCB)		76	19-121
Decachlorobiphenyl (PCB)		86	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C9W-DG-4 TO 4.5-230828-P-FB	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-016	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491258-016 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-016 Surrogate		%REC	Limits
TCMX (PCB)		70	19-121
Decachlorobiphenyl (PCB)		92	19-121

Field ID: ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-P-LA	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-019	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491258-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-019 Surrogate		%REC	Limits
TCMX (PCB)		77	19-121
Decachlorobiphenyl (PCB)		98	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-DG-4.5 TO 5-230828-P-FB	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-021	Received: 08/28/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491258-021 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-021 Surrogate		%REC	Limits
TCMX (PCB)		70	19-121
Decachlorobiphenyl (PCB)		77	19-121

Field ID: ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-P-LA	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-023	Received: 08/28/23	Analyst: MES
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491258-023 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-023 Surrogate		%REC	Limits
TCMX (PCB)		74	19-121
Decachlorobiphenyl (PCB)		90	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C11W-PS-4.5-230828-P-G	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-026	Received: 08/28/23	Analyst: MES
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491258-026 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-026 Surrogate		%REC	Limits
TCMX (PCB)		80	19-121
Decachlorobiphenyl (PCB)		88	19-121

Field ID: ARCH-C9W-INT-4.5 TO 5.5-230828-P-WF	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-028	Received: 08/28/23	Analyst: MES
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491258-028 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-028 Surrogate		%REC	Limits
TCMX (PCB)		77	19-121
Decachlorobiphenyl (PCB)		90	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-P-LA

Batch#: 321678

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491258-030

Received: 08/28/23

Analyst: MES

Matrix: Wipe

Prepared: 09/01/23

Diln Fac: 1.000

Analyzed: 09/05/23

491258-030 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-030 Surrogate		%REC	Limits
TCMX (PCB)		62	19-121
Decachlorobiphenyl (PCB)		66	19-121

Field ID: ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-P-LA

Batch#: 321678

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491258-032

Received: 08/28/23

Analyst: MES

Matrix: Wipe

Prepared: 09/01/23

Diln Fac: 1.000

Analyzed: 09/05/23

491258-032 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-032 Surrogate		%REC	Limits
TCMX (PCB)		77	19-121
Decachlorobiphenyl (PCB)		81	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C10W-DG-5 TO 5.5-230828-P-FB	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-034	Received: 08/28/23	Analyst: MES
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/05/23	

491258-034 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-034 Surrogate		%REC	Limits
TCMX (PCB)		82	19-121
Decachlorobiphenyl (PCB)		84	19-121

Field ID: ARCH-C10W-DG-5 TO 5.5-230828-P-DUP-FB	Batch#: 321678	Prep: EPA 3546
Type: SAMPLE	Sampled: 08/28/23	Analysis: EPA 8082
Lab ID: 491258-035	Received: 08/28/23	Analyst: MES
Matrix: Wipe	Prepared: 09/01/23	
Diln Fac: 1.000	Analyzed: 09/06/23	

491258-035 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-035 Surrogate		%REC	Limits
TCMX (PCB)		79	19-121
Decachlorobiphenyl (PCB)		86	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: 230828-P-FIELDBLANK1-LO

Batch#: 321678

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491258-037

Received: 08/28/23

Analyst: MES

Matrix: Wipe

Prepared: 09/01/23

DiIn Fac: 1.000

Analyzed: 09/06/23

491258-037 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-037 Surrogate		%REC	Limits
TCMX (PCB)		71	19-121
Decachlorobiphenyl (PCB)		81	19-121

Field ID: 230828-P-FIELDBLANK2-LO

Batch#: 321678

Prep: EPA 3546

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 8082

Lab ID: 491258-040

Received: 08/28/23

Analyst: MES

Matrix: Wipe

Prepared: 09/01/23

DiIn Fac: 1.000

Analyzed: 09/06/23

491258-040 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
491258-040 Surrogate		%REC	Limits
TCMX (PCB)		83	19-121
Decachlorobiphenyl (PCB)		87	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 491258

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BLANK

Batch#: 321678

Analysis: EPA 8082

Lab ID: QC1091235

Prepared: 09/01/23

Analyst: TRN

Matrix: Wipe

Analyzed: 09/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1091235 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1091235 Surrogate	%REC	Limits
TCMX (PCB)	83	19-121
Decachlorobiphenyl (PCB)	101	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 491258

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 321678

Analysis: EPA 8082

Lab ID: QC1091237

Prepared: 09/01/23

Analyst: TRN

Matrix: Wipe

Analyzed: 09/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1091237 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.880	98	60-140	ug/100 cm2
Aroclor-1260	5.000	5.060	101	60-140	ug/100 cm2
QC1091237 Surrogate				%REC	Limits
TCMX (PCB)				84	19-121
Decachlorobiphenyl (PCB)				93	19-121

Type: BSD

Batch#: 321678

Analysis: EPA 8082

Lab ID: QC1091238

Prepared: 09/01/23

Analyst: TRN

Matrix: Wipe

Analyzed: 09/05/23

Diln Fac: 1.000

Prep: EPA 3546

QC1091238 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.883	98	60-140	ug/100 cm2	0	20
Aroclor-1260	5.000	5.427	109	60-140	ug/100 cm2	7	20
QC1091238 Surrogate				%REC	Limits		
TCMX (PCB)				82	19-121		
Decachlorobiphenyl (PCB)				102	19-121		

Legend

RPD: Relative Percent Difference

Lead

Lab #: 491258		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-DG-3 TO 3.5-230828-L-FB		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-003		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-003 Analyte		Result	RL Units
Lead		44	0.50 ug/ft2
Field ID: ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-L-LA		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-005		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-005 Analyte		Result	RL Units
Lead		55	0.50 ug/ft2
Field ID: ARCH-C9W-PS-3.5-230828-L-G		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-007		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-007 Analyte		Result	RL Units
Lead		36	0.50 ug/ft2
Field ID: ARCH-C10W-INT-2.5 TO 3.5-230828-L-WF		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-009		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-009 Analyte		Result	RL Units
Lead		130	0.50 ug/ft2
Field ID: ARCH-C10W-INT-2.5 TO 3.5-230828-L-DUP-WF		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-010		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-010 Analyte		Result	RL Units
Lead		130	0.50 ug/ft2

Lead

Lab #: 491258		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-L-LA		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-012		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-012 Analyte		Result	RL Units
Lead		56	0.50 ug/ft2
Field ID: ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-L-LA		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-015		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-015 Analyte		Result	RL Units
Lead		67	0.50 ug/ft2
Field ID: ARCH-C9W-DG-4 TO 4.5-230828-L-FB		Batch#: 321361	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-017		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-017 Analyte		Result	RL Units
Lead		13	0.50 ug/ft2
Field ID: ARCH-C9W-DG-4 TO 4.5-230828-L-DUP-FB		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-018		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-018 Analyte		Result	RL Units
Lead		19	0.50 ug/ft2
Field ID: ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-L-LA		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-020		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-020 Analyte		Result	RL Units
Lead		82	0.50 ug/ft2

Lead

Lab #: 491258		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-DG-4.5 TO 5-230828-L-FB		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-022		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-022 Analyte		Result	RL Units
Lead		64	0.50 ug/ft2
Field ID: ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-L-LA		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-024		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-024 Analyte		Result	RL Units
Lead		53	0.50 ug/ft2
Field ID: ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-L-DUP-LA		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-025		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-025 Analyte		Result	RL Units
Lead		43	0.50 ug/ft2
Field ID: ARCH-C11W-PS-4.5-230828-L-G		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-027		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-027 Analyte		Result	RL Units
Lead		43	0.50 ug/ft2
Field ID: ARCH-C9W-INT-4.5 TO 5.5-230828-L-WF		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-029		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-029 Analyte		Result	RL Units
Lead		150	0.50 ug/ft2

Lead

Lab #: 491258		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-L-LA		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-031		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-031 Analyte		Result	RL Units
Lead		56	0.50 ug/ft2
Field ID: ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-L-LA		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-033		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-033 Analyte		Result	RL Units
Lead		150	0.50 ug/ft2
Field ID: ARCH-C10W-DG-5 TO 5.5-230828-L-FB		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-036		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-036 Analyte		Result	RL Units
Lead		52	0.50 ug/ft2
Field ID: 230828-L-FIELDBLANK1-LO		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-038		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/30/23	
491258-038 Analyte		Result	RL Units
Lead		0.65	0.50 ug/ft2
Field ID: 230828-L-MEDBLANK1		Batch#: 321362	Prep: EPA 3050B
Type: SAMPLE		Sampled: 08/28/23	Analysis: EPA 6010B
Lab ID: 491258-039		Received: 08/28/23	Analyst: SBW
Matrix: Wipe		Prepared: 08/29/23	
Diln Fac: 1.000		Analyzed: 08/29/23	
491258-039 Analyte		Result	RL Units
Lead		ND	0.50 ug/ft2

Lead

Lab #: 491258

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: 230828-L-FIELDBLANK2-LO

Batch#: 321362

Prep: EPA 3050B

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 6010B

Lab ID: 491258-041

Received: 08/28/23

Analyst: SBW

Matrix: Wipe

Prepared: 08/29/23

Diln Fac: 1.000

Analyzed: 08/30/23

491258-041 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Field ID: 230828-L-MEDBLANK2

Batch#: 321362

Prep: EPA 3050B

Type: SAMPLE

Sampled: 08/28/23

Analysis: EPA 6010B

Lab ID: 491258-042

Received: 08/28/23

Analyst: SBW

Matrix: Wipe

Prepared: 08/29/23

Diln Fac: 1.000

Analyzed: 08/29/23

491258-042 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK

Batch#: 321361

Analysis: EPA 6010B

Lab ID: QC1090212

Prepared: 08/29/23

Analyst: SBW

Matrix: Wipe

Analyzed: 08/29/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1090212 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK

Batch#: 321362

Analysis: EPA 6010B

Lab ID: QC1090215

Prepared: 08/29/23

Analyst: SBW

Matrix: Wipe

Analyzed: 08/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1090215 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 491258

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 321361

Analysis: EPA 6010B

Lab ID: QC1090213

Prepared: 08/29/23

Analyst: SBW

Matrix: Wipe

Analyzed: 08/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1090213 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	48.28	97	80-120	ug/ft2

Type: BS

Batch#: 321362

Analysis: EPA 6010B

Lab ID: QC1090217

Prepared: 08/29/23

Analyst: SBW

Matrix: Wipe

Analyzed: 08/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1090217 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	49.38	99	80-120	ug/ft2

Type: BSD

Batch#: 321361

Analysis: EPA 6010B

Lab ID: QC1090214

Prepared: 08/29/23

Analyst: SBW

Matrix: Wipe

Analyzed: 08/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1090214 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	49.14	98	80-120	ug/ft2	2	20

Type: BSD

Batch#: 321362

Analysis: EPA 6010B

Lab ID: QC1090218

Prepared: 08/29/23

Analyst: SBW

Matrix: Wipe

Analyzed: 08/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1090218 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	53.08	106	80-120	ug/ft2	7	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 492110
Report Level: II
Report Date: 09/20/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

Miguel Gamboa, Project Coordinator
miguel.gamboa@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #: 492110
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 09/12/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C8W-PS-5.5-230911-P-G	492110-001	09/11/23 07:45	Wipe
ARCH-C8W-PS-5.5-230911-L-G	492110-002	09/11/23 07:45	Wipe
ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-P-LA	492110-003	09/11/23 08:00	Wipe
ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-L-LA	492110-004	09/11/23 08:00	Wipe
ARCH-C10W-PS-5.5-230911-P-G	492110-005	09/11/23 08:15	Wipe
ARCH-C10W-PS-5.5-230911-L-G	492110-006	09/11/23 08:15	Wipe
ARCH-C9W-DG-5.5 TO 6-230911-P-FB	492110-007	09/11/23 08:30	Wipe
ARCH-C9W-DG-5.5 TO 6-230911-L-FB	492110-008	09/11/23 08:30	Wipe
ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-P-LA	492110-009	09/11/23 08:40	Wipe
ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-L-LA	492110-010	09/11/23 08:40	Wipe
ARCH-C8W-EXT-6 TO 7-230911-P-WF	492110-011	09/11/23 08:55	Wipe
ARCH-C8W-EXT-6 TO 7-230911-L-WF	492110-012	09/11/23 08:55	Wipe
ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-P-LA	492110-013	09/11/23 09:10	Wipe
ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-L-LA	492110-014	09/11/23 09:10	Wipe
ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-P-LA	492110-015	09/11/23 07:55	Wipe
ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-L-LA	492110-016	09/11/23 07:55	Wipe
ARCH-C11W-DG-6 TO 6.5-230911-P-FB	492110-017	09/11/23 08:00	Wipe
ARCH-C11W-DG-6 TO 6.5-230911-L-FB	492110-018	09/11/23 08:00	Wipe

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 492110
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 09/12/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-P-LA	492110-019	09/11/23 08:15	Wipe
ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-L-LA	492110-020	09/11/23 08:15	Wipe
ARCH-C9W-PS-6.5-230911-P-G	492110-021	09/11/23 08:25	Wipe
ARCH-C9W-PS-6.5-230911-L-G	492110-022	09/11/23 08:25	Wipe
ARCH-C11W-PS-6.5-230911-P-G	492110-023	09/11/23 08:35	Wipe
ARCH-C11W-PS-6.5-230911-L-G	492110-024	09/11/23 08:35	Wipe
ARCH-C8W-INT-6.5 TO 7-230911-P-WF	492110-025	09/11/23 08:50	Wipe
ARCH-C8W-INT-6.5 TO 7-230911-L-WF	492110-026	09/11/23 08:50	Wipe
ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-P-LA	492110-027	09/11/23 09:00	Wipe
ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-L-LA	492110-028	09/11/23 09:00	Wipe
ARCH-C8W-DG-7 TO 7.5-230911-P-FB	492110-029	09/11/23 07:45	Wipe
ARCH-C8W-DG-7 TO 7.5-230911-L-FB	492110-030	09/11/23 07:45	Wipe
ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-P-LA	492110-031	09/11/23 08:00	Wipe
ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-L-LA	492110-032	09/11/23 08:00	Wipe
ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-P-LA	492110-033	09/11/23 08:10	Wipe
ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-L-LA	492110-034	09/11/23 08:10	Wipe
ARCH-C9W-INT-7.5 TO 9-230911-P-WF	492110-035	09/11/23 08:25	Wipe
ARCH-C9W-INT-7.5 TO 9-230911-L-WF	492110-036	09/11/23 08:25	Wipe

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 492110
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 09/12/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-P-LA	492110-037	09/11/23 08:35	Wipe
ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-L-LA	492110-038	09/11/23 08:35	Wipe
ARCH-C8W-INT-7.5 TO 9-230911-P-WF	492110-039	09/11/23 08:50	Wipe
ARCH-C8W-INT-7.5 TO 9-230911-L-WF	492110-040	09/11/23 08:50	Wipe
ARCH-C11W-EXT-8 TO 9-230911-P-WF	492110-041	09/11/23 09:00	Wipe
ARCH-C11W-EXT-8 TO 9-230911-L-WF	492110-042	09/11/23 09:00	Wipe
230911-P-FIELDBLANK3-LO	492110-043	09/11/23 09:15	Wipe
230911-L-FIELDBLANK3-LO	492110-044	09/11/23 09:15	Wipe
230911-L-MEDBLANK3-LO	492110-045	09/11/23 15:16	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 492110
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 09/12/23

This data package contains sample and QC results for forty five wipe samples, requested for the above referenced project on 09/13/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

Chain of Custody Record		Turn Around Time (rush by advanced notice only)			
COC ID: 492119		Standard:	1 Day:	5 Day:	3 Day:
Page: 1 of 3		X (PCBs)	1 Day:	5 Day:	3 Day:
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Report: Level II data validation (lab use only)			
PROJECT INFORMATION		Analysis Request			
Quote #:	RIN031721	PCBs - EPA Method 8082 Lead - EPA Method 3050/60108			
Proj. Name:	Hangar 1 - NCTRA WP	Confirmation Wipe Samples - Level II Report/Stage 2A Validation			
Proj. #:	20-10491	Report PCB concentrations on a µg/100cm ² basis Report lead concentrations on a µg/l ² basis			
P.O. #:		Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 5 Enclosure C/D (Low Occupancy)			
Address:	158 Cody Road, Mountain View, CA				
Global ID:					
Sampled By:	D. Welsh, M. Sinnott				
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
1 ARCH-C8W-PS-5.5-230911-P-G	9/11/2023	0745	WP	1	-
2 ARCH-C8W-PS-5.5-230911-L-G	9/11/2023	0745	WP	1	-
3 ARCH-C8W-DG-5.5-230911-P-LA	9/11/2023	0800	WP	1	-
4 ARCH-C8W-DG-5.5-230911-L-LA	9/11/2023	0800	WP	1	-
5 ARCH-C10W-PS-5.5-230911-P-G	9/11/2023	0815	WP	1	-
6 ARCH-C10W-PS-5.5-230911-L-G	9/11/2023	0815	WP	1	-
7 ARCH-C9W-DG-5.5-230911-P-FB	9/11/2023	0830	WP	1	-
8 ARCH-C9W-DG-5.5-230911-L-FB	9/11/2023	0830	WP	1	-
9 ARCH-C9W-DG-5.5-230911-P-LA	9/11/2023	0840	WP	1	-
10 ARCH-C9W-DG-5.5-230911-L-LA	9/11/2023	0840	WP	1	-
11 ARCH-C8W-EXT-6 TO 7-230911-P-WF	9/11/2023	0855	WP	1	-
12 ARCH-C8W-EXT-6 TO 7-230911-L-WF	9/11/2023	0855	WP	1	-
13 ARCH-C8W-DG-6 TO 6.5-UP-C8 1-HS-230911-P-LA	9/11/2023	0910	WP	1	-
14 ARCH-C8W-DG-6 TO 6.5-UP-C8 1-HS-230911-L-LA	9/11/2023	0910	WP	1	-
15 ARCH-C9W-DG-6 TO 6.5-DN-C9 7-VS-230911-P-LA	9/11/2023	0755	WP	1	-
Signature		Print Name		Company / Title	
1 Relinquished By:	TK Smith	Tyler Sinnott		Rincon/Env. Scientist	
1 Received By:	Andrew Hudson	Andrew Hudson		"ENTHALPY"	
2 Relinquished By:	Andrew Hudson	JSP		Enthalpy	
2 Received By:	Andrew Hudson	Enthalpy		Enthalpy	
3 Relinquished By:	Andrew Hudson	Enthalpy		Enthalpy	
3 Received By:	Andrew Hudson	Enthalpy		Enthalpy	

 Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900		Chain of Custody Record				Turn Around Time (rush by advanced notice only)					
		COC ID: 492110		Standard:		5 Day:		3 Day:			
Page: 2 of 3		Matrix: A = Air S = Soil/Solid		Preservatives:		1 Day:		Sample Receipt Temp:			
		W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water		1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃		X (PCBs)		Custom TAT:			
		SW = Swab T = Tissue WP = Wipe O = Other		Report Level II data validation		X (Pb)		(lab use only)			
CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request			
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721	PCBs - EPA Method 8082 Lead - EPA Method 3050/6010B HOLD Report PCB concentrations on a µg/100cm ² basis Report lead concentrations on a µg/lit basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 5 Enclosure C/D (Low Occupancy)				Test Instructions / Comments			
Report To:	Lindsay Parker	Proj. Name:	Hanger 1 - NCTRA WP								
Email:	jparket@rinconconsultants.com	Proj. #:	20-10491								
Address:	449 15th Street, Suite 303	P.O. #:									
Phone:	Oakland, California 94612	Global ID:	158 Cordy Road, Mountain View, CA								
Fax:	(651) 890-9556	Sampled By:	D. Walsh, Timmoff, M. Kim								
Sample ID		Sampling Date	Sampling Time	Matrix	Container No./Size	Pres.					
16 ARCH-C9W-DG-6 TO 6.5-DN-C5-7-VS-230911-L-LA	9/11/2023	0755	WP	I	-	X					
17 ARCH-C11W-DG-6 TO 6.5-230911-P-FB	9/11/2023	0800	WP	I	-	X					
18 ARCH-C11W-DG-6 TO 6.5-230911-L-LA	9/11/2023	0800	WP	I	-	X					
19 ARCH-C8W-DG-6 TO 7-DN-C8W-DG-230911-P-LA	9/11/2023	0815	WP	I	-	X					
20 ARCH-C8W-DG-6 TO 7-DN-C8W-DG-230911-L-LA	9/11/2023	0815	WP	I	-	X					
21 ARCH-C9W-PS-6.5-230911-P-G	9/11/2023	0825	WP	I	-	X					
22 ARCH-C9W-PS-6.5-230911-L-G	9/11/2023	0825	WP	I	-	X					
23 ARCH-C11W-PS-6.5-230911-P-G	9/11/2023	0835	WP	I	-	X					
24 ARCH-C11W-PS-6.5-230911-L-G	9/11/2023	0835	WP	I	-	X					
25 ARCH-C8W-INT-6.5 TO 7-230911-P-WF	9/11/2023	0850	WP	I	-	X					
26 ARCH-C8W-INT-6.5 TO 7-230911-L-WF	9/11/2023	0850	WP	I	-	X					
27 ARCH-C8W-DG-7 TO 7.5-UP-C8-7-DG-230911-P-LA	9/11/2023	0900	WP	I	-	X					
28 ARCH-C8W-DG-7 TO 7.5-UP-C8-7-DG-230911-L-LA	9/11/2023	0900	WP	I	-	X					
29 ARCH-C8W-DG-7 TO 7.5-230911-P-FB	9/11/2023	0915	WP	I	-	X					
30 ARCH-C8W-DG-7 TO 7.5-230911-L-LA	9/11/2023	0915	WP	I	-	X					
Signature		Print Name		Company / Title		Date / Time					
<i>Tina L...</i>		Tyler Sinnott		Rincon / Env. Scientist		9/12/23 1400 Ad					
<i>Audrey Hudson</i>		Audrey Hudson		"		9/12/23 1400 Ad					
<i>Audrey Hudson</i>		"		"		9/12/23 17:12					
<i>[Signature]</i>		JIP		Enthalpy		9/12/23 17:12					
<i>[Signature]</i>		Lindsay		EA		9/12/23 18:42					
<i>[Signature]</i>		Kathryn		EA		9/12/23 18:42					
Relinquished By:		Received By:		Relinquished By:		Received By:		Relinquished By:			
Tina L...		Audrey Hudson		Audrey Hudson		Audrey Hudson		Audrey Hudson			
Audrey Hudson		Audrey Hudson		Audrey Hudson		Audrey Hudson		Audrey Hudson			
Audrey Hudson		Audrey Hudson		Audrey Hudson		Audrey Hudson		Audrey Hudson			
Audrey Hudson		Audrey Hudson		Audrey Hudson		Audrey Hudson		Audrey Hudson			
Audrey Hudson		Audrey Hudson		Audrey Hudson		Audrey Hudson		Audrey Hudson			

Enthalpy Analytical - Orange				Turn Around Time (rush by advanced notice only)			
COC ID: 492110				Standard: X (PCBs) 5 Day: 1 Day: X (Pb) 3 Day: Custom TAT:			
Page: 3 of 3				Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other Report: Level II data validation (lab use only)			
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900				Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900			
CUSTOMER INFORMATION Company: Rincon Consultants, Inc. Report To: Lindsay Parker Email: lparker@rinconconsultants.com Address: 449 15th Street, Suite 303 Oakland, California 94612 Phone: (651) 890-9556 Fax:				PROJECT INFORMATION Quote #: RIN031721 Proj. Name: Hangar 1 - NCTR WP Proj. #: 20-10491 P.O. #: 158 Cody Road, Mountain View, CA Address: Global ID: Sampled By: D. Welsh, T. S. Smith, M. Kim			
Analysis Request PCBs - EPA Method 8082 Lead - EPA Method 3050/6010B HOLD				Test Instructions / Comments Confirmation Wine Samples - Level II Report/Stage 2A Validation Report PCB concentrations on a µg/l 00cm2 basis Report lead concentrations on a µg/l12 basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wine samples collected from Zone 5 Enclosure C/D (Low Occupancy)			
Sample ID 31 ARCH-C9W-DG-7 TO 7.5-DN-C9 1-DG-23091 1-P-LA 32 ARCH-C9W-DG-7 TO 7.5-DN-C9 1-DG-23091 1-L-LA 33 ARCH-C8W-DG-7 TO 8-DN-C8 6-VS-23091 1-P-LA 34 ARCH-C8W-DG-7.5 TO 8-DN-C8 6-VS-23091 1-L-LA 35 ARCH-C9W-INT-7.5 TO 9-23091 1-L-P-WF 36 ARCH-C9W-INT-7.5 TO 9-23091 1-L-LA 37 ARCH-C9W-DG-7.5 TO 8-DN-C9 1-VS-23091 1-P-LA 38 ARCH-C9W-DG-7.5 TO 8-DN-C9 1-VS-23091 1-L-LA 39 ARCH-C8W-INT-7.5 TO 9-23091 1-P-WF 40 ARCH-C8W-INT-7.5 TO 9-23091 1-L-WF 41 ARCH-C11W-EXT-8 TO 9-23091 1-P-WF 42 ARCH-C11W-EXT-8 TO 9-23091 1-L-WF 43 230911-P-FIELD BLANK 3-LO 44 230911-L-FIELD BLANK 3-LO 45 230911-L-MED BLANK 3-LO				Sampling Date 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023 9/11/2023			
Container No. / Size 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Pres. - - - - - - - - - - - - - - - -			
Signature 1 Relinquished By: T. S. Smith 1 Received By: Lindsay Parker 2 Relinquished By: Lindsay Parker 2 Received By: T. S. Smith 3 Relinquished By: T. S. Smith 3 Received By: T. S. Smith				Print Name Tyler Sinnott ANDREW NURSON " " JIP Lindsay Parker T. S. Smith			
Signature 1 Relinquished By: T. S. Smith 1 Received By: Lindsay Parker 2 Relinquished By: Lindsay Parker 2 Received By: T. S. Smith 3 Relinquished By: T. S. Smith 3 Received By: T. S. Smith				Company / Title Rincon / Env. Scientist ENTHALPY " " Enthalpy EA EA			
Date / Time 9/13/23 14:00 9/12/23 14:00 9/12/23 17:12 9/12/23 17:12 9/12/23 18:42 9/13/23 15:38				Date / Time 9/13/23 14:00 9/12/23 14:00 9/12/23 17:12 9/12/23 17:12 9/12/23 18:42 9/13/23 15:38			

The below sample checklist was completed after delivery of the samples by the laboratory provided courier or Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST				
Section 1: General Info Date Received: <u>9/12/23</u> Login # <u>492110</u> Client: <u>Rincon</u>				
Section 2: Shipping / Custody Shipping Info: _____ Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package Custody seals intact on arrival? ☐ Yes ☐ No ☒ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials				
Section 3: Condition / Packaging Important: Notify BIA if temperature exceeds 6°C or arrive frozen Date Opened <u>9.12.23</u> By (print) <u>JJP</u> (sign) <u>[Signature]</u> ☐ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures) If no cooler: Sample Temp (°C): _____ How many coolers? <u>2</u> Temp (°C): #1: <u>5.3</u> #2: <u>3.2</u> #3: _____ #4: _____ #5: _____ #6: _____ Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☒ B ☐ C Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☒ No				
Section 4: Containers / Labels / Samples			YES	NO
Were custody papers dry, filled out properly, and the project identifiable?			/	/
Were Method 5035 sampling containers present? Transferred to freezer @: _____			/	/
Did all containers arrive unbroken/unopened?			/	/
Are there any missing / extra samples?			/	/
Are samples in the appropriate containers for indicated tests?			/	/
Are sample labels present, in good condition and complete?			/	/
Does the container count match the COC?			/	/
Do the sample labels agree with custody papers?			/	/
Was sufficient amount of sample sent for tests requested?			/	/
Did you change the hold time in LIMS for unpreserved VOAs?			/	/
Did you change the hold time in LIMS for preserved terracores?			/	/
Are bubbles > 6mm present in VOA samples?			/	/
Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____			/	/
Section 5: Preservatives			YES	NO
Are the samples appropriately preserved? (if yes, skip the rest of section 5)			/	/
Did any samples / containers require preservation upon receipt?			/	/
Did you document your preservative check in the bench book?			/	/
Preservative added: ☐ H2SO4 lot# _____ added to samples _____ Date/Time _____ ☐ HCL lot# _____ added to samples _____ Date/Time _____ ☐ HNO3 lot# _____ added to samples _____ Date/Time _____ ☐ CrVI Buffer lot# _____ added to samples _____ Date/Time _____				
Section 6: Explanations / Comments No custody seals found.				
Date Logged <u>9.12.23</u> By (print) <u>JP For MY</u> (sign) <u>[Signature]</u> Date Labeled <u>9.12.23</u> By (print) <u>JJP</u> (sign) <u>[Signature]</u>				

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



492110

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: <u>Rincon Consultants</u>	Project: <u>Hangar 1 NTCRA</u>
Date Received: <u>09/13/23</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u> ☐ No (skip section 2)	Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: <u>4.3</u> #2: _____ #3: _____ #4: _____	
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)	
Shipping Information: <u>Southwest Airlines</u>	

Section 3	
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: <u>4.1</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments

Section 6
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____
Project Manager's response:

Completed By: *Glenn Sykes* Date: SEP 13 2023

Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
 931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal
 Sample Acceptance Checklist – Rev 4, 8/8/2017

SOUTHWEST AIRLINES

Printed on:
12 SEP 19:50

526 OAK 9311 2106



SNA

PC#
4 OF

7

G

DG

240 LB
(108.8 KG)

LOT WT

OAK WN 2648 13 SEP 07:25

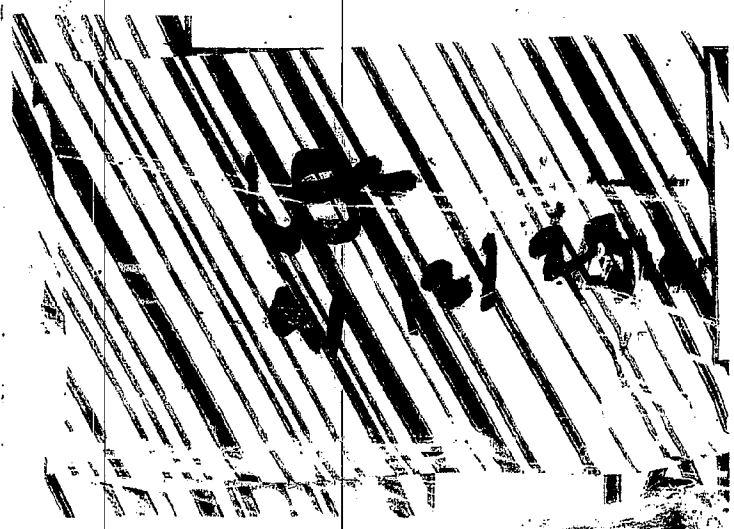
STN FLT DATE ETD LOT 01



PC ID: 0004
PC WT: 34LB

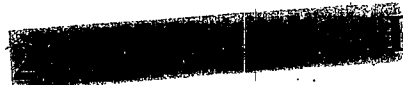
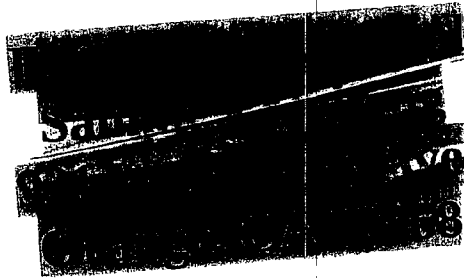
526 93112106 0004

S



43/41

2



A.M.

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8W-PS-5.5-230911-P-G

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-001

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-001 Surrogate		%REC	Limits
TCMX (PCB)		74	19-121
Decachlorobiphenyl (PCB)		78	19-121

Field ID: ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-P-LA

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-003

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-003 Surrogate		%REC	Limits
TCMX (PCB)		70	19-121
Decachlorobiphenyl (PCB)		76	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C10W-PS-5.5-230911-P-G	Batch#: 322357	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-005	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/14/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-005 Surrogate		%REC	Limits
TCMX (PCB)		75	19-121
Decachlorobiphenyl (PCB)		81	19-121

Field ID: ARCH-C9W-DG-5.5 TO 6-230911-P-FB	Batch#: 322357	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-007	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/14/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-007 Surrogate		%REC	Limits
TCMX (PCB)		78	19-121
Decachlorobiphenyl (PCB)		77	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-P-LA

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-009

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-009 Surrogate		%REC	Limits
TCMX (PCB)		78	19-121
Decachlorobiphenyl (PCB)		80	19-121

Field ID: ARCH-C8W-EXT-6 TO 7-230911-P-WF

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-011

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-011 Surrogate		%REC	Limits
TCMX (PCB)		88	19-121
Decachlorobiphenyl (PCB)		89	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-P-LA

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-013

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-013 Surrogate		%REC	Limits
TCMX (PCB)		78	19-121
Decachlorobiphenyl (PCB)		80	19-121

Field ID: ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-P-LA

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-015

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-015 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-015 Surrogate		%REC	Limits
TCMX (PCB)		85	19-121
Decachlorobiphenyl (PCB)		83	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C11W-DG-6 TO 6.5-230911-P-FB	Batch#: 322357	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-017	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/14/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-017 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-017 Surrogate		%REC	Limits
TCMX (PCB)		77	19-121
Decachlorobiphenyl (PCB)		82	19-121

Field ID: ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-P-LA	Batch#: 322357	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-019	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/14/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-019 Surrogate		%REC	Limits
TCMX (PCB)		84	19-121
Decachlorobiphenyl (PCB)		82	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C9W-PS-6.5-230911-P-G

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-021

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-021 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-021 Surrogate		%REC	Limits
TCMX (PCB)		83	19-121
Decachlorobiphenyl (PCB)		83	19-121

Field ID: ARCH-C11W-PS-6.5-230911-P-G

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-023

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-023 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-023 Surrogate		%REC	Limits
TCMX (PCB)		82	19-121
Decachlorobiphenyl (PCB)		83	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-INT-6.5 TO 7-230911-P-WF	Batch#: 322357	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-025	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/14/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-025 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-025 Surrogate		%REC	Limits
TCMX (PCB)		79	19-121
Decachlorobiphenyl (PCB)		81	19-121

Field ID: ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-P-LA	Batch#: 322357	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-027	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/14/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-027 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-027 Surrogate		%REC	Limits
TCMX (PCB)		80	19-121
Decachlorobiphenyl (PCB)		82	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-DG-7 TO 7.5-230911-P-FB	Batch#: 322357	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-029	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/14/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-029 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-029 Surrogate		%REC	Limits
TCMX (PCB)		79	19-121
Decachlorobiphenyl (PCB)		83	19-121

Field ID: ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-P-LA	Batch#: 322357	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-031	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/14/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-031 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-031 Surrogate		%REC	Limits
TCMX (PCB)		76	19-121
Decachlorobiphenyl (PCB)		71	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-P-LA

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-033

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-033 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-033 Surrogate		%REC	Limits
TCMX (PCB)		83	19-121
Decachlorobiphenyl (PCB)		85	19-121

Field ID: ARCH-C9W-INT-7.5 TO 9-230911-P-WF

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-035

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-035 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-035 Surrogate		%REC	Limits
TCMX (PCB)		71	19-121
Decachlorobiphenyl (PCB)		73	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-P-LA

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-037

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-037 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-037 Surrogate		%REC	Limits
TCMX (PCB)		84	19-121
Decachlorobiphenyl (PCB)		82	19-121

Field ID: ARCH-C8W-INT-7.5 TO 9-230911-P-WF

Batch#: 322357

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/11/23

Analysis: EPA 8082

Lab ID: 492110-039

Received: 09/12/23

Analyst: MES

Matrix: Wipe

Prepared: 09/14/23

Diln Fac: 1.000

Analyzed: 09/14/23

492110-039 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-039 Surrogate		%REC	Limits
TCMX (PCB)		75	19-121
Decachlorobiphenyl (PCB)		75	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C11W-EXT-8 TO 9-230911-P-WF	Batch#: 322492	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-041	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/15/23	
Diln Fac: 1.000	Analyzed: 09/16/23	

492110-041 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-041 Surrogate		%REC	Limits
TCMX (PCB)		64	19-121
Decachlorobiphenyl (PCB)		61	19-121

Field ID: 230911-P-FIELDBLANK3-LO	Batch#: 322492	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 8082
Lab ID: 492110-043	Received: 09/12/23	Analyst: MES
Matrix: Wipe	Prepared: 09/15/23	
Diln Fac: 1.000	Analyzed: 09/16/23	

492110-043 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492110-043 Surrogate		%REC	Limits
TCMX (PCB)		61	19-121
Decachlorobiphenyl (PCB)		53	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BLANK

Batch#: 322357

Analysis: EPA 8082

Lab ID: QC1093455

Prepared: 09/14/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/14/23

Diln Fac: 1.000

Prep: EPA 3546

QC1093455 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
QC1093455 Surrogate		%REC	Limits
TCMX (PCB)		74	19-121
Decachlorobiphenyl (PCB)		93	19-121

Type: BLANK

Batch#: 322492

Analysis: EPA 8082

Lab ID: QC1093862

Prepared: 09/15/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/15/23

Diln Fac: 1.000

Prep: EPA 3546

QC1093862 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
QC1093862 Surrogate		%REC	Limits
TCMX (PCB)		56	19-121
Decachlorobiphenyl (PCB)		65	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 322357

Analysis: EPA 8082

Lab ID: QC1093456

Prepared: 09/14/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/14/23

Diln Fac: 1.000

Prep: EPA 3546

QC1093456 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.749	95	60-140	ug/100 cm2
Aroclor-1260	5.000	4.832	97	60-140	ug/100 cm2
QC1093456 Surrogate				%REC	Limits
TCMX (PCB)				74	19-121
Decachlorobiphenyl (PCB)				89	19-121

Type: BSD

Batch#: 322357

Analysis: EPA 8082

Lab ID: QC1093457

Prepared: 09/14/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/14/23

Diln Fac: 1.000

Prep: EPA 3546

QC1093457 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.656	93	60-140	ug/100 cm2	2	20
Aroclor-1260	5.000	4.755	95	60-140	ug/100 cm2	2	20
QC1093457 Surrogate				%REC	Limits		
TCMX (PCB)				72	19-121		
Decachlorobiphenyl (PCB)				88	19-121		

Legend

RPD: Relative Percent Difference

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 322492

Analysis: EPA 8082

Lab ID: QC1093863

Prepared: 09/15/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/15/23

Diln Fac: 1.000

Prep: EPA 3546

QC1093863 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.807	76	60-140	ug/100 cm2
Aroclor-1260	5.000	3.575	72	60-140	ug/100 cm2
QC1093863 Surrogate				%REC	Limits
TCMX (PCB)				62	19-121
Decachlorobiphenyl (PCB)				66	19-121

Type: BSD

Batch#: 322492

Analysis: EPA 8082

Lab ID: QC1093864

Prepared: 09/15/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/15/23

Diln Fac: 1.000

Prep: EPA 3546

QC1093864 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.636	73	60-140	ug/100 cm2	5	20
Aroclor-1260	5.000	3.316	66	60-140	ug/100 cm2	8	20
QC1093864 Surrogate				%REC	Limits		
TCMX (PCB)				59	19-121		
Decachlorobiphenyl (PCB)				56	19-121		

Legend

RPD: Relative Percent Difference

Lead

Lab #: 492110		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-PS-5.5-230911-L-G	Batch#: 322285	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 6010B	
Lab ID: 492110-002	Received: 09/12/23	Analyst: SBW	
Matrix: Wipe	Prepared: 09/13/23		
Diln Fac: 1.000	Analyzed: 09/13/23		
492110-002 Analyte		Result	RL Units
Lead		26	0.50 ug/ft2
Field ID: ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-L-LA		Batch#: 322285	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-004		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/13/23	
492110-004 Analyte		Result	RL Units
Lead		28	0.50 ug/ft2
Field ID: ARCH-C10W-PS-5.5-230911-L-G		Batch#: 322285	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-006		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/13/23	
492110-006 Analyte		Result	RL Units
Lead		30	0.50 ug/ft2
Field ID: ARCH-C9W-DG-5.5 TO 6-230911-L-FB		Batch#: 322285	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-008		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/13/23	
492110-008 Analyte		Result	RL Units
Lead		16	0.50 ug/ft2
Field ID: ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-L-LA		Batch#: 322285	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-010		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/13/23	
492110-010 Analyte		Result	RL Units
Lead		57	0.50 ug/ft2

Lead

Lab #: 492110		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C8W-EXT-6 TO 7-230911-L-WF		Batch#: 322285	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-012		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/13/23	
492110-012 Analyte		Result	RL Units
Lead		34	0.50 ug/ft2
Field ID: ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-L-LA		Batch#: 322285	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-014		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/13/23	
492110-014 Analyte		Result	RL Units
Lead		55	0.50 ug/ft2
Field ID: ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-L-LA		Batch#: 322285	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-016		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/13/23	
492110-016 Analyte		Result	RL Units
Lead		36	0.50 ug/ft2
Field ID: ARCH-C11W-DG-6 TO 6.5-230911-L-FB		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-018		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/13/23	
492110-018 Analyte		Result	RL Units
Lead		28	0.50 ug/ft2
Field ID: ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-L-LA		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-020		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/13/23	
492110-020 Analyte		Result	RL Units
Lead		70	0.50 ug/ft2

Lead

Lab #: 492110		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C9W-PS-6.5-230911-L-G	Batch#: 322286	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 6010B	
Lab ID: 492110-022	Received: 09/12/23	Analyst: SBW	
Matrix: Wipe	Prepared: 09/13/23		
Diln Fac: 1.000	Analyzed: 09/14/23		
492110-022 Analyte		Result	RL Units
Lead		33	0.50 ug/ft2
Field ID: ARCH-C11W-PS-6.5-230911-L-G		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-024		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/14/23	
492110-024 Analyte		Result	RL Units
Lead		18	0.50 ug/ft2
Field ID: ARCH-C8W-INT-6.5 TO 7-230911-L-WF		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-026		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/14/23	
492110-026 Analyte		Result	RL Units
Lead		20	0.50 ug/ft2
Field ID: ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-L-LA		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-028		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/14/23	
492110-028 Analyte		Result	RL Units
Lead		63	0.50 ug/ft2
Field ID: ARCH-C8W-DG-7 TO 7.5-230911-L-FB		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-030		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/14/23	
492110-030 Analyte		Result	RL Units
Lead		34	0.50 ug/ft2

Lead

Lab #: 492110		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-L-LA		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-032		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/14/23	
492110-032 Analyte		Result	RL Units
Lead		110	0.50 ug/ft2
Field ID: ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-L-LA		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-034		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/14/23	
492110-034 Analyte		Result	RL Units
Lead		130	0.50 ug/ft2
Field ID: ARCH-C9W-INT-7.5 TO 9-230911-L-WF		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-036		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/14/23	
492110-036 Analyte		Result	RL Units
Lead		390	0.50 ug/ft2
Field ID: ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-L-LA		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-038		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/14/23	
492110-038 Analyte		Result	RL Units
Lead		140	0.50 ug/ft2
Field ID: ARCH-C8W-INT-7.5 TO 9-230911-L-WF		Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-040		Received: 09/12/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/13/23	
Diln Fac: 1.000		Analyzed: 09/14/23	
492110-040 Analyte		Result	RL Units
Lead		29	0.50 ug/ft2

Lead

Lab #: 492110	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: ARCH-C11W-EXT-8 TO 9-230911-L-WF	Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-042	Received: 09/12/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/13/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-042 Analyte	Result	RL	Units
Lead	45	0.50	ug/ft2

Field ID: 230911-L-FIELDBLANK3-LO	Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-044	Received: 09/12/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/13/23	
Diln Fac: 1.000	Analyzed: 09/14/23	

492110-044 Analyte	Result	RL	Units
Lead	1.3	0.50	ug/ft2

Field ID: 230911-L-MEDBLANK3-LO	Batch#: 322286	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/11/23	Analysis: EPA 6010B
Lab ID: 492110-045	Received: 09/12/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/13/23	
Diln Fac: 1.000	Analyzed: 09/13/23	

492110-045 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK	Batch#: 322285	Analysis: EPA 6010B
Lab ID: QC1093249	Prepared: 09/13/23	Analyst: SBW
Matrix: Wipe	Analyzed: 09/13/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1093249 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK	Batch#: 322286	Analysis: EPA 6010B
Lab ID: QC1093254	Prepared: 09/13/23	Analyst: SBW
Matrix: Wipe	Analyzed: 09/13/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1093254 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend
ND: Not Detected
RL: Reporting Limit

Lead: Batch QC

Lab #: 492110

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 322285

Analysis: EPA 6010B

Lab ID: QC1093250

Prepared: 09/13/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/13/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1093250 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	50.40	101	80-120	ug/ft2

Type: BS

Batch#: 322286

Analysis: EPA 6010B

Lab ID: QC1093255

Prepared: 09/13/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/13/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1093255 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	47.60	95	80-120	ug/ft2

Type: BSD

Batch#: 322285

Analysis: EPA 6010B

Lab ID: QC1093251

Prepared: 09/13/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/13/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1093251 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	48.99	98	80-120	ug/ft2	3	20

Type: BSD

Batch#: 322286

Analysis: EPA 6010B

Lab ID: QC1093256

Prepared: 09/13/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/13/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1093256 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	47.32	95	80-120	ug/ft2	1	20

Legend

RPD: Relative Percent Difference

Attachment 4

ProUCL Input and Output Files



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL Lead Input File

Sample ID	LeadResults	d_LeadResults
ARCH-C8W-EXT-1 TO 2-230828-WF	71	1
ARCH-C9W-EXT-1 TO 2-230828-DUP-WF	61	1
ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-LA	64	1
ARCH-C10W-DG-1.5 TO 2-230828-FB	27	1
ARCH-C9W-DG-2 TO 2.5-230828-FB	25	1
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-LA	32	1
ARCH-C11W-INT-1.5 TO 2.5-230828-WF	100	1
ARCH-C8W-PS-2.5-230828-G	37	1
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-LA	37	1
ARCH-C10W-PS-2.5-230828-G	41	1
ARCH-C8W-DG-3 TO 3.5-230828-FB	44	1
ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-LA	55	1
ARCH-C9W-PS-3.5-230828-G	36	1
ARCH-C10W-INT-2.5 TO 3.5-230828-WF	130	1
ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-LA	56	1
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-LA	67	1
ARCH-C9W-DG-4 TO 4.5-230828-DUP-FB	19	1
ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-LA	82	1
ARCH-C8W-DG-4.5 TO 5-230828-FB	64	1
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-LA	53	1
ARCH-C11W-PS-4.5-230828-G	43	1
ARCH-C9W-INT-4.5 TO 5.5-230828-WF	150	1
ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-LA	56	1
ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-LA	150	1
ARCH-C10W-DG-5 TO 5.5-230828-FB	52	1
ARCH-C8W-PS-5.5-230911-G	26	1
ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-LA	28	1
ARCH-C10W-PS-5.5-230911-G	30	1
ARCH-C9W-DG-5.5 TO 6-230911-FB	16	1
ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-LA	57	1
ARCH-C8W-EXT-6 TO 7-230911-WF	34	1
ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-LA	55	1
ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-LA	36	1
ARCH-C11W-DG-6 TO 6.5-230911-FB	28	1
ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-LA	70	1
ARCH-C9W-PS-6.5-230911-G	33	1
ARCH-C11W-PS-6.5-230911-G	18	1
ARCH-C8W-INT-6.5 TO 7-230911-WF	20	1
ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-LA	63	1
ARCH-C8W-DG-7 TO 7.5-230911-FB	34	1



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL Lead Input File

Sample ID	LeadResults	d_LeadResults
ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-LA	110	1
ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-LA	130	1
ARCH-C9W-INT-7.5 TO 9-230911-WF	390	1
ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-LA	140	1
ARCH-C8W-INT-7.5 TO 9-230911-WF	29	1
ARCH-C11W-EXT-8 TO 9-230911-WF	45	1
ARCH-C8E-EXT-1 TO 2-231003-DUP-WF	14	1
ARCH-C9E-EXT-1 TO 2-231003-WF	13	1
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-LA	170	1
ARCH-C10E-DG-1.5 TO 2-231003-DUP-FB	130	1
ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-LA	93	1
ARCH-C11E-INT-1.5 TO 2.5-231003-WF	110	1
ARCH-C8E-PS-2.5-231003-G	110	1
ARCH-C10E-PS-2.5-231003-G	190	1
ARCH-C8E-DG-3 TO 3.5-231003-FB	100	1
ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-LA	52	1
ARCH-C9E-PS-3.5-231003-G	44	1
ARCH-C10E-INT-2.5 TO 3.5-231003-DUP-WF	96	1
ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-LA	14	1
ARCH-C9E-DG-4 TO 4.5-231003-FB	61	1
ARCH-C9E-DG-4 TO 4.5-DN-C9.4-VS-231003-LA	88	1
ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231003-LA	59	1
ARCH-C11E-PS-4.5-231003-G	97	1
ARCH-C9E-INT-4.5 TO 5.5-231003-WF	58	1
ARCH-C9E-DG-5 TO 5.5-UP-C9.5-DG-231003-LA	95	1
ARCH-C8E-DG-5 TO 5.5-UP-C8.3-DG-231023-LA	64	1
ARCH-C10E-DG-5 TO 5.5-231023-FB	25	1
ARCH-C8E-PS-5.5-231023-G	69	1
ARCH-C10E-PS-5.5-231023-G	71	1
ARCH-C9E-DG-5.5 TO 6-231023-FB	38	1
ARCH-C9E-DG-5.5 TO 6-DN-C9.6-DG-231023-LA	88	1
ARCH-C8E-EXT-6 TO 7-231023-WF	84	1
ARCH-C8E-DG-6 TO 6.5-UP-C8.1-HS-231023-LA	220	1
ARCH-C9E-DG-6 TO 6.5-DN-C9.7-VS-231023-LA	92	1
ARCH-C11E-DG-6 TO 6.5-231023-FB	56	1
ARCH-C9E-PS-6.5-231023-G	54	1
ARCH-C11E-PS-6.5-231023-G	73	1
ARCH-C8E-INT-6.5 TO 7-231023-WF	27	1
ARCH-C8E-DG-7 TO 7.5-UP-C8.7-DG-231023-LA	110	1
ARCH-C9E-DG-7 TO 7.5-231023-FB	26	1



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL Lead Input File

Sample ID	LeadResults	d_LeadResults
ARCH-C9E-DG-7 TO 7.5-DN-C9.2-VS-231023-LA	99	1
ARCH-C8E-DG-7.5 TO 8-DN-C8.6-VS-231023-LA	50	1
ARCH-C9E-DG-7.5 TO 8-DN-C9.3-VS-231023-LA	110	1
ARCH-C8E-DG-8 TO 9-DN-C8.6-VS-231023-LA	82	1
ARCH-C11E-EXT-8 TO 9-231024-WF	4	1



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL Lead Output File

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 11/20/2023 3:01:24 PM
From File	Z5_LO_Lead_UCL_Input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

LeadResults

General Statistics			
Total Number of Observations	85	Number of Distinct Observations	58
		Number of Missing Observations	0
Minimum	4	Mean	70.35
Maximum	390	Median	57
SD	54.94	Std. Error of Mean	5.959
Coefficient of Variation	0.781	Skewness	2.824

Normal GOF Test			
Shapiro Wilk Test Statistic	0.793	Shapiro Wilk GOF Test	
1% Shapiro Wilk P Value	0	Data Not Normal at 1% Significance Level	
Lilliefors Test Statistic	0.154	Lilliefors GOF Test	
1% Lilliefors Critical Value	0.111	Data Not Normal at 1% Significance Level	
Data Not Normal at 1% Significance Level			

Assuming Normal Distribution			
95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	80.26	95% Adjusted-CLT UCL (Chen-1995)	82.1
		95% Modified-t UCL (Johnson-1978)	80.57

Gamma GOF Test			
A-D Test Statistic	0.348	Anderson-Darling Gamma GOF Test	
5% A-D Critical Value	0.763	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.0637	Kolmogorov-Smirnov Gamma GOF Test	
5% K-S Critical Value	0.0981	Detected data appear Gamma Distributed at 5% Significance Level	
Detected data appear Gamma Distributed at 5% Significance Level			

Gamma Statistics			
k hat (MLE)	2.186	k star (bias corrected MLE)	2.117
Theta hat (MLE)	32.18	Theta star (bias corrected MLE)	33.24
nu hat (MLE)	371.6	nu star (bias corrected)	359.9
MLE Mean (bias corrected)	70.35	MLE Sd (bias corrected)	48.36
		Approximate Chi Square Value (0.05)	316.9
Adjusted Level of Significance	0.0472	Adjusted Chi Square Value	316.2



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL Lead Output File

Assuming Gamma Distribution			
95% Approximate Gamma UCL	79.89	95% Adjusted Gamma UCL	80.07

Lognormal GOF Test			
Shapiro Wilk Test Statistic	0.988	Shapiro Wilk Lognormal GOF Test	
10% Shapiro Wilk P Value	0.915	Data appear Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.081	Lilliefors Lognormal GOF Test	
10% Lilliefors Critical Value	0.0881	Data appear Lognormal at 10% Significance Level	
Data appear Lognormal at 10% Significance Level			

Lognormal Statistics			
Minimum of Logged Data	1.386	Mean of logged Data	4.008
Maximum of Logged Data	5.966	SD of logged Data	0.731

Assuming Lognormal Distribution			
95% H-UCL	84.45	90% Chebyshev (MVUE) UCL	90.48
95% Chebyshev (MVUE) UCL	99.05	97.5% Chebyshev (MVUE) UCL	110.9
99% Chebyshev (MVUE) UCL	134.3		

Nonparametric Distribution Free UCL Statistics	
Data appear to follow a Discernible Distribution	

Nonparametric Distribution Free UCLs			
95% CLT UCL	80.15	95% BCA Bootstrap UCL	82.2
95% Standard Bootstrap UCL	79.74	95% Bootstrap-t UCL	83.02
95% Hall's Bootstrap UCL	85.71	95% Percentile Bootstrap UCL	79.93
90% Chebyshev(Mean, Sd) UCL	88.23	95% Chebyshev(Mean, Sd) UCL	96.33
97.5% Chebyshev(Mean, Sd) UCL	107.6	99% Chebyshev(Mean, Sd) UCL	129.6

Suggested UCL to Use			
95% Approximate Gamma UCL	79.89		

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL PCBs Input File

Sample ID	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	d_Aroclor 1016	d_Aroclor 1221	d_Aroclor 1232	d_Aroclor 1242	d_Aroclor 1248	d_Aroclor 1254	d_Aroclor 1260	d_Aroclor 1262	d_Aroclor 1268
ARCH-C8W-EXT-1 TO 2-230828-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-EXT-1 TO 2-230828-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C10W-DG-1.5 TO 2-230828-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-2 TO 2.5-230828-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C11W-INT-1.5 TO 2.5-230828-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-PS-2.5-230828-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C10W-PS-2.5-230828-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-3 TO 3.5-230828-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-PS-3.5-230828-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C10W-INT-2.5 TO 3.5-230828-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-4 TO 4.5-230828-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-4.5 TO 5-230828-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C11W-PS-4.5-230828-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-INT-4.5 TO 5.5-230828-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C10W-DG-5 TO 5.5-230828-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-PS-5.5-230911-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C10W-PS-5.5-230911-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-5.5 TO 6-230911-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-EXT-6 TO 7-230911-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C11W-DG-6 TO 6.5-230911-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-PS-6.5-230911-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C11W-PS-6.5-230911-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-INT-6.5 TO 7-230911-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-7 TO 7.5-230911-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL PCBs Input File

Sample ID	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	d_Aroclor 1016	d_Aroclor 1221	d_Aroclor 1232	d_Aroclor 1242	d_Aroclor 1248	d_Aroclor 1254	d_Aroclor 1260	d_Aroclor 1262	d_Aroclor 1268
ARCH-C9W-INT-7.5 TO 9-230911-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8W-INT-7.5 TO 9-230911-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C11W-EXT-8 TO 9-230911-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8E-EXT-1 TO 2-231003-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9E-EXT-1 TO 2-231003-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C10E-DG-1.5 TO 2-231003-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C11E-INT-1.5 TO 2.5-231003-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8E-PS-2.5-231003-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C10E-PS-2.5-231003-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8E-DG-3 TO 3.5-231003-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9E-PS-3.5-231003-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C10E-INT-2.5 TO 3.5-231003-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9E-DG-4 TO 4.5-231003-FB	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9E-DG-4 TO 4.5-DN-C9.4-VS-231003-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231003-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C11E-PS-4.5-231003-G	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9E-INT-4.5 TO 5.5-231003-WF	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0
ARCH-C9E-DG-5 TO 5.5-UP-C9.5-DG-231003-LA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	0	0	0	0	0	0	0	0



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL PCB Output File

UCL Statistics for Data Sets with Non-Detects	
User Selected Options	
Date/Time of Computation	ProUCL 5.2 11/20/2023 3:48:15 PM
From File	Z5_LO_PCB_UCL_Input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Aroclor 1016			
General Statistics			
Total Number of Observations	0	Number of Distinct Observations	0
		Number of Missing Observations	65
Minimum	N/A	Mean	N/A
Maximum	N/A	Median	N/A
Warning: This data set only has 0 observations!			
Data set is too small to compute reliable and meaningful statistics and estimates!			
The data set for variable Aroclor 1016 was not processed!			
It is suggested to collect at least 8 to 10 observations before using these statistical methods!			
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.			

Aroclor 1221			
General Statistics			
Total Number of Observations	0	Number of Distinct Observations	0
		Number of Missing Observations	65
Minimum	N/A	Mean	N/A
Maximum	N/A	Median	N/A
Warning: This data set only has 0 observations!			
Data set is too small to compute reliable and meaningful statistics and estimates!			
The data set for variable Aroclor 1221 was not processed!			
It is suggested to collect at least 8 to 10 observations before using these statistical methods!			
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.			



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL PCB Output File

Aroclor 1232			
General Statistics			
Total Number of Observations	0	Number of Distinct Observations	0
		Number of Missing Observations	65
Minimum	N/A	Mean	N/A
Maximum	N/A	Median	N/A
Warning: This data set only has 0 observations!			
Data set is too small to compute reliable and meaningful statistics and estimates!			
The data set for variable Aroclor 1232 was not processed!			
It is suggested to collect at least 8 to 10 observations before using these statistical methods!			
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.			

Aroclor 1242			
General Statistics			
Total Number of Observations	0	Number of Distinct Observations	0
		Number of Missing Observations	65
Minimum	N/A	Mean	N/A
Maximum	N/A	Median	N/A
Warning: This data set only has 0 observations!			
Data set is too small to compute reliable and meaningful statistics and estimates!			
The data set for variable Aroclor 1242 was not processed!			
It is suggested to collect at least 8 to 10 observations before using these statistical methods!			
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.			

Aroclor 1248			
General Statistics			
Total Number of Observations	0	Number of Distinct Observations	0
		Number of Missing Observations	65
Minimum	N/A	Mean	N/A
Maximum	N/A	Median	N/A
Warning: This data set only has 0 observations!			
Data set is too small to compute reliable and meaningful statistics and estimates!			
The data set for variable Aroclor 1248 was not processed!			
It is suggested to collect at least 8 to 10 observations before using these statistical methods!			
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.			



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL PCB Output File

Aroclor 1254			
General Statistics			
Total Number of Observations	0	Number of Distinct Observations	0
		Number of Missing Observations	65
Minimum	N/A	Mean	N/A
Maximum	N/A	Median	N/A
Warning: This data set only has 0 observations!			
Data set is too small to compute reliable and meaningful statistics and estimates!			
The data set for variable Aroclor 1254 was not processed!			
It is suggested to collect at least 8 to 10 observations before using these statistical methods!			
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.			

Aroclor 1260			
General Statistics			
Total Number of Observations	0	Number of Distinct Observations	0
		Number of Missing Observations	65
Minimum	N/A	Mean	N/A
Maximum	N/A	Median	N/A
Warning: This data set only has 0 observations!			
Data set is too small to compute reliable and meaningful statistics and estimates!			
The data set for variable Aroclor 1260 was not processed!			
It is suggested to collect at least 8 to 10 observations before using these statistical methods!			
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.			

Aroclor 1262			
General Statistics			
Total Number of Observations	0	Number of Distinct Observations	0
		Number of Missing Observations	65
Minimum	N/A	Mean	N/A
Maximum	N/A	Median	N/A
Warning: This data set only has 0 observations!			
Data set is too small to compute reliable and meaningful statistics and estimates!			
The data set for variable Aroclor 1262 was not processed!			
It is suggested to collect at least 8 to 10 observations before using these statistical methods!			
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.			



Attachment 4
Hangar 1 Data Summary Submittal for the
Low Occupancy Area of Zone 5
ProUCL PCB Output File

Aroclor 1268			
General Statistics			
Total Number of Observations	0	Number of Distinct Observations	0
		Number of Missing Observations	65
Minimum	N/A	Mean	N/A
Maximum	N/A	Median	N/A
Warning: This data set only has 0 observations!			
Data set is too small to compute reliable and meaningful statistics and estimates!			
The data set for variable Aroclor 1268 was not processed!			
It is suggested to collect at least 8 to 10 observations before using these statistical methods!			
If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.			

Attachment 5

Data Validation Reports



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Rincon Consultants, Inc.
250 E. 1st Street Suite 1400
Los Angeles, CA – 90012
ATTN: Mr. Ryan Thacher
rthacher@rinconconsultants.com

November 22, 2023

SUBJECT: Hangar 1 NTCRA - Data Validation

Dear Mr. Thacher,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on October 5, 2023. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #57638 RV1:

SDG #

491224, 491258, 492059, 492110, 492114

Fraction

Polychlorinated Biphenyls, Lead

The data validation was performed under Stage 2A & 3 guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020)
- USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

Shaded cells indicate Stage 3 validation (all other cells are Stage 2A validation). Sample counts do not include MS, MSD, and DUP's. V:\LOGIN\Rincon\Moffett Field, Hangar 1 NTCRA\57638ST-Wipe.wpd

Automated Data Review Data Validation Report

Hangar 1 NTCRA

Sample Delivery Groups

491224

491258

492059

492110

492114

Only the Highlighted SDGs contain samples that were collected within the Low Occupancy Area of Zone 5.

October 19, 2023

Introduction

This Data Validation Report (DVR) presents Stage 2A and Stage 3 data validation results for samples collected during the August through September 2023 sampling period. Data validation was performed in accordance with a modified outline of the US Environmental Protection Agency (EPA) National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020) and USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Polychlorinated Biphenyls (PCBs) by Environmental Protection Agency (EPA) SW 846 Method 8082

Lead by EPA SW 846 Method 6010B

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2A data validation, which comprises an evaluation of quality control (QC) summary results. Selected samples were subjected to Stage 3 data validation as indicated on the Sample Summary Report. Stage 3 data validation is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

Initial Calibration and Initial Calibration Verification

8082

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all analytes.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 15.0% for all analytes.

Initial calibration data were not reviewed for Stage 2A validation.

6010B

An initial calibration was performed as required by the method.

The initial calibration verification (ICV) standards were within QC limits.

Initial calibration data were not reviewed for Stage 2A validation.

Continuing Calibration

8082

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 15.0% for all analytes.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

Continuing calibration data were not reviewed for Stage 2A validation.

6010B

Continuing calibrations were performed as required by the method.

The continuing calibration verification (CCV) standards were within QC limits.

Continuing calibration data were not reviewed for Stage 2A validation.

ICP Interference Check Sample Analysis

6010B

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

Although lead was found in the ICSA standard, no qualification was necessary since the interferent concentrations in the samples were less than ninety percent of the spiked interference concentrations in the ICSA.

Interference check sample (ICS) analysis data were not reviewed for Stage 2A validation.

Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminants were detected in the laboratory blanks.

Field Blanks

8082

Six field blanks were collected and analyzed. No contaminants were found.

6010B

Six field blanks and six media blanks were collected and analyzed. Four field blanks had detections for lead. The associated sample results were not detected or were significantly greater than the concentrations found in the field blanks and were not qualified. The details are presented in Enclosure I.

Surrogate Spikes

8082

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Internal Standards

8082

All internal standard areas and retention times were within QC limits.

Internal standard data were not reviewed for Stage 2A validation.

Matrix Spike/Matrix Spike Duplicates

The collection of MS/MSDs for wipe samples is not required per the agency-approved UFP-QAPP.

Duplicate Sample Analysis

6010B

Laboratory duplicate (DUP) analyses is not required per the agency-approved UFP-QAPP.

Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Field Duplicates

8082

Ten field duplicate pairs were collected and analyzed. No results were detected in the field duplicates. The field duplicates are identified in Attachment 1.

6010B

Ten field duplicate pairs were collected and analyzed. Ten field duplicate pairs had detections for lead. All RPDs were within QC limits. The field duplicate result comparisons are presented in Enclosure I.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

Overall Assessment of Data

The analyses were conducted within all specifications of the methods. No results were rejected in these SDGs.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Summary Report by Analysis Method

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
-------------------------	----------------------	---------------	--------------------	---------------------------	------------------------	------------------------

Lab Reporting Batch: 491224

Method: 6010B

ARCH-C10W-DG-1.5 TO 2-230828-L-DUP-FB	491224-010	WIPE	FD	3050B	8/28/2023 7:55:00 AM	S3VEM
ARCH-C10W-DG-1.5 TO 2-230828-L-FB	491224-009	WIPE	N	3050B	8/28/2023 7:55:00 AM	S3VEM
ARCH-C10W-PS-2.5-230828-L-G	491224-024	WIPE	N	3050B	8/28/2023 9:30:00 AM	S3VEM
ARCH-C11W-INT-1.5 TO 2.5-230828-L-WF	491224-017	WIPE	N	3050B	8/28/2023 8:45:00 AM	S3VEM
ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-L-LA	491224-007	WIPE	N	3050B	8/28/2023 8:10:00 AM	S3VEM
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-L-LA	491224-022	WIPE	N	3050B	8/28/2023 9:15:00 AM	S3VEM
ARCH-C8W-EXT-1 TO 2-230828-L-WF	491224-002	WIPE	N	3050B	8/28/2023 7:30:00 AM	S3VEM
ARCH-C8W-PS-2.5-230828-L-G	491224-019	WIPE	N	3050B	8/28/2023 9:00:00 AM	S3VEM
ARCH-C9W-DG-2 TO 2.5-230828-L-FB	491224-012	WIPE	N	3050B	8/28/2023 8:25:00 AM	S3VEM
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-L-LA	491224-015	WIPE	N	3050B	8/28/2023 8:30:00 AM	S3VEM
ARCH-C9W-EXT-1 TO 2-230828-L-DUP-WF	491224-005	WIPE	FD	3050B	8/28/2023 7:40:00 AM	S3VEM
ARCH-C9W-EXT-1 TO 2-230828-L-WF	491224-004	WIPE	N	3050B	8/28/2023 7:40:00 AM	S3VEM

Method: 8082

ARCH-C10W-DG-1.5 TO 2-230828-P-FB	491224-008	WIPE	N	3546	8/28/2023 7:55:00 AM	S3VEM
ARCH-C10W-PS-2.5-230828-P-G	491224-023	WIPE	N	3546	8/28/2023 9:30:00 AM	S3VEM
ARCH-C11W-INT-1.5 TO 2.5-230828-P-WF	491224-016	WIPE	N	3546	8/28/2023 8:45:00 AM	S3VEM
ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-P-LA	491224-006	WIPE	N	3546	8/28/2023 8:10:00 AM	S3VEM
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-DUP-LA	491224-021	WIPE	FD	3546	8/28/2023 9:15:00 AM	S3VEM
ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-LA	491224-020	WIPE	N	3546	8/28/2023 9:15:00 AM	S3VEM
ARCH-C8W-EXT-1 TO 2-230828-P-WF	491224-001	WIPE	N	3546	8/28/2023 7:30:00 AM	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 8082						
ARCH-C8W-PS-2.5-230828-P-G	491224-018	WIPE	N	3546	8/28/2023 9:00:00 AM	S3VEM
ARCH-C9W-DG-2 TO 2.5-230828-P-FB	491224-011	WIPE	N	3546	8/28/2023 8:25:00 AM	S3VEM
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-P-DUP-LA	491224-014	WIPE	FD	3546	8/28/2023 8:30:00 AM	S3VEM
ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-P-LA	491224-013	WIPE	N	3546	8/28/2023 8:30:00 AM	S3VEM
ARCH-C9W-EXT-1 TO 2-230828-P-WF	491224-003	WIPE	N	3546	8/28/2023 7:40:00 AM	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
-------------------------	----------------------	---------------	--------------------	---------------------------	------------------------	------------------------

Lab Reporting Batch: 491258

Method: 6010B

230828-L-FIELDBLANK1-LO	491258-038	WIPE	FB	3050B	8/28/2023 7:20:00 AM	S2AVE
230828-L-FIELDBLANK2-LO	491258-041	WIPE	FB	3050B	8/28/2023 7:40:00 AM	S2AVE
230828-L-MEDBLANK1	491258-039	WIPE	FB	3050B	8/28/2023 12:00:00 PM	S2AVE
230828-L-MEDBLANK2	491258-042	WIPE	FB	3050B	8/28/2023 12:05:00 PM	S2AVE
ARCH-C10W-DG-5 TO 5.5-230828-L-FB	491258-036	WIPE	N	3050B	8/28/2023 10:45:00 AM	S2AVE
ARCH-C10W-INT-2.5 TO 3.5-230828-L-DUP-WF	491258-010	WIPE	FD	3050B	8/28/2023 8:05:00 AM	S2AVE
ARCH-C10W-INT-2.5 TO 3.5-230828-L-WF	491258-009	WIPE	N	3050B	8/28/2023 8:05:00 AM	S2AVE
ARCH-C11W-PS-4.5-230828-L-G	491258-027	WIPE	N	3050B	8/28/2023 9:55:00 AM	S2AVE
ARCH-C8W-DG-3 TO 3.5-230828-L-FB	491258-003	WIPE	N	3050B	8/28/2023 9:45:00 AM	S2AVE
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-L-LA	491258-015	WIPE	N	3050B	8/28/2023 8:25:00 AM	S2AVE
ARCH-C8W-DG-4.5 TO 5-230828-L-FB	491258-022	WIPE	N	3050B	8/28/2023 9:45:00 AM	S2AVE
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-L-DUP-LA	491258-025	WIPE	FD	3050B	8/28/2023 9:25:00 AM	S2AVE
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-L-LA	491258-024	WIPE	N	3050B	8/28/2023 9:25:00 AM	S2AVE
ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-L-LA	491258-033	WIPE	N	3050B	8/28/2023 10:20:00 AM	S2AVE
ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-L-LA	491258-005	WIPE	N	3050B	8/28/2023 9:55:00 AM	S2AVE
ARCH-C9W-DG-4 TO 4.5-230828-L-DUP-FB	491258-018	WIPE	FD	3050B	8/28/2023 8:55:00 AM	S2AVE
ARCH-C9W-DG-4 TO 4.5-230828-L-FB	491258-017	WIPE	N	3050B	8/28/2023 8:55:00 AM	S2AVE
ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-L-LA	491258-020	WIPE	N	3050B	8/28/2023 9:10:00 AM	S2AVE
ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-L-LA	491258-012	WIPE	N	3050B	8/28/2023 8:40:00 AM	S2AVE
ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-L-LA	491258-031	WIPE	N	3050B	8/28/2023 10:30:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 6010B						
ARCH-C9W-INT-4.5 TO 5.5-230828-L-WF	491258-029	WIPE	N	3050B	8/28/2023 10:05:00 AM	S2AVE
ARCH-C9W-PS-3.5-230828-L-G	491258-007	WIPE	N	3050B	8/28/2023 7:35:00 AM	S2AVE
Method: 8082						
230828-P-FIELDBLANK1-LO	491258-037	WIPE	FB	3546	8/28/2023 7:20:00 AM	S2AVE
230828-P-FIELDBLANK2-LO	491258-040	WIPE	FB	3546	8/28/2023 7:40:00 AM	S2AVE
ARCH-C10W-DG-5 TO 5.5-230828-P-DUP-FB	491258-035	WIPE	FD	3546	8/28/2023 10:45:00 AM	S2AVE
ARCH-C10W-DG-5 TO 5.5-230828-P-FB	491258-034	WIPE	N	3546	8/28/2023 10:45:00 AM	S2AVE
ARCH-C10W-INT-2.5 TO 3.5-230828-P-WF	491258-008	WIPE	N	3546	8/28/2023 8:05:00 AM	S2AVE
ARCH-C11W-PS-4.5-230828-P-G	491258-026	WIPE	N	3546	8/28/2023 9:55:00 AM	S2AVE
ARCH-C8W-DG-3 TO 3.5-230828-P-DUP-FB	491258-002	WIPE	FD	3546	8/28/2023 9:45:00 AM	S2AVE
ARCH-C8W-DG-3 TO 3.5-230828-P-FB	491258-001	WIPE	N	3546	8/28/2023 9:45:00 AM	S2AVE
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-P-DUP-LA	491258-014	WIPE	FD	3546	8/28/2023 8:25:00 AM	S2AVE
ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-P-LA	491258-013	WIPE	N	3546	8/28/2023 8:25:00 AM	S2AVE
ARCH-C8W-DG-4.5 TO 5-230828-P-FB	491258-021	WIPE	N	3546	8/28/2023 9:45:00 AM	S2AVE
ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-P-LA	491258-023	WIPE	N	3546	8/28/2023 9:25:00 AM	S2AVE
ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-P-LA	491258-032	WIPE	N	3546	8/28/2023 10:20:00 AM	S2AVE
ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-P-LA	491258-004	WIPE	N	3546	8/28/2023 9:55:00 AM	S2AVE
ARCH-C9W-DG-4 TO 4.5-230828-P-FB	491258-016	WIPE	N	3546	8/28/2023 8:55:00 AM	S2AVE
ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-P-LA	491258-019	WIPE	N	3546	8/28/2023 9:10:00 AM	S2AVE
ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-P-LA	491258-011	WIPE	N	3546	8/28/2023 8:40:00 AM	S2AVE
ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-P-LA	491258-030	WIPE	N	3546	8/28/2023 10:30:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 8082						
ARCH-C9W-INT-4.5 TO 5.5-230828-P-WF	491258-028	WIPE	N	3546	8/28/2023 10:05:00 AM	S2AVE
ARCH-C9W-PS-3.5-230828-P- G	491258-006	WIPE	N	3546	8/28/2023 7:35:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By:

Approved By:

Laboratory: Enthalpy Orange

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
------------------	---------------	--------	-------------	--------------------	-----------------	-----------------

Lab Reporting Batch: 492059

Method: 6010B

AFRAME-C11W-LAT-L3-EXT-0 TO 1-230911-L-DUP-WF	492059-022	WIPE	FD	3050B	9/11/2023 10:50:00 AM	S3VEM
AFRAME-C11W-LAT-L3-EXT-0 TO 1-230911-L-WF	492059-021	WIPE	N	3050B	9/11/2023 10:50:00 AM	S3VEM
AFRAME-C8W-LAT-L3-EXT-1 TO 2-230911-L-WF	492059-002	WIPE	N	3050B	9/11/2023 9:15:00 AM	S3VEM
AFRAME-C8W-LAT-L3-UP-C8.1-DG-230911-L-LA	492059-004	WIPE	N	3050B	9/11/2023 9:25:00 AM	S3VEM
AFRAME-C8W-LAT-L3-UP-C8.6-HS-230911-L-LA	492059-014	WIPE	N	3050B	9/11/2023 10:30:00 AM	S3VEM
AFRAME-C8W-MED-L3-DN-C8.7-DG-230911-L-LA	492059-024	WIPE	N	3050B	9/11/2023 1:20:00 PM	S3VEM
AFRAME-C8W-MED-L3-UP-C8.4-DG-230911-L-LA	492059-017	WIPE	N	3050B	9/11/2023 10:20:00 AM	S3VEM
AFRAME-C9W-LAT-L3-EXT-1 TO 2-230911-L-DUP-WF	492059-007	WIPE	FD	3050B	9/11/2023 9:35:00 AM	S3VEM
AFRAME-C9W-LAT-L3-EXT-1 TO 2-230911-L-WF	492059-006	WIPE	N	3050B	9/11/2023 9:35:00 AM	S3VEM
AFRAME-C9W-LAT-L3-UP-C9.1-HS-230911-L-LA	492059-019	WIPE	N	3050B	9/11/2023 10:40:00 AM	S3VEM
AFRAME-C9W-LAT-L3-UP-C9.4-VS-230911-L-LA	492059-009	WIPE	N	3050B	9/11/2023 10:00:00 AM	S3VEM
AFRAME-C9W-MED-L3-UP-C9.7-DG-230911-L-LA	492059-012	WIPE	N	3050B	9/11/2023 10:10:00 AM	S3VEM

Method: 8082

AFRAME-C11W-LAT-L3-EXT-0 TO 1-230911-P-WF	492059-020	WIPE	N	3546	9/11/2023 10:50:00 AM	S3VEM
AFRAME-C8W-LAT-L3-EXT-1 TO 2-230911-P-WF	492059-001	WIPE	N	3546	9/11/2023 9:15:00 AM	S3VEM
AFRAME-C8W-LAT-L3-UP-C8.1-DG-230911-P-LA	492059-003	WIPE	N	3546	9/11/2023 9:25:00 AM	S3VEM
AFRAME-C8W-LAT-L3-UP-C8.6-HS-230911-P-LA	492059-013	WIPE	N	3546	9/11/2023 10:30:00 AM	S3VEM
AFRAME-C8W-MED-L3-DN-C8.7-DG-230911-P-LA	492059-023	WIPE	N	3546	9/11/2023 1:20:00 PM	S3VEM
AFRAME-C8W-MED-L3-UP-C8.4-DG-230911-P-DUP-LA	492059-016	WIPE	FD	3546	9/11/2023 10:20:00 AM	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By:

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
--------------------------------	-----------------------------	----------------------	---------------------------	----------------------------------	-------------------------------	-------------------------------

Method: 8082

AFRAME-C8W-MED-L3-UP-C8.4-DG-230911-P-LA	492059-015	WIPE	N	3546	9/11/2023 10:20:00 AM	S3VEM
AFRAME-C9W-LAT-L3-EXT-1 TO 2-230911-P-WF	492059-005	WIPE	N	3546	9/11/2023 9:35:00 AM	S3VEM
AFRAME-C9W-LAT-L3-UP-C9.1-HS-230911-P-LA	492059-018	WIPE	N	3546	9/11/2023 10:40:00 AM	S3VEM
AFRAME-C9W-LAT-L3-UP-C9.4-VS-230911-P-LA	492059-008	WIPE	N	3546	9/11/2023 10:00:00 AM	S3VEM
AFRAME-C9W-MED-L3-UP-C9.7-DG-230911-P-DUP-LA	492059-011	WIPE	FD	3546	9/11/2023 10:10:00 AM	S3VEM
AFRAME-C9W-MED-L3-UP-C9.7-DG-230911-P-LA	492059-010	WIPE	N	3546	9/11/2023 10:10:00 AM	S3VEM

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 5.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
-------------------------	----------------------	---------------	--------------------	---------------------------	------------------------	------------------------

Lab Reporting Batch: 492110

Method: 6010B

230911-L-FIELDBLANK3-LO	492110-044	WIPE	FB	3050B	9/11/2023 9:15:00 AM	S2AVE
230911-L-MEDBLANK3-LO	492110-045	WIPE	FB	3050B	9/11/2023 3:16:00 PM	S2AVE
ARCH-C10W-PS-5.5-230911-L-G	492110-006	WIPE	N	3050B	9/11/2023 8:15:00 AM	S2AVE
ARCH-C11W-DG-6 TO 6.5-230911-L-FB	492110-018	WIPE	N	3050B	9/11/2023 8:00:00 AM	S2AVE
ARCH-C11W-EXT-8 TO 9-230911-L-WF	492110-042	WIPE	N	3050B	9/11/2023 9:00:00 AM	S2AVE
ARCH-C11W-PS-6.5-230911-L-G	492110-024	WIPE	N	3050B	9/11/2023 8:35:00 AM	S2AVE
ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-L-LA	492110-004	WIPE	N	3050B	9/11/2023 8:00:00 AM	S2AVE
ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-L-LA	492110-014	WIPE	N	3050B	9/11/2023 9:10:00 AM	S2AVE
ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-L-LA	492110-020	WIPE	N	3050B	9/11/2023 8:15:00 AM	S2AVE
ARCH-C8W-DG-7 TO 7.5-230911-L-FB	492110-030	WIPE	N	3050B	9/11/2023 7:45:00 AM	S2AVE
ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-L-LA	492110-028	WIPE	N	3050B	9/11/2023 9:00:00 AM	S2AVE
ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-L-LA	492110-034	WIPE	N	3050B	9/11/2023 8:10:00 AM	S2AVE
ARCH-C8W-EXT-6 TO 7-230911-L-WF	492110-012	WIPE	N	3050B	9/11/2023 8:55:00 AM	S2AVE
ARCH-C8W-INT-6.5 TO 7-230911-L-WF	492110-026	WIPE	N	3050B	9/11/2023 8:50:00 AM	S2AVE
ARCH-C8W-INT-7.5 TO 9-230911-L-WF	492110-040	WIPE	N	3050B	9/11/2023 8:50:00 AM	S2AVE
ARCH-C8W-PS-5.5-230911-L-G	492110-002	WIPE	N	3050B	9/11/2023 7:45:00 AM	S2AVE
ARCH-C9W-DG-5.5 TO 6-230911-L-FB	492110-008	WIPE	N	3050B	9/11/2023 8:30:00 AM	S2AVE
ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-L-LA	492110-010	WIPE	N	3050B	9/11/2023 8:40:00 AM	S2AVE
ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-L-LA	492110-016	WIPE	N	3050B	9/11/2023 7:55:00 AM	S2AVE
ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-L-LA	492110-032	WIPE	N	3050B	9/11/2023 8:00:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 6010B						
ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-L-LA	492110-038	WIPE	N	3050B	9/11/2023 8:35:00 AM	S2AVE
ARCH-C9W-INT-7.5 TO 9-230911-L-WF	492110-036	WIPE	N	3050B	9/11/2023 8:25:00 AM	S2AVE
ARCH-C9W-PS-6.5-230911-L-G	492110-022	WIPE	N	3050B	9/11/2023 8:25:00 AM	S2AVE
Method: 8082						
230911-P-FIELDBLANK3-LO	492110-043	WIPE	FB	3546	9/11/2023 9:15:00 AM	S2AVE
ARCH-C10W-PS-5.5-230911-P-G	492110-005	WIPE	N	3546	9/11/2023 8:15:00 AM	S2AVE
ARCH-C11W-DG-6 TO 6.5-230911-P-FB	492110-017	WIPE	N	3546	9/11/2023 8:00:00 AM	S2AVE
ARCH-C11W-EXT-8 TO 9-230911-P-WF	492110-041	WIPE	N	3546	9/11/2023 9:00:00 AM	S2AVE
ARCH-C11W-PS-6.5-230911-P-G	492110-023	WIPE	N	3546	9/11/2023 8:35:00 AM	S2AVE
ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-P-LA	492110-003	WIPE	N	3546	9/11/2023 8:00:00 AM	S2AVE
ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-P-LA	492110-013	WIPE	N	3546	9/11/2023 9:10:00 AM	S2AVE
ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-P-LA	492110-019	WIPE	N	3546	9/11/2023 8:15:00 AM	S2AVE
ARCH-C8W-DG-7 TO 7.5-230911-P-FB	492110-029	WIPE	N	3546	9/11/2023 7:45:00 AM	S2AVE
ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-P-LA	492110-027	WIPE	N	3546	9/11/2023 9:00:00 AM	S2AVE
ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-P-LA	492110-033	WIPE	N	3546	9/11/2023 8:10:00 AM	S2AVE
ARCH-C8W-EXT-6 TO 7-230911-P-WF	492110-011	WIPE	N	3546	9/11/2023 8:55:00 AM	S2AVE
ARCH-C8W-INT-6.5 TO 7-230911-P-WF	492110-025	WIPE	N	3546	9/11/2023 8:50:00 AM	S2AVE
ARCH-C8W-INT-7.5 TO 9-230911-P-WF	492110-039	WIPE	N	3546	9/11/2023 8:50:00 AM	S2AVE
ARCH-C8W-PS-5.5-230911-P-G	492110-001	WIPE	N	3546	9/11/2023 7:45:00 AM	S2AVE
ARCH-C9W-DG-5.5 TO 6-230911-P-FB	492110-007	WIPE	N	3546	9/11/2023 8:30:00 AM	S2AVE
ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-P-LA	492110-009	WIPE	N	3546	9/11/2023 8:40:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 8082						
ARCH-C9W-DG-6 TO 6.5-DN- C9.7-VS-230911-P-LA	492110-015	WIPE	N	3546	9/11/2023 7:55:00 AM	S2AVE
ARCH-C9W-DG-7 TO 7.5-DN- C9.1-DG-230911-P-LA	492110-031	WIPE	N	3546	9/11/2023 8:00:00 AM	S2AVE
ARCH-C9W-DG-7.5 TO 8-DN- C9.3-VS-230911-P-LA	492110-037	WIPE	N	3546	9/11/2023 8:35:00 AM	S2AVE
ARCH-C9W-INT-7.5 TO 9-230911-P-WF	492110-035	WIPE	N	3546	9/11/2023 8:25:00 AM	S2AVE
ARCH-C9W-PS-6.5-230911-P- G	492110-021	WIPE	N	3546	9/11/2023 8:25:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
-------------------------	----------------------	---------------	--------------------	---------------------------	------------------------	------------------------

Lab Reporting Batch: 492114

Method: 6010B

230911-L-FIELDBLANK1-HO	492114-074	WIPE	FB	3050B	9/11/2023 9:55:00 AM	S2AVE
230911-L-FIELDBLANK2-HO	492114-077	WIPE	FB	3050B	9/11/2023 10:16:00 AM	S2AVE
230911-L-FIELDBLANK3-HO	492114-080	WIPE	FB	3050B	9/11/2023 2:00:00 PM	S2AVE
230911-L-MEDBLANK1-HO	492114-075	WIPE	FB	3050B	9/11/2023 3:11:00 PM	S2AVE
230911-L-MEDBLANK2-HO	492114-078	WIPE	FB	3050B	9/11/2023 3:13:00 PM	S2AVE
230911-L-MEDBLANK3-HO	492114-081	WIPE	FB	3050B	9/11/2023 3:12:00 PM	S2AVE
AFRAME-C10W-MED-L1-HS-3-230911-L-A	492114-051	WIPE	N	3050B	9/11/2023 10:20:00 AM	S2AVE
AFRAME-C10W-MED-L1-HS-3-230911-L-DUP-A	492114-052	WIPE	FD	3050B	9/11/2023 10:20:00 AM	S2AVE
AFRAME-C10W-MED-L2-HS-1-230911-L-G	492114-009	WIPE	N	3050B	9/11/2023 1:40:00 PM	S2AVE
AFRAME-C10W-MED-L2-INT-0 TO 0.5-230911-L-FB	492114-032	WIPE	N	3050B	9/11/2023 11:20:00 AM	S2AVE
AFRAME-C11W-LAT-L1-INT-1 TO 2-230911-L-FB	492114-064	WIPE	N	3050B	9/11/2023 2:10:00 PM	S2AVE
AFRAME-C11W-MED-L1-HS-3-230911-L-G	492114-054	WIPE	N	3050B	9/11/2023 10:30:00 AM	S2AVE
AFRAME-C11W-MED-L2-EXT-0 TO 1-230911-L-WF	492114-034	WIPE	N	3050B	9/11/2023 11:30:00 AM	S2AVE
AFRAME-C11W-MED-L2-INT-0.5 TO 1-230911-L-FB	492114-020	WIPE	N	3050B	9/11/2023 10:15:00 AM	S2AVE
AFRAME-C8W-LAT-L1-HS-3-230911-L-A	492114-036	WIPE	N	3050B	9/11/2023 1:10:00 PM	S2AVE
AFRAME-C8W-LAT-L1-INT-1 TO 2-230911-L-FB	492114-058	WIPE	N	3050B	9/11/2023 1:05:00 PM	S2AVE
AFRAME-C8W-LAT-L1-UP-C8.7-VS-230911-L-I	492114-038	WIPE	N	3050B	9/11/2023 1:20:00 PM	S2AVE
AFRAME-C8W-LAT-L1-UP-C8W-HS-230911-L-LA	492114-060	WIPE	N	3050B	9/11/2023 1:20:00 PM	S2AVE
AFRAME-C8W-LAT-L2-INT-0.5 TO 1-230911-L-FB	492114-011	WIPE	N	3050B	9/11/2023 9:20:00 AM	S2AVE
AFRAME-C8W-MED-L1-DN-C8.7-DG-230911-L-SS	492114-066	WIPE	N	3050B	9/11/2023 1:35:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 6010B						
AFRAME-C8W-MED-L1-EXT-1 TO 2-230911-L-WF	492114-056	WIPE	N	3050B	9/11/2023 10:55:00 AM	S2AVE
AFRAME-C8W-MED-L1-UP- C8.1-DG-230911-L-SS	492114-040	WIPE	N	3050B	9/11/2023 1:25:00 PM	S2AVE
AFRAME-C8W-MED-L1-UP- C8.6-DG-230911-L-DUP-SS	492114-043	WIPE	FD	3050B	9/11/2023 1:35:00 PM	S2AVE
AFRAME-C8W-MED-L1-UP- C8.6-DG-230911-L-SS	492114-042	WIPE	N	3050B	9/11/2023 1:35:00 PM	S2AVE
AFRAME-C8W-MED-L2-DN- C8.2-DG-230911-L-LA	492114-023	WIPE	N	3050B	9/11/2023 10:30:00 AM	S2AVE
AFRAME-C8W-MED-L2- HS-1-230911-L-G	492114-003	WIPE	N	3050B	9/11/2023 1:05:00 PM	S2AVE
AFRAME-C9W-LAT-L1- HS-3-230911-L-G	492114-045	WIPE	N	3050B	9/11/2023 9:30:00 AM	S2AVE
AFRAME-C9W-LAT-L1-INT-1 TO 2-230911-L-FB	492114-062	WIPE	N	3050B	9/11/2023 1:55:00 PM	S2AVE
AFRAME-C9W-LAT-L2-EXT-0 TO 1-230911-L-WF	492114-016	WIPE	N	3050B	9/11/2023 9:44:00 AM	S2AVE
AFRAME-C9W-LAT-L2- INT-0.5 TO 1-230911-L-DUP- FB	492114-014	WIPE	FD	3050B	9/11/2023 9:30:00 AM	S2AVE
AFRAME-C9W-LAT-L2- INT-0.5 TO 1-230911-L-FB	492114-013	WIPE	N	3050B	9/11/2023 9:30:00 AM	S2AVE
AFRAME-C9W-LAT-L2-UP- C9.7-VS-230911-L-I	492114-018	WIPE	N	3050B	9/11/2023 10:00:00 AM	S2AVE
AFRAME-C9W-LAT-L3-DN- C9.5-DG-230911-L-LA	492114-005	WIPE	N	3050B	9/11/2023 1:50:00 PM	S2AVE
AFRAME-C9W-MED-L1-DN- C9.7-DG-230911-L-SS	492114-072	WIPE	N	3050B	9/11/2023 2:05:00 PM	S2AVE
AFRAME-C9W-MED-L1-DN- C9W-DG-230911-L-SS	492114-070	WIPE	N	3050B	9/11/2023 1:45:00 PM	S2AVE
AFRAME-C9W-MED-L1-EXT-0 TO 1-230911-L-WF	492114-068	WIPE	N	3050B	9/11/2023 1:40:00 PM	S2AVE
AFRAME-C9W-MED-L1- HS-3-230911-L-LA	492114-047	WIPE	N	3050B	9/11/2023 9:35:00 AM	S2AVE
AFRAME-C9W-MED-L1-UP- C9.6-DG-230911-L-SS	492114-049	WIPE	N	3050B	9/11/2023 10:45:00 AM	S2AVE
AFRAME-C9W-MED-L2-DN- C9.5-DG-230911-L-LA	492114-027	WIPE	N	3050B	9/11/2023 11:10:00 AM	S2AVE
AFRAME-C9W-MED-L2-INT-0 TO 0.5-230911-L-FB	492114-025	WIPE	N	3050B	9/11/2023 10:45:00 AM	S2AVE

10/17/2023 10:35:14 AM

ADR version 1.9.0.325

Page 2 of 6

Crossed out Sample IDs not collected within the Low Occupancy Area of Zone 5.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
------------------	---------------	--------	-------------	--------------------	-----------------	-----------------

Method: 6010B

AFRAME-C9W-MED-L2-UP-C9.1-VS-230911-L-LA	492114-029	WIPE	N	3050B	9/11/2023 10:55:00 AM	S2AVE
AFRAME-C9W-MED-L3-DN-C9.2-DG-230911-L-LA	492114-007	WIPE	N	3050B	9/11/2023 1:30:00 PM	S2AVE

Method: 8082

230911-P-FIELDBLANK1-HO	492114-073	WIPE	FB	3546	9/11/2023 9:55:00 AM	S2AVE
230911-P-FIELDBLANK2-HO	492114-076	WIPE	FB	3546	9/11/2023 10:16:00 AM	S2AVE
230911-P-FIELDBLANK3-HO	492114-079	WIPE	FB	3546	9/11/2023 2:00:00 PM	S2AVE
AFRAME-C10W-MED-L1-HS-3-230911-P-A	492114-050	WIPE	N	3546	9/11/2023 10:20:00 AM	S2AVE
AFRAME-C10W-MED-L2-HS-1-230911-P-G	492114-008	WIPE	N	3546	9/11/2023 1:40:00 PM	S2AVE
AFRAME-C10W-MED-L2-INT-0 TO 0.5-230911-P-DUP-FB	492114-031	WIPE	FD	3546	9/11/2023 11:20:00 AM	S2AVE
AFRAME-C10W-MED-L2-INT-0 TO 0.5-230911-P-FB	492114-030	WIPE	N	3546	9/11/2023 11:20:00 AM	S2AVE
AFRAME-C11W-LAT-L1-INT-1 TO 2-230911-P-FB	492114-063	WIPE	N	3546	9/11/2023 2:10:00 PM	S2AVE
AFRAME-C11W-MED-L1-HS-3-230911-P-G	492114-053	WIPE	N	3546	9/11/2023 10:30:00 AM	S2AVE
AFRAME-C11W-MED-L2-EXT-0 TO 1-230911-P-WF	492114-033	WIPE	N	3546	9/11/2023 11:30:00 AM	S2AVE
AFRAME-C11W-MED-L2-INT-0.5 TO 1-230911-P-FB	492114-019	WIPE	N	3546	9/11/2023 10:15:00 AM	S2AVE
AFRAME-C8W-LAT-L1-HS-3-230911-P-A	492114-035	WIPE	N	3546	9/11/2023 1:10:00 PM	S2AVE
AFRAME-C8W-LAT-L1-INT-1 TO 2-230911-P-FB	492114-057	WIPE	N	3546	9/11/2023 1:05:00 PM	S2AVE
AFRAME-C8W-LAT-L1-UP-C8.7-VS-230911-P-I	492114-037	WIPE	N	3546	9/11/2023 1:20:00 PM	S2AVE
AFRAME-C8W-LAT-L1-UP-C8W-HS-230911-P-LA	492114-059	WIPE	N	3546	9/11/2023 1:20:00 PM	S2AVE
AFRAME-C8W-LAT-L2-INT-0.5 TO 1-230911-P-FB	492114-010	WIPE	N	3546	9/11/2023 9:20:00 AM	S2AVE
AFRAME-C8W-MED-L1-DN-C8.7-DG-230911-P-SS	492114-065	WIPE	N	3546	9/11/2023 1:35:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8082						
AFRAME-C8W-MED-L1-EXT-1 TO 2-230911-P-WF	492114-055	WIPE	N	3546	9/11/2023 10:55:00 AM	S2AVE
AFRAME-C8W-MED-L1-UP- C8.1-DG-230911-P-SS	492114-039	WIPE	N	3546	9/11/2023 1:25:00 PM	S2AVE
AFRAME-C8W-MED-L1-UP- C8.6-DG-230911-P-SS	492114-041	WIPE	N	3546	9/11/2023 1:35:00 PM	S2AVE
AFRAME-C8W-MED-L2-DN- C8.2-DG-230911-P-DUP-LA	492114-022	WIPE	FD	3546	9/11/2023 10:30:00 AM	S2AVE
AFRAME-C8W-MED-L2-DN- C8.2-DG-230911-P-LA	492114-021	WIPE	N	3546	9/11/2023 10:30:00 AM	S2AVE
AFRAME-C8W-MED-L2- HS-1-230911-P-DUP-G	492114-002	WIPE	FD	3546	9/11/2023 1:05:00 PM	S2AVE
AFRAME-C8W-MED-L2- HS-1-230911-P-G	492114-001	WIPE	N	3546	9/11/2023 1:05:00 PM	S2AVE
AFRAME-C9W-LAT-L1- HS-3-230911-P-G	492114-044	WIPE	N	3546	9/11/2023 9:30:00 AM	S2AVE
AFRAME-C9W-LAT-L1-INT-1 TO 2-230911-P-FB	492114-061	WIPE	N	3546	9/11/2023 1:55:00 PM	S2AVE
AFRAME-C9W-LAT-L2-EXT-0 TO 1-230911-P-WF	492114-015	WIPE	N	3546	9/11/2023 9:44:00 AM	S2AVE
AFRAME-C9W-LAT-L2- INT-0.5 TO 1-230911-P-FB	492114-012	WIPE	N	3546	9/11/2023 9:30:00 AM	S2AVE
AFRAME-C9W-LAT-L2-UP- C9.7-VS-230911-P-I	492114-017	WIPE	N	3546	9/11/2023 10:00:00 AM	S2AVE
AFRAME-C9W-LAT-L3-DN- C9.5-DG-230911-P-LA	492114-004	WIPE	N	3546	9/11/2023 1:50:00 PM	S2AVE
AFRAME-C9W-MED-L1-DN- C9.7-DG-230911-P-SS	492114-071	WIPE	N	3546	9/11/2023 2:05:00 PM	S2AVE
AFRAME-C9W-MED-L1-DN- C9W-DG-230911-P-SS	492114-069	WIPE	N	3546	9/11/2023 1:45:00 PM	S2AVE
AFRAME-C9W-MED-L1-EXT-0 TO 1-230911-P-WF	492114-067	WIPE	N	3546	9/11/2023 1:40:00 PM	S2AVE
AFRAME-C9W-MED-L1- HS-3-230911-P-LA	492114-046	WIPE	N	3546	9/11/2023 9:35:00 AM	S2AVE
AFRAME-C9W-MED-L1-UP- C9.6-DG-230911-P-SS	492114-048	WIPE	N	3546	9/11/2023 10:45:00 AM	S2AVE
AFRAME-C9W-MED-L2-DN- C9.5-DG-230911-P-LA	492114-026	WIPE	N	3546	9/11/2023 11:10:00 AM	S2AVE
AFRAME-C9W-MED-L2-INT-0 TO 0.5-230911-P-FB	492114-024	WIPE	N	3546	9/11/2023 10:45:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 8082						
AFRAME-C8W-MED-L1-EXT-1 TO 2-230911-P-WF	492114-055	WIPE	N	3546	9/11/2023 10:55:00 AM	S2AVE
AFRAME-C8W-MED-L1-UP- C8.1-DG-230911-P-SS	492114-039	WIPE	N	3546	9/11/2023 1:25:00 PM	S2AVE
AFRAME-C8W-MED-L1-UP- C8.6-DG-230911-P-SS	492114-041	WIPE	N	3546	9/11/2023 1:35:00 PM	S2AVE
AFRAME-C8W-MED-L2-DN- C8.2-DG-230911-P-DUP-LA	492114-022	WIPE	FD	3546	9/11/2023 10:30:00 AM	S2AVE
AFRAME-C8W-MED-L2-DN- C8.2-DG-230911-P-LA	492114-021	WIPE	N	3546	9/11/2023 10:30:00 AM	S2AVE
AFRAME-C8W-MED-L2- HS-1-230911-P-DUP-G	492114-002	WIPE	FD	3546	9/11/2023 1:05:00 PM	S2AVE
AFRAME-C8W-MED-L2- HS-1-230911-P-G	492114-001	WIPE	N	3546	9/11/2023 1:05:00 PM	S2AVE
AFRAME-C9W-LAT-L1- HS-3-230911-P-G	492114-044	WIPE	N	3546	9/11/2023 9:30:00 AM	S2AVE
AFRAME-C9W-LAT-L1-INT-1 TO 2-230911-P-FB	492114-061	WIPE	N	3546	9/11/2023 1:55:00 PM	S2AVE
AFRAME-C9W-LAT-L2-EXT-0 TO 1-230911-P-WF	492114-015	WIPE	N	3546	9/11/2023 9:44:00 AM	S2AVE
AFRAME-C9W-LAT-L2- INT-0.5 TO 1-230911-P-FB	492114-012	WIPE	N	3546	9/11/2023 9:30:00 AM	S2AVE
AFRAME-C9W-LAT-L2-UP- C9.7-VS-230911-P-I	492114-017	WIPE	N	3546	9/11/2023 10:00:00 AM	S2AVE
AFRAME-C9W-LAT-L3-DN- C9.5-DG-230911-P-LA	492114-004	WIPE	N	3546	9/11/2023 1:50:00 PM	S2AVE
AFRAME-C9W-MED-L1-DN- C9.7-DG-230911-P-SS	492114-071	WIPE	N	3546	9/11/2023 2:05:00 PM	S2AVE
AFRAME-C9W-MED-L1-DN- C9W-DG-230911-P-SS	492114-069	WIPE	N	3546	9/11/2023 1:45:00 PM	S2AVE
AFRAME-C9W-MED-L1-EXT-0 TO 1-230911-P-WF	492114-067	WIPE	N	3546	9/11/2023 1:40:00 PM	S2AVE
AFRAME-C9W-MED-L1- HS-3-230911-P-LA	492114-046	WIPE	N	3546	9/11/2023 9:35:00 AM	S2AVE
AFRAME-C9W-MED-L1-UP- C9.6-DG-230911-P-SS	492114-048	WIPE	N	3546	9/11/2023 10:45:00 AM	S2AVE
AFRAME-C9W-MED-L2-DN- C9.5-DG-230911-P-LA	492114-026	WIPE	N	3546	9/11/2023 11:10:00 AM	S2AVE
AFRAME-C9W-MED-L2-INT-0 TO 0.5-230911-P-FB	492114-024	WIPE	N	3546	9/11/2023 10:45:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 8082						
AFRAME-C9W-MED-L2-UP- C9.1-VS-230911-P-LA	492114-028	WIPE	N	3546	9/11/2023 10:55:00 AM	S2AVE
AFRAME-C9W-MED-L3-DN- C9.2-DG-230911-P-LA	492114-006	WIPE	N	3546	9/11/2023 1:30:00 PM	S2AVE

Crossed out Sample IDs not collected within the Low Occupancy Area of Zone 5.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (10/17/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
--------------------------------	-----------------------------	----------------------	---------------------------	--------------------------------------	-------------------------------	-------------------------------

Validation Label Legend

<i>Label Code</i>	<i>Label Description</i>	<i>EPA Level</i>
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with calibration
S2BVM	Stage_2B_Validation_Manual	Level 3 with calibration
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with calibration
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: 491224

EDD Filename: Prep491224

Laboratory: Enthalpy Orange

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 491258

EDD Filename: Prep491258

Laboratory: Enthalpy Orange

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 492059

EDD Filename: Prep492059

Laboratory: Enthalpy Orange

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 492110

EDD Filename: Prep492110

Laboratory: Enthalpy Orange

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 492114

EDD Filename: Prep492114

Laboratory: Enthalpy Orange

eQAPP Name:

No Data Review Qualifiers Applied.

Enclosure I

Validation Outlier Reports

Quality Control Outlier Reports

491224

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638A3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 491224

Stage 3

Laboratory: Enthalpy Analytical, Orange, CA

Date: 10/16/23

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ / Δ	
II.	Initial calibration/ICV	Δ / Δ	% RSD ≤ 20 ICV ≤ 15
III.	Continuing calibration	Δ	CCV ≤ 15
IV.	Laboratory Blanks	Δ	
V.	Field blanks	ND	FB = 4.5 Bn 10/12/2023
VI.	Surrogate spikes	Δ	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	Δ	LCs WP
IX.	Field duplicates	ND	D = 6, 7 10, 11
X.	Target analyte quantitation	Δ	
XI.	Target analyte identification	Δ	
XII.	Overall assessment of data	Δ	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C8W-EXT-1 TO 2-230828-P-WF	491224-001	Wipe	08/28/23
2	ARCH-C9W-EXT-1 TO 2-230828-P-WF	491224-003	Wipe	08/28/23
3	ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-P-LA	491224-006	Wipe	08/28/23
4	ARCH-C10W-DG-1.5 TO 2-230828-P-FB	491224-008	Wipe	08/28/23
5	ARCH-C9W-DG-2 TO 2.5-230828-P-FB	491224-011	Wipe	08/28/23
6	ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-P-LA	491224-013	Wipe	08/28/23
7	ARCH-C9W-DG2 TO 2.5-UP-C9.1-HS-230828-P-DUP-LA	491224-014	Wipe	08/28/23
8	ARCH-C11W-INT-1.5 TO 2.5-230828-P-WF	491224-016	Wipe	08/28/23
9	ARCH-C8W-PS-2.5-230828-P-G	491224-018	Wipe	08/28/23
10	ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-LA	491224-020	Wipe	08/28/23
11	ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-P-DUP-LA	491224-021	Wipe	08/28/23
12	ARCH-C10W-PS-2.5-230828-P-G	491224-023	Wipe	08/28/23
13				

Notes:

321684-MB				

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638A3b

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT

Method: ☒ GC ☐ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	☒	☐	☐	
Was cooler temperature criteria met?	☒	☐	☐	
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) $\leq$ 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	☒	☐	☐	
Were all percent differences (%D) $\leq$ 20%?	☒	☐	☐	15%
III. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) $\leq$ 20%?	☒	☐	☐	15%
Were all the retention times within the acceptance windows?	☒	☐	☐	
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	☒	☐	☐	
Was a laboratory blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the laboratory blanks?	☐	☒	☐	
V. Field Blanks				
Were field blanks identified in this SDG?	☒	☒	☐	F7
Were target compounds detected in the field blanks?	☐	☒	☒	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	☒	☐	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☐	☐	☒	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Field duplicates				

LDC #: 57638A3b

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: FT

Were field duplicate pairs identified in this SDG?	✓	✓		
Were target compounds detected in the field duplicates?		✓	✓	✓
X. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes: _____

LDC #: 51638A3b**VALIDATION FINDINGS WORKSHEET**
Initial Calibration Calculation VerificationPage: 1 of 1Reviewer: FT

METHOD:PCB 8082

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

$$CF = A/C$$

$$\text{average CF} = \text{sum of the CF/number of standards}$$

$$\%RSD = 100 * (S/X)$$

Where:

A = Area of compound

C = Concentration of compound

S = Standard deviation of calibration factors

X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported 250ug/L	Recalculated 250ug/L	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	5/22/2023	Aroclor 1016-1 ChA	0.0239	0.0239	0.0223	0.02230	13	13
	GC06		Aroclor 1016-1 ChB	0.0214	0.0214	0.0208	0.02082	16	16

LDC #: 57638A3b
1**VALIDATION FINDINGS WORKSHEET**
Continuing Calibration Results VerificationPage: 1 of 1
Reviewer: FTMETHOD: GC / HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$

Where: ave. CF = initial calibration average CF

CF = continuing calibration CF

A = Area of compound

C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/ Conc. CCV	CF/ Conc. CCV	%D	%D
1	cel	09/05/23 0934	Arroclor 1016 chA	500.6	502.9	502.9	1	1
			↓ chB	500.0	472.5	472.5	6	6
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57638A3b

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

 Page: 1 of 1
 Reviewer: FT
METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

 Where: SF = Surrogate Found
 SS = Surrogate Spiked
Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	ch B	50.0	41.6261	83	83	0
DCB	↓	↓	53.3810	107	107	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Triphenyltin	AA	Chloro-octadecane
D	Bromochlorobenzene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 57638A3b

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC}/\text{SA})$$
$$RPD = ((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD) * 100$$

Where SSC = Spiked sample concentration

LCS = Laboratory Control Sample

SA = Spike added

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 321684 LCS 1D

[illegible]

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57638A3b

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC/HPLC/GCMS

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_v)(I_s)(V_i)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_i = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 321684 LC Arador 1016

Conc. = $\frac{457.731 (10)}{(1)(1000)}$

14

$$= 4.573 \text{ ng} / 100 \text{ cm}^2$$

[illegible]

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638A4b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 491224

Stage 3

Laboratory: Enthalpy Analytical, Orange, CA

Date: 10/17/2023

Page: 1 of 1

Reviewer: JL

2nd Reviewer: gn

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LC6/LC6D
X.	Field Duplicates	SW	(2,3), (5,6)
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C8W-EXT-1 TO 2-230828-L-WF	491224-002	Wipe	08/28/23
2	ARCH-C9W-EXT-1 TO 2-230828-L-WF	491224-004	Wipe	08/28/23
3	ARCH-C9W-EXT-1 TO 2-230828-L-DUP-WF	491224-005	Wipe	08/28/23
4	ARCH-C8W-DG-1.5 TO 2-DN-C8.7-VS-230828-L-LA	491224-007	Wipe	08/28/23
5	ARCH-C10W-DG-1.5 TO 2-230828-L-FB	491224-009	Wipe	08/28/23
6	ARCH-C10W-DG-1.5-TO 2-230828-L-DUP-FB	491224-010	Wipe	08/28/23
7	ARCH-C9W-DG-2 TO 2.5-230828-L-FB	491224-012	Wipe	08/28/23
8	ARCH-C9W-DG-2 TO 2.5-UP-C9.1-HS-230828-L-LA	491224-015	Wipe	08/28/23
9	ARCH-C11W-INT-1.5 TO 2.5-230828-L-WF	491224-017	Wipe	08/28/23
10	ARCH-C8W-PS-2.5-230828-L-G	491224-019	Wipe	08/28/23
11	ARCH-C8W-DG-2.5 TO 3-UP-C8.6-HS-230828-L-LA	491224-022	Wipe	08/28/23
12	ARCH-C10W-PS-2.5-230828-L-G	491224-024	Wipe	08/28/23
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
I. Technical holding times				
Were all technical holding times met?	Yes			
Were all water samples preserved to a pH of <2.	Yes			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			NA	
Were %RSDs of isotopes in the tuning solution ≤5%?			NA	
III. Calibration				
Were all instruments calibrated daily?	Yes			
Were the proper standards used?	Yes			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	Yes			
Were the low level standard checks within 70-130%?			NA	was performed but now raw data was provide: <i>12/14/2023</i>
Were all initial calibration correlation coefficients within limits as specified by the method?	Yes			
IV. Interference Check Sample				
Were the interference check samples performed daily?	Yes			
Were the AB solution recoveries within 80-120%?	Yes			
V. Blanks				
Was a method blank associated with every sample in this SDG?	Yes			
Was there contamination in the method blanks?		No		
Was there contamination in the initial and continuing calibration blanks?		No		
VI. Field Blanks				
Were field blanks identified in this SDG?			NA	
Were target analytes detected in the field blanks?			NA	

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
VII. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			NA	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			NA	
IX. Serial Dilution				
Were all percent differences <10%?			NA	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			NA	
X. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	Yes			
Were the LCS recoveries and RPDs (if applicable)	Yes			
XI. Field Duplicates				
Were field duplicates identified in this SDG?	Yes			
Were target analytes detected in the field duplicates?	Yes			
VII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			NA	
If the recoveries were outside the limits, was a reanalysis performed?			NA	
XIII. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample	Yes			
Were all soil samples dry weight corrected?			NA	
XIV. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	Yes			

Field Duplicate RPD Report

Lab Reporting Batch ID: 491224

Laboratory: Enthalpy Orange

EDD Filename: Prep491224

eQAPP Name:

Method: 6010B

Matrix: WIPE

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	ARCH-C10W-DG-1.5 TO 2-230828-L-FB	ARCH-C10W-DG-1.5 TO 2-230828-L-DUP-FB			
LEAD	27	15	57	100.00	No Qualifiers Applied

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	ARCH-C9W-EXT-1 TO 2-230828-L-WF (TOT)	ARCH-C9W-EXT-1 TO 2-230828-L-DUP-WF			
LEAD	49	61	22	100.00	No Qualifiers Applied

Field Duplicates

Reviewer: JC

Method: Metals

Analyte	Concentration (ug/ft2)		RPD (≤ 100)	Qualifiers (Parents Only)
	2	3		
Lead	49	61	22	

Analyte	Concentration (ug/ft2)		RPD (≤ 100)	Qualifiers (Parents Only)
	5	6		
Lead	27	15	57	

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP	Pb	1.02	1	102	102	Y
CCV	ICP	↓	1.021	1	102	102	Y
LLCC	ICP						
ICSAB	ICP	↓	0.988	1	99	99	Y
ICV	ICP-MS						
CCV	ICP-MS						
LLCC	ICP-MS						
ICSAB	ICP-MS						
ICV	CVAA						
CCV	CVAA						

ICP-MS Tune	QC Parameter	Mass	Actual	Required
	Mass Axis			± 0.1 amu
	%RSD			≤ 5%

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value}(I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
QC1090213	LCS	Pb	48.28	50	97	97	Y
	MS						
QC1090213/4	Duplicate	Pb	48.28	49.14	2	2	Y
	PDS						
	Serial dilution						

Sample Calculation Verification

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Analytes were recalculated and verified using the following equation:

$$\text{Concentration} = (\text{Result from raw data} \times \text{Final volume} \times \text{Dilution factor}) / (\text{Percent solids} \times \text{Initial weight})$$

Sample ID	Analyte	Raw Data (mg/L)	Dilution	Initial Weight/ Volume (ft2)	Final Volume (mL)	Percent solids (%)	Reported Result (ug/ft2)	Recalculated Result (ug/ft2)	Acceptable (Y/N)
1	Pb	1.417	1	1	50	100	71	71	Y
2	↓	0.9766	1	1	50	100	49	49	Y
3	↓	1.23	1	1	50	100	61	61.5	Y
4	↓	1.313	1	1.02	50	100	64	64	Y
5	↓	0.5318	1	1	50	100	27	27	Y
6	↓	0.3092	1	1	50	100	15	15	Y
7	↓	0.509	1	1	50	100	25	25	Y
8	↓	0.6337	1	1	50	100	32	32	Y
9	↓	1.991	1	1	50	100	100	100	Y
10	↓	0.8187	1	1.1104	50	100	37	37	Y
11	↓	0.7561	1	1.01	50	100	37	37	Y
12	↓	0.9078	1	1.1104	50	100	41	41	Y

Quality Control Outlier Reports

491258

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638B3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 491258

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 10/19/2023

Page: 1 of 2

Reviewer: SM

2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	ND	FB = 19, 20
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	ND	FD = 8/7, 18/17, 1/2
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C8W-DG-3 TO 3.5-230828-P-FB	491258-001	Wipe	08/28/23
2	ARCH-C8W-DG-3 TO 3.5-230828-P-DUP-FB	491258-002	Wipe	08/28/23
3	ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-P-LA	491258-004	Wipe	08/28/23
4	ARCH-C9W-PS-3.5-230828-P-G	491258-006	Wipe	08/28/23
5	ARCH-C10W-INT-2.5 TO 3.5-230828-P-WF	491258-008	Wipe	08/28/23
6	ARCH-C9W-DG-4 TO 4.5-UP-C9.3-DG-230828-P-LA	491258-011	Wipe	08/28/23
7	ARCH-C8W-DG-4 TO C4.5-UP-C8.5-DG-230828-P-LA	491258-013	Wipe	08/28/23
8	ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-P-DUP-LA	491258-014	Wipe	08/28/23
9	ARCH-C9W-DG-4 TO 4.5-230828-P-FB	491258-016	Wipe	08/28/23
10	ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-P-LA	491258-019	Wipe	08/28/23
11	ARCH-C8W-DG-4.5 TO 5-230828-P-FB	491258-021	Wipe	08/28/23
12	ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-P-LA	491258-023	Wipe	08/28/23
13	ARCH-C11W-PS-4.5-230828-P-G	491258-026	Wipe	08/28/23
14	ARCH-C9W-INT-4.5 TO 5.5-230828-P-WF	491258-028	Wipe	08/28/23
15	ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-P-LA	491258-030	Wipe	08/28/23
16	ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-P-LA	491258-032	Wipe	08/28/23
17	ARCH-C10W-DG-5 TO 5.5-230828-P-FB	491258-034	Wipe	08/28/23

LDC #: 57638B3b

VALIDATION COMPLETENESS WORKSHEET

Date: 9/18/2023

SDG #: 491258

Stage 2A

Page: 2 of 2

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer: BN

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

	Client ID	Lab ID	Matrix	Date
18	ARCH-C10W-DG-5 TO 5.5-230828-P-DUP-FB	491258-035	Wipe	08/28/23
19	230828-P-FIELDBLANK1-LO	491258-037	Wipe	08/28/23
20	230828-P-FIELDBLANK2-LO	491258-040	Wipe	08/28/23
21				
22				
23				

Notes:

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638B4b **VALIDATION COMPLETENESS WORKSHEET**
SDG #: 491258 Stage 2A
Laboratory: Enthalpy Analytical, Orange, CA

Date: 10/18/2023
Page: 1 of 2
Reviewer:
2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	SW	FB = 19, 20, 21, 22
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	SW	FD = 5/4, 13/12, 8/9
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

	Client ID	Lab ID	Matrix	Date
1	ARCH-C8W-DG-3 TO 3.5-230828-L-FB	491258-003	Wipe	08/28/23
2	ARCH-C9W-DG-3 TO 3.5-UP-C9.2-DG-230828-L-LA	491258-005	Wipe	08/28/23
3	ARCH-C9W-PS-3.5-230828-L-G	491258-007	Wipe	08/28/23
4	ARCH-C10W-INT-2.5 TO 3.5-230828-L-WF	491258-009	Wipe	08/28/23
5	ARCH-C10W-INT-2.5 TO 3.5-230828-L-DUP-WF	491258-010	Wipe	08/28/23
6	ARCH-C9W-DG-4 TO 4.5-UP-C93-DG-230828-L-LA	491258-012	Wipe	08/28/23
7	ARCH-C8W-DG-4 TO 4.5-UP-C8.5-DG-230828-L-LA	491258-015	Wipe	08/28/23
8	ARCH-C9W-DG-4 TO 4.5-230828-L-FB	491258-017	Wipe	08/28/23
9	ARCH-C9W-DG-4 TO 4.5-230828-L-DUP-FB	491258-018	Wipe	08/28/23
10	ARCH-C9W-DG-4 TO 4.5-DN-C9.4-VS-230828-L-LA	491258-020	Wipe	08/28/23
11	ARCH-C8W-DG-4.5 TO 5-230828-L-FB	491258-022	Wipe	08/28/23
12	ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-L-LA	491258-024	Wipe	08/28/23
13	ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-L-DUP-LA	491258-025	Wipe	08/28/23
14	ARCH-C11W-PS-4.5-230828-L-G	491258-027	Wipe	08/28/23
15	ARCH-C9W-INT-4.5 TO 5.5-230828-L-WF	491258-029	Wipe	08/28/23
16	ARCH-C9W-DG-5 TO 5.5-UP-C9.5-DG-230828-L-LA	491258-031	Wipe	08/28/23
17	ARCH-C8W-DG-5 TO 5.5-UP-C8.3-DG-230828-L-LA	491258-033	Wipe	08/28/23

LDC #: 57638B4b

VALIDATION COMPLETENESS WORKSHEET

Date: 09/18/2023

SDG #: 491258

Stage 2A

Page: 2 of 2

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer: BN

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

	Client ID	Lab ID	Matrix	Date
18	ARCH-C10W-DG-5 TO 5.5-230828-L-FB	491258-036	Wipe	08/28/23
19	230828-L-FIELDBLANK1-LO	491258-038	Wipe	08/28/23
20	230828-L-MEDBLANK1	491258-039	Wipe	08/28/23
21	230828-L-FIELDBLANK2-LO	491258-041	Wipe	08/28/23
22	230828-L-MEDLBANK2	491258-042	Wipe	08/28/23
23				
24				
25				

Notes:

Field Blank Contamination Report

Lab Reporting Batch ID: 491258

Laboratory: Enthalpy Orange

EDD Filename: Prep491258

Moffett_Hangar_1_NTCRA_Enthalpy_230919

Method: 6010B

Matrix: WIPE

Analyte	Sample	Concentration (ug/ft2)	Flag
LEAD	230828-L-FIELDBLANK1-LO	0.65	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: 491258

Laboratory: Enthalpy Orange

EDD Filename: Prep491258

eQAPP Name:

Method: 6010B

Matrix: WIPE

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-	ARCH-C8W-DG-4.5 TO 5-UP-C8.4-DG-230828-			
LEAD	53	43	21	100.00	No Qualifiers Applied

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	ARCH-C9W-DG-4 TO 4.5-230828-L-FB (TOT)	ARCH-C9W-DG-4 TO 4.5-230828-L-DUP-FB			
LEAD	13	19	38	100.00	No Qualifiers Applied

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	ARCH-C10W-INT-2.5 TO 3.5-230828-L-WF	ARCH-C10W-INT-2.5 TO 3.5-230828-L-DUP-			
LEAD	130	130	0	100.00	No Qualifiers Applied

Quality Control Outlier Reports

~~492059~~

SDG# 492059 does not contain samples
collected in the Low Occupancy Area of Zone
5.

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638C3b

SDG #: 492059

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 3

Date: 10/16/23

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Initial calibration/ICV	A/A	% RSD ≤ 20 ICV ≤ 15
III.	Continuing calibration	A	CV ≤ 15
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	100% IP
IX.	Field duplicates	ND	D = 5, 6 8, 9
X.	Target analyte quantitation	A	
XI.	Target analyte identification	A	
XII.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME- Bn 11/22/2023 ARCH-C8W-LAT-L3-EXT-1 TO 2-230911-P-WF	492059-001	Wipe	09/11/23
2	AFRAME- Bn 11/22/2023 ARCH-C8W-LAT-L3-UP-C8.1-DG-230911-P-LA	492059-003	Wipe	09/11/23
3	AFRAME- Bn 11/22/2023 ARCH-C9W-LAT-L3-EXT-1 TO 2-230911-P-WF	492059-005	Wipe	09/11/23
4	AFRAME- Bn 11/22/2023 ARCH-C9W-LAT-L3-UP-C9.4-VS-230911-P-LA	492059-008	Wipe	09/11/23
5	AFRAME- Bn 11/22/2023 ARCH-C9W-MED-L3-UP-C9.7-DG-230911-P-LA	492059-010	Wipe	09/11/23
6	AFRAME- Bn 11/22/2023 ARCH-C9W-MED-L3-UP-C9.7-DG-230911-P-DUP-LA	492059-011	Wipe	09/11/23
7	AFRAME- Bn 11/22/2023 ARCH-C8W-LAT-L3-UP-C8.6-HS-230911-P-LA	492059-013	Wipe	09/11/23
8	AFRAME- Bn 11/22/2023 ARCH-C8W-MED-L3-UP-C8.4-DG-230911-P-LA	492059-015	Wipe	09/11/23
9	AFRAME- Bn 11/22/2023 ARCH-C8W-MED-L3-UP-C8.4-DG-230911-P-DUP-LA	492059-016	Wipe	09/11/23
10	AFRAME- Bn 11/22/2023 ARCH-C9W-LAT-L3-UP-C9.1-GS-230911-P-LA	492059-018	Wipe	09/11/23
11	AFRAME- Bn 11/22/2023 ARCH-C11W-LAT-L3-EXT-0 TO 1-230911-P-WF	492059-020	Wipe	09/11/23
12	AFRAME- Bn 11/22/2023 ARCH-C8W-MED-L3-DN-C8.7-DG-230911-P-LA	492059-023	Wipe	09/11/23
13				

Notes:

322492-MB					

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638C3b

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT

Method: ✓ GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%? <u>15% / 0</u>	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%? <u>15% / 0</u>	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				

LDC #: 57638C3b

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: FT

Were field duplicate pairs identified in this SDG?	✓	✓	✓	✓
Were target compounds detected in the field duplicates?		✓	✓	
X. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes: _____

LDC #: 57638C3b**VALIDATION FINDINGS WORKSHEET**
Initial Calibration Calculation VerificationPage: 1 of 1Reviewer: FT

METHOD: PCB 8082

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

CF = A/C

average CF = sum of the CF/number of standards

%RSD = $100 * (S/X)$

Where:

A = Area of compound

C = Concentration of compound

S = Standard deviation of calibration factors

X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported 250ug/L	Recalculated 250ug/L	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	5/22/2023	Aroclor 1260-1 ChA	0.0709	0.0709	0.0661	0.0661	14	14
	GC06		Aroclor 1260-1 ChB	0.0579	0.0579	0.0564	0.0564	17	17

LDC #: 57638 C3b

VALIDATION FINDINGS WORKSHEET **Continuing Calibration Results Verification**

 Page: 1 of 1
 Reviewer: FT
METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$$

Where: ave. CF = initial calibration average CF

CF = continuing calibration CF

A = Area of compound

C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/ Conc. CCV	CF/ Conc. CCV	%D	%D
1	ccv	9/15/23 1105	Aroclor 1260 (ChA)	500.0	506.2	506.2	1	1
			↓ (ChB)	500.0	472.0	472.0	6	6
2	ccv	9/15/23 2319	↓	500.0	485.1	485.1	3	3
			↓	↓	489.3	489.3	2	2
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57638 C3b

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

Page: 1 of 1
Reviewer: FT
METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	Ch B	50	29.8543	60	60	0
DCB	↓	↓	28.4590	57	57	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Triphenyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 57638C3b

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1Laboratory Control Sample/Laboratory Control Sample Duplicates Results VerificationReviewer: FTMETHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} / \text{SA})$$

$$\text{RPD} = ((\text{SSCLCS} - \text{SSCLCSD}) * 2) / (\text{SSCLCS} + \text{SSCLCSD}) * 100$$

Where SSC = Spiked sample concentration

LCS = Laboratory Control Sample

SA = Spike added

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 322492 - LCS 1P

Compound	Spike Added <u>(ug/100 cm²)</u>		Spike Sample Concentration <u>(ug/100 cm²)</u>		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
<u>Aroclor 1260</u>	<u>5.0</u>	<u>5.0</u>	<u>3.575</u>	<u>3.316</u>	<u>72</u>	<u>72</u>	<u>66</u>	<u>66</u>	<u>8</u>	<u>8</u>

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57638C3b

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC HPLC

Y N N/A
Y N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$

Example:

Sample ID: 322492-105 Compound Name Aroclor 1260

A= Area or height of the compound to be measured

Fv= Final Volume of extract

Df= Dilution Factor

RF= Average response factor of the compound
In the initial calibration

Vs= Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

Concentration = $\frac{357.53 (10)}{(1)(1000)}$ =

= 357.53 $\mu\text{g}/100 \text{ cm}^2$

#	Sample ID	Compound	Reported Concentrations $(\mu\text{g}/100 \text{ cm}^2)$	Recalculated Results Concentrations $(\mu\text{g}/100 \text{ cm}^2)$	Qualifications
	<u>105</u>	<u>Aroclor 1260</u>	<u>3.575</u>	<u>3.5753</u>	
	<u>Aroclor 1260-1</u>	<u>12321158.3 (20)</u>	<u>1260-1</u>	<u>= 367.45</u>	
		<u>11890545.2 (0.0564)</u>	<u>2</u>	<u>= 380.4</u>	
			<u>3</u>	<u>= 396.6</u>	
		<u>= 367.45</u>	<u>4</u>	<u>= 300.0</u>	
			<u>5</u>	<u>= 343.2</u>	
				<u>357.53</u>	

Comments: _____

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638C4b

VALIDATION COMPLETENESS WORKSHEET

Date: 10/17/2023

SDG #: 492059

Stage 3

Page: 1 of 1

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer: JC

2nd Reviewer: BN

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	SW	(3,4), (10,11)
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME- BN 11/22/2023 ARCH C8W-LAT-L3-EXT-1 TO 2-230911-L-WF	492059-002	Wipe	09/11/23
2	AFRAME- BN 11/22/2023 ARCH C8W-LAT-L3-UP-C8.1-DG-230911-L-LA	492059-004	Wipe	09/11/23
3	AFRAME- BN 11/22/2023 ARCH C9W-LAT-L3-EXT-1 TO 2-230911-L-WF	492059-006	Wipe	09/11/23
4	AFRAME- BN 11/22/2023 ARCH C9W-LAT-L3-EXT-1 TO 2-230911-L-DUP-WF	492059-007	Wipe	09/11/23
5	AFRAME- BN 11/22/2023 ARCH C9W-LAT-L3-UP-C9.4-VS-230911-L-LA	492059-009	Wipe	09/11/23
6	AFRAME- BN 11/22/2023 ARCH C9W-MED-L3-UP-C9.7-DG-230911-L-LA	492059-012	Wipe	09/11/23
7	AFRAME- BN 11/22/2023 ARCH C8W-LAT-L3-UP-C8.6-HS-230911-L-LA	492059-014	Wipe	09/11/23
8	AFRAME- BN 11/22/2023 ARCH C8W-MED-L3-UP-C8.4-DG-230911-L-LA	492059-017	Wipe	09/11/23
9	AFRAME- BN 11/22/2023 ARCH C9W-LAT-L3-UP-C9.1-HS-230911-L-LA	492059-019	Wipe	09/11/23
10	AFRAME- BN 11/22/2023 ARCH C11W-LAT-L3-EXT-0 TO 1-230911-L-WF	492059-021	Wipe	09/11/23
11	AFRAME- BN 11/22/2023 ARCH C11W-LAT-L3-EXT-0 TO 1-230911-L-DUP-WF	492059-022	Wipe	09/11/23
12	AFRAME- BN 11/22/2023 ARCH C8W-MED-L3-DN-C8.7-DG-230911-L-LA	492059-024	Wipe	09/11/23
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
I. Technical holding times				
Were all technical holding times met?	Yes			
Were all water samples preserved to a pH of <2.	Yes			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			NA	
Were %RSDs of isotopes in the tuning solution ≤5%?			NA	
III. Calibration				
Were all instruments calibrated daily?	Yes			
Were the proper standards used?	Yes			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	Yes			
Were the low level standard checks within 70-130%?			NA	was ran but raw data was not provided - 2/16/18/2023
Were all initial calibration correlation coefficients within limits as specified by the method?	Yes			
IV. Interference Check Sample				
Were the interference check samples performed daily?	Yes			
Were the AB solution recoveries within 80-120%?	Yes			
V. Blanks				
Was a method blank associated with every sample in this SDG?	Yes			
Was there contamination in the method blanks?		No		
Was there contamination in the initial and continuing calibration blanks?		No		
VI. Field Blanks				
Were field blanks identified in this SDG?			NA	
Were target analytes detected in the field blanks?			NA	

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
VII. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			NA	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			NA	
IX. Serial Dilution				
Were all percent differences <10%?			NA	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			NA	
X. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	Yes			
Were the LCS recoveries and RPDs (if applicable)	Yes			
XI. Field Duplicates				
Were field duplicates identified in this SDG?	Yes			
Were target analytes detected in the field duplicates?	Yes			
VII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			NA	
If the recoveries were outside the limits, was a reanalysis performed?			NA	
XIII. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample	Yes			
Were all soil samples dry weight corrected?			NA	
XIV. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	Yes			

Interference Check Sample A

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020)

All interference check sample A standards were performed at the required frequency with no contamination present with the following exceptions:

Date	Time	Calibration ID	Analyte	Concentration (mg/L)	Limit	Associated Samples	Qualification*	Det/ND
9/13/2023	8:59	ISCA	Pb	0.004082	0.003334	All	no qual (sample interferents<ICSA)	Det

Comments: *For 6010, qualification is only necessary when the interfering elements (Al, Ca, Fe, Mg) are >90% the level in the ICSA. The ICSA action level is established at 10x the absolute value of the contamination.

Field Duplicate RPD Report

Lab Reporting Batch ID: 492059

Laboratory: Enthalpy Orange

EDD Filename: 492059

eQAPP Name:

Method: 6010B

Matrix: WIPE

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C11W-LAT-L3-EXT-0 TO 1-230911-	AFRAME-C11W-LAT-L3-EXT-0 TO 1-230911-			
LEAD	230	290	23	100.00	No Qualifiers Applied

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C9W-LAT-L3-EXT-1 TO 2-230911-	AFRAME-C9W-LAT-L3-EXT-1 TO 2-230911-L-			
LEAD	180	310	53	100.00	No Qualifiers Applied

Project Name and Number: 20-10491 - Hangar 1 NTCRA

11/22/2023 10:00:02 AM

ADR version 1.9.0.325

Page 1 of 1

Field Duplicates

Reviewer: JC

Method: Metals

Analyte	Concentration (ug/ft2)		RPD (≤ 100)	Qualifiers (Parents Only)
	3	4		
Lead	180	310	53	

Analyte	Concentration (ug/ft2)		RPD (≤ 100)	Qualifiers (Parents Only)
	10	11		
Lead	230	290	23	

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP	Pb	1.002	1	100	100	Y
CCV	ICP	↓	1.036	1	104	104	Y
LLCC	ICP						
ICSAB	ICP	↓	1.003	1	100.3	100	Y
ICV	ICP-MS						
CCV	ICP-MS						
LLCC	ICP-MS						
ICSAB	ICP-MS						
ICV	CVAA						
CCV	CVAA						

ICP-MS Tune	QC Parameter	Mass	Actual	Required
	Mass Axis			± 0.1 amu
	%RSD			≤ 5%

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value } (I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
QC1093250	LCS	Pb	50.4	50	101	101	Y
	MS						
QC1093250/51	Duplicate	Pb	50.4	48.99	3	3	Y
	PDS						
	Serial dilution						

Sample Calculation Verification

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Analytes were recalculated and verified using the following equation:

$$\text{Concentration} = (\text{Result from raw data} \times \text{Final volume} \times \text{Dilution factor}) / (\text{Percent solids} \times \text{Initial weight})$$

Sample ID	Analyte	Raw Data (mg/L)	Dilution	Initial Weight/ Volume (ft2)	Final Volume (mL)	Percent solids (%)	Reported Result (unit)	Recalculated Result (unit)	Acceptable (Y/N)
1	Pb	2.46873	1	1	50	100	120	123	Y
2	↓	2.62552	1	1	50	100	130	131	Y
3	↓	3.54453	1	1	50	100	180	177	Y
4	↓	6.24339	1	1	50	100	310	312	Y
5	↓	4.14167	1	1	50	100	210	207	Y
6	↓	2.58126	1	1	50	100	130	129	Y
7	↓	1.6144	1	1	50	100	81	81	Y
8	↓	2.0183	1	1	50	100	100	101	Y
9	↓	1.45255	1	1	50	100	73	73	Y
10	↓	4.6431	1	1	50	100	230	232	Y
11	↓	5.78418	1	1	50	100	290	289	Y
12	↓	2.317	1	1	50	100	120	116	Y

Quality Control Outlier Reports

492110

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638D3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 492110

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 10/18/2023

Page: 1 of 2

Reviewer: BN

2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	ND	FB= 22
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	N	
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C8W-PS-5.5-230911-P-G	492110-001	Wipe	09/11/23
2	ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-P-LA	492110-003	Wipe	09/11/23
3	ARCH-C10W-PS-5.5-230911-P-G	492110-005	Wipe	09/11/23
4	ARCH-C9W-DG-5.5 TO 6-230911-P-FB	492110-007	Wipe	09/11/23
5	ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-P-LA	492110-009	Wipe	09/11/23
6	ARCH-C8W-EXT-6 TO 7-230911-P-WF	492110-011	Wipe	09/11/23
7	ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-P-LA	492110-013	Wipe	09/11/23
8	ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-P-LA	492110-015	Wipe	09/11/23
9	ARCH-C11W-DG-6 TO 6.5-230911-P-FB	492110-017	Wipe	09/11/23
10	ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-P-LA	492110-019	Wipe	09/11/23
11	ARCH-C9W-PS-6.5-230911-P-G	492110-021	Wipe	09/11/23
12	ARCH-C11W-PS-6.5-230911-P-G	492110-023	Wipe	09/11/23
13	ARCH-C8W-INT-6.5 TO 7-230911-P-WF	492110-025	Wipe	09/11/23
14	ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-P-LA	492110-027	Wipe	09/11/23
15	ARCH-C8W-DG-7 TO 7.5-2360911-P-FB	492110-029	Wipe	09/11/23
16	ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-P-LA	492110-031	Wipe	09/11/23
17	ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-P-LA	492110-033	Wipe	09/11/23

LDC #: 57638D3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 492110

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 10/18/2023

Page: 2 of 2

Reviewer: *BN*

2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

	Client ID	Lab ID	Matrix	Date
18	ARCH-C9W-INT-7.5 TO 9-230911-P-WF	492110-035	Wipe	09/11/23
19	ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-P-LA	492110-037	Wipe	09/11/23
20	ARCH-C8W-INT-7.5 TO 9-230911-P-WF	492110-039	Wipe	09/11/23
21	ARCH-C11W-EXT-8 TO 9-230911-P-WF	492110-041	Wipe	09/11/23
22	230911-P-FIELDBLANK3-LO	492110-043	Wipe	09/11/23
23				
24				
25				

Notes:

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638D4b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 492110

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 10/18/2023

Page: 1 of 2

Reviewer: MB

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	SW	FB = 22, 23
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C8W-PS-5.5-230911-L-G	492110-002	Wipe	09/11/23
2	ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230911-L-LA	492110-004	Wipe	09/11/23
3	ARCH-C10W-PS-5.5-230911-L-G	492110-006	Wipe	09/11/23
4	ARCH-C9W-DG-5.5 TO 6-230911-L-FB	492110-008	Wipe	09/11/23
5	ARCH-C9W-DG-5.5 TO 6-DN-C9.6-DG-230911-L-LA	492110-010	Wipe	09/11/23
6	ARCH-C8W-EXT-6 TO 7-230911-L-WF	492110-012	Wipe	09/11/23
7	ARCH-C8W-DG-6 TO 6.5-UP-C8.1-HS-230911-L-LA	492110-014	Wipe	09/11/23
8	ARCH-C9W-DG-6 TO 6.5-DN-C9.7-VS-230911-L-LA	492110-016	Wipe	09/11/23
9	ARCH-C11W-DG-6 TO 6.5-230911-L-FB	492110-018	Wipe	09/11/23
10	ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230911-L-LA	492110-020	Wipe	09/11/23
11	ARCH-C9W-PS-6.5-230911-L-G	492110-022	Wipe	09/11/23
12	ARCH-C11W-PS-6.5-230911-L-G	492110-024	Wipe	09/11/23
13	ARCH-C8W-INT-6.5 TO 7-230911-L-WF	492110-026	Wipe	09/11/23
14	ARCH-C8W-DG-7 TO 7.5-UP-C8.7-DG-230911-L-LA	492110-028	Wipe	09/11/23
15	ARCH-C8W-DG-7 TO 7.5-2360911-L-FB	492110-030	Wipe	09/11/23
16	ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230911-L-LA	492110-032	Wipe	09/11/23
17	ARCH-C8W-DG-7.5 TO 8-DN-C8.6-VS-230911-L-LA	492110-034	Wipe	09/11/23

LDC #: 57638D4b**VALIDATION COMPLETENESS WORKSHEET**SDG #: 492110

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CADate: 10/10/2023Page: 2 of 2Reviewer: BN

2nd Reviewer: _____

METHOD: Lead (EPA SW-846 Method 6010B)

	Client ID	Lab ID	Matrix	Date
18	ARCH-C9W-INT-7.5 TO 9-230911-L-WF	492110-036	Wipe	09/11/23
19	ARCH-C9W-DG-7.5 TO 8-DN-C9.3-VS-230911-L-LA	492110-038	Wipe	09/11/23
20	ARCH-C8W-INT-7.5 TO 9-230911-L-WF	492110-040	Wipe	09/11/23
21	ARCH-C11W-EXT-8 TO 9-230911-L-WF	492110-042	Wipe	09/11/23
22	230911-L-FIELDBLANK3-LO	492110-044	Wipe	09/11/23
23	230911-L-MEDBLANK3-LO	492110-045	Wipe	09/11/23
24				
25				
26				

Notes: _____

Field Blank Contamination Report

Lab Reporting Batch ID: 492110

EDD Filename: Prep492110

Laboratory: Enthalpy Orange

Moffett_Hangar_1_NTCRA_Enthalpy_230919

Method: 6010B

Matrix: WIPE

<i>Analyte</i>	<i>Sample</i>	<i>Concentration (ug/ft2)</i>	<i>Flag</i>
LEAD	230911-L-FIELDBLANK3- LO	1.3	No Qualifiers Applied

Quality Control Outlier Reports

~~492114~~

SDG# 492114 does not contain samples
collected in the Low Occupancy Area of Zone 5.

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638E3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 492114

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 10/18/2023

Page: 1 of 2

Reviewer: mn

2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	ND	FB = 37, 38, 39
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	ND	FD = 2/1, 12/11, 17/16
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C8W-MED-L2-HS-1-230911-P-G	492114-001	Wipe	09/11/23
2	AFRAME-C8W-MED-L2-HS-1-230911-P-DUP-G	492114-002	Wipe	09/11/23
3	AFRAME-C9W-LAT-L3-DN-C9.5-DG-230911-P-LA	492114-004	Wipe	09/11/23
4	AFRAME-C9W-MED-L3-DN-C9.2-DG-230911-P-LA	492114-006	Wipe	09/11/23
5	AFRAME-C10W-MED-L2-HS-1-230911-P-G	492114-008	Wipe	09/11/23
6	AFRAME-C8W-LAT-L2-INT-0.5 TO 1-230911-P-FB	492114-010	Wipe	09/11/23
7	AFRAME-C9W-LAT-L2-INT-0.5 TO 1-230911-P-FB	492114-012	Wipe	09/11/23
8	AFRAME-C9W-LAT-L2-EXT-0 TO 1-230911-P-WF	492114-015	Wipe	09/11/23
9	AFRAME-C9W-LAT-L2-UP-C9.7-VS-230911-P-I	492114-017	Wipe	09/11/23
10	AFRAME-C11W-MED-L2-INT-0.5 TO 1-230911-P-FB	492114-019	Wipe	09/11/23
11	AFRAME-C8W-MED-L2-DN-C8.2-DG-230911-P-LA	492114-021	Wipe	09/11/23
12	AFRAME-C8W-MED-L2-DN-C8.2-DG-230911-P-DUP-LA	492114-022	Wipe	09/11/23
13	AFRAME-C9W-MED-L2-INT-0 TO 0.5-230911-P-FB	492114-024	Wipe	09/11/23
14	AFRAME-C9W-MED-L2-DN-C9.5-DG-230911-P-LA	492114-026	Wipe	09/11/23
15	AFRAME-C9W-MED-L2-UP-C9.1-VS-230911-P-LA	492114-028	Wipe	09/11/23
16	AFRAME-C10W-MED-L2-INT-0 TO 0.5-230911-P-FB	492114-030	Wipe	09/11/23
17	AFRAME-C10W-MED-L2-INT-0 TO 0.5-230911-P-DUP-FB	492114-031	Wipe	09/11/23

LDC #: 57638E3b

VALIDATION COMPLETENESS WORKSHEET

Date: 10/18/2023

SDG #: 492114

Stage 2A

Page: 2 of 2

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer: bn

2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

	Client ID	Lab ID	Matrix	Date
18	AFRAME-C11W-MDD-L2-EXT-0 TO 1-230911-P-WF	492114-033	Wipe	09/11/23
19	AFRAME-C8W-LAT-L1-HS-3-230911-P-A	492114-035	Wipe	09/11/23
20	AFRAME-C8W-LAT-L1-UP-C8.7-VS-230911-P-I	492114-037	Wipe	09/11/23
21	AFRAME-C8W-MED-L1-UP-C8.1-DG-230911-P-SS	492114-039	Wipe	09/11/23
22	AFRAME-C8W-MED-L1-C8.6-DG-230911-P-SS	492114-041	Wipe	09/11/23
23	AFRAME-C9W-LAT-L1-HS-3-230911-P-G	492114-044	Wipe	09/11/23
24	AFRAME-C9W-MED-L1-HS-3-230911-P-LA	492114-046	Wipe	09/11/23
25	AFRAME-C9W-MED-L1-UP-C9.6-DG-230911-P-SS	492114-048	Wipe	09/11/23
26	AFRAME-C10W-MED-L1-HS-3-230911-P-A	492114-050	Wipe	09/11/23
27	AFRAME-C11W-MED-L1-HS-3-230911-P-G	492114-053	Wipe	09/11/23
28	AFRAME-C8W-MED-L1-EXT-1 TO 2-230911-P-WF	492114-055	Wipe	09/11/23
29	AFRAME-C8W-LAT-L1-INT-1 TO 2-230911-P-FB	492114-057	Wipe	09/11/23
30	AFRAME-C8W-LAT-L1-UP-C8W-HS-230911-P-LA	492114-059	Wipe	09/11/23
31	AFRAME-C9W-LAT-L1-INT-1 TO 2-230911-P-FB	492114-061	Wipe	09/11/23
32	AFRAME-C11W-LAT-L1-INT-1 TO 2-230911-P-FB	492114-063	Wipe	09/11/23
33	AFRAME-C8W-MED-L1-DN-C8.7-DG-230911-P-SS	492114-065	Wipe	09/11/23
34	AFRAME-C9W-MED-L1-EXT-0 TO 1-230911-P-WF	492114-067	Wipe	09/11/23
35	AFRAME-C9W-MED-L1-DN-C9W-DG-230911-P-SS	492114-069	Wipe	09/11/23
36	AFRAME-C9W-MED-L1-DN-C9.7-DG-230911-P-SS	492114-071	Wipe	09/11/23
37	230911-P-FIELDBLANK1-HO	492114-073	Wipe	09/11/23
38	230911-P-FIELDBLANK2-HO	492114-076	Wipe	09/11/23
39	230911-P-FIELDBLANK3-HO	492114-079	Wipe	09/11/23
40				
41				
42				

Notes:

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57638E4b

VALIDATION COMPLETENESS WORKSHEET

Date: 10/18/2023

SDG #: 492114

Stage 2A

Page: 1 of 2

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer: 12/1

2nd Reviewer: _____

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	SW	FB= 37, 38, 39, 40, 41, 42
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	SW	FD= 7/6, 22/10, 26/25
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data		

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C8W-MED-L2-HS-1-230911-L-G	492114-003	Wipe	09/11/23
2	AFRAME-C9W-LAT-L3-DN-C9.5-DG-230911-L-LA	492114-005	Wipe	09/11/23
3	AFRAME-C9W-MED-L3-DN-C9.2-DG-230911-L-LA	492114-007	Wipe	09/11/23
4	AFRAME-C10W-MED-L2-HS-1-230911-L-G	492114-009	Wipe	09/11/23
5	AFRAME-C8W-LAT-L2-INT-0.5 TO 1-230911-L-FB	492114-011	Wipe	09/11/23
6	AFRAME-C9W-LAT-L2-INT-0.5 TO 1-230911-L-FB	492114-013	Wipe	09/11/23
7	AFRAME-C9W-LAT-L2-INT-0.5 TO 1-230911-L-DUP-FB	492114-014	Wipe	09/11/23
8	AFRAME-C9W-LAT-L2-EXT-0 TO 1-230911-L-WF	492114-016	Wipe	09/11/23
9	AFRAME-C9W-LAT-L2-UP-C9.7-VS-230911-L-I	492114-018	Wipe	09/11/23
10	AFRAME-C11W-MED-L2-INT-0.5 TO 1-230911-L-FB	492114-020	Wipe	09/11/23
11	AFRAME-C8W-MED-L2-DN-C8.2-DG-230911-L-LA	492114-023	Wipe	09/11/23
12	AFRAME-C9W-MED-L2-INT-0 TO 0.5-230911-L-FB	492114-025	Wipe	09/11/23
13	AFRAME-C9W-MED-L2-DN-C9.5-DG-230911-L-LA	492114-027	Wipe	09/11/23
14	AFRAME-C9W-MED-L2-UP-C9.1-VS-230911-L-LA	492114-029	Wipe	09/11/23
15	AFRAME-C10W-MED-L2-INT-0 TO 0.5-230911-L-FB	492114-032	Wipe	09/11/23
16	AFRAME-C11W-MDD-L2-EXT-0 TO 1-230911-L-WF	492114-034	Wipe	09/11/23
17	AFRAME-C8W-LAT-L1-HS-3-230911-L-A	492114-036	Wipe	09/11/23

LDC #: 57638E4b

VALIDATION COMPLETENESS WORKSHEET

Date: 10/18/2023

SDG #: 492114

Stage 2A

Page: 2 of 2

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer: BM

2nd Reviewer: _____

METHOD: Lead (EPA SW-846 Method 6010B)

	Client ID	Lab ID	Matrix	Date
18	AFRAME-C8W-LAT-L1-UP-C8.7-VS-230911-L-I	492114-038	Wipe	09/11/23
19	AFRAME-C8W-MED-L1-UP-C8.1-DG-230911-L-SS	492114-040	Wipe	09/11/23
20	AFRAME-C8W-MED-L1-C8.6-DG-230911-L-SS	492114-042	Wipe	09/11/23
21	AFRAME-C8W-MED-L1-C8.6-DG-230911-L-DUP-SS	492114-043	Wipe	09/11/23
22	AFRAME-C9W-LAT-L1-HS-3-230911-L-G	492114-045	Wipe	09/11/23
23	AFRAME-C9W-MED-L1-HS-3-230911-L-LA	492114-047	Wipe	09/11/23
24	AFRAME-C9W-MED-L1-UP-C9.6-DG-230911-L-SS	492114-049	Wipe	09/11/23
25	AFRAME-C10W-MED-L1-HS-3-230911-L-A	492114-051	Wipe	09/11/23
26	AFRAME-C10W-MED-L1-HS-3-230911-L-DUP-A	492114-052	Wipe	09/11/23
27	AFRAME-C11W-MED-L1-HS-3-230911-L-G	492114-054	Wipe	09/11/23
28	AFRAME-C8W-MED-L1-EXT-1 TO 2-230911-L-WF	492114-056	Wipe	09/11/23
29	AFRAME-C8W-LAT-L1-INT-1 TO 2-230911-L-FB	492114-058	Wipe	09/11/23
30	AFRAME-C8W-LAT-L1-UP-C8W-HS-230911-L-LA	492114-060	Wipe	09/11/23
31	AFRAME-C9W-LAT-L1-INT-1 TO 2-230911-L-FB	492114-062	Wipe	09/11/23
32	AFRAME-C11W-LAT-L1-INT-1 TO 2-230911-L-FB	492114-064	Wipe	09/11/23
33	AFRAME-C8W-MED-L1-DN-C8.7-DG-230911-L-SS	492114-066	Wipe	09/11/23
34	AFRAME-C9W-MED-L1-EXT-0 TO 1-230911-L-WF	492114-068	Wipe	09/11/23
35	AFRAME-C9W-MED-L1-DN-C9W-DG-230911-L-SS	492114-070	Wipe	09/11/23
36	AFRAME-C9W-MED-L1-DN-C9.7-DG-230911-L-SS	492114-072	Wipe	09/11/23
37	230911-L-FIELDBLANK1-HO	492114-074	Wipe	09/11/23
38	230911-L-MEDBLANK1-HO	492114-075	Wipe	09/11/23
39	230911-L-FIELDBLANK2-HO	492114-077	Wipe	09/11/23
40	230911-L-MEDBLANK2-HO	492114-078	Wipe	09/11/23
41	230911-L-FIELDBLANK3-HO	492114-080	Wipe	09/11/23
42	230911-L-MEDBLANK3-HO	492114-081	Wipe	09/11/23
43				
44				
45				

Notes: _____

Field Blank Contamination Report

Lab Reporting Batch ID: 492114

Laboratory: Enthalpy Orange

EDD Filename: Prep492114

Moffett_Hangar_1_NTCRA_Enthalpy_230919

Method: 6010B

Matrix: WIPE

Analyte	Sample	Concentration (ug/ft2)	Flag
LEAD	230911-L-FIELDBLANK2-HO	1.9	No Qualifiers Applied
	230911-L-FIELDBLANK3-HO	2.3	

Field Duplicate RPD Report

Lab Reporting Batch ID: 492114

Laboratory: Enthalpy Orange

EDD Filename: Prep492114

eQAPP Name:

Method: 6010B

Matrix: WIPE

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C10W-MED-L1-HS-3-230911-L-A	AFRAME-C10W-MED-L1-HS-3-230911-L-			
LEAD	61	51	18	100.00	No Qualifiers Applied

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C8W-MED-L1-UP-C8.6-	AFRAME-C8W-MED-L1-UP-C8.6-			
LEAD	33	31	6	100.00	No Qualifiers Applied

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C9W-MED-L2-INT-0 TO	AFRAME-C9W-LAT-L2-INT-0.5 TO 1-230911-L-			
LEAD	18	20	11	100.00	No Qualifiers Applied



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Rincon Consultants, Inc.
250 E. 1st Street Suite 1400
Los Angeles, CA – 90012
ATTN: Mr. Ryan Thacher
rthacher@rinconconsultants.com

December 20, 2023

SUBJECT: Hangar 1 NTCRA - Data Validation

Dear Mr. Thacher,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on November 2, 2023. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #57826 RV1:

SDG #

493300, 493321, 494421, 494459, 494537,
494547, 494548

Fraction

Polychlorinated Biphenyls, Lead

The data validation was performed under Stage 2A & 3 guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020)
- USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

Automated Data Review Data Validation Report Hangar 1 NTCRA

Sample Delivery Groups

493300

493321

494421

494459

494537

494547

494548

Only the highlighted SDGs contain
samples that were collected within the
Low Occupancy Area of Zone 5.

December 20, 2023

Introduction

This Data Validation Report (DVR) presents Stage 2A and Stage 3 data validation results for samples collected during the June through September 2023 sampling period. Data validation was performed in accordance with a modified outline of the US Environmental Protection Agency (EPA) National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020) and USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Polychlorinated Biphenyls (PCBs) by Environmental Protection Agency (EPA) SW 846 Method 8082

Lead by EPA SW 846 Method 6010B

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2A data validation, which comprises an evaluation of quality control (QC) summary results. Selected samples were subjected to Stage 3 data validation as indicated on the Sample Summary Report. Stage 3 data validation is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

Initial Calibration and Initial Calibration Verification

8082

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all analytes.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 15.0% for all analytes.

Initial calibration data were not reviewed for Stage 2A validation.

6010B

An initial calibration was performed as required by the method.

The initial calibration verification (ICV) standards were within QC limits.

Initial calibration data were not reviewed for Stage 2A validation.

Continuing Calibration

8082

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 15.0% for all analytes.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

Continuing calibration data were not reviewed for Stage 2A validation.

6010B

Continuing calibrations were performed as required by the method.

The continuing calibration verification (CCV) standards were within QC limits.

Continuing calibration data were not reviewed for Stage 2A validation.

ICP Interference Check Sample Analysis

6010B

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

Although lead was found in the ICSA standard, no qualification was necessary since the interferent concentrations in the samples were less than ninety percent of the spiked interference concentrations in the ICSA.

Interference check sample (ICS) analysis data were not reviewed for Stage 2A validation.

Laboratory Blanks

8082

Laboratory blanks were performed as required by the method. No contaminants were detected in the laboratory blanks.

6010B

Laboratory blanks were performed as required by the method. Two laboratory blanks had detection for lead. The associated sample results were not detected or were significantly greater than the concentrations found in the field blanks and were not qualified. The details are presented in Enclosure I.

Field Blanks

8082

Two field blanks were collected and analyzed. No contaminants were found.

6010B

Five field blanks were collected and analyzed. Four field blanks had detections for lead. The associated sample results were not detected or were significantly greater than the concentrations found in the media blank, therefore no data were qualified. The details are presented in Enclosure I.

Five media blanks were collected and analyzed. No contaminants were found.

Surrogate Spikes

8082

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Internal Standards

8082

All internal standard areas and retention times were within QC limits.

Internal standard data were not reviewed for Stage 2A validation.

Matrix Spike/Matrix Spike Duplicates

The collection of MS/MSDs for wipe samples is not required per the agency-approved UFP-QAPP.

Duplicate Sample Analysis

6010B

Laboratory duplicate (DUP) analyses is not required per the agency-approved UFP-QAPP.

Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method with the exception of SDG 493300. The laboratory indicated the LCSD was not performed. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

Field Duplicates

8082

Four field duplicate pairs were collected and analyzed. No results were detected in the field duplicates. The field duplicates are identified in Attachment 1.

6010B

Eight field duplicate pairs were collected and analyzed. Eight field duplicate pairs had detections for lead. All RPDs were within QC limits. The field duplicate result comparisons are presented in Enclosure I.

Target Analyte Quantitation

8082

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

6010B

The laboratory reporting limits were evaluated. While the reporting limits were not achieved in accordance with the UFP-QAPP for samples in SDGs 494459 and 494537, the achieved reporting limits are acceptable with respect to the Cleanup Goals.

Overall Assessment of Data

The analyses were conducted within all specifications of the methods. No results were rejected in these SDGs.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Summary Report by Analysis Method

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
-------------------------	----------------------	---------------	--------------------	---------------------------	------------------------	------------------------

Lab Reporting Batch: 493300

Method: 6010B

ARCH-C10E-DG-1.5 TO 2-231003-L-DUP-FB	493300-012	WIPE	FD	3050B	10/3/2023 8:35:00 AM	S3VEM
ARCH-C10E-DG-1.5 TO 2-231003-L-FB	493300-011	WIPE	N	3050B	10/3/2023 8:35:00 AM	S3VEM
ARCH-C10E-PS-2.5-231003-L-G	493300-020	WIPE	N	3050B	10/3/2023 9:25:00 AM	S3VEM
ARCH-C11E-INT-1.5 TO 2.5-231003-L-WF	493300-016	WIPE	N	3050B	10/3/2023 9:10:00 AM	S3VEM
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-L-LA	493300-009	WIPE	N	3050B	10/3/2023 8:10:00 AM	S3VEM
ARCH-C8E-DG-3 TO 3.5-231003-L-FB	493300-022	WIPE	N	3050B	10/3/2023 10:05:00 AM	S3VEM
ARCH-C8E-EXT-1 TO 2-231003-L-DUP-WF	493300-003	WIPE	FD	3050B	10/3/2023 7:40:00 AM	S3VEM
ARCH-C8E-EXT-1 TO 2-231003-L-WF	493300-002	WIPE	N	3050B	10/3/2023 7:40:00 AM	S3VEM
ARCH-C8E-PS-2.5-231003-L-G	493300-018	WIPE	N	3050B	10/3/2023 9:45:00 AM	S3VEM
ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-L-LA	493300-014	WIPE	N	3050B	10/3/2023 8:55:00 AM	S3VEM
ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-L-LA	493300-024	WIPE	N	3050B	10/3/2023 7:45:00 AM	S3VEM
ARCH-C9E-EXT-1 TO 2-231003-L-WF	493300-006	WIPE	N	3050B	10/3/2023 7:55:00 AM	S3VEM

Method: 8082

ARCH-C10E-DG-1.5 TO 2-231003-P-FB	493300-010	WIPE	N	3546	10/3/2023 8:35:00 AM	S3VEM
ARCH-C10E-PS-2.5-231003-P-G	493300-019	WIPE	N	3546	10/3/2023 9:25:00 AM	S3VEM
ARCH-C11E-INT-1.5 TO 2.5-231003-P-WF	493300-015	WIPE	N	3546	10/3/2023 9:10:00 AM	S3VEM
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-DUP-LA	493300-008	WIPE	FD	3546	10/3/2023 8:10:00 AM	S3VEM
ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-LA	493300-007	WIPE	N	3546	10/3/2023 8:10:00 AM	S3VEM
ARCH-C8E-DG-3 TO 3.5-231003-P-FB	493300-021	WIPE	N	3546	10/3/2023 10:05:00 AM	S3VEM
ARCH-C8E-EXT-1 TO 2-231003-P-WF	493300-001	WIPE	N	3546	10/3/2023 7:40:00 AM	S3VEM

11/20/2023 8:50:09 AM

ADR version 1.9.0.325

Page 1 of 3

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 8082						
ARCH-C8E-PS-2.5-231003-P-G	493300-017	WIPE	N	3546	10/3/2023 9:45:00 AM	S3VEM
ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-P-LA	493300-013	WIPE	N	3546	10/3/2023 8:55:00 AM	S3VEM
ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-P-LA	493300-023	WIPE	N	3546	10/3/2023 7:45:00 AM	S3VEM
ARCH-C9E-EXT-1 TO 2-231003-P-DUP-WF	493300-005	WIPE	FD	3546	10/3/2023 7:55:00 AM	S3VEM
ARCH-C9E-EXT-1 TO 2-231003-P-WF	493300-004	WIPE	N	3546	10/3/2023 7:55:00 AM	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
------------------	---------------	--------	-------------	--------------------	-----------------	-----------------

Lab Reporting Batch: 493321

Method: 6010B

231003-L-FIELDBLANK1-LO	493321-023	WIPE	FB	3050B	10/3/2023 7:30:00 AM	S2AVE
231003-L-MEDBLANK1	493321-024	WIPE	FB	3050B	10/3/2023 10:30:00 AM	S2AVE
ARCH-C10E-INT-2.5 TO 3.5-231003-L-DUP-WF	493321-005	WIPE	FD	3050B	10/3/2023 8:15:00 AM	S2AVE
ARCH-C10E-INT-2.5 TO 3.5-231003-L-WF	493321-004	WIPE	N	3050B	10/3/2023 8:15:00 AM	S2AVE
ARCH-C11E-PS-4.5-231003-L-3	493321-017	WIPE	N	3050B	10/3/2023 9:25:00 AM	S2AVE
ARCH-C8E-DG-4 TO 4.5-UP-28.5-DG-231003-L-LA	493321-008	WIPE	N	3050B	10/3/2023 8:45:00 AM	S2AVE
ARCH-C8E-DG-4.5 TO 5-UP-28.4-DG-231003-L-LA	493321-015	WIPE	N	3050B	10/3/2023 9:40:00 AM	S2AVE
ARCH-C9E-DG-4 TO 1.5-231003-L-DUP-FB	493321-011	WIPE	N	3050B	10/3/2023 9:10:00 AM	S2AVE
ARCH-C9E-DG-4 TO 1.5-231003-L-FB	493321-010	WIPE	N	3050B	10/3/2023 9:10:00 AM	S2AVE
ARCH-C9E-DG-4 TO 4.5-DN-29.4-VS-231003-L-LA	493321-013	WIPE	N	3050B	10/3/2023 9:00:00 AM	S2AVE
ARCH-C9E-DG-5 TO 5.5-UP-29.5-DG-231003-L-LA	493321-021	WIPE	N	3050B	10/3/2023 9:55:00 AM	S2AVE
ARCH-C9E-INT-4.5 TO 3.5-231003-L-WF	493321-019	WIPE	N	3050B	10/3/2023 10:10:00 AM	S2AVE
ARCH-C9E-PS-3.5-231003-L-3	493321-002	WIPE	N	3050B	10/3/2023 8:30:00 AM	S2AVE

Method: 8082

231003-P-FIELDBLANK1-LO	493321-022	WIPE	FB	3546	10/3/2023 7:30:00 AM	S2AVE
ARCH-C10E-INT-2.5 TO 3.5-231003-P-WF	493321-003	WIPE	N	3546	10/3/2023 8:15:00 AM	S2AVE
ARCH-C11E-PS-4.5-231003-P-G	493321-016	WIPE	N	3546	10/3/2023 9:25:00 AM	S2AVE
ARCH-C8E-DG-4 TO 4.5-UP-28.5-DG-231003-P-DUP-LA	493321-007	WIPE	FD	3546	10/3/2023 8:45:00 AM	S2AVE
ARCH-C8E-DG-4 TO 4.5-UP-28.5-DG-231003-P-LA	493321-006	WIPE	N	3546	10/3/2023 8:45:00 AM	S2AVE
ARCH-C8E-DG-4.5 TO 5-UP-28.4-DG-231003-P-LA	493321-014	WIPE	N	3546	10/3/2023 9:40:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 8082						
ARCH-C9E-DG-4 TO 4.5-231003-P-FB	493321-009	WIPE	N	3546	10/3/2023 9:10:00 AM	S2AVE
ARCH-C9E-DG-4 TO 4.5-DN- C9.4-VS-231003-P-LA	493321-012	WIPE	N	3546	10/3/2023 9:00:00 AM	S2AVE
ARCH-C9E-DG-5 TO 5.5-UP- C9.5-DG-231003-P-LA	493321-020	WIPE	N	3546	10/3/2023 9:55:00 AM	S2AVE
ARCH-C9E-INT-4.5 TO 5.5-231003-P-WF	493321-018	WIPE	N	3546	10/3/2023 10:10:00 AM	S2AVE
ARCH-C9E-PS-3.5-231003-P- 3	493321-001	WIPE	N	3546	10/3/2023 8:30:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
-------------------------	----------------------	---------------	--------------------	---------------------------	------------------------	------------------------

Lab Reporting Batch: 494421

Method: 6010B

231023-L-FIELDBLANK2-LO	494421-020	WIPE	FB	3050B	10/23/2023 10:25:00 ΔM	S3VEM
231023-L-MEDBLANK2-LO	494421-021	WIPE	FB	3050B	10/23/2023 11:40:00 ΔM	S3VEM
ARCH-C10E-DG-5 TO 5.5-231023-L-FB	494421-002	WIPE	N	3050B	10/23/2023 7:40:00 ΔM	S3VEM
ARCH-C10E-PS-5.5-231023-L-G	494421-004	WIPE	N	3050B	10/23/2023 8:00:00 ΔM	S3VEM
ARCH-C11E-DG-6 TO 6.5-231023-L-FB	494421-010	WIPE	N	3050B	10/23/2023 9:05:00 ΔM	S3VEM
ARCH-C11E-PS-6.5-231023-L-G	494421-012	WIPE	N	3050B	10/23/2023 9:30:00 ΔM	S3VEM
ARCH-C8E-DG-5 TO 5.5-UP-C8.3-DG-231023-L-LA	494421-001	WIPE	N	3050B	10/23/2023 7:30:00 ΔM	S3VEM
ARCH-C8E-DG-6 TO 6.5-UP-C8.1-HS-231023-L-LA	494421-008	WIPE	N	3050B	10/23/2023 8:40:00 ΔM	S3VEM
ARCH-C8E-DG-7 TO 7.5-UP-C8.7-DG-231023-L-LA	494421-014	WIPE	N	3050B	10/23/2023 9:45:00 ΔM	S3VEM
ARCH-C8E-DG-7.5 TO 8-DN-C8.6-VS-231023-L-LA	494421-017	WIPE	N	3050B	10/23/2023 10:15:00 ΔM	S3VEM
ARCH-C8E-DG-8 TO 9-DN-C8.6-VS-231023-L-LA	494421-019	WIPE	N	3050B	10/23/2023 10:30:00 ΔM	S3VEM
ARCH-C8E-EXT-6 TO 7-231023-L-WF	494421-007	WIPE	N	3050B	10/23/2023 8:30:00 ΔM	S3VEM
ARCH-C8E-INT-6.5 TO 7-231023-L-WF	494421-013	WIPE	N	3050B	10/23/2023 9:40:00 ΔM	S3VEM
ARCH-C8E-PS-5.5-231023-L-G	494421-003	WIPE	N	3050B	10/23/2023 7:50:00 ΔM	S3VEM
ARCH-C9E-DG-5.5 TO 6-231023-L-FB	494421-005	WIPE	N	3050B	10/23/2023 8:10:00 ΔM	S3VEM
ARCH-C9E-DG-5.5 TO 6-DN-C9.6-DG-231023-L-LA	494421-006	WIPE	N	3050B	10/23/2023 8:20:00 ΔM	S3VEM
ARCH-C9E-DG-6 TO 6.5-DN-C9.7-VS-231023-L-LA	494421-009	WIPE	N	3050B	10/23/2023 8:50:00 ΔM	S3VEM
ARCH-C9E-DG-7 TO 7.5-231023-L-FB	494421-015	WIPE	N	3050B	10/23/2023 9:55:00 ΔM	S3VEM
ARCH-C9E-DG-7 TO 7.5-DN-C9.2-VS-231023-L-LA	494421-016	WIPE	N	3050B	10/23/2023 10:00:00 ΔM	S3VEM
ARCH-C9E-DG-7.5 TO 8-DN-C9.3-VS-231023-L-LA	494421-018	WIPE	N	3050B	10/23/2023 10:20:00 ΔM	S3VEM

11/20/2023 9:08:37 AM

ADR version 1.9.0.325

Page 1 of 3

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 6010B						
ARCH-C9E-PS-6.5-231023-L- 3	494421-011	WIPE	N	3050B	10/23/2023 9:15:00 AM	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (12/19/2023)

Approved By:

Laboratory: Enthalpy Orange

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
------------------	---------------	--------	-------------	--------------------	-----------------	-----------------

Lab Reporting Batch: 494459

Method: 6010B

31023-L-FIELDBLANK1-HO	494459-024	WIPE	FB	3050B	10/23/2023 7:30:00 AM	S3VEM
31023-L-MEDBLANK1-HO	494459-025	WIPE	FB	3050B	10/23/2023 11:45:00 AM	S3VEM
FRAME-C10E-MED-L2- IS-1-231023-L-G	494459-002	WIPE	N	3050B	10/23/2023 7:50:00 AM	S3VEM
FRAME-C10E-MED-L2-INT-0 O 0.5-231023-L-FB	494459-018	WIPE	N	3050B	10/23/2023 9:45:00 AM	S3VEM
FRAME-C11E-MED-L2- EXT-0 TO 1-231023-L-WF	494459-019	WIPE	N	3050B	10/23/2023 9:50:00 AM	S3VEM
FRAME-C11E-MED-L2- INT-0.5 TO 1-231023-L-FB	494459-013	WIPE	N	3050B	10/23/2023 8:00:00 AM	S3VEM
FRAME-C8E-LAT-L1-INT-1 O 2-231023-L-FB	494459-022	WIPE	N	3050B	10/23/2023 10:25:00 AM	S3VEM
FRAME-C8E-LAT-L2-EXT-0 O 1-231023-L-DUP-WF	494459-005	WIPE	FD	3050B	10/23/2023 8:55:00 AM	S3VEM
FRAME-C8E-LAT-L2-EXT-0 O 1-231023-L-WF	494459-004	WIPE	N	3050B	10/23/2023 8:55:00 AM	S3VEM
FRAME-C8E-LAT-L2-INT-0.5 O 1-231023-L-FB	494459-006	WIPE	N	3050B	10/23/2023 8:45:00 AM	S3VEM
FRAME-C8E-LAT-L2-UP- 8.1-VS-231023-L-I	494459-007	WIPE	N	3050B	10/23/2023 8:36:00 AM	S3VEM
FRAME-C8E-MED-L1-EXT-2 O 3-231023-L-WF	494459-021	WIPE	N	3050B	10/23/2023 10:10:00 AM	S3VEM
FRAME-C8E-MED-L1-UP- 8.1-DG-231023-L-SS	494459-020	WIPE	N	3050B	10/23/2023 10:15:00 AM	S3VEM
FRAME-C8E-MED-L2-DN- 8.2-DG-231023-L-LA	494459-014	WIPE	N	3050B	10/23/2023 9:15:00 AM	S3VEM
FRAME-C9E-LAT-L2-EXT-0 O 1-231023-L-DUP-WF	494459-009	WIPE	FD	3050B	10/23/2023 8:25:00 AM	S3VEM
FRAME-C9E-LAT-L2-EXT-0 O 1-231023-L-WF	494459-008	WIPE	N	3050B	10/23/2023 8:25:00 AM	S3VEM
FRAME-C9E-LAT-L2-INT-0.5 O 1-231023-L-FB	494459-010	WIPE	N	3050B	10/23/2023 8:15:00 AM	S3VEM
FRAME-C9E-LAT-L2-UP- 9.1-VS-231023-L-I	494459-012	WIPE	N	3050B	10/23/2023 8:10:00 AM	S3VEM
FRAME-C9E-MED-L2-DN- 9.5-DG-231023-L-LA	494459-017	WIPE	N	3050B	10/23/2023 9:35:00 AM	S3VEM
FRAME-C9E-MED-L2-INT-0 O 0.5-231023-L-FB	494459-016	WIPE	N	3050B	10/23/2023 9:25:00 AM	S3VEM

2/19/2023 1:42:06 PM

ADR version 1.9.0.325

Page 1 of 3

Crossed out Sample IDs not collected within the Low Occupancy Area of Zone 5.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (12/19/2023)

Approved By:

Laboratory: Enthalpy Orange

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 6010B						
FRAME-C9E-MED-L3-DN- 9.2-DG-231023-L-LA	494459-001	WIPE	N	3050B	10/23/2023 7:40:00 AM	S3VEM
Method: 8082						
31023-P-FIELDBLANK1-HO	494459-023	WIPE	FB	3546	10/23/2023 7:30:00 AM	S3VEM
FRAME-C8E-LAT-L2-EXT-0 O 1-231023-P-WF	494459-003	WIPE	N	3546	10/23/2023 8:55:00 AM	S3VEM
FRAME-C9E-LAT-L2-UP- 9.1-VS-231023-P-I	494459-011	WIPE	N	3546	10/23/2023 8:10:00 AM	S3VEM
FRAME-C9E-MED-L2-INT-0 O 0.5-231023-P-FB	494459-015	WIPE	N	3546	10/23/2023 9:25:00 AM	S3VEM

Crossed out Sample IDs not collected within the Low Occupancy Area of Zone 5.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)
Approved By:
Laboratory: Enthalpy Orange

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
------------------	---------------	--------	-------------	--------------------	-----------------	-----------------

Lab Reporting Batch: 494537

Method: 6010B

31024-L-FIELDBLANK2-HO	494537-032	WIPE	FB	3050B	10/24/2023 10:05:00 AM	S2AVE
31024-L-FIELDBLANK3-HO	494537-034	WIPE	FB	3050B	10/24/2023 7:52:00 AM	S2AVE
31024-L-MEDBLANK2-HO	494537-033	WIPE	FB	3050B	10/24/2023 12:30:00 PM	S2AVE
31024-L-MEDBLANK3-HO	494537-035	WIPE	FB	3050B	10/24/2023 12:28:00 PM	S2AVE
FRAME-C10E-LAT-L1-IS-3-231024-L-A	494537-009	WIPE	N	3050B	10/24/2023 8:55:00 AM	S2AVE
FRAME-C10E-LAT-L3-EXT-01-231024-L-DUP-WF	494537-028	WIPE	FD	3050B	10/24/2023 9:25:00 AM	S2AVE
FRAME-C10E-LAT-L3-EXT-01-231024-L-WF	494537-027	WIPE	N	3050B	10/24/2023 9:25:00 AM	S2AVE
FRAME-C11E-LAT-L1-INT-102-231024-L-FB	494537-014	WIPE	N	3050B	10/24/2023 9:50:00 AM	S2AVE
FRAME-C11E-MED-L1-IS-3-231024-L-A	494537-010	WIPE	N	3050B	10/24/2023 9:05:00 AM	S2AVE
FRAME-C8E-LAT-L1-IS-3-231024-L-A	494537-003	WIPE	N	3050B	10/24/2023 8:05:00 AM	S2AVE
FRAME-C8E-LAT-L3-UP-8.6-HS-231024-L-LA	494537-023	WIPE	N	3050B	10/24/2023 9:05:00 AM	S2AVE
FRAME-C8E-MED-L1-DN-8.7-DG-231024-L-SS	494537-015	WIPE	N	3050B	10/24/2023 10:00:00 AM	S2AVE
FRAME-C8E-MED-L1-UP-8.6-DG-231024-L-SS	494537-004	WIPE	N	3050B	10/24/2023 8:15:00 AM	S2AVE
FRAME-C8E-MED-L2-IS-1-231024-L-G	494537-030	WIPE	N	3050B	10/24/2023 9:45:00 AM	S2AVE
FRAME-C8E-MED-L3-DN-8.7-DG-231024-L-LA	494537-031	WIPE	N	3050B	10/24/2023 10:00:00 AM	S2AVE
FRAME-C8E-MED-L3-UP-8.4-DG-231024-L-LA	494537-024	WIPE	N	3050B	10/24/2023 8:55:00 AM	S2AVE
FRAME-C9E-LAT-L1-IS-3-231024-L-A	494537-005	WIPE	N	3050B	10/24/2023 8:30:00 AM	S2AVE
FRAME-C9E-LAT-L1-INT-102-231024-L-DUP-FB	494537-013	WIPE	FD	3050B	10/24/2023 9:35:00 AM	S2AVE
FRAME-C9E-LAT-L1-INT-102-231024-L-FB	494537-012	WIPE	N	3050B	10/24/2023 9:35:00 AM	S2AVE
FRAME-C9E-LAT-L1-UP-8.1-VS-231024-L-I	494537-036	WIPE	N	3050B	10/24/2023 8:40:00 AM	S2AVE

Crossed out Sample IDs not collected within the Low Occupancy Area of Zone 5.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
------------------	---------------	--------	-------------	--------------------	-----------------	-----------------

Method: 6010B

AFRAME-C9E-LAT-L1-UP- C9.7-VS-231024-L-I	494537-006	WIPE	N	3050B	10/24/2023 8:50:00 AM	S2AVE
AFRAME-C9E-LAT-L3-DN- C9.5-DG-231024-L-LA	494537-001	WIPE	N	3050B	10/24/2023 10:10:00 AM	S2AVE
AFRAME-C9E-LAT-L3-UP- C9.1-HS-231024-L-LA	494537-025	WIPE	N	3050B	10/24/2023 9:20:00 AM	S2AVE
AFRAME-C9E-MED-L1-DN- C9.7-DG-231024-L-SS	494537-017	WIPE	N	3050B	10/24/2023 10:20:00 AM	S2AVE
AFRAME-C9E-MED-L1-DN- C9E-DG-231024-L-SS	494537-018	WIPE	N	3050B	10/24/2023 10:10:00 AM	S2AVE
AFRAME-C9E-MED-L1-EXT-0 FO 1-231024-L-WF	494537-016	WIPE	N	3050B	10/24/2023 10:05:00 AM	S2AVE
AFRAME-C9E-MED-L1-UP- C9.6-DG-231024-L-SS	494537-008	WIPE	N	3050B	10/24/2023 9:15:00 AM	S2AVE
AFRAME-C9E-MED-L1-UP- C9E-DG-231024-L-LA	494537-011	WIPE	N	3050B	10/24/2023 9:25:00 AM	S2AVE
AFRAME-C9E-MED-L3-EXT-1 FO 2-231024-L-DUP-WF	494537-020	WIPE	FD	3050B	10/24/2023 8:25:00 AM	S2AVE
AFRAME-C9E-MED-L3-EXT-1 FO 2-231024-L-WF	494537-019	WIPE	N	3050B	10/24/2023 8:25:00 AM	S2AVE
AFRAME-C9E-MED-L3-UP- C9.7-DG-231024-L-LA	494537-021	WIPE	N	3050B	10/24/2023 8:45:00 AM	S2AVE

Method: 8082

AFRAME-C10E-LAT-L3-EXT-0 FO 1-231024-P-WF	494537-026	WIPE	N	3546	10/24/2023 9:25:00 AM	S2AVE
AFRAME-C8E-LAT-L1- HS-3-231024-P-A	494537-002	WIPE	N	3546	10/24/2023 8:05:00 AM	S2AVE
AFRAME-C8E-LAT-L3-UP- C8.6-HS-231024-P-LA	494537-022	WIPE	N	3546	10/24/2023 9:05:00 AM	S2AVE
AFRAME-C8E-MED-L2- HS-1-231024-P-G	494537-029	WIPE	N	3546	10/24/2023 9:45:00 AM	S2AVE
AFRAME-C9E-MED-L1-UP- C9.6-DG-231024-P-SS	494537-007	WIPE	N	3546	10/24/2023 9:15:00 AM	S2AVE

Crossed out Sample IDs not collected within the Low Occupancy Area of Zone 5.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
--------------------------------	-----------------------------	----------------------	---------------------------	--------------------------------------	-------------------------------	-------------------------------

Lab Reporting Batch: 494547

Method: 6010B

ARCH-C11E-EXT-8 TO
9-231024-L-WF

494547-001

WIPE

N

3050B

10/24/2023 7:55:00
AM

S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
-------------------------	----------------------	---------------	--------------------	---------------------------	------------------------	------------------------

Lab Reporting Batch: 494548

Method: 6010B

AFRAME-C8E-LAT-L3-UP-C8.1-DG-231024-L-LA	494548-003	WIPE	N	3050B	10/24/2023 8:10:00 AM	S3VEM
AFRAME-C9E-LAT-L3-UP-C9.4-VS-231024-L-LA	494548-005	WIPE	N	3050B	10/24/2023 8:35:00 AM	S3VEM

Method: 8082

AFRAME-C8E-LAT-L3-UP-C8.1-DG-231024-P-DUP-LA	494548-002	WIPE	FD	3546	10/24/2023 8:10:00 AM	S3VEM
AFRAME-C8E-LAT-L3-UP-C8.1-DG-231024-P-LA	494548-001	WIPE	N	3546	10/24/2023 8:10:00 AM	S3VEM
AFRAME-C9E-LAT-L3-UP-C9.4-VS-231024-P-LA	494548-004	WIPE	N	3546	10/24/2023 8:35:00 AM	S3VEM

Crossed out Sample IDs not collected within the Low Occupancy Area of Zone 5.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (11/20/2023)

Approved By:

Laboratory: Enthalpy Orange

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
--------------------------------	-----------------------------	----------------------	---------------------------	--------------------------------------	-------------------------------	-------------------------------

Validation Label Legend

<i>Label Code</i>	<i>Label Description</i>	<i>EPA Level</i>
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with calibration
S2BVM	Stage_2B_Validation_Manual	Level 3 with calibration
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with calibration
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Attachment 2
Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: 493300

Laboratory: Enthalpy Orange

EDD Filename: 493300

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 493321

EDD Filename: Prep493321

Laboratory: Enthalpy Orange

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 494421

Laboratory: Enthalpy Orange

EDD Filename: Prep494421

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 494459

Laboratory: Enthalpy Orange

EDD Filename: Prep494459

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 494537

EDD Filename: Prep494537

Laboratory: Enthalpy Orange

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 494547

Laboratory: Enthalpy Orange

EDD Filename: Prep494547

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 494548

Laboratory: Enthalpy Orange

EDD Filename: Prep494548

eQAPP Name:

No Data Review Qualifiers Applied.

Enclosure I
Validation Outlier Reports

Quality Control Outlier Reports

493300

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826A3b

SDG #: 493300

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 3

Date: 11/18/23

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ / Δ	
II.	Initial calibration/ICV	Δ / Δ	% PSD ≤ 20 ICV ≤ 15
III.	Continuing calibration	Δ	CV ≤ 15
IV.	Laboratory Blanks	Δ	
V.	Field blanks	N/A	FB = 6, 11 [Signature] 11/20/23
VI.	Surrogate spikes /17	Δ / Δ	
VII.	Matrix spike/Matrix spike duplicates	N	CD
VIII.	Laboratory control samples	Δ	WD
IX.	Field duplicates	ND	D = 2, 3 4.5
X.	Target analyte quantitation	Δ	
XI.	Target analyte identification	Δ	
XII.	Overall assessment of data	Δ	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C8E-EXT-1 TO 2-231003-P-WF	493300-001	Wipe	10/03/23
2	ARCH-C9E-EXT-1 TO 2-231003-P-WF	493300-004	Wipe	10/03/23
3	ARCH-C9E-EXT-1 TO 2-231003-P-DUP-WF	493300-005	Wipe	10/03/23
4	ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-LA	493300-007	Wipe	10/03/23
5	ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-P-DUP-LA	493300-008	Wipe	10/03/23
6	ARCH-C10E-DG-1.5 TO 2-231003-P-FB	493300-010	Wipe	10/03/23
7	ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-P-LA	493300-013	Wipe	10/03/23
8	ARCH-C11E-INT-1.5 TO 2.5-231003-P-WF	493300-015	Wipe	10/03/23
9	ARCH-C8E-PS-2.5-231003-P-G	493300-017	Wipe	10/03/23
10	ARCH-C10E-PS-2.5-231003-P-G	493300-019	Wipe	10/03/23
11	ARCH-C8E-DG-3 TO 3.5-231003-P-FB	493300-021	Wipe	10/03/23
12	ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-P-LA	493300-023	Wipe	10/03/23
13				

Notes:

323800				

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826A3b

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	☒	☐	☐	
Was cooler temperature criteria met?	☒	☐	☐	
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) $\leq$ 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	☒	☐	☐	
Were all percent differences (%D) $\leq$ 20%? <u>15%</u>	☒	☐	☐	
III. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) $\leq$ 20%? <u>15%</u>	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	☒	☐	☐	
Was a laboratory blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the laboratory blanks?	☐	☒	☐	
V. Field Blanks				
Were field blanks identified in this SDG?	☒	☐	☐	
Were target compounds detected in the field blanks?	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	☒	☐	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☐	☐	☒	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	LCS was not available therefore the %RPD could not be calculated/reported.
IX. Field duplicates				

LDC #: 57 826 A3b

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: FT

Were field duplicate pairs identified in this SDG?	/			
Were target compounds detected in the field duplicates?		/		
X. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes: _____

LDC #: _57826A3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: __1__ of __1__

Reviewer: __FT__

METHOD:PCB 8082

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

CF = A/C

average CF = sum of the CF/number of standards

%RSD = 100 * (S/X)

Where:

A = Area of compound

C = Concentration of compound

S = Standard deviation of calibration factors

X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported 250ug/L	Recalculated 250ug/L	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	10/5/2023	Aroclor 1016-1 ChA	0.0240	0.0240	0.0226	0.0226	16	16
	GC06		Aroclor 1016-1 ChB	0.0196	0.0196	0.0190	0.0190	13	13

LDC #: _57826A3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: __1__ of __1__

Reviewer: __FT__

METHOD:PCB 8082

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
 C = Concentration of compound
 S = Standard deviation of calibration factors
 X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported 250ug/L	Recalculated 250ug/L	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	9/8/2023	Aroclor 1260-1 ChA	0.0553	0.0553	0.0522	0.0522	16	16
	GC07		Aroclor 1260-1 ChB	0.0584	0.0584	0.0579	0.0579	18	18

LDC #: 57826 A3b

VALIDATION FINDINGS WORKSHEET **Continuing Calibration Results Verification**

 Page: 1 of 1
 Reviewer: FT

METHOD: GC _____ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$$

Where: ave. CF = initial calibration average CF

CF = continuing calibration CF

A = Area of compound

C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/ Conc. CCV	CF/ Conc. CCV	%D	%D
1	CCV Gc06	10/5/23 1645	Arroclor 1016 chA	500.0	505.7	505.7	1	1
			Arroclor 1016 chB	500.0	533.2	533.2	7	7
2	CCV Gc07	10/5/23 1301	Arroclor 1260 chA	500.0	514.0	514.0	3	3
			Arroclor 1260 chB	500.0	544.7	544.7	9	9
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57826A3b

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

 Page: 1 of 1
 Reviewer: FT
METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

 Where: SF = Surrogate Found
 SS = Surrogate Spiked
Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	ch B	50.0	33.5689	67	67	0
DCB	ch B	↓	24.9692	54	54	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Triphenyltin	AA	Chloro-octadecane
D	Bromochlorobenzene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 57826A3b

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1
Reviewer: FT

METHOD: ✓GC HPLC

~~Y N N/A~~

Were all reported results recalculated and verified for all level IV samples?

Y/N N/A

Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID. 323800-LC7 Compound Name Arado 1260

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound
In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

$$\text{Concentration} = \frac{49.44 (10)}{(1.0) (1000)}$$

ch B

0.4944 ug / 100 cm²

#	Sample ID	Compound	Reported Concentrations ($\mu\text{g}/100\text{ g m}^2$)	Recalculated Results Concentrations ($\mu\text{g}/100\text{ cm}^2$)	Qualifications
	LES	Aroclor 1260	0.4944	0.499	
	Aroclor 1260-1	$= (1760401.96) (20.0$	$= 49.29$	$1260-1 =$	49.29
		$(12642655.2) (0.0525)$		$2 =$	50.73
				$3 =$	48.58
				$4 =$	50.95
				$5 =$	47.68
					49.44

Comments:

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826A4b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 493300

Stage 3

Laboratory: Enthalpy Analytical, Orange, CA

Date: 11/15/2023

Page: 1 of 1

Reviewer: SL

2nd Reviewer: AN

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	SW	(1,2), (5,6)
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C8E-EXT-1 TO 2-231003-L-WF	493300-002	Wipe	10/03/23
2	ARCH-C8E-EXT-1 TO 2-231003-L-DUP-WF	493300-003	Wipe	10/03/23
3	ARCH-C9E-EXT-1 TO 2-231003-L-WF	493300-006	Wipe	10/03/23
4	ARCH-C8E-DG-1.5 TO 2-DN-C8.7-VS-231003-L-LA	493300-009	Wipe	10/03/23
5	ARCH-C10E-DG-1.5 TO 2-231003-L-FB	493300-011	Wipe	10/03/23
6	ARCH-C10E-DG-1.5 TO 2-231003-L-DUP-FB	493300-012	Wipe	10/03/23
7	ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231003-L-LA	493300-014	Wipe	10/03/23
8	ARCH-C11E-INT-1.5 TO 2.5-231003-L-WF	493300-016	Wipe	10/03/23
9	ARCH-C8E-PS-2.5-231003-L-G	493300-018	Wipe	10/03/23
10	ARCH-C10E-PS-2.5-231003-L-G	493300-020	Wipe	10/03/23
11	ARCH-C8E-DG-3 TO 3.5-231003-L-FB	493300-022	Wipe	10/03/23
12	ARCH-C9E-DG-3 TO 3.5-UP-C9.2-DG-231003-L-LA	493300-024	Wipe	10/03/23
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
I. Technical holding times				
Were all technical holding times met?	Yes			
Were all water samples preserved to a pH of <2.	Yes			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			NA	
Were %RSDs of isotopes in the tuning solution ≤5%?			NA	
III. Calibration				
Were all instruments calibrated daily?	Yes			
Were the proper standards used?	Yes			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	Yes			
Were the low level standard checks within 70-130%?			NA	
Were all initial calibration correlation coefficients within limits as specified by the method?	Yes			
IV. Interference Check Sample				
Were the interference check samples performed daily?	Yes			
Were the AB solution recoveries within 80-120%?	Yes			
V. Blanks				
Was a method blank associated with every sample in this SDG?	Yes			
Was there contamination in the method blanks?		No		
Was there contamination in the initial and continuing calibration blanks?		No		
VI. Field Blanks				
Were field blanks identified in this SDG?		No		
Were target analytes detected in the field blanks?			NA	

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
VII. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			NA	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			NA	
IX. Serial Dilution				
Were all percent differences <10%?			NA	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			NA	
X. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	Yes			
Were the LCS recoveries and RPDs (if applicable)	Yes			
XI. Field Duplicates				
Were field duplicates identified in this SDG?	Yes			
Were target analytes detected in the field duplicates?	Yes			
VII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			NA	
If the recoveries were outside the limits, was a reanalysis performed?			NA	
XIII. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample	Yes			
Were all soil samples dry weight corrected?			NA	
XIV. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	Yes			

Interference Check Sample A

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020)

All interference check sample A standards were performed at the required frequency with no contamination present with the following exceptions:

Date	Time	Calibration ID	Analyte	Concentration (mg/L)	Limit	Associated Samples	Qualification*	Det/ND
10/4/2023	8:56	ICSA	Pb	-0.01021	0.00334	All	No qual (sample interferents <ICSA)	Det

Comments: *For 6010, qualification is only necessary when the interfering elements (Al, Ca, Fe, Mg) are >90% the level in the ICSA. The ICSA action level is established at 10x the absolute value of the contamination.

Field Duplicate RPD Report

Lab Reporting Batch ID: 493300

Laboratory: Enthalpy Orange

EDD Filename: 493300

eQAPP Name:

Method: 6010B

Matrix: WIPE

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	ARCH-C10E-DG-1.5 TO 2-231003-L-FB	ARCH-C10E-DG-1.5 TO 2-231003-L-DUP-FB			
LEAD	70	130	60	100.00	No Qualifiers Applied

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	ARCH-C8E-EXT-1 TO 2-231003-L-WF (TOT)	ARCH-C8E-EXT-1 TO 2-231003-L-DUP-WF			
LEAD	11	14	24	100.00	No Qualifiers Applied

Field Duplicates

Reviewer: JC

Method: Metals

Analyte	Concentration (ug/ft2)		RPD (≤ 100)	Qualifiers (Parents Only)
	1	2		
Lead	11	14	24	

Analyte	Concentration (ug/ft2)		RPD (≤ 100)	Qualifiers (Parents Only)
	5	6		
Lead	70	130	60	

VALIDATION FINDINGS CHECKLIST
Calibration Calculation Verification

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

Standard ID	Type of Analysis	Element	Found (mg/L)	True (mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP	Pb	0.9879	1	99	99	Y
CCV	ICP		1.02	1	102	102	Y
LLCC	ICP						
ICSAB	ICP	Pb	0.9764	1	98	98	Y
ICV	ICP-MS						
CCV	ICP-MS						
LLCC	ICP-MS						
ICSAB	ICP-MS						
ICV	CVAA						
CCV	CVAA						

ICP-MS Tune	QC Parameter	Mass	Actual	Required
	Mass Axis			± 0.1 amu
	%RSD			≤ 5%

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value } (I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
QC1097963	LCS	Pb	49.65	50	99.3	99	Y
	MS						
QC1097963/64	Duplicate	Pb	49.65	49.62	0	0	Y
	PDS						
	Serial dilution						

Sample Calculation Verification

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Analytes were recalculated and verified using the following equation:

$$\text{Concentration} = (\text{Result from raw data} \times \text{Final volume} \times \text{Dilution factor}) / (\text{Percent solids} \times \text{Initial weight})$$

Sample ID	Analyte	Raw Data (mg/L)	Dilution	Initial Weight/ Volume (ft2)	Final Volume (mL)	Percent solids (%)	Reported Result (ug/ft2)	Recalculated Result (ug/ft2)	Acceptable (Y/N)
1	Pb	0.217575	1	1	50	100	11	11	Y
2	↓	0.278315	1	1	50	100	14	14	Y
3	↓	0.252954	1	1	50	100	13	13	Y
4	↓	3.43609	1	1.02	50	100	170	168	Y
5	↓	1.40037	1	1	50	100	70	70	Y
6	↓	2.58747	1	1	50	100	130	129	Y
7	↓	1.89437	1	1.02	50	100	93	93	Y
8	↓	2.28586	1	1	50	100	110	114	Y
9	↓	2.43519	1	1.0828	50	100	110	112	Y
10	↓	4.24865	1	1.1104	50	100	190	191	Y
11	↓	2.019	1	1	50	100	100	101	Y
12	↓	1.07982	1	1.04	50	100	52	52	Y

Quality Control Outlier Reports

493321

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826B3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 493321

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 11/24/2023

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A 1A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	ND	FB = 11
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	ND	FD = 4/3
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C9E-PS-3.5-231003-P-G	493321-001	Wipe	10/03/23
2	ARCH-C10E-INT-2.5 TO 3.5-231003-P-WF	493321-003	Wipe	10/03/23
3	ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-P-LA	493321-006	Wipe	10/03/23
4	ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-P-DUP-LA	493321-007	Wipe	10/03/23
5	ARCH-C9E-DG-4 TO 4.5-231003-P-FB	493321-009	Wipe	10/03/23
6	ARCH-C9E-DG-4 TO 4.5-DN-C9.4-VS-231003-P-LA	493321-012	Wipe	10/03/23
7	ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231003-P-LA	493321-014	Wipe	10/03/23
8	ARCH-C11E-PS-4.5-231003-P-G	493321-016	Wipe	10/03/23
9	ARCH-C9E-INT-4.5 TO 5.5-231003-P-WF	493321-018	Wipe	10/03/23
10	ARCH-C9E-DG-5 TO 5.5-UP-C9.5-DG-231003-P-LA	493321-020	Wipe	10/03/23
11	231003-P-FIELDBLANK1-LO	493321-022	Wipe	10/03/23
12				
13				

Notes:

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826B4b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 493321

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 11/15/2023

Page: 1 of 1

Reviewer: JC

2nd Reviewer: JBN

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	A	
V.	Field Blanks	SW 11/15/2023 FB=12, 13	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	SW (2,3), (5,6)	
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C9E-PS-3.5-231003-L-G	493321-002	Wipe	10/03/23
2	ARCH-C10E-INT-2.5 TO 3.5-231003-L-WF	493321-004	Wipe	10/03/23
3	ARCH-C10E-INT-2.5 TO 3.5-231003-L-DUP-WF	493321-005	Wipe	10/03/23
4	ARCH-C8E-DG-4 TO 4.5-UP-C8.5-DG-231003-L-LA	493321-008	Wipe	10/03/23
5	ARCH-C9E-DG-4 TO 4.5-231003-L-FB	493321-010	Wipe	10/03/23
6	ARCH-C9E-DG-4 TO 4.5-231003-L-DUP-FB	493321-011	Wipe	10/03/23
7	ARCH-C9E-DG-4 TO 4.5-DN-C9.4-VS-231003-L-LA	493321-013	Wipe	10/03/23
8	ARCH-C8E-DG-4.5-TO 5-UP-C8.4-DG-231003-L-LA	493321-015	Wipe	10/03/23
9	ARCH-C11E-PS-4.5-231003-L-G	493321-017	Wipe	10/03/23
10	ARCH-C9E-INT-4.5 TO 5.5-231003-L-WF	493321-019	Wipe	10/03/23
11	ARCH-C9E-DG-5 TO 5.5-UP-C9.5-DG-231003-L-LA	493321-021	Wipe	10/03/23
12	231003-L-FIELDBLANK1-LO	493321-023	Wipe	10/03/23
13	231003-L-MEDBLANK1	493321-024	Wipe	10/03/23
14				
15				
16				

Notes:

Field Blank Contamination Report

Lab Reporting Batch ID: 493321

Laboratory: Enthalpy Orange

EDD Filename: Prep493321

Moffett_Hangar_1_NTCRA_Enthalpy_230919

Method: 6010B

Matrix: WIPE

Analyte	Sample	Concentration (ug/ft2)	Flag
LEAD	231003-L- FIELDBLANK1-LO	1.1	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: 493321

Laboratory: Enthalpy Orange

EDD Filename: Prep493321

eQAPP Name:

Method: 6010B

Matrix: WIPE

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	ARCH-C10E-INT-2.5 TO 3.5-231003-L-WF	ARCH-C10E-INT-2.5 TO 3.5-231003-L-DUP-			
LEAD	94	96	2	100.00	No Qualifiers Applied

Quality Control Outlier Reports

494421

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826C4b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 494421

Stage 3

Laboratory: Enthalpy Analytical, Orange, CA

Date: 11/15/2023

Page: 1 of 2

Reviewer: JC

2nd Reviewer: BN

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	SW	ICB/C43
V.	Field Blanks	ND	FB = 20, 21
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C8E-DG-5 TO 5.5-UP-C8.36-DG-231023-L-LA	494421-001	Wipe	10/23/23
2	ARCH-C10E-DG-5 TO 5.5-231023-L-FB	494421-002	Wipe	10/23/23
3	ARCH-C8E-PS-5.5-231023-L-G	494421-003	Wipe	10/23/23
4	ARCH-C10E-PS-5.5-231023-L-G	494421-004	Wipe	10/23/23
5	ARCH-C9E-DG-5.5 TO 6.5-231023-L-FB	494421-005	Wipe	10/23/23
6	ARCH-C9E-DG-5.5 TO 6.5-DN-C9.6-DG-231023-L-LA	494421-006	Wipe	10/23/23
7	ARCH-C8E-EXT-6 TO 7-231023-L-WF	494421-007	Wipe	10/23/23
8	ARCH-C8E-DG-6 TO 6.5-UP-C8.1-HS-231023-L-LA	494421-008	Wipe	10/23/23
9	ARCH-C9E-DG-6 TO 6.5-DN-C9.7-VS-231023-L-LA	494421-009	Wipe	10/23/23
10	ARCH-C11E-DG-6 TO 6.5-231023-L-FB	494421-010	Wipe	10/23/23
11	ARCH-C9E-PS-6.5-231023-L-G	494421-011	Wipe	10/23/23
12	ARCH-C11E-PS-6.5-231023-L-G	494421-012	Wipe	10/23/23
13	ARCH-C8E-INT-6.5 TO 7-231023-L-WF	494421-013	Wipe	10/23/23
14	ARCH-C8E-DG-7 TO 7.5-UP-C8.7-DG-231023-L-LA	494421-014	Wipe	10/23/23
15	ARCH-C9E-DG-7 TO 7.5-231023-L-FB	494421-015	Wipe	10/23/23
16	ARCH-C9E-DG-7 TO 7.5-DN-C9.2-VS-231023-L-LA	494421-016	Wipe	10/23/23
17	ARCH-C8E-DG-7.5 TO 8-DN-C8.6-VS-231023-L-LA	494421-017	Wipe	10/23/23

LDC #: 57826C4b**VALIDATION COMPLETENESS WORKSHEET**SDG #: 494421

Stage 3

Laboratory: Enthalpy Analytical, Orange, CADate: 11/15/2023Page: 2 of 2Reviewer: SC2nd Reviewer: ten**METHOD:** Lead (EPA SW-846 Method 6010B)

	Client ID	Lab ID	Matrix	Date
18	ARCH-C9E-DG-7.5 TO 8-DN-C9.3-VS-231023-L-LA	494421-018	Wipe	10/23/23
19	ARCH-C8E-DG-8 TO 9-DN-C8.6-VS-231023-L-LA	494421-019	Wipe	10/23/23
20	231023-L-FIELDBLANK2-LO	494421-020	Wipe	10/23/23
21	231023-L-MEDBLANK2-LO	494421-021	Wipe	10/23/23
22				
23				
24				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
I. Technical holding times				
Were all technical holding times met?	Yes			
Were all water samples preserved to a pH of <2.	Yes			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			NA	
Were %RSDs of isotopes in the tuning solution ≤5%?			NA	
III. Calibration				
Were all instruments calibrated daily?	Yes			
Were the proper standards used?	Yes			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	Yes			
Were the low level standard checks within 70-130%?			NA	
Were all initial calibration correlation coefficients within limits as specified by the method?	Yes			
IV. Interference Check Sample				
Were the interference check samples performed daily?	Yes			
Were the AB solution recoveries within 80-120%?	Yes			
V. Blanks				
Was a method blank associated with every sample in this SDG?	Yes			
Was there contamination in the method blanks?		No		
Was there contamination in the initial and continuing calibration blanks?	Yes			
VI. Field Blanks				
Were field blanks identified in this SDG?	Yes			
Were target analytes detected in the field blanks?		No		

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
VII. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			NA	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			NA	
IX. Serial Dilution				
Were all percent differences <10%?			NA	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			NA	
X. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	Yes			
Were the LCS recoveries and RPDs (if applicable)	Yes			
XI. Field Duplicates				
Were field duplicates identified in this SDG?			NA	
Were target analytes detected in the field duplicates?			NA	
VII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			NA	
If the recoveries were outside the limits, was a reanalysis performed?			NA	
XIII. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample	Yes			
Were all soil samples dry weight corrected?			NA	
XIV. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	Yes			

Interference Check Sample A

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020)

All interference check sample A standards were performed at the required frequency with no contamination present with the following exceptions:

Date	Time	Calibration ID	Analyte	Concentration (mg/L)	Limit	Associated Samples	Qualification*	Det/ND
10/24/2023	11:57	ICSA	Pb	0.006729	0.00333	All	No qual (sample interferents <ICSA)	Det = 1-19 ND = 20-21

Comments: *For 6010, qualification is only necessary when the interfering elements (Al, Ca, Fe, Mg) are >90% the level in the ICSA. The ICSA action level is established at 10x the absolute value of the contamination.

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted: ug/ft2

Associated Samples: 19-21

10/24/2023 15:42				Sample Identification								
Analyte	PB (units)	Maximum ICB/CCB (mg/L)	Action Level									
Pb		0.001836										

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

Standard ID	Type of Analysis	Element	Found (mg/L)	True (mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP	Pb	1.026	1	103	103	Y
CCV	ICP	↓	1.071	1	107	107	Y
LLCC	ICP						
ICSAB	ICP	↓	1.029	1	103	103	Y
ICV	ICP-MS						
CCV	ICP-MS						
LLCC	ICP-MS						
ICSAB	ICP-MS						
ICV	CVAA						
CCV	CVAA						

ICP-MS Tune	QC Parameter	Mass	Actual	Required
	Mass Axis			± 0.1 amu
	%RSD			≤ 5%

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value}(I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
QC1102279	LCS	Pb	111.3	100	111	111	Y
	MS						
QC1102279/80	Duplicate	↓	111.3	116	4	4	Y
	PDS						
	Serial dilution						

Sample Calculation Verification

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Analytes were recalculated and verified using the following equation:

Concentration = (Result from raw data x Final volume x Dilution factor) / (Percent solids x Initial weight)

Sample ID	Analyte	Raw Data (mg/L)	Dilution	Initial Weight/ Volume (ft2)	Final Volume (mL)	Percent solids (%)	Reported Result (ug/ft2)	Recalculated Result (ug/ft2)	Acceptable (Y/N)
1	Pb	1.28997858	1	1	50	100	64	64	Y
2	↓	0.5051472	1	1	50	100	25	25	Y
3	↓	1.49652788	1	1.0828	50	100	69	69	Y
4	↓	1.57031868	1	1.1104	50	100	71	71	Y
5	↓	0.7514651	1	1	50	100	38	38	Y
6	↓	1.75385893	1	1	50	100	88	88	Y
7	↓	1.68580564	1	1	50	100	84	84	Y
8	↓	4.56304727	1	1.02	50	100	220	224	Y
9	↓	1.83263513	1	1	50	100	92	92	Y
10	↓	1.11789605	1	1	50	100	56	56	Y
11	↓	1.13260122	1	1.0552	50	100	54	54	Y
12	↓	1.57452904	1	1.0828	50	100	73	73	Y
13	↓	0.54626592	1	1	50	100	27	27	Y
14	↓	2.3263693	1	1.02	50	100	110	114	Y
15	↓	0.51706363	1	1	50	100	26	26	Y
16	↓	1.97061964	1	1	50	100	99	99	Y
17	↓	1.00814927	1	1	50	100	50	50	Y
18	↓	2.25580561	1	1.02	50	100	110	111	Y
19	↓	1.67339176	1	1.02	50	100	82	82	Y
20	↓	ND	1	1	50	100	ND	ND	Y
21	↓	ND	1	1	50	100	ND	ND	Y

Quality Control Outlier Reports

~~494459~~

SDG# 494459 does not contain samples
collected in the Low Occupancy Area of Zone 5.

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826D3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 494459

Stage 3

Laboratory: Enthalpy Analytical, Orange, CA

Date: 12/18/23

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ / Δ	
II.	Initial calibration/ICV	Δ / Δ	% PSD ≤ 20 ICV ≤ 15
III.	Continuing calibration	Δ	CCV ≤ 15
IV.	Laboratory Blanks	Δ	
V.	Field blanks	ND	FB = 4
VI.	Surrogate spikes 15	Δ	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	Δ	LCS 10
IX.	Field duplicates	N	
X.	Target analyte quantitation	Δ	
XI.	Target analyte identification	Δ	
XII.	Overall assessment of data	Δ	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C8E-LAT-L2-EXT-0 TO 1-231023-P-WF	494459-003	Wipe	10/23/23
2	AFRAME-C9E-LAT-L2-UP-C9.1-VS-231023-P-I	494459-011	Wipe	10/23/23
3	AFRAME-C9E-MED-L2-INT-0 TO 0.5-231023-P-FB	494459-015	Wipe	10/23/23
4	231023-P-FIELDBLANK1-HO	494459-023	Wipe	10/23/23
5				
6				
7				
8				
9				
13				

Notes:

325199					

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826 D3b

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	☒	☐	☐	
Was cooler temperature criteria met?	☒	☐	☐	
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) $\leq$ 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	☒	☐	☐	
Were all percent differences (%D) $\leq$ 20%? <u>15%</u>	☒	☐	☐	
III. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) $\leq$ 20%? <u>15%</u>	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	☒	☐	☐	
Was a laboratory blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the laboratory blanks?	☐	☒	☐	
V. Field Blanks				
Were field blanks identified in this SDG?	☒	☐	☐	
Were target analytes detected in the field blanks?	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	☒	☐	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☐	☐	☒	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☐	☐	☐	

LDC #: 5782603h

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: FT

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		/		
Were target analytes detected in the field duplicates?			/	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	/			
Were manual integrations reviewed and found acceptable?	/			
Did the laboratory provide before and after integration printouts?	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes: _____

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD:PCB 8082

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

$$CF = A/C$$

$$\text{average CF} = \text{sum of the CF} / \text{number of standards}$$

$$\%RSD = 100 * (S/X)$$

Where:

A = Area of compound

C = Concentration of compound

S = Standard deviation of calibration factors

X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported 250ug/L	Recalculated 250ug/L	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	10/16/2023	Aroclor 1016-1 ChA	0.0226	0.0226	0.0217	0.0217	17	17
	GC06		Aroclor 1016-1 ChB	0.0186	0.0186	0.0185	0.0185	14	14

LDC #: 5782603b

VALIDATION FINDINGS WORKSHEET **Continuing Calibration Results Verification**

 Page: 1 of 1
 Reviewer: FT
METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$$

Where: ave. CF = initial calibration average CF
 CF = continuing calibration CF
 A = Area of target analyte
 C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/ Conc. CCV	CF/ Conc. CCV	%D	%D
1	6W	10/26/23 1237	Aroclor 1016 ch A	500.0	424.3	424.3	15	15
			B	500.0	428.3	428.3	14	14
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57826 D3b

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

 Page: 1 of 1
 Reviewer: FT
METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

 Where: SF = Surrogate Found
 SS = Surrogate Spiked
Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	Ch B	50.0	3428	69	69	0
DCB	↓	↓	28.9115	58	58	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Triphenyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 5782603b

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC}/\text{SA})$$
$$RPD = ((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD) * 100$$

Where SSC = Spiked sample concentration

LCS = Laboratory Control Sample

SA = Spike added

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 325199

[illegible]

Comments: _____

LDC #: 57826D3b**VALIDATION FINDINGS WORKSHEET**
Sample Calculation VerificationPage: 1 of 1
Reviewer: FTMETHOD: ☒ GC ☐ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$$

Example:

Sample ID: 325199-LCS Aroclor 1016

A= Area or height of the target analyte to be measured

Fv= Final Volume of extract

Df= Dilution Factor

RF= Average response factor of the target analyte
In the initial calibration

Vs= Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

$$\text{Concentration} = \frac{436.87 (10)}{(1) (1000)} =$$

$$= 4.3687 \text{ ug/100 cm}^2$$

#	Sample ID	Target analyte	Reported Concentrations (ug/100 cm ²)	Recalculated Results Concentrations ()	Qualifications
	LCS	Aroclor 1016	4.369		
	Aroclor 1016-1 =	5106613.02 (20.0)		1016-1 = 436.68	
		12642161.1 (0.0185)		2 = 442.0	
				3 = 426.0	
		= 436.68		4 = 441.4	
				5 = 438.2	
				436.87	

Comments: _____

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826D4b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 494459

Stage 3

Laboratory: Enthalpy Analytical, Orange, CA

Date: 12/18/2023

Page: 1 of 2

Reviewer: SC

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	SW	
V.	Field Blanks	SW	FB = 20, 21
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	SW	(3, 4), (7, 8)
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C9E-MED-L36-DN-C9.2-DG-231023-L-LA	494459-001	Wipe	10/23/23
2	AFRAME-C10E-MED-L2-HS-1-231023-L-G	494459-002	Wipe	10/23/23
3	AFRAME-C8E-LAT-L2-EXT-0 TO 1-231023-L-WF	494459-004	Wipe	10/23/23
4	AFRAME-C8E-LAT-L2-EXT-0 TO 1-231023-L-DUP-WF	494459-005	Wipe	10/23/23
5	AFRAME-C8E-LAT-L2-INT-0.5 TO 1-231023-L-FB	494459-006	Wipe	10/23/23
6	AFRAME-C8E-LAT-L2-UP-C8.1-VS-231023-L-I	494459-007	Wipe	10/23/23
7	AFRAME-C9E-LAT-L2-EXT-0 TO 1-231023-L-WF	494459-008	Wipe	10/23/23
8	AFRAME-C9E-LAT-L2-EXT-0 TO 1-231023-L-DUP-WF	494459-009	Wipe	10/23/23
9	AFRAME-C9E-LAT-L2-INT-0.5 TO 1-231023-L-FB	494459-010	Wipe	10/23/23
10	AFRAME-C9E-LAT-L2-UP-C9.1-VS-231023-L-I	494459-012	Wipe	10/23/23
11	AFRAME-C11E-MED-L2-INT-0.5 TO 1-231023-L-FB	494459-013	Wipe	10/23/23
12	AFRAME-C8E-MED-L2-DN-C8.2-DG-231023-L-LA	494459-014	Wipe	10/23/23
13	AFRAME-C9E-MED-L2-INT-0 TO 0.5-231023-L-FB	494459-016	Wipe	10/23/23
14	AFRAME-C9E-MED-L2-DN-C9.5-DG-231023-L-LA	494459-017	Wipe	10/23/23
15	AFRAME-C10E-MED-L2-INT-0 TO 0.5-231023-L-FB	494459-018	Wipe	10/23/23
16	AFRAME-C11E-MED-L2-EXT-0 TO 1-231023-L-WF	494459-019	Wipe	10/23/23
17	AFRAME-C8E-MED-L1-UP-C8.1-DG-231023-L-SS	494459-020	Wipe	10/23/23

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
I. Technical holding times				
Were all technical holding times met?	Yes			
Were all water samples preserved to a pH of <2.	Yes			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			NA	
Were %RSDs of isotopes in the tuning solution ≤5%?			NA	
III. Calibration				
Were all instruments calibrated daily?	Yes			
Were the proper standards used?	Yes			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	Yes			
Were the low level standard checks within 70-130%?			NA	
Were all initial calibration correlation coefficients within limits as specified by the method?	Yes			
IV. Interference Check Sample				
Were the interference check samples performed daily?	Yes			
Were the AB solution recoveries within 80-120%?	Yes			
V. Blanks				
Was a method blank associated with every sample in this SDG?	Yes			
Was there contamination in the method blanks?		No		
Was there contamination in the initial and continuing calibration blanks?		No		
VI. Field Blanks				
Were field blanks identified in this SDG?	Yes			
Were target analytes detected in the field blanks?	Yes			

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
VII. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			NA	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			NA	
IX. Serial Dilution				
Were all percent differences <10%?			NA	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			NA	
X. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	Yes			
Were the LCS recoveries and RPDs (if applicable)	Yes			
XI. Field Duplicates				
Were field duplicates identified in this SDG?	Yes			
Were target analytes detected in the field duplicates?	Yes			
VII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			NA	
If the recoveries were outside the limits, was a reanalysis performed?			NA	
XIII. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample	Yes			
Were all soil samples dry weight corrected?			NA	
XIV. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	Yes			

Interference Check Sample A

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020)

All interference check sample A standards were performed at the required frequency with no contamination present with the following exceptions:

Date	Time	Calibration ID	Analyte	Concentration (mg/L)	Limit	Associated Samples	Qualification*	Det/ND
10/24/2023	9:56	ICSA	Pb	-0.01152	0.003333	1-9, 14-16, 18,19	No qual (sample interferents <ICSA)	Det = All
10/24/2023	11:57	ICSA	Pb	0.006729	0.003333	10-13, 17, 20,21	No qual (sample interferents <ICSA)	Det= 10-13,17,20 ND= 21

Comments: *For 6010, qualification is only necessary when the interfering elements (Al, Ca, Fe, Mg) are >90% the level in the ICSA. The ICSA action level is established at 10x the absolute value of the contamination.

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted: ug/ft2

Associated Samples: 20,21

				Sample Identification							
Analyte	PB (units)	Maximum ICB/CCB (mg/L)	Action Level								
Pb		0.001836									

Comments: The listed analyte concentrtaion is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

Field Blank Contamination Report

Lab Reporting Batch ID: 494459

Laboratory: Enthalpy Orange

EDD Filename: Prep494459

Moffett_Hangar_1_NTCRA_Enthalpy_230919

Method: 6010B

Matrix: WIPE

Analyte	Sample	Concentration (ug/ft2)	Flag
LEAD	231023-L- FIELDBLANK1-HO	1.4	No Qualifiers Applied

Field Blanks

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Blank units: ug/ft2

Associated sample units: ug/ft2

Sampling Date: 10/23/2023

Associated Samples: 1-19, 21

			Sample Identification									
Analyte	Blank ID	Action Level										
	20											
Pb	1.4	7										

Comments:

Field Duplicate RPD Report

Lab Reporting Batch ID: 494459

Laboratory: Enthalpy Orange

EDD Filename: Prep494459

eQAPP Name:

Method: 6010B

Matrix: WIPE

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C9E-LAT-L2-EXT-0 TO 1-231023-L-	AFRAME-C9E-LAT-L2-EXT-0 TO 1-231023-L-			
LEAD	140	190	30	100.00	No Qualifiers Applied

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C8E-LAT-L2-EXT-0 TO 1-231023-L-	AFRAME-C8E-LAT-L2-EXT-0 TO 1-231023-L-			
LEAD	490	390	23	100.00	No Qualifiers Applied

Project Name and Number: 20-10491 - Hangar 1 NTCRA

11/20/2023 9:23:34 AM

ADR version 1.9.0.325

Page 1 of 1

Field Duplicates

Reviewer: JC

Method: Metals

Analyte	Concentration (ug/ft2)		RPD (≤100)	Qualifiers (Parents Only)
	3	4		
Lead	490	390	23	

Analyte	Concentration (ug/ft2)		RPD (≤100)	Qualifiers (Parents Only)
	7	8		
Lead	140	190	30	

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

Standard ID	Type of Analysis	Element	Found (mg/l)	True (mg/l)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP	Pb	1.068	1	107	107	Y
CCV	ICP	Pb	1.083	1	108	108	Y
LLCC	ICP						
ICSAB	ICP	Pb	1.026	1	103	103	Y
ICV	ICP-MS						
CCV	ICP-MS						
LLCC	ICP-MS						
ICSAB	ICP-MS						
ICV	CVAA						
CCV	CVAA						

ICP-MS Tune	QC Parameter	Mass	Actual	Required
	Mass Axis			± 0.1 amu
	%RSD			≤ 5%

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value } (I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
QC1102279	LCS	Pb	111.3	100	111	111	Y
	MS						
QC1102282/83	Duplicate	Pb	109.4	110.3	1	1	Y
	PDS						
	Serial dilution						

Sample Calculation Verification

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Analytes were recalculated and verified using the following equation:

Concentration = (Result from raw data x Final volume x Dilution factor) / (Initial volume)

Sample ID	Analyte	Raw Data (mg/L)	Dilution	Initial Weight/ Volume (ft2)	Final Volume (mL)	Reported Result (ug/ft2)	Recalculated Result (ug/ft2)	Acceptable (Y/N)
1	Pb	3.68188	1	1	50	180	184	Y
2	Pb	4.18846	1	1	50	210	209	Y
3	Pb	0.971865	10	1	50	490	486	Y
4	Pb	7.86726	1	1	50	390	393	Y
5	Pb	4.05075	1	1	50	200	203	Y
6	Pb	4.15312	1	1	50	210	208	Y
7	Pb	2.72995	1	1	50	140	136	Y
8	Pb	3.81032	1	1	50	190	191	Y
9	Pb	6.34179	1	1	50	320	317	Y
10	Pb	4.13950036	1	1	50	210	207	Y
11	Pb	5.44104811	1	1	50	270	272	Y
12	Pb	6.88854171	1	1	50	340	344	Y
13	Pb	4.74292363	1	1	50	240	237	Y
14	Pb	1.14217	10	1	50	570	571	Y
15	Pb	1.13395	10	1	50	570	567	Y
16	Pb	1.25104	10	1	50	630	626	Y
17	Pb	4.55186875	1	1	50	230	228	Y
18	Pb	1.16645	10	1	50	580	583	Y
19	Pb	1.05669	10	1	50	530	528	Y
20	Pb	0.02719503	1	1	50	1.4	1.4	Y
21	Pb	ND				ND	ND	Y

Quality Control Outlier Reports

~~494537~~

SDG# 494537 does not contain samples collected
in the Low Occupancy Area of Zone 5.

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826E3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 494537

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 11/20/2023

Page: 1 of 1

Reviewer: BSN

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	N	
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C8E-LAT-L1-HS-3-231024-P-A	494537-002	Wipe	10/24/23
2	AFRAME-C9E-MED-L1-UP-C9.6-DG-231024-P-SS	494537-007	Wipe	10/24/23
3	AFRAME-C8E-LAT-L3-UP-C8.6-HS-231024-P-LA	494537-022	Wipe	10/24/23
4	AFRAME-C10E-LAT-L3-EXT-0 TO 1-231024-P-WF	494537-026	Wipe	10/24/23
5	AFRAME-C8E-MED-L2-HS-1-231024-P-G	494537-029	Wipe	10/24/23
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826E4b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 494537

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 11/16/2023

Page: 1 of 2

Reviewer: JC

2nd Reviewer: JZ

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	A	
V.	Field Blanks	SW	FB = 27, 28, 29, 30
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LC5/LC5D
X.	Field Duplicates	SW	(10, 11), (17, 18), (23, 24)
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C9E-LAT-L3-DN-C9.5-DG-231024-L-LA	494537-001	Wipe	10/24/23
2	AFRAME-C8E-LAT-L1-HS-3-231024-L-A	494537-003	Wipe	10/24/23
3	AFRAME-C8E-MED-L1-UP-C8.6-DG-231024-L-SS	494537-004	Wipe	10/24/23
4	AFRAME-C9E-LAT-L1-HS-3-231024-L-A	494537-005	Wipe	10/24/23
5	AFRAME-C9E-LAT-L1-UP-C9.7-VS-231024-L-I	494537-006	Wipe	10/24/23
6	AFRAME-C9E-MED-L1-UP-C9.6-DG-231024-L-SS	494537-008	Wipe	10/24/23
7	AFRAME-C10E-LAT-L1-HS-3-231024-L-A	494537-009	Wipe	10/24/23
8	AFRAME-C11E-MED-L1-HS-3-231024-L-A	494537-010	Wipe	10/24/23
9	AFRAME-C9E-MED-L1-UP-C9E-DG-231024-L-LA	494537-011	Wipe	10/24/23
10	AFRAME-C9E-LAT-L1-INT-1 TO 2-231024-L-FB	494537-012	Wipe	10/24/23
11	AFRAME-C9E-LAT-L1-INT-1 TO 2-231024-L-DUP-FB	494537-013	Wipe	10/24/23
12	AFRAME-C11E-LAT-L1-INT-1 TO 2-231024-L-FB	494537-014	Wipe	10/24/23
13	AFRAME-C8E-MED-L1-DN-C8.7-DG-231024-L-SS	494537-015	Wipe	10/24/23
14	AFRAME-C9E-MED-L1-EXT-0 TO 1-231024-L-WF	494537-016	Wipe	10/24/23
15	AFRAME-C9E-MED-L1-DN-C9.7-DG-231024-L-SS	494537-017	Wipe	10/24/23
16	AFRAME-C9E-MED-L1-DN-C9E-DG-231024-L-SS	494537-018	Wipe	10/24/23
17	AFRAME-C9E-MED-L3-EXT-1 TO 2-231024-L-WF	494537-019	Wipe	10/24/23

LDC #: 57826E4b

VALIDATION COMPLETENESS WORKSHEET

Date: 11/16/2023

SDG #: 494537

Stage 2A

Page: 2 of 2

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer: JC

2nd Reviewer: BSN

METHOD: Lead (EPA SW-846 Method 6010B)

	Client ID	Lab ID	Matrix	Date
18	AFRAME-C9E-MED-L3-EXT-1 TO 2-231024-L-DUP-WF	494537-020	Wipe	10/24/23
19	AFRAME-C9E-MED-L3-UP-C9.7-DG-231024-L-LA	494537-021	Wipe	10/24/23
20	AFRAME-C8E-LAT-L3-UP-C8.6-HS-231024-L-LA	494537-023	Wipe	10/24/23
21	AFRAME-C8E-MED-L3-UP-C8.4-DG-231024-L-LA	494537-024	Wipe	10/24/23
22	AFRAME-C9E-LAT-L3-UP-C9.1-HS-231024-L-LA	494537-025	Wipe	10/24/23
23	AFRAME-C10E-LAT-L3-EXT-0 TO 1-231024-L-WF	494537-027	Wipe	10/24/23
24	AFRAME-C10E-LAT-L3-EXT-0 TO 1-231024-L-DUP-WF	494537-028	Wipe	10/24/23
25	AFRAME-C8E-MED-L2-HS-1-231024-L-G	494537-030	Wipe	10/24/23
26	AFRAME-C8E-MED-L3-DN-C8.7-DG-231024-L-LA	494537-031	Wipe	10/24/23
27	231024-L-FIELDBLANK2-HO	494537-032	Wipe	10/24/23
28	231024-L-MEDBLANK2-HO	494537-033	Wipe	10/24/23
29	231024-L-FIELDBLANK3-HO	494537-034	Wipe	10/24/23
30	231024-L-MEDBLANK3-HO	494537-035	Wipe	10/24/23
31	AFRAME-C9E-LAT-L1-UP-C9.1-VS-231024-L-I	494537-036	Wipe	10/24/23
32				
33				
34				

Notes:

Field Blank Contamination Report

Lab Reporting Batch ID: 494537

Laboratory: Enthalpy Orange

EDD Filename: Prep494537

Moffett_Hangar_1_NTCRA_Enthalpy_230919

Method: 6010B

Matrix: WIPE

Analyte	Sample	Concentration (ug/ft2)	Flag
LEAD	231024-L-FIELDBLANK2-HO	1.0	No Qualifiers Applied
	231024-L-FIELDBLANK3-HO	1.4	

Field Duplicate RPD Report

Lab Reporting Batch ID: 494537

Laboratory: Enthalpy Orange

EDD Filename: Prep494537

eQAPP Name:

Method: 6010B

Matrix: WIPE

Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C9E-LAT-L1-INT-1 TO 2-231024-L-	AFRAME-C9E-LAT-L1-INT-1 TO 2-231024-L-			
LEAD	95	120	23	100.00	No Qualifiers Applied
Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C9E-MED-L3-EXT-1 TO 2-231024-	AFRAME-C9E-MED-L3-EXT-1 TO 2-231024-			
LEAD	34	34	0	100.00	No Qualifiers Applied
Analyte	Concentration (ug/ft2)		Sample RPD	eQAPP RPD	Flag
	AFRAME-C10E-LAT-L3-EXT-0 TO 1-231024-	AFRAME-C10E-LAT-L3-EXT-0 TO 1-231024-			
LEAD	42	41	2	100.00	No Qualifiers Applied

Quality Control Outlier Reports

494547

(No Outliers)

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826F4b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 494547

Stage 2A

Laboratory: Enthalpy Analytical, Orange, CA

Date: 11/16/2023

Page: 1 of 1

Reviewer: JC

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C11E-EXT-8 TO 9-231024-L-WF	49547-001	Wipe	10/24/23
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

Quality Control Outlier Reports

~~494548~~

SDG# 494548 does not contain samples collected
in the Low Occupancy Area of Zone 5.

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826G3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 494548

Stage 3

Laboratory: Enthalpy Analytical, Orange, CA

Date: 11/18/23

Page: 1 of 1

Reviewer: FJ

2nd Reviewer: Ben

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ/Δ	
II.	Initial calibration/ICV	Δ/Δ	% RSD ≤ 20 ICV ≤ 15
III.	Continuing calibration	Δ	CCV ≤ 15
IV.	Laboratory Blanks	Δ	
V.	Field blanks	N	
VI.	Surrogate spikes 1/5	Δ	
VII.	Matrix spike/Matrix spike duplicates	N	CD
VIII.	Laboratory control samples	Δ	100% ID
IX.	Field duplicates	ND	D = 1, 2
X.	Target analyte quantitation	Δ	
XI.	Target analyte identification	Δ	
XII.	Overall assessment of data	Δ	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C8E-LAT-L3-UP-C8.1-DG-231024-P-LA D	494548-001	Wipe	10/24/23
2	AFRAME-C8E-LAT-L3-UP-C8.1-DG-231024-P-DUP-LA P	494548-002	Wipe	10/24/23
3	AFRAME-C9E-LAT-L3-UP-C9.4-VS-231024-P-LA	494548-004	Wipe	10/24/23
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

35199				

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57824 937

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT

Method: ☒ GC ☐ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	☒	☐	☐	
Was cooler temperature criteria met?	☒	☐	☐	
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	☒	☐	☐	
Were all percent differences (%D) < 20%? <u>15% PA</u>	☒	☐	☐	
III. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20%? <u>15% PA</u>	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	☒	☐	☐	
Was a laboratory blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the laboratory blanks?	☐	☒	☐	
V. Field Blanks				
Were field blanks identified in this SDG?	☐	☒	☐	
Were target compounds detected in the field blanks?	☐	☐	☒	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	☒	☐	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☐	☐	☒	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Field duplicates				

LDC #: 5782493b

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: FT

Were field duplicate pairs identified in this SDG?	/			
Were target compounds detected in the field duplicates?		/		
X. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?				
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes: _____

LDC #: _57826G3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: __1__ of __1__

Reviewer: ____FT____

METHOD:PCB 8082

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

$CF = A/C$

average CF = sum of the CF/number of standards

$\%RSD = 100 * (S/X)$

Where:

A = Area of compound

C = Concentration of compound

S = Standard deviation of calibration factors

X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported 250ug/L	Recalculated 250ug/L	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	10/16/2023	Aroclor 1016-1 ChA	0.0226	0.0226	0.0217	0.0217	17	17
	GC06		Aroclor 1016-1 ChB	0.0186	0.0186	0.0185	0.0185	14	14

LDC #: 57826 93b**VALIDATION FINDINGS WORKSHEET**
Continuing Calibration Results VerificationPage: 1 of 1
Reviewer: FTMETHOD: GC ✓ HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$

Where: ave. CF = initial calibration average CF

CF = continuing calibration CF

A = Area of compound

C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/ Conc. CCV	CF/ Conc. CCV	%D	%D
1	CCV 9c06	10/26/23 1237	Araclof 1016	300.0	424.3	424.3	15	15
			↓	500.0	452.7	452.7	9	9
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 5782693b

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCM X	ch B	50.0	37.6392	75	75	0
PCB	↓	↓	34.2018	68	68	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Surrogate Compound	Surrogate Compound	Surrogate Compound	Surrogate Compound	Surrogate Compound	Surrogate Compound	Surrogate Compound	Surrogate Compound	Surrogate Compound
A Chlorobenzene (CBZ)	G Octacosane	M Benzo(e)Pyrene	S 1-Chloro-3-Nitrobenzene	Y Tetrachloro-m- xylene				
B 4-Bromofluorobenzene (BFB)	H Ortho-Terphenyl	N Terphenyl-D14	T 3,4-Dinitrotoluene	Z 2-Bromonaphthalene				
C a,a,a-Trifluorotoluene	I Fluorobenzene (FBZ)	O Decachlorobiphenyl (DCB)	U Triphenyltin	AA Chloro-octadecane				
D Bromochlorobenzene	J n-Triacontane	P 1-methylnaphthalene	V Tri-n-propyltin	BB 2,4-Dichlorophenylacetic acid				
E 1,4-Dichlorobutane	K Hexacosane	Q Dichlorophenyl Acetic Acid (DCAA)	W Tributyl Phosphate	CC 2,5-Dibromotoluene				
F 1,4-Difluorobenzene (DFB)	L Bromobenzene	R 4-Nitrophenol	X Triphenyl Phosphate					

LDC #: 5782643b

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1Laboratory Control Sample/Laboratory Control Sample Duplicates Results VerificationReviewer: FTMETHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

 $\% \text{Recovery} = 100 * (\text{SSC} / \text{SA})$ $\text{RPD} = ((\text{SSCLCS} - \text{SSCLCSD}) * 2) / (\text{SSCLCS} + \text{SSCLCSD}) * 100$

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample

SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 325199-LCS/D

Compound	Spike Added (<u>1 ug/100µm²</u>)		Spike Sample Concentration (<u>1 ug/100µm²</u>)		LCS		LCSD		LCS/LCSD	
					Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1016	5.0	5.0	4.369	4.283	87	87	86	86	✓	✓

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57826 93b

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 1 of 1
Reviewer: FT

METHOD: ✓ GC HPLC

Y N N/A
Y N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$

Example:

Sample ID. 325199-10 Compound Name Aroclor 1016

A= Area or height of the compound to be measured

Fv= Final Volume of extract

Df= Dilution Factor

RF= Average response factor of the compound
In the initial calibration

Vs= Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

Concentration = $\frac{436.86 (10)}{(1.0) (1000)} =$

$= 4.369 \text{ ug} / 100 \text{ cm}^2$

#	Sample ID	Compound	Reported Concentrations ($\text{ug} / 100 \text{ cm}^2$)	Recalculated Results Concentrations ($\text{ug} / 100 \text{ cm}^2$)	Qualifications
	<u>Aroclor 1016</u>	<u>Aroclor 1016</u>	<u>4.369</u>	<u>4.369</u>	
	<u>LES</u>				
					<u>1016-1 = 436.7</u>
	<u>Aroclor 1016-1 =</u>	<u>5106613.02</u>	<u>(20.0)</u>	<u>= 436.7</u>	<u>2 442.0</u>
		<u>12642161.1</u>	<u>(0.0185)</u>		<u>3 4260</u>
					<u>4 441.4</u>
					<u>5 438.2</u>
					<u>436.86</u>

Comments: _____

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

LDC #: 57826G4b

VALIDATION COMPLETENESS WORKSHEET

SDG #: 494548

Stage 3

Laboratory: Enthalpy Analytical, Orange, CA

Date: 11/16/2023

Page: 1 of 1

Reviewer: JC

2nd Reviewer: Bn

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C8E-LAT-L3-UP-C8.1-DG-231024-L-LA	494548-003	Wipe	10/24/23
2	AFRAME-C9E-LAT-L3-UP-C9.4-VS-231024-L-LA	494548-005	Wipe	10/24/23
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
I. Technical holding times				
Were all technical holding times met?	Yes			
Were all water samples preserved to a pH of <2.	Yes			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			NA	
Were %RSDs of isotopes in the tuning solution ≤5%?			NA	
III. Calibration				
Were all instruments calibrated daily?	Yes			
Were the proper standards used?	Yes			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	Yes			
Were the low level standard checks within 70-130%?			NA	
Were all initial calibration correlation coefficients within limits as specified by the method?	Yes			
IV. Interference Check Sample				
Were the interference check samples performed daily?	Yes			
Were the AB solution recoveries within 80-120%?	Yes			
V. Blanks				
Was a method blank associated with every sample in this SDG?	Yes			
Was there contamination in the method blanks?		No		
Was there contamination in the initial and continuing calibration blanks?		No		
VI. Field Blanks				
Were field blanks identified in this SDG?			NA	
Were target analytes detected in the field blanks?			NA	

The line item for field blanks includes all blank samples collected in the field (i.e., field blank and/or media blank samples).

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
VII. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			NA	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			NA	
IX. Serial Dilution				
Were all percent differences <10%?			NA	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			NA	
X. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	Yes			
Were the LCS recoveries and RPDs (if applicable)	Yes			
XI. Field Duplicates				
Were field duplicates identified in this SDG?			NA	
Were target analytes detected in the field duplicates?			NA	
VII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			NA	
If the recoveries were outside the limits, was a reanalysis performed?			NA	
XIII. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample	Yes			
Were all soil samples dry weight corrected?			NA	
XIV. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	Yes			

Interference Check Sample A

Reviewer: JC

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020)

All interference check sample A standards were performed at the required frequency with no contamination present with the following exceptions:

Date	Time	Calibration ID	Analyte	Concentration (mg/L)	Limit	Associated Samples	Qualification*	Det/ND
10/25/2023	14:38	ICSA	Pb	-0.007747	0.00333	All	No qual (sample interferents <ICSA)	Det

Comments: *For 6010, qualification is only necessary when the interfering elements (Al, Ca, Fe, Mg) are >90% the level in the ICSA. The ICSA action level is established at 10x the absolute value of the contamination.

VALIDATION FINDINGS CHECKLIST
Calibration Calculation Verification

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

Standard ID	Type of Analysis	Element	Found (mg/L)	True (mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP	Pb	1.011	1	101.1	101	Y
CCV	ICP	↓	0.9892	1	99	99	Y
LLCC	ICP						
ICSAB	ICP	↓	1.038	1	104	104	Y
ICV	ICP-MS						
CCV	ICP-MS						
LLCC	ICP-MS						
ICSAB	ICP-MS						
ICV	CVAA						
CCV	CVAA						

ICP-MS Tune	QC Parameter	Mass	Actual	Required
	Mass Axis			± 0.1 amu
	%RSD			≤ 5%

VALIDATION FINDINGS CHECKLIST
Quality Control Sample Recalculations

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value } (I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
QC1102571	LCS	Pb	44.38	50	89	89	Y
	MS						
QC1102571/72	Duplicate	Pb	44.38	44.86	1	1	Y
	PDS						
	Serial dilution						

VALIDATION FINDINGS CHECKLIST
Sample Calculation Verification

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Analytes were recalculated and verified using the following equation:

$$\text{Concentration} = (\text{Result from raw data} \times \text{Final volume} \times \text{Dilution factor}) / (\text{Percent solids} \times \text{Initial weight})$$

Sample ID	Analyte	Raw Data (mg/L)	Dilution	Initial Weight/ Volume (ft2)	Final Volume (mL)	Percent solids (%)	Reported Result (ug/ft2)	Recalculated Result (ug/ft2)	Acceptable (Y/N)
1	Pb	1.03206928	1	1	50	100	52	52	Y
2	↓	1.46107856	1	1	50	100	73	73	Y

Attachment 6

Clearance Sampling Summary and Laboratory Reports



Clearance Wipe Sampling Results - Zone 5

Hangar 1 NTCRA
Former Naval Air Station Moffett Field, California

				Lead	PCBs [d]									
				Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	
LocationID [a]	Sample Date	Zone	Enclosure	µg/ft²	Concentration - µg/100 cm²									
Clearance Goal				<250	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10	
CLEAR-ARCH-C9W-DG-2 TO 2.5-230918-FB	09/18/2023	5	C/D	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-SCAF-Z5ECD-L25-230918	09/18/2023	5	C/D	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L25-230918	09/18/2023	5	C/D	71	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ARCH-C9W-PS-3.5-230918-G	09/18/2023	5	C/D	26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-SCAF-Z5ECD-L21-230918	09/18/2023	5	C/D	350	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L21-230918 [c]	09/18/2023	5	C/D	1500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L21-230920	09/20/2023	5	C/D	10	--	--	--	--	--	--	--	--	--	
CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-FB	09/18/2023	5	C/D	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-DUP-FB	09/18/2023	5	C/D	200	--	--	--	--	--	--	--	--	--	
CLEAR-SCAF-Z5ECD-L19-230918 [c]	09/18/2023	5	C/D	520	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.58	
CLEAR-SCAF-Z5ECD-L19-230920	09/20/2023	5	C/D	13	--	--	--	--	--	--	--	--	--	
CLEAR-ENC-Z5ECD-L19-230918	09/18/2023	5	C/D	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230918-LA	09/18/2023	5	C/D	340	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-SCAF-Z5ECD-L16-230918	09/18/2023	5	C/D	440	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L16-230918	09/18/2023	5	C/D	220	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ARCH-C8W-EXT-6 TO 7-230918-WF [c]	09/18/2023	5	C/D	530	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ARCH-C8W-EXT-6 TO 7-230920-WF	09/20/2023	5	C/D	5.6	--	--	--	--	--	--	--	--	--	
CLEAR-SCAF-Z5ECD-L14-230918 [c]	09/18/2023	5	C/D	620	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-SCAF-Z5ECD-L14-230920	09/20/2023	5	C/D	6.7	--	--	--	--	--	--	--	--	--	
CLEAR-ENC-Z5ECD-L14-230918	09/18/2023	5	C/D	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230919-LA	09/19/2023	5	C/D	86	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-SCAF-Z5ECD-L12-230919	09/19/2023	5	C/D	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L12-230919	09/19/2023	5	C/D	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230919-LA	09/19/2023	5	C/D	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-SCAF-Z5ECD-L10-230919	09/19/2023	5	C/D	210	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L10-230919	09/19/2023	5	C/D	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L10-230919-DUP	09/19/2023	5	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-AFRAME-C9W-LAT-L3-EXT-1 TO 2-230919-WF	09/19/2023	5	C/D	280	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-AFRAME-C9W-LAT-L3-EXT-1 TO 2-230919-DUP-WF	09/19/2023	5	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-SCAF-Z5ECD-L7-230919	09/19/2023	5	C/D	690	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L7-230919	09/19/2023	5	C/D	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-AFRAME-C9W-LAT-L2-UP-C9.7-VS-230920-I	09/20/2023	5	C/D	9.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-SCAF-Z5ECD-L4-230920	09/20/2023	5	C/D	94	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L4-230920	09/20/2023	5	C/D	39	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L4-230920-DUP	09/20/2023	5	C/D	29	--	--	--	--	--	--	--	--	--	
CLEAR-AFRAME-C8W-MED-L1-EXT-1 TO 2-230920-WF	09/20/2023	5	C/D	61	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-SCAF-Z5ECD-L1-230920	09/20/2023	5	C/D	54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-ENC-Z5ECD-L1-230920	09/20/2023	5	C/D	43	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-FIELDBLANK-230918-LO	09/18/2023	5	C/D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-MEDBLANK-230918-LO	09/18/2023	5	C/D	<0.50	--	--	--	--	--	--	--	--	--	
CLEAR-FIELDBLANK-230919-HO	09/19/2023	5	C/D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
CLEAR-MEDBLANK-230919-HO	09/19/2023	5	C/D	<0.50	--	--	--	--	--	--	--	--	--	
Average Clearance Result: Zone 5 Enclosure C/D [b]				138	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.58	
CLEAR-ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231027-LA	10/27/2023	5	A/B	8.9	--	--	--	--	--	--	--	--	--	
CLEAR-SCAF-Z5EAB-L25-231027	10/27/2023	5	A/B	39	--	--	--	--	--	--	--	--	--	
CLEAR-ENC-Z5EAB-L25-231027	10/27/2023	5	A/B	13	--	--	--	--	--	--	--	--	--	
CLEAR-ARCH-C10E-INT-2.5 TO 3.5-231027-WF	10/27/2023	5	A/B	68	--	--	--	--	--	--	--	--	--	
CLEAR-SCAF-Z5EAB-L22-231027	10/27/2023	5	A/B	200	--	--	--	--	--	--	--	--	--	
CLEAR-ENC-Z5EAB-L22-231027	10/27/2023	5	A/B	140	--	--	--	--	--	--	--	--	--	
CLEAR-ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231027-LA	10/27/2023	5	A/B	31	--	--	--	--	--	--	--	--	--	
CLEAR-ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231027-LA-DUP	10/27/2023	5	A/B	26	--	--	--	--	--	--	--	--	--	
CLEAR-SCAF-Z5EAB-L19-231027	10/27/2023	5	A/B	29	--	--	--	--	--	--	--	--	--	



Clearance Wipe Sampling Results - Zone 5

Hangar 1 NTCRA
Former Naval Air Station Moffett Field, California

				Lead	PCBs [d]								
				Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
LocationID [a]	Sample Date	Zone	Enclosure	µg/ft ²	Concentration - µg/100 cm ²								
Clearance Goal				<250	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10
CLEAR-ENC-Z5EAB-L19-231027	10/27/2023	5	A/B	71	--	--	--	--	--	--	--	--	--
CLEAR-ARCH-C8E-PS-5.5-231031-G [c]	10/31/2023	5	A/B	260	--	--	--	--	--	--	--	--	--
CLEAR-ARCH-C8E-PS-5.5-231103-G	11/03/2023	5	A/B	190	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L16-231031 [c]	10/31/2023	5	A/B	1200	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L16-231103 [c]	11/03/2023	5	A/B	1800-b	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L16-231108	11/08/2023	5	A/B	150	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L16-231031	10/31/2023	5	A/B	150	--	--	--	--	--	--	--	--	--
CLEAR-ARCH-C8E-EXT-6 TO 7-231031-WF [c]	10/31/2023	5	A/B	2100	--	--	--	--	--	--	--	--	--
CLEAR-ARCH-C8E-EXT-6 TO 7-231103-WF [c]	11/03/2023	5	A/B	540-b	--	--	--	--	--	--	--	--	--
CLEAR-ARCH-C8E-EXT-6 TO 7-231108-WF	11/08/2023	5	A/B	57	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L14-231031	10/31/2023	5	A/B	210	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L14-231031 [c]	10/31/2023	5	A/B	260	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L14-231103	11/03/2023	5	A/B	36	--	--	--	--	--	--	--	--	--
CLEAR-ARCH-C9E-PS-6.5-231031-G	10/31/2023	5	A/B	86	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L12-231031 [c]	10/31/2023	5	A/B	590	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L12-231103	11/03/2023	5	A/B	180	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L12-231031 [c]	10/31/2023	5	A/B	300	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L12-231103	11/03/2023	5	A/B	71	--	--	--	--	--	--	--	--	--
CLEAR-ARCH-C9E-DG-7 TO 7.5-231031-FB	10/31/2023	5	A/B	30	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L10-231031 [c]	10/31/2023	5	A/B	400	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L10-231103 [c]	11/03/2023	5	A/B	790-b	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L10-231108	11/08/2023	5	A/B	320	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L10-231031 [c]	10/31/2023	5	A/B	1100	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L10-231103 [c]	11/03/2023	5	A/B	320	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L10-231108	11/08/2023	5	A/B	140	--	--	--	--	--	--	--	--	--
CLEAR-AFRAME-C9E-LAT-L3-UP-C9.4-VS-231031-LA [c]	10/31/2023	5	A/B	570	--	--	--	--	--	--	--	--	--
CLEAR-AFRAME-C9E-LAT-L3-UP-C9.4-VS-231103-LA [c]	11/03/2023	5	A/B	820-b	--	--	--	--	--	--	--	--	--
CLEAR-AFRAME-C9E-LAT-L3-UP-C9.4-VS-231108-LA	11/08/2023	5	A/B	280	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L7-231031 [c]	10/31/2023	5	A/B	1800	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L7-231103 [c]	11/03/2023	5	A/B	1200-b	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L7-231108	11/08/2023	5	A/B	360	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L7-231031	10/31/2023	5	A/B	98	--	--	--	--	--	--	--	--	--
CLEAR-AFRAME-C8E-LAT-L2-UP-C8.1-VS-231031-I [c]	10/31/2023	5	A/B	370	--	--	--	--	--	--	--	--	--
CLEAR-AFRAME-C8E-LAT-L2-UP-C8.1-VS-231103-I	11/03/2023	5	A/B	170	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L4-231031 [c]	10/31/2023	5	A/B	640	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L4-231103 [c]	11/03/2023	5	A/B	1400-b	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L4-231108	11/08/2023	5	A/B	290	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L4-231031 [c]	10/31/2023	5	A/B	280	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L4-231103 [c]	11/03/2023	5	A/B	380	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L4-231108	11/08/2023	5	A/B	21	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L4-231031-DUP [c]	10/31/2023	5	A/B	270	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L4-231103-DUP [c]	11/03/2023	5	A/B	320	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L4-231108-DUP	11/08/2023	5	A/B	22	--	--	--	--	--	--	--	--	--
CLEAR-AFRAME-C11E-LAT-L1-INT-1 TO 2-231031-FB [c]	10/31/2023	5	A/B	780	--	--	--	--	--	--	--	--	--
CLEAR-AFRAME-C11E-LAT-L1-INT-1 TO 2-231103-FB	11/03/2023	5	A/B	240	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L1-231031 [c]	10/31/2023	5	A/B	380	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L1-231103	11/03/2023	5	A/B	1000-b	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z5EAB-L1-231108	11/08/2023	5	A/B	120	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L1-231031 [c]	10/31/2023	5	A/B	1000	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z5EAB-L1-231103 [c]	11/03/2023	5	A/B	95	--	--	--	--	--	--	--	--	--
CLEAR-MEDBLANK-231031-LO	10/31/2023	5	A/B	<0.50	--	--	--	--	--	--	--	--	--
CLEAR-FIELDBLANK-231031-LO	10/31/2023	5	A/B	<0.50	--	--	--	--	--	--	--	--	--



Clearance Wipe Sampling Results - Zone 5

Hangar 1 NTCRA
Former Naval Air Station Moffett Field, California

				Lead	PCBs [d]								
				Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
LocationID [a]	Sample Date	Zone	Enclosure	µg/ft²	Concentration - µg/100 cm²								
Clearance Goal				<250	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10
CLEAR-MEDBLANK-231031-HO	10/31/2023	5	A/B	<0.50	--	--	--	--	--	--	--	--	--
CLEAR-FIELDBLANK-231031-HO	10/31/2023	5	A/B	<0.50	--	--	--	--	--	--	--	--	--
Average Clearance Result: Zone 5 Enclosure A/B [b]				130	--	--	--	--	--	--	--	--	--

Acronyms and Abbreviations:

b: High recovery in an ICS for lead, however there were no relevant interferences present in the project samples or QC samples. Data quality was not affected by this detection.

ICS: Interference check standard

NTCRA: Non-Time Critical Removal Action

PCBs: Polychlorinated Biphenyls

$\mu\text{g}/100\text{ cm}^2$: micrograms per 100 square centimeters

$\mu\text{g}/\text{ft}^2$: micrograms per square foot

QC: Quality Control

--: Not collected/not applicable

Notes:

[a] Location ID corresponds to field ID in the Laboratory Analytical Reports.

[b] Media blank, field blank, and the lower of the duplicate clearance wipe sampling results were not used to calculate the average concentrations within the enclosure. Because PCBs were only reported above the laboratory analytical reporting limit in one of the clearance wipe samples, the values presented for the average concentration of PCBs are the maximum of the analytical reporting limits for each Aroclor, except in the case of Aroclor 1268 where the average concentration is equivalent to the reported value for Aroclor 1268 in the one clearance wipe sample.

[c] The indicated location was re-cleaned and re-sampled. The original clearance sampling result and locations that were re-cleaned and re-sampled were not included in the calculation of the average concentration.

[d] In accordance with the Agency approved PCB Wipe Sampling Reduction Memorandum dated September 13, 2023, PCB clearance wipe samples were not collected within Zone 5 Enclosure A/B.

Bolded values indicate constituents detected above laboratory reporting limits.

Shaded values indicate constituents reported at concentrations above the Clearance Goal.



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 492446
Report Level: II
Report Date: 09/26/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

Miguel Gamboa, Project Coordinator
miguel.gamboa@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 492446
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 09/18/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C9W-DG-2 TO 2.5-230918-P-FB	492446-001	09/18/23 07:35	Wipe
CLEAR-ARCH-C9W-DG-2 TO 2.5-230918-L-FB	492446-002	09/18/23 07:35	Wipe
CLEAR-SCAF-Z5ECD-L25-230918-P	492446-003	09/18/23 07:40	Wipe
CLEAR-SCAF-Z5ECD-L25-230918-L	492446-004	09/18/23 07:40	Wipe
CLEAR-ENC-Z5ECD-L25-230918-P	492446-005	09/18/23 07:45	Wipe
CLEAR-ENC-Z5ECD-L25-230918-L	492446-006	09/18/23 07:45	Wipe
CLEAR-ARCH-C9W-PS-3.5-230918-P-G	492446-007	09/18/23 07:45	Wipe
CLEAR-ARCH-C9W-PS-3.5-230918-L-G	492446-008	09/18/23 07:45	Wipe
CLEAR-SCAF-Z5ECD-L21-230918-P	492446-009	09/18/23 07:50	Wipe
CLEAR-SCAF-Z5ECD-L21-230918-L	492446-010	09/18/23 07:50	Wipe
CLEAR-ENC-Z5ECD-L21-230918-P	492446-011	09/18/23 07:55	Wipe
CLEAR-ENC-Z5ECD-L21-230918-L	492446-012	09/18/23 07:55	Wipe
CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-P-FB	492446-013	09/18/23 08:05	Wipe
CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-L-FB	492446-014	09/18/23 08:05	Wipe
CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-L-DUP-FB	492446-015	09/18/23 08:05	Wipe
CLEAR-SCAF-Z5ECD-L19-230918-P	492446-016	09/18/23 08:10	Wipe
CLEAR-SCAF-Z5ECD-L19-230918-L	492446-017	09/18/23 08:10	Wipe
CLEAR-ENC-Z5ECD-L19-230918-P	492446-018	09/18/23 08:15	Wipe
CLEAR-ENC-Z5ECD-L19-230918-L	492446-019	09/18/23 08:15	Wipe
CLEAR-ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230918-P-LA	492446-020	09/18/23 12:15	Wipe

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 492446
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 09/18/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230918-L-LA	492446-021	09/18/23 12:15	Wipe
CLEAR-SCAF-Z5ECD-L16-230918-P	492446-022	09/18/23 12:20	Wipe
CLEAR-SCAF-Z5ECD-L16-230918-L	492446-023	09/18/23 12:20	Wipe
CLEAR-ENC-Z5ECD-L16-230918-P	492446-024	09/18/23 12:25	Wipe
CLEAR-ENC-Z5ECD-L16-230918-L	492446-025	09/18/23 12:25	Wipe
CLEAR-ARCH-C8W-EXT-6 TO 7-230918-P-WF	492446-026	09/18/23 12:40	Wipe
CLEAR-ARCH-C8W-EXT-6 TO 7-230918-L-WF	492446-027	09/18/23 12:40	Wipe
CLEAR-SCAF-Z5ECD-L14-230918-P	492446-028	09/18/23 12:45	Wipe
CLEAR-SCAF-Z5ECD-L14-230918-L	492446-029	09/18/23 12:45	Wipe
CLEAR-ENC-Z5ECD-L14-230918-P	492446-030	09/18/23 12:50	Wipe
CLEAR-ENC-Z5ECD-L14-230918-L	492446-031	09/18/23 12:50	Wipe
CLEAR-FIELDBLANK-230918-P-LO	492446-032	09/18/23 07:40	Wipe
CLEAR-FIELDBLANK-230918-L-LO	492446-033	09/18/23 07:40	Wipe
CLEAR-MEDBLANK-230918-L-LO	492446-034	09/18/23 09:05	Wipe
TRIP BLANK	492446-035	09/18/23 00:00	Water

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 492446
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 09/18/23

This data package contains sample and QC results for thirty four wipe samples, requested for the above referenced project on 09/19/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

492446

Chain of Custody Record		Turn Around Time (rush by advanced notice only)			
COC ID:		Standard:	5 Day:	1 Day:	3 Day:
Page: 1 of 4		X (PCBs)			X (Pb) same-day
ENTHALPY ANALYTICAL Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Report: Level II (lab use only)			
CUSTOMER INFORMATION		PROJECT INFORMATION			
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721		
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP		
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491		
Address:	449 15th Street, Suite 303	P.O. #:			
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA		
Phone:	(651) 890-9556	Global ID:			
Fax:		Sampled By:	P. Welch - T. Sinnott		
Sample ID	Sampling Date	Sampling Time	Matrix	Container No./Size	Pres.
1 CLEAR-ARCH-C9W-DG-2 TO 2.5-230918-P-FB	9/18/2023	0735	WP	1	
2 CLEAR-ARCH-C9W-DG-2 TO 2.5-230918-L-FB	9/18/2023	0735	WP	1	
3 CLEAR-SCAF-Z5ECD-L25-230918-P	9/18/2023	0740	WP	1	
4 CLEAR-SCAF-Z5ECD-L25-230918-L	9/18/2023	0740	WP	1	
5 CLEAR-ENC-Z5ECD-L25-230918-P	9/18/2023	0745	WP	1	
6 CLEAR-ENC-Z5ECD-L25-230918-L	9/18/2023	0745	WP	1	
7 CLEAR-ARCH-C9W-PS-3.5-230918-P-G	9/18/2023	0745	WP	1	
8 CLEAR-ARCH-C9W-PS-3.5-230918-L-G	9/18/2023	0745	WP	1	
9 CLEAR-SCAF-Z5ECD-L25-230918-P	9/18/2023	0750	WP	1	
10 CLEAR-SCAF-Z5ECD-L25-230918-L	9/18/2023	0750	WP	1	
11 CLEAR-ENC-Z5ECD-L25-230918-P	9/18/2023	0755	WP	1	
12 CLEAR-ENC-Z5ECD-L25-230918-L	9/18/2023	0755	WP	1	
13 CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-P-FB	9/18/2023	0805	WP	1	
14 CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-L-FB	9/18/2023	0805	WP	1	
15 CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-L-DUR-FB	9/18/2023	0805	WP	1	
Signature		Print Name		Company / Title	
1 Relinquished By:	<i>[Signature]</i>	Michaela Kiro		Rincon/Enviroscientist	
1 Received By:	<i>[Signature]</i>	Audrey Hudson		Enviroscientist	
2 Relinquished By:	<i>[Signature]</i>	"		"	
2 Received By:	<i>[Signature]</i>	Amanda Hill		R.A.	
3 Relinquished By:	<i>[Signature]</i>	"		"	
3 Received By:	<i>[Signature]</i>	P. Welch		Enviroscientist	

452446

ENTHALPY ANALYTICAL		Chain of Custody Record		Turn Around Time (rush by advanced notice only)	
Enthalpy Analytical - Orange		COC ID: 2 of 4		Standard: X (PCBs) 5 Day: 1 Day: Custom TAT: X (Pb) same-day	
931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other		Preservatives: 1 = Na ₂ SO ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other Report: Level II data validation (lab use only)	
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request	
Company: Rincon Consultants, Inc.	Quote #: RIN031721	Hanger 1 - NCTRA WP		Clearance Wipe Samples - Level II Report/Stage 2A Validation	
Report To: Lindsay Parker	Proj. Name: 20-10491	158 Cody Road, Mountain View, CA		Report PCB concentrations on a µg/100cm ² basis Report lead concentrations on a µg/ft ² basis Report Aroclor 1268 concentrations in addition to the standard Aroclors	
Email: lparker@rinconconsultants.com	P.O. #:	Global ID:		Wipe samples collected from Zone 3 Enclosure C/D (Low Occupancy)	
Address: 449 15th Street, Suite 303	Address:	Sampled By: Dwekh, T. S. Ingot, M. Kim			
Oakland, California 94612	Global ID:	Sampled Date			
Phone: (651) 890-9556	Sampled By:	Sampling Time			
Fax:	Sample ID	Matrix			
		Container No./Size			
		Pres.			
	16 CLEAR-SCAF-ZSECD-L19-230918-P	WP		X	
	17 CLEAR-SCAF-ZSECD-L19-230918-L	WP		X	
	18 CLEAR-ENC-ZSECD-L19-230918-P	WP		X	
	19 CLEAR-ENC-ZSECD-L19-230918-L	WP		X	
	20 CLEAR-ARCH-C8W-DG-5 TO 5.5-DN-C8-2-VS-230918-P-LA	WP		X	
	21 CLEAR-ARCH-C8W-DG-5 TO 5.5-DN-C8-2-VS-230918-L-LA	WP		X	
	22 CLEAR-SCAF-ZSECD-L16-230918-P	WP		X	
	23 CLEAR-SCAF-ZSECD-L16-230918-L	WP		X	
	24 CLEAR-ENC-ZSECD-L16-230918-P	WP		X	
	25 CLEAR-ENC-ZSECD-L16-230918-L	WP		X	
	26 CLEAR-ARCH-C8W-EXT-6 TO 7-230918-P-WF	WP		X	
	27 CLEAR-ARCH-C8W-EXT-6 TO 7-230918-L-WF	WP		X	
	28 CLEAR-SCAF-ZSECD-L14-230918-P	WP		X	
	29 CLEAR-SCAF-ZSECD-L14-230918-L	WP		X	
	30 CLEAR-ENC-ZSECD-L14-230918-P	WP		X	
Signature		Print Name		Company / Title	
Relinquished By: [Signature]	Michael A. Kim	Rincon Consultants, Inc.		9/18/23 @ 1345	
Received By: [Signature]	Audrey Hudson	ENTHALPY		9/18/23 13:45	
Relinquished By: [Signature]	"	"		9/18/23 16:00	
Received By: [Signature]	Marcus J. Kim	PA		9/18/23 16:00	
Relinquished By: [Signature]	F. D. Kim	PA		9/19/23 0931	
Received By: [Signature]					

3x Rivet Type 2 = 0.63000ft²



Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92668
Phone 714-771-6900

Chain of Custody Record

Page: 3	of 4	Standard: X (PCBs)	5 Day: 1 Day: 3 Day: Custom TAT: X (Pb) same-day
Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other		Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other	Sample Receipt Temp: (lab use only)

Turn Around Time (rush by advanced notice only)

Standard: X (PCBs)	5 Day: 1 Day: 3 Day: Custom TAT: X (Pb) same-day
--------------------	--

CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments				
Company: Rincon Consultants, Inc.	Quote #: RIN031721	Proj. Name: Hanger 1 - NCTRA WP	Proj. #: 20-10491	Address: 158 Cody Road, Mountain View, CA	Global ID:	Sampled By: M. Kim D Welsh	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/60108	Analysis Request	Test Instructions / Comments
Report To: Lindsay Parker																
Email: lparker@rinconconsultants.com																
Address: 449 15th Street, Suite 303																
Oakland, California 94612																
Phone: (510) 890-9556																
Fax:																
31	CLEAR-ENC-Z5ECD-L14-230918-L	9/18/2023	1250	WP	I											
32	CLEAR-ARCH-CHW-DG-7-TO-73-DN-CHW-DG-230918-L1A	9/18/2023		WP												
33	CLEAR-ARCH-CHW-DG-7-TO-73-DN-CHW-DG-230918-L1A	9/18/2023		WP												
34	CLEAR-SCAF-Z5ECD-L10-230918-P	9/18/2023		WP												
35	CLEAR-SCAF-Z5ECD-L12-230918-L	9/18/2023		WP												
36	CLEAR-ENC-Z5ECD-L12-230918-P	9/18/2023		WP												
37	CLEAR-ENC-Z5ECD-L12-230918-L	9/18/2023		WP												
38	CLEAR-ARCH-CHW-DG-7-TO-73-DN-CHW-DG-230918-L1A	9/18/2023		WP												
39	CLEAR-ARCH-CHW-DG-7-TO-73-DN-CHW-DG-230918-L1A	9/18/2023		WP												
40	CLEAR-SCAF-Z5ECD-L10-230918-P	9/18/2023		WP												
41	CLEAR-SCAF-Z5ECD-L10-230918-L	9/18/2023		WP												
42	CLEAR-ENC-Z5ECD-L10-230918-P	9/18/2023		WP												
43	CLEAR-ENC-Z5ECD-L10-230918-L	9/18/2023		WP												
44	CLEAR-ENC-Z5ECD-L10-230918-L	9/18/2023		WP												
45	CLEAR-FIELD BLANK-230918-P-L0	9/18/2023	0740	WP	I											

Relinquished By: [Signature]	Signature	Print Name: Michaela King	Company / Title: Rincon Environmental Scientist	Date / Time: 9/18/23 13:43
Received By: [Signature]				
Relinquished By: [Signature]				
Received By: [Signature]				
Relinquished By: [Signature]				
Received By: [Signature]				

The below sample checklist was completed after delivery of samples by the laboratory provided courier or Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 9/18/23 Login # 492446 Client: Rincon

Section 2: Shipping / Custody

Shipping Info: _____

Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials

Section 3: Condition / Packaging

Important: Notify PM if temperature exceeds 6°C or arrive frozen

Date Opened 9/18/23 By (print) my (sign) [Signature]

☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)

If no cooler: Sample Temp (°C): _____

How many coolers? 1 Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Section 4: Containers / Labels / Samples

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable?	☒		
Were Method 5035 sampling containers present? Transferred to freezer @: _____		☒	
Did all containers arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?	☒		
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?			☒
Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____		☒	

Section 5: Preservatives

	YES	NO	N/A
Are the samples appropriately preserved? (if yes, skip the rest of section 5)			
Did any samples / containers require preservation upon receipt?			
Did you document your preservative check in the bench book?			

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ Date/Time _____
☐ HCL lot# _____ added to samples _____ Date/Time _____
☐ HNO3 lot# _____ added to samples _____ Date/Time _____
☐ CrVI Buffer lot# _____ added to samples _____ Date/Time _____

Section 6: Explanations / Comments

No custody sent and on cooler

Date Logged 9/18/23 By (print) my (sign) [Signature]
Date Labeled 9/18/23 By (print) my (sign) [Signature]



SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: RINCON CONSULTANTS

Project: HANGAR / NTCRA

Date Received: 9/19/23

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C)
(No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 4.4 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: FED EX

Section 3

Was the cooler packed with: ☐ Ice ☒ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.0 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	☒	☐	☐
Are sample IDs present?	☒	☐	☐
Are sampling dates & times present?	☒	☐	☐
Is a relinquished signature present?	☒	☐	☐
Are the tests required clearly indicated on the COC?	☒	☐	☐
Are custody seals present?	☐	☒	☐
If custody seals are present, were they intact?	☐	☐	☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	☐	☐	☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒	☐	☐
Did all bottle labels agree with COC? (ID, dates and times)	☒	☐	☐
Were the samples collected in the correct containers for the required tests?	☒	☐	☐
Are the containers labeled with the correct preservatives?	☐	☐	☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	☐	☐	☒
Was a sufficient amount of sample submitted for the requested tests?	☒	☐	☐

Section 5 Explanations/Comments

RECEIVED 1 VIAL WITH HEADSPACE > 5-6 mm FOR TRIP BLANK

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: [Signature] Date: 9/19/23

2.0/4.4

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

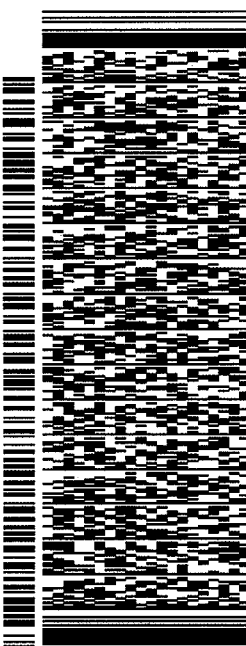
ORIGIN ID: JEMA (510) 486-0900
MACCEWILL YIP
ENTHALPY ANALYTICAL
2323 5TH ST
BERKELEY, CA 94710
UNITED STATES US

SHIP DATE: 18SEP23
ACTWGT: 24.00 LB
CAD: 111682977/NET4640
DIMS: 15x15x12 IN

TO **SAMPLE RECEIVING**
ENTHALPY ANALYTICAL
931 W. BARKLEY AVENUE

583J4/8B35/9AEC3

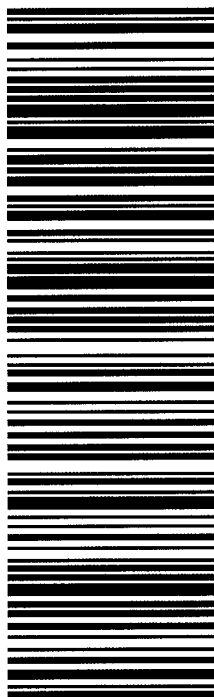
REF: **ORANGE CA 92868**
(714) 353-9032
INV: PO: DEPT:



TRK# **7734 5423 7991**
0201

TUE - 19 SEP 5:00P
STANDARD OVERNIGHT

92868
CA-US **SNA**



Enthalpy Analytical - Orange Analytical Report

Lab #: 492446

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C9W-DG-2 TO 2.5-230918-P-FB

Batch#: 322738

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/18/23

Analysis: EPA 8082

Lab ID: 492446-001

Received: 09/18/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492446-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-001 Surrogate		%REC	Limits
TCMX (PCB)		61	19-121
Decachlorobiphenyl (PCB)		72	19-121

Field ID: CLEAR-SCAF-Z5ECD-L25-230918-P

Batch#: 322738

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/18/23

Analysis: EPA 8082

Lab ID: 492446-003

Received: 09/18/23

Analyst: TRN

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492446-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-003 Surrogate		%REC	Limits
TCMX (PCB)		64	19-121
Decachlorobiphenyl (PCB)		72	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492446

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z5ECD-L25-230918-P

Type: SAMPLE

Lab ID: 492446-005

Matrix: Wipe

Diln Fac: 1.000

Batch#: 322738

Sampled: 09/18/23

Received: 09/18/23

Prepared: 09/20/23

Analyzed: 09/20/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

492446-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-005 Surrogate		%REC	Limits
TCMX (PCB)		65	19-121
Decachlorobiphenyl (PCB)		73	19-121

Field ID: CLEAR-ARCH-C9W-PS-3.5-230918-P-G

Type: SAMPLE

Lab ID: 492446-007

Matrix: Wipe

Diln Fac: 1.000

Batch#: 322738

Sampled: 09/18/23

Received: 09/18/23

Prepared: 09/20/23

Analyzed: 09/20/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

492446-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-007 Surrogate		%REC	Limits
TCMX (PCB)		60	19-121
Decachlorobiphenyl (PCB)		65	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492446

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z5ECD-L21-230918-P

Type: SAMPLE

Lab ID: 492446-009

Matrix: Wipe

Diln Fac: 1.000

Batch#: 322738

Sampled: 09/18/23

Received: 09/18/23

Prepared: 09/20/23

Analyzed: 09/20/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

492446-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-009 Surrogate		%REC	Limits
TCMX (PCB)		61	19-121
Decachlorobiphenyl (PCB)		66	19-121

Field ID: CLEAR-ENC-Z5ECD-L21-230918-P

Type: SAMPLE

Lab ID: 492446-011

Matrix: Wipe

Diln Fac: 1.000

Batch#: 322738

Sampled: 09/18/23

Received: 09/18/23

Prepared: 09/20/23

Analyzed: 09/20/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

492446-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-011 Surrogate		%REC	Limits
TCMX (PCB)		67	19-121
Decachlorobiphenyl (PCB)		71	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492446	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-P-FB	Batch#: 322738	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 8082
Lab ID: 492446-013	Received: 09/18/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/20/23	
Diln Fac: 1.000	Analyzed: 09/20/23	

492446-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-013 Surrogate		%REC	Limits
TCMX (PCB)		56	19-121
Decachlorobiphenyl (PCB)		64	19-121

Field ID: CLEAR-SCAF-Z5ECD-L19-230918-P	Batch#: 322738	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 8082
Lab ID: 492446-016	Received: 09/18/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/20/23	
Diln Fac: 1.000	Analyzed: 09/20/23	

492446-016 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	0.58	0.50	ug/100 cm2
492446-016 Surrogate		%REC	Limits
TCMX (PCB)		59	19-121
Decachlorobiphenyl (PCB)		65	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492446

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z5ECD-L19-230918-P

Type: SAMPLE

Lab ID: 492446-018

Matrix: Wipe

Diln Fac: 1.000

Batch#: 322738

Sampled: 09/18/23

Received: 09/18/23

Prepared: 09/20/23

Analyzed: 09/20/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

492446-018 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-018 Surrogate		%REC	Limits
TCMX (PCB)		65	19-121
Decachlorobiphenyl (PCB)		68	19-121

Field ID: CLEAR-ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230918-P-LA

Type: SAMPLE

Lab ID: 492446-020

Matrix: Wipe

Diln Fac: 1.000

Batch#: 322738

Sampled: 09/18/23

Received: 09/18/23

Prepared: 09/20/23

Analyzed: 09/20/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

492446-020 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-020 Surrogate		%REC	Limits
TCMX (PCB)		69	19-121
Decachlorobiphenyl (PCB)		79	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492446	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-SCAF-Z5ECD-L16-230918-P	Batch#: 322738	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 8082
Lab ID: 492446-022	Received: 09/18/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/20/23	
Diln Fac: 1.000	Analyzed: 09/20/23	

492446-022 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-022 Surrogate		%REC	Limits
TCMX (PCB)		51	19-121
Decachlorobiphenyl (PCB)		56	19-121

Field ID: CLEAR-ENC-Z5ECD-L16-230918-P	Batch#: 322738	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 8082
Lab ID: 492446-024	Received: 09/18/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/20/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492446-024 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-024 Surrogate		%REC	Limits
TCMX (PCB)		68	19-121
Decachlorobiphenyl (PCB)		74	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492446	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-ARCH-C8W-EXT-6 TO 7-230918-P-WF	Batch#: 322738	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 8082
Lab ID: 492446-026	Received: 09/18/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/20/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492446-026 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-026 Surrogate		%REC	Limits
TCMX (PCB)		61	19-121
Decachlorobiphenyl (PCB)		64	19-121

Field ID: CLEAR-SCAF-Z5ECD-L14-230918-P	Batch#: 322738	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 8082
Lab ID: 492446-028	Received: 09/18/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/20/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492446-028 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-028 Surrogate		%REC	Limits
TCMX (PCB)		67	19-121
Decachlorobiphenyl (PCB)		69	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492446	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5ECD-L14-230918-P	Batch#: 322738	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 8082
Lab ID: 492446-030	Received: 09/18/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/20/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492446-030 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-030 Surrogate		%REC	Limits
TCMX (PCB)		58	19-121
Decachlorobiphenyl (PCB)		61	19-121

Field ID: CLEAR-FIELDBLANK-230918-P-LO	Batch#: 322738	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 8082
Lab ID: 492446-032	Received: 09/18/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/20/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492446-032 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492446-032 Surrogate		%REC	Limits
TCMX (PCB)		61	19-121
Decachlorobiphenyl (PCB)		67	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492446

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BLANK

Batch#: 322738

Analysis: EPA 8082

Lab ID: QC1094638

Prepared: 09/20/23

Analyst: TRN

Matrix: Wipe

Analyzed: 09/20/23

Diln Fac: 1.000

Prep: EPA 3546

QC1094638 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
QC1094638 Surrogate		%REC	Limits
TCMX (PCB)		62	19-121
Decachlorobiphenyl (PCB)		82	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 492446

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 322738

Analysis: EPA 8082

Lab ID: QC1094639

Prepared: 09/20/23

Analyst: TRN

Matrix: Wipe

Analyzed: 09/20/23

Diln Fac: 1.000

Prep: EPA 3546

QC1094639 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.308	86	60-140	ug/100 cm2
Aroclor-1260	5.000	4.383	88	60-140	ug/100 cm2
QC1094639 Surrogate			%REC	Limits	
TCMX (PCB)			70	19-121	
Decachlorobiphenyl (PCB)			86	19-121	

Type: BSD

Batch#: 322738

Analysis: EPA 8082

Lab ID: QC1094640

Prepared: 09/20/23

Analyst: TRN

Matrix: Wipe

Analyzed: 09/20/23

Diln Fac: 1.000

Prep: EPA 3546

QC1094640 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.123	82	60-140	ug/100 cm2	4	20
Aroclor-1260	5.000	4.138	83	60-140	ug/100 cm2	6	20
QC1094640 Surrogate			%REC	Limits			
TCMX (PCB)			66	19-121			
Decachlorobiphenyl (PCB)			82	19-121			

Legend

RPD: Relative Percent Difference

Lead

Lab #: 492446		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: CLEAR-ARCH-C9W-DG-2 TO 2.5-230918-L-FB		Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-002		Received: 09/18/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/19/23	
Diln Fac: 1.000		Analyzed: 09/19/23	
492446-002 Analyte		Result	RL Units
Lead		130	0.50 ug/ft2
Field ID: CLEAR-SCAF-Z5ECD-L25-230918-L		Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-004		Received: 09/18/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/19/23	
Diln Fac: 1.000		Analyzed: 09/19/23	
492446-004 Analyte		Result	RL Units
Lead		190	0.50 ug/ft2
Field ID: CLEAR-ENC-Z5ECD-L25-230918-L		Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-006		Received: 09/18/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/19/23	
Diln Fac: 1.000		Analyzed: 09/19/23	
492446-006 Analyte		Result	RL Units
Lead		71	0.50 ug/ft2
Field ID: CLEAR-ARCH-C9W-PS-3.5-230918-L-G		Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-008		Received: 09/18/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/19/23	
Diln Fac: 1.000		Analyzed: 09/19/23	
492446-008 Analyte		Result	RL Units
Lead		26	0.50 ug/ft2
Field ID: CLEAR-SCAF-Z5ECD-L21-230918-L		Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-010		Received: 09/18/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/19/23	
Diln Fac: 1.000		Analyzed: 09/19/23	
492446-010 Analyte		Result	RL Units
Lead		350	0.50 ug/ft2

Lead

Lab #: 492446		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5ECD-L21-230918-L	Batch#: 322669	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 6010B	
Lab ID: 492446-012	Received: 09/18/23	Analyst: SBW	
Matrix: Wipe	Prepared: 09/19/23		
Diln Fac: 10.00	Analyzed: 09/19/23		
492446-012 Analyte		Result	RL Units
Lead		1,500	1.7 ug/ft2
Field ID: CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-L-FB		Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-014		Received: 09/18/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/19/23	
Diln Fac: 1.000		Analyzed: 09/19/23	
492446-014 Analyte		Result	RL Units
Lead		120	0.50 ug/ft2
Field ID: CLEAR-ARCH-C8W-DG-4.5 TO 5-230918-L-DUP-FB		Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-015		Received: 09/18/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/19/23	
Diln Fac: 1.000		Analyzed: 09/19/23	
492446-015 Analyte		Result	RL Units
Lead		200	0.50 ug/ft2
Field ID: CLEAR-SCAF-Z5ECD-L19-230918-L		Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-017		Received: 09/18/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/19/23	
Diln Fac: 10.00		Analyzed: 09/19/23	
492446-017 Analyte		Result	RL Units
Lead		520	1.7 ug/ft2
Field ID: CLEAR-ENC-Z5ECD-L19-230918-L		Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-019		Received: 09/18/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/19/23	
Diln Fac: 1.000		Analyzed: 09/19/23	
492446-019 Analyte		Result	RL Units
Lead		130	0.50 ug/ft2

Lead

Lab #: 492446

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C8W-DG-5 TO 5.5-DN-C8.2-VS-230918-L-LA

Batch#: 322669

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/18/23

Analysis: EPA 6010B

Lab ID: 492446-021

Received: 09/18/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/19/23

Diln Fac: 1.000

Analyzed: 09/19/23

492446-021 Analyte	Result	RL	Units
Lead	340	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5ECD-L16-230918-L

Batch#: 322669

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/18/23

Analysis: EPA 6010B

Lab ID: 492446-023

Received: 09/18/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/19/23

Diln Fac: 10.00

Analyzed: 09/19/23

492446-023 Analyte	Result	RL	Units
Lead	440	1.7	ug/ft2

Field ID: CLEAR-ENC-Z5ECD-L16-230918-L

Batch#: 322669

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/18/23

Analysis: EPA 6010B

Lab ID: 492446-025

Received: 09/18/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/19/23

Diln Fac: 1.000

Analyzed: 09/19/23

492446-025 Analyte	Result	RL	Units
Lead	220	0.50	ug/ft2

Field ID: CLEAR-ARCH-C8W-EXT-6 TO 7-230918-L-WF

Batch#: 322669

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/18/23

Analysis: EPA 6010B

Lab ID: 492446-027

Received: 09/18/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/19/23

Diln Fac: 10.00

Analyzed: 09/19/23

492446-027 Analyte	Result	RL	Units
Lead	530	1.7	ug/ft2

Field ID: CLEAR-SCAF-Z5ECD-L14-230918-L

Batch#: 322669

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/18/23

Analysis: EPA 6010B

Lab ID: 492446-029

Received: 09/18/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/19/23

Diln Fac: 10.00

Analyzed: 09/19/23

492446-029 Analyte	Result	RL	Units
Lead	620	1.7	ug/ft2

Lead

Lab #: 492446	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5ECD-L14-230918-L	Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-031	Received: 09/18/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/19/23	
Diln Fac: 1.000	Analyzed: 09/19/23	

492446-031 Analyte	Result	RL	Units
Lead	160	0.50	ug/ft2

Field ID: CLEAR-FIELDBLANK-230918-L-LO	Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-033	Received: 09/18/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/19/23	
Diln Fac: 1.000	Analyzed: 09/19/23	

492446-033 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Field ID: CLEAR-MEDBLANK-230918-L-LO	Batch#: 322669	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/18/23	Analysis: EPA 6010B
Lab ID: 492446-034	Received: 09/18/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/19/23	
Diln Fac: 1.000	Analyzed: 09/19/23	

492446-034 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK	Batch#: 322669	Analysis: EPA 6010B
Lab ID: QC1094450	Prepared: 09/19/23	Analyst: SBW
Matrix: Wipe	Analyzed: 09/19/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1094450 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend
ND: Not Detected
RL: Reporting Limit

Lead: Batch QC

Lab #: 492446

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 322669

Analysis: EPA 6010B

Lab ID: QC1094451

Prepared: 09/19/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/19/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1094451 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	56.82	114	80-120	ug/ft2

Type: BSD

Batch#: 322669

Analysis: EPA 6010B

Lab ID: QC1094452

Prepared: 09/19/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/19/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1094452 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	54.55	109	80-120	ug/ft2	4	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 492491
Report Level: II
Report Date: 09/27/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

Miguel Gamboa, Project Coordinator
miguel.gamboa@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 492491
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 09/19/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230919-P-LA	492491-001	09/19/23 12:00	Wipe
CLEAR-ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230919-L-LA	492491-002	09/19/23 12:00	Wipe
CLEAR-SCAF-Z5ECD-L12-230919-P	492491-003	09/19/23 12:05	Wipe
CLEAR-SCAF-Z5ECD-L12-230919-L	492491-004	09/19/23 12:05	Wipe
CLEAR-ENC-Z5ECD-L12-230919-P	492491-005	09/19/23 12:10	Wipe
CLEAR-ENC-Z5ECD-L12-230919-L	492491-006	09/19/23 12:10	Wipe
CLEAR-ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230919-P-LA	492491-007	09/19/23 12:20	Wipe
CLEAR-ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230919-L-LA	492491-008	09/19/23 12:20	Wipe
CLEAR-SCAF-Z5ECD-L10-230919-P	492491-009	09/19/23 12:25	Wipe
CLEAR-SCAF-Z5ECD-L10-230919-L	492491-010	09/19/23 12:25	Wipe
CLEAR-ENC-Z5ECD-L10-230919-P	492491-011	09/19/23 12:30	Wipe
CLEAR-ENC-Z5ECD-L10-230919-P-DUP	492491-012	09/19/23 12:30	Wipe
CLEAR-ENC-Z5ECD-L10-230919-L	492491-013	09/19/23 12:30	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 492491
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 09/19/23

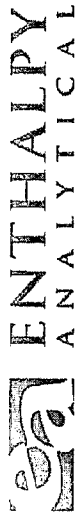
This data package contains sample and QC results for thirteen wipe samples, requested for the above referenced project on 09/20/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.



Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92668
Phone 714-771-6900

Chain of Custody Record

COC ID:

Page:

1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	5 Day:	3 Day:
X (PCBs)	1 Day:	Custom TAT:
Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other	Preservatives: 1 = Na ₂ S ₂ O ₄ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other	Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments			
Company:	Quote #:	Proj. Name:	Proj. #:	Proj. Name:	Proj. #:	Proj. Name:	Proj. #:	PCBs - EPA Method 8082	Lead - EPA Method 3050/60109	PCBs - EPA Method 3050/60109	Lead - EPA Method 3050/60109	Clearance Wipe Samples - Level II	Report/Stage 2A Validation		
Report To:												Report PCB concentrations on a µg/100cm ² basis	Report lead concentrations on a µg/ft ² basis		
Email:												Report Aroclor 1268 concentrations in addition to the standard Aroclors			
Address:															
Phone:															
Fax:															

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
1 CLEAR-ARCH-CNV-DG-6.5 TO 7.5-DN-CNV-DG-230919-P-LA	9/19/2023	12:00	WP	1	
2 CLEAR-ARCH-CNV-DG-6.5 TO 7.5-DN-CNV-DG-230919-L-LA	9/19/2023	12:00	WP	1	
3 CLEAR-SCAF-Z5ECD-L12-230919-P	9/19/2023	12:05	WP	1	
4 CLEAR-SCAF-Z5ECD-L12-230919-L	9/19/2023	12:05	WP	1	
5 CLEAR-ENC-Z5ECD-L12-230919-P	9/19/2023	12:10	WP	1	
6 CLEAR-ENC-Z5ECD-L12-230919-L	9/19/2023	12:10	WP	1	
7 CLEAR-ARCH-CNV-DG-7 TO 7.5-DN-C9-1-DG-230919-P-LA	9/19/2023	12:20	WP	1	
8 CLEAR-ARCH-CNV-DG-7 TO 7.5-DN-C9-1-DG-230919-L-LA	9/19/2023	12:20	WP	1	
9 CLEAR-SCAF-Z5ECD-L10-230919-P	9/19/2023	12:25	WP	1	
10 CLEAR-SCAF-Z5ECD-L10-230919-L	9/19/2023	12:25	WP	1	
11 CLEAR-ENC-Z5ECD-L10-230919-P	9/19/2023	12:30	WP	1	
12 CLEAR-ENC-Z5ECD-L10-230919-P-DUP	9/19/2023	12:30	WP	1	
13 CLEAR-ENC-Z5ECD-L10-230919-L	9/19/2023	12:30	WP	1	
14					
15					

Signature	Print Name	Company / Title	Date / Time
	Donald Welch	Rincon / Env. Sci.	9/19/23 14:55
	Audrey Hudson	"	9/19/23 14:55
	"	"	9/19/23 16:25
	"	"	9/19/23 16:25
	"	"	9/19/23 17:04
	"	"	9/19/23 09:40

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: Rincon Consultants	Project: Hangar 1 NTCRA
Date Received: 9/20/23	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)	Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: 4.3 #2: _____ #3: _____ #4: _____	
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)	
Shipping Information: <u>FED EX</u>	

Section 3	
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: 2.8 #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒	☒	
If custody seals are present, were they intact?	☒		☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments 492491
--

Section 6
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____
Project Manager's response:

Completed By: [Signature]

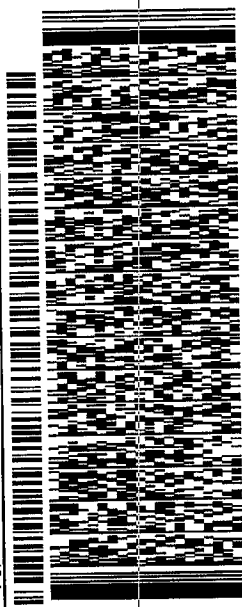
Date: SEP 20 2023

ORIGIN ID: JEMA (510) 486-0900
MACCEWILL YIP
ENTHALPY ANALYTICAL
2323 5TH ST
BERKELEY, CA 94710
UNITED STATES US

TO **SAMPLE RECEIVING**
ENTHALPY ANALYTICAL
931 W. BARKLEY AVENUE

ORANGE CA 92868

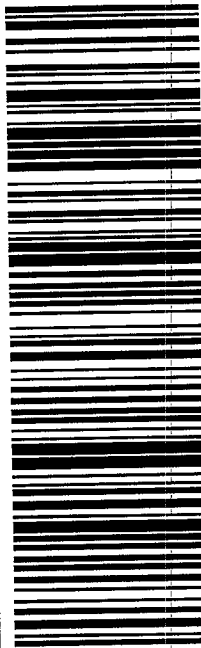
REF: (714) 353-9032
INV: PO: DEPT:



WED - 20 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 7734 6948 9883
0201

92 APVA
92868
CA-US **SNA**



FedEx Ship Manager - Print Your Label(s)

9/19/23, 5:07 PM

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

<https://www.fedex.com/shipping/shipmentConfirmationAction.handle?method=doContinue>

2.8/4.3

Enthalpy Analytical - Orange Analytical Report

Lab #: 492491

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230919-P-LA

Batch#: 323070

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 8082

Lab ID: 492491-001

Received: 09/19/23

Analyst: MES

Matrix: Wipe

Prepared: 09/25/23

Diln Fac: 1.000

Analyzed: 09/26/23

492491-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492491-001 Surrogate		%REC	Limits
TCMX (PCB)		57	19-121
Decachlorobiphenyl (PCB)		64	19-121

Field ID: CLEAR-SCAF-Z5ECD-L12-230919-P

Batch#: 323070

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 8082

Lab ID: 492491-003

Received: 09/19/23

Analyst: MES

Matrix: Wipe

Prepared: 09/25/23

Diln Fac: 1.000

Analyzed: 09/26/23

492491-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492491-003 Surrogate		%REC	Limits
TCMX (PCB)		59	19-121
Decachlorobiphenyl (PCB)		64	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492491

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z5ECD-L12-230919-P

Type: SAMPLE

Lab ID: 492491-005

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323070

Sampled: 09/19/23

Received: 09/19/23

Prepared: 09/25/23

Analyzed: 09/26/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: MES

492491-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492491-005 Surrogate		%REC	Limits
TCMX (PCB)		58	19-121
Decachlorobiphenyl (PCB)		64	19-121

Field ID: CLEAR-ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230919-P-LA

Type: SAMPLE

Lab ID: 492491-007

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323070

Sampled: 09/19/23

Received: 09/19/23

Prepared: 09/25/23

Analyzed: 09/26/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: MES

492491-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492491-007 Surrogate		%REC	Limits
TCMX (PCB)		57	19-121
Decachlorobiphenyl (PCB)		64	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492491	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-SCAF-Z5ECD-L10-230919-P	Batch#: 323070	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/19/23	Analysis: EPA 8082
Lab ID: 492491-009	Received: 09/19/23	Analyst: MES
Matrix: Wipe	Prepared: 09/25/23	
Diln Fac: 1.000	Analyzed: 09/26/23	

492491-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492491-009 Surrogate		%REC	Limits
TCMX (PCB)		48	19-121
Decachlorobiphenyl (PCB)		54	19-121

Field ID: CLEAR-ENC-Z5ECD-L10-230919-P	Batch#: 323070	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/19/23	Analysis: EPA 8082
Lab ID: 492491-011	Received: 09/19/23	Analyst: MES
Matrix: Wipe	Prepared: 09/25/23	
Diln Fac: 1.000	Analyzed: 09/26/23	

492491-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492491-011 Surrogate		%REC	Limits
TCMX (PCB)		55	19-121
Decachlorobiphenyl (PCB)		64	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492491

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z5ECD-L10-230919-P-DUP

Type: SAMPLE

Lab ID: 492491-012

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323070

Sampled: 09/19/23

Received: 09/19/23

Prepared: 09/25/23

Analyzed: 09/26/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: MES

492491-012 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492491-012 Surrogate		%REC	Limits
TCMX (PCB)		51	19-121
Decachlorobiphenyl (PCB)		60	19-121

Type: BLANK

Lab ID: QC1095768

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323070

Prepared: 09/25/23

Analyzed: 09/26/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: MES

QC1095768 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
QC1095768 Surrogate		%REC	Limits
TCMX (PCB)		58	19-121
Decachlorobiphenyl (PCB)		72	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 492491

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 323070

Analysis: EPA 8082

Lab ID: QC1095769

Prepared: 09/25/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/26/23

Diln Fac: 1.000

Prep: EPA 3546

QC1095769 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.816	76	60-140	ug/100 cm2
Aroclor-1260	5.000	4.072	81	60-140	ug/100 cm2
QC1095769 Surrogate				%REC	Limits
TCMX (PCB)				63	19-121
Decachlorobiphenyl (PCB)				78	19-121

Type: BSD

Batch#: 323070

Analysis: EPA 8082

Lab ID: QC1095770

Prepared: 09/25/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/26/23

Diln Fac: 1.000

Prep: EPA 3546

QC1095770 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.196	64	60-140	ug/100 cm2	18	20
Aroclor-1260	5.000	3.354	67	60-140	ug/100 cm2	19	20
QC1095770 Surrogate				%REC	Limits		
TCMX (PCB)				54	19-121		
Decachlorobiphenyl (PCB)				65	19-121		

Legend

RPD: Relative Percent Difference

Lead

Lab #: 492491

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C8W-DG-6.5 TO 7-DN-C8W-DG-230919-L-LA

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492491-002

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492491-002 Analyte	Result	RL	Units
Lead	86	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5ECD-L12-230919-L

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492491-004

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492491-004 Analyte	Result	RL	Units
Lead	150	0.50	ug/ft2

Field ID: CLEAR-ENC-Z5ECD-L12-230919-L

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492491-006

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492491-006 Analyte	Result	RL	Units
Lead	2.4	0.50	ug/ft2

Field ID: CLEAR-ARCH-C9W-DG-7 TO 7.5-DN-C9.1-DG-230919-L-LA

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492491-008

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492491-008 Analyte	Result	RL	Units
Lead	110	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5ECD-L10-230919-L

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492491-010

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492491-010 Analyte	Result	RL	Units
Lead	210	0.50	ug/ft2

Lead

Lab #: 492491	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5ECD-L10-230919-L	Batch#: 322757	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/19/23	Analysis: EPA 6010B
Lab ID: 492491-013	Received: 09/19/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/20/23	
Diln Fac: 1.000	Analyzed: 09/20/23	

492491-013 Analyte	Result	RL	Units
Lead	5.0	0.50	ug/ft2

Type: BLANK	Batch#: 322757	Analysis: EPA 6010B
Lab ID: QC1094713	Prepared: 09/20/23	Analyst: SBW
Matrix: Wipe	Analyzed: 09/20/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1094713 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 492491

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 322757

Analysis: EPA 6010B

Lab ID: QC1094714

Prepared: 09/20/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/20/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1094714 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	58.06	116	80-120	ug/ft2

Type: BSD

Batch#: 322757

Analysis: EPA 6010B

Lab ID: QC1094715

Prepared: 09/20/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/20/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1094715 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	56.26	113	80-120	ug/ft2	3	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 492526
Report Level: II
Report Date: 09/27/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

Miguel Gamboa, Project Coordinator
miguel.gamboa@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 492526
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 09/19/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-AFRAME-C9W-LAT-L3-EXT-1 TO 2-230919-P-WF	492526-001	09/19/23 12:50	Wipe
CLEAR-AFRAME-C9W-LAT-L3-EXT-1 TO 2-230919-P-DUP-WF	492526-002	09/19/23 12:50	Wipe
CLEAR-AFRAME-C9W-LAT-L3-EXT-1 TO 2-230919-L-WF	492526-003	09/19/23 12:50	Wipe
CLEAR-SCAF-Z5ECD-L7-230919-P	492526-004	09/19/23 12:55	Wipe
CLEAR-SCAF-Z5ECD-L7-230919-L	492526-005	09/19/23 12:55	Wipe
CLEAR-ENC-Z5ECD-L7-230919-P	492526-006	09/19/23 13:00	Wipe
CLEAR-ENC-Z5ECD-L7-230919-L	492526-007	09/19/23 13:00	Wipe
CLEAR-FIELDBLANK-230919-P-HO	492526-008	09/19/23 13:10	Wipe
CLEAR-FIELDBLANK-230919-L-HO	492526-009	09/19/23 13:10	Wipe
CLEAR-MEDBLANK-230919-L-HO	492526-010	09/19/23 10:35	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 492526
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 09/19/23

This data package contains sample and QC results for ten wipe samples, requested for the above referenced project on 09/20/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

ea
ENTHALPY

SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 9/19/23 Login # 492526 Client: Boston

Section 2: Shipping / Custody

Shipping Info: _____

Are custody seals present? ☐ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials

Section 3: Condition / Packaging

Important: Notify PM if temperature exceeds 6°C or arrive frozen

Date Opened 9/19/23 By (print) nan (sign) _____

☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)

If no cooler: Sample Temp (°C): _____

How many coolers? 1 Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Section 4: Containers / Labels / Samples

Were custody papers dry, filled out properly, and the project identifiable?

Were Method 5035 sampling containers present? Transferred to freezer @:

Did all containers arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____

Section 5: Preservatives

Are the samples appropriately preserved? (if yes, skip the rest of section 5)

Did any samples / containers require preservation upon receipt?

Did you document your preservative check in the bench book?

Preservative added:

☐ H₂SO₄ lot# _____ added to samples _____ Date/Time _____

☐ HCL lot# _____ added to samples _____ Date/Time _____

☐ HNO₃ lot# _____ added to samples _____ Date/Time _____

☐ CrVI Buffer lot# _____ added to samples _____ Date/Time _____

Section 6: Explanations / Comments

Date Logged 9/19/23 By (print) nan

(sign) _____

Date Labeled 9/19/23 By (print) nan

(sign) _____

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: <u>Rincon Consultants</u>	Project: <u>Hangar 1 NTCRA</u>
Date Received: <u>9/20/23</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u> ☐ No (skip section 2)	Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: <u>43</u> #2: _____ #3: _____ #4: _____	
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)	
Shipping Information: <u>Fedex</u>	

Section 3	
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: <u>2.8</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒	☒	
If custody seals are present, were they intact?	☒		☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments <u>492526</u>

Section 6	
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____	
☐ Email (email sent to/on): _____ / _____	
Project Manager's response:	

Completed By: [Signature] Date: SEP 20 2023

ORIGIN ID: JEMA (510) 486-0900
MACCEWILL YIP
ENTHALPY ANALYTICAL
2323 5TH ST
BERKELEY, CA 94710
UNITED STATES US

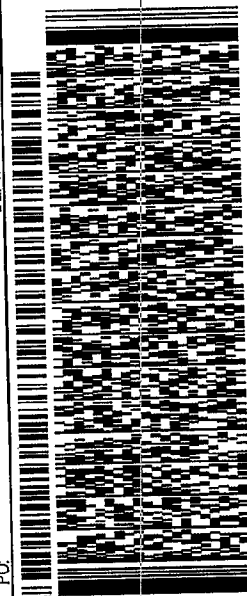
SHIP DATE: 19SEP23
ACTWGT: 16.00 LB
CAD: 111682977/NET4640
DIMS: 15x15x12 IN
BILL SENDER

TO **SAMPLE RECEIVING**
ENTHALPY ANALYTICAL
931 W. BARKLEY AVENUE

ORANGE CA 92868

INV: (714) 353-9032 REF:

PO: DEPT:

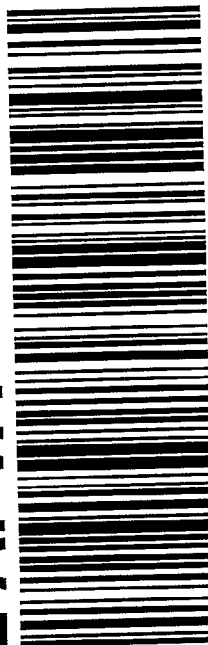


WED - 20 SEP 10:30A
PRIORITY OVERNIGHT

TRK# **7734 6948 9883**
0201

92868
SNA
CA-US

92 APVA



FedEx Ship Manager - Print Your Label(s)

9/19/23, 5:07 PM

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss, and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

<https://www.fedex.com/shipping/shipmentConfirmationAction.handle?method=doContinue>

2-8-1/4-3

Enthalpy Analytical - Orange Analytical Report

Lab #: 492526

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C9W-LAT-L3-EXT-1 TO 2-230919-P-WF

Batch#: 323070

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 8082

Lab ID: 492526-001

Received: 09/19/23

Analyst: MES

Matrix: Wipe

Prepared: 09/25/23

Diln Fac: 1.000

Analyzed: 09/26/23

492526-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492526-001 Surrogate		%REC	Limits
TCMX (PCB)		49	19-121
Decachlorobiphenyl (PCB)		53	19-121

Field ID: CLEAR-AFRAME-C9W-LAT-L3-EXT-1 TO 2-230919-P-DUP-WF

Batch#: 323070

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 8082

Lab ID: 492526-002

Received: 09/19/23

Analyst: MES

Matrix: Wipe

Prepared: 09/25/23

Diln Fac: 1.000

Analyzed: 09/26/23

492526-002 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492526-002 Surrogate		%REC	Limits
TCMX (PCB)		51	19-121
Decachlorobiphenyl (PCB)		57	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492526	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-SCAF-Z5ECD-L7-230919-P	Batch#: 323070	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/19/23	Analysis: EPA 8082
Lab ID: 492526-004	Received: 09/19/23	Analyst: MES
Matrix: Wipe	Prepared: 09/25/23	
Diln Fac: 1.000	Analyzed: 09/26/23	

492526-004 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492526-004 Surrogate		%REC	Limits
TCMX (PCB)		59	19-121
Decachlorobiphenyl (PCB)		68	19-121

Field ID: CLEAR-ENC-Z5ECD-L7-230919-P	Batch#: 323070	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/19/23	Analysis: EPA 8082
Lab ID: 492526-006	Received: 09/19/23	Analyst: MES
Matrix: Wipe	Prepared: 09/25/23	
Diln Fac: 1.000	Analyzed: 09/26/23	

492526-006 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492526-006 Surrogate		%REC	Limits
TCMX (PCB)		65	19-121
Decachlorobiphenyl (PCB)		72	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492526

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: CLEAR-FIELDBLANK-230919-P-HO

Type: SAMPLE

Lab ID: 492526-008

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323070

Sampled: 09/19/23

Received: 09/19/23

Prepared: 09/25/23

Analyzed: 09/26/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: MES

492526-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492526-008 Surrogate		%REC	Limits
TCMX (PCB)		55	19-121
Decachlorobiphenyl (PCB)		63	19-121

Type: BLANK

Lab ID: QC1095768

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323070

Prepared: 09/25/23

Analyzed: 09/26/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: MES

QC1095768 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
QC1095768 Surrogate		%REC	Limits
TCMX (PCB)		58	19-121
Decachlorobiphenyl (PCB)		72	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 492526

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 323070

Analysis: EPA 8082

Lab ID: QC1095769

Prepared: 09/25/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/26/23

Diln Fac: 1.000

Prep: EPA 3546

QC1095769 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.816	76	60-140	ug/100 cm2
Aroclor-1260	5.000	4.072	81	60-140	ug/100 cm2
QC1095769 Surrogate				%REC	Limits
TCMX (PCB)				63	19-121
Decachlorobiphenyl (PCB)				78	19-121

Type: BSD

Batch#: 323070

Analysis: EPA 8082

Lab ID: QC1095770

Prepared: 09/25/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/26/23

Diln Fac: 1.000

Prep: EPA 3546

QC1095770 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.196	64	60-140	ug/100 cm2	18	20
Aroclor-1260	5.000	3.354	67	60-140	ug/100 cm2	19	20
QC1095770 Surrogate				%REC	Limits		
TCMX (PCB)				54	19-121		
Decachlorobiphenyl (PCB)				65	19-121		

Legend

RPD: Relative Percent Difference

Lead

Lab #: 492526

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C9W-LAT-L3-EXT-1 TO 2-230919-L-WF

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492526-003

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492526-003 Analyte	Result	RL	Units
Lead	280	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5ECD-L7-230919-L

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492526-005

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 10.00

Analyzed: 09/20/23

492526-005 Analyte	Result	RL	Units
Lead	690	2.2	ug/ft2

Field ID: CLEAR-ENC-Z5ECD-L7-230919-L

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492526-007

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492526-007 Analyte	Result	RL	Units
Lead	17	0.50	ug/ft2

Field ID: CLEAR-FIELDBLANK-230919-L-HO

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492526-009

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492526-009 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Field ID: CLEAR-MEDBLANK-230919-L-HO

Batch#: 322757

Prep: EPA 3050B

Type: SAMPLE

Sampled: 09/19/23

Analysis: EPA 6010B

Lab ID: 492526-010

Received: 09/19/23

Analyst: SBW

Matrix: Wipe

Prepared: 09/20/23

Diln Fac: 1.000

Analyzed: 09/20/23

492526-010 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Lead**Lab #:** 492526**Project#:** 20-10491**Client:** Rincon Consultants**Location:** Hangar 1 NTCRA**Type:** BLANK**Batch#:** 322757**Analysis:** EPA 6010B**Lab ID:** QC1094713**Prepared:** 09/20/23**Analyst:** SBW**Matrix:** Wipe**Analyzed:** 09/20/23**Diln Fac:** 1.000**Prep:** EPA 3050B**QC1094713 Analyte****Result****RL****Units**

Lead

ND

0.50

ug/ft2

Legend

ND: Not Detected**RL:** Reporting Limit

Lead: Batch QC

Lab #: 492526

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 322757

Analysis: EPA 6010B

Lab ID: QC1094714

Prepared: 09/20/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/20/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1094714 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	58.06	116	80-120	ug/ft2

Type: BSD

Batch#: 322757

Analysis: EPA 6010B

Lab ID: QC1094715

Prepared: 09/20/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/20/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1094715 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	56.26	113	80-120	ug/ft2	3	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 492590
Report Level: II
Report Date: 09/28/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 492590
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 09/20/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-AFRAME-C9W-LAT-L2-UP-C9.7-VS-230920-P-I	492590-001	09/20/23 09:05	Wipe
CLEAR-AFRAME-C9W-LAT-L2-UP-C9.7-VS-230920-L-I	492590-002	09/20/23 09:05	Wipe
CLEAR-SCAF-Z5ECD-L4-230920-P	492590-003	09/20/23 09:10	Wipe
CLEAR-SCAF-Z5ECD-L4-230920-L	492590-004	09/20/23 09:10	Wipe
CLEAR-ENC-Z5ECD-L4-230920-P	492590-005	09/20/23 09:15	Wipe
CLEAR-ENC-Z5ECD-L4-230920-L	492590-006	09/20/23 09:15	Wipe
CLEAR-ENC-Z5ECD-L4-230920-L-DUP	492590-007	09/20/23 09:15	Wipe
CLEAR-AFRAME-C8W-MED-L1-EXT-1 TO 2-230920-P-WF	492590-008	09/20/23 09:30	Wipe
CLEAR-AFRAME-C8W-MED-L1-EXT-1 TO 2-230920-L-WF	492590-009	09/20/23 09:30	Wipe
CLEAR-SCAF-Z5ECD-L1-230920-P	492590-010	09/20/23 09:35	Wipe
CLEAR-SCAF-Z5ECD-L1-230920-L	492590-011	09/20/23 09:35	Wipe
CLEAR-ENC-Z5ECD-L1-230920-P	492590-012	09/20/23 09:40	Wipe
CLEAR-ENC-Z5ECD-L1-230920-L	492590-013	09/20/23 09:40	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 492590
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 09/20/23

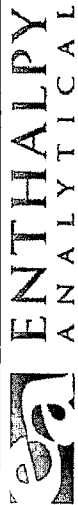
This data package contains sample and QC results for thirteen wipe samples, requested for the above referenced project on 09/21/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.



ENTHALPY
ANALYTICAL

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92668
Phone 714-771-6900

Chain of Custody Record

Page: 1 of 1

Standard: X (PCBs) 5 Day: 1 Day: X (Pb) same-day

Turn Around Time (rush by advanced notice only)

Preservatives: 1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃ 4 = H₂SO₄ 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

Report: Level II

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Quota #: RIN031221

Proj. Name: Hangar 1 - NCTR WP

Proj. #: 20-10491

P.O. #: 158 Cody Road, Mountain View, CA

Address: Global ID:

Sampled By: D. Wulfsberg

Sample ID

Sampling Date

Sampling Time

Matrix

Container No. / Size

Pres.

PCBs - EPA Method 8082

Lead - EPA Method 3050/6010B

Analysis Request

Test Instructions / Comments

Clearance Wipe Samples - Level II

Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis

Report lead concentrations on a µg/ft² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

HOLD

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Wipe samples collected from 5 Enclosure C/D (High Occupancy)

Zone

Signature

Print Name

Company / Title

Date / Time

1 Relinquished By:

1 Received By:

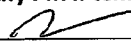
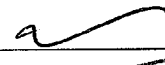
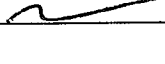
2 Relinquished By:

2 Received By:

3 Relinquished By:

3 Received By:

The below sample checklist was completed after delivery of the samples by the laboratory provided courier or Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST				 ENTHALPY ANALYTICAL
Section 1: General Info				
Date Received:	9/20/23	Login #	492590	Client: Rincon
Section 2: Shipping / Custody				
Shipping Info: _____				
Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package				
Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials				
Section 3: Condition / Packaging Important: Notify PM if temperature exceeds 6°C or arrive frozen				
Date Opened 9/20/23 By (print) my (sign) 				
☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)				
If no cooler: Sample Temp (°C): _____				
How many coolers? 1 Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____				
Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C				
Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No				
Section 4: Containers / Labels / Samples				YES NO N/A
Were custody papers dry, filled out properly, and the project identifiable?				/
Were Method 5035 sampling containers present? Transferred to freezer @: _____				/
Did all containers arrive unbroken/unopened?				/
Are there any missing / extra samples?				/
Are samples in the appropriate containers for indicated tests?				/
Are sample labels present, in good condition and complete?				/
Does the container count match the COC?				/
Do the sample labels agree with custody papers?				/
Was sufficient amount of sample sent for tests requested?				/
Did you change the hold time in LIMS for unpreserved VOAs?				/
Did you change the hold time in LIMS for preserved terracores?				/
Are bubbles > 6mm present in VOA samples?				/
Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____				/
Section 5: Preservatives				YES NO N/A
Are the samples appropriately preserved? (if yes, skip the rest of section 5)				/
Did any samples / containers require preservation upon receipt?				/
Did you document your preservative check in the bench book?				/
Preservative added:				
☐ H2SO4 lot# _____ added to samples _____ Date/Time _____				
☐ HCL lot# _____ added to samples _____ Date/Time _____				
☐ HNO3 lot# _____ added to samples _____ Date/Time _____				
☐ CrVI Buffer lot# _____ added to samples _____ Date/Time _____				
Section 6: Explanations / Comments				
NO custody seal found on cooler.				
Date Logged 9/20/23		By (print) my		(sign) 
Date Labeled 9/20/23		By (print) my		(sign) 

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
Client: Rincon Consultants Project: Hangar 1 NTCRA
Date Received: 09/21/23 Sampler's Name Present: ☒ Yes ☐ No

Section 2
Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: 3.3 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
Shipping Information: FedEx

Section 3
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____
Cooler Temp (°C): #1: 2.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	☒	☐	☐
Are sample IDs present?	☒	☐	☐
Are sampling dates & times present?	☒	☐	☐
Is a relinquished signature present?	☒	☐	☐
Are the tests required clearly indicated on the COC?	☒	☐	☐
Are custody seals present?	☐	☒	☐
If custody seals are present, were they intact?	☐	☒	☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	☐	☐	☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒	☐	☐
Did all bottle labels agree with COC? (ID, dates and times)	☒	☐	☐
Were the samples collected in the correct containers for the required tests?	☒	☐	☐
Are the containers labeled with the correct preservatives?	☐	☐	☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	☐	☐	☒
Was a sufficient amount of sample submitted for the requested tests?	☒	☐	☐

Section 5 Explanations/Comments
492590.

Section 6
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____
Project Manager's response: _____

Completed By: [Signature] Date: SEP 21 2023

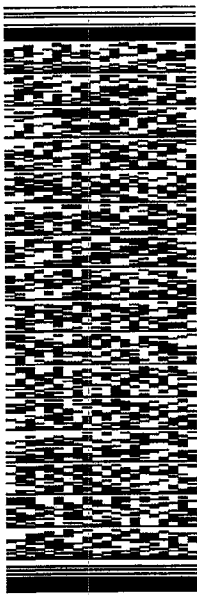
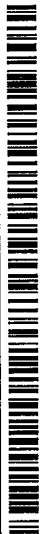
ORIGIN ID: JEMA (510) 486-0900
MACCEWILL YIP
ENTHALPY ANALYTICAL
2323 5TH ST
BERKELEY, CA 94710
UNITED STATES US

SHIP DATE: 20SEP23
ACTWGT: 14.00 LB
CAD: 111682977/NET4640
DIMS: 12x12x12 IN

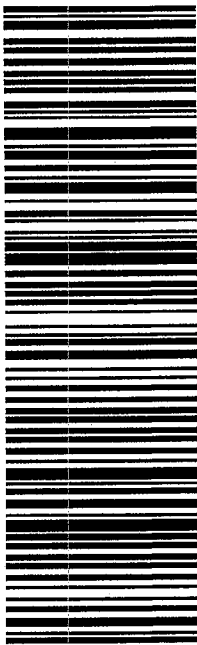
TO **SAMPLE RECEIVING**
ENTHALPY ANALYTICAL
931 W. BARKLEY AVENUE

583J4/B836/AE3

REF: **ORANGE CA 92868**
(714) 353-9032
INV: PO: DEPT:



92 APVA
92868
CA-US SNA



TRK# 7734 8422 6232

THU - 21 SEP 10:30A
PRIORITY OVERNIGHT

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g., jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

2.0 / 3.3

Enthalpy Analytical - Orange Analytical Report

Lab #: 492590

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C9W-LAT-L2-UP-C9.7-VS-230920-P-I

Batch#: 323070

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/20/23

Analysis: EPA 8082

Lab ID: 492590-001

Received: 09/20/23

Analyst: MES

Matrix: Wipe

Prepared: 09/25/23

Diln Fac: 1.000

Analyzed: 09/26/23

492590-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492590-001 Surrogate		%REC	Limits
TCMX (PCB)		54	19-121
Decachlorobiphenyl (PCB)		62	19-121

Field ID: CLEAR-SCAF-Z5ECD-L4-230920-P

Batch#: 323070

Prep: EPA 3546

Type: SAMPLE

Sampled: 09/20/23

Analysis: EPA 8082

Lab ID: 492590-003

Received: 09/20/23

Analyst: MES

Matrix: Wipe

Prepared: 09/25/23

Diln Fac: 1.000

Analyzed: 09/26/23

492590-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492590-003 Surrogate		%REC	Limits
TCMX (PCB)		57	19-121
Decachlorobiphenyl (PCB)		65	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492590

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z5ECD-L4-230920-P

Type: SAMPLE

Lab ID: 492590-005

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323070

Sampled: 09/20/23

Received: 09/20/23

Prepared: 09/25/23

Analyzed: 09/26/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

492590-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492590-005 Surrogate		%REC	Limits
TCMX (PCB)		50	19-121
Decachlorobiphenyl (PCB)		57	19-121

Field ID: CLEAR-AFRAME-C8W-MED-L1-EXT-1 TO 2-230920-P-WF

Type: SAMPLE

Lab ID: 492590-008

Matrix: Wipe

Diln Fac: 1.000

Batch#: 323070

Sampled: 09/20/23

Received: 09/20/23

Prepared: 09/25/23

Analyzed: 09/26/23

Prep: EPA 3546

Analysis: EPA 8082

Analyst: TRN

492590-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492590-008 Surrogate		%REC	Limits
TCMX (PCB)		59	19-121
Decachlorobiphenyl (PCB)		68	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492590	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-SCAF-Z5ECD-L1-230920-P	Batch#: 323070	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/20/23	Analysis: EPA 8082
Lab ID: 492590-010	Received: 09/20/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/25/23	
Diln Fac: 1.000	Analyzed: 09/26/23	

492590-010 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492590-010 Surrogate		%REC	Limits
TCMX (PCB)		58	19-121
Decachlorobiphenyl (PCB)		67	19-121

Field ID: CLEAR-ENC-Z5ECD-L1-230920-P	Batch#: 323070	Prep: EPA 3546
Type: SAMPLE	Sampled: 09/20/23	Analysis: EPA 8082
Lab ID: 492590-012	Received: 09/20/23	Analyst: TRN
Matrix: Wipe	Prepared: 09/25/23	
Diln Fac: 1.000	Analyzed: 09/26/23	

492590-012 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2
492590-012 Surrogate		%REC	Limits
TCMX (PCB)		55	19-121
Decachlorobiphenyl (PCB)		63	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 492590

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BLANK

Batch#: 323070

Analysis: EPA 8082

Lab ID: QC1095768

Prepared: 09/25/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/26/23

Diln Fac: 1.000

Prep: EPA 3546

QC1095768 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1095768 Surrogate	%REC	Limits
TCMX (PCB)	58	19-121
Decachlorobiphenyl (PCB)	72	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 492590

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 323070

Analysis: EPA 8082

Lab ID: QC1095769

Prepared: 09/25/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/26/23

Diln Fac: 1.000

Prep: EPA 3546

QC1095769 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.816	76	60-140	ug/100 cm2
Aroclor-1260	5.000	4.072	81	60-140	ug/100 cm2
QC1095769 Surrogate				%REC	Limits
TCMX (PCB)				63	19-121
Decachlorobiphenyl (PCB)				78	19-121

Type: BSD

Batch#: 323070

Analysis: EPA 8082

Lab ID: QC1095770

Prepared: 09/25/23

Analyst: MES

Matrix: Wipe

Analyzed: 09/26/23

Diln Fac: 1.000

Prep: EPA 3546

QC1095770 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.196	64	60-140	ug/100 cm2	18	20
Aroclor-1260	5.000	3.354	67	60-140	ug/100 cm2	19	20
QC1095770 Surrogate				%REC	Limits		
TCMX (PCB)				54	19-121		
Decachlorobiphenyl (PCB)				65	19-121		

Legend

RPD: Relative Percent Difference

Lead

Lab #: 492590		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: CLEAR-AFRAME-C9W-LAT-L2-UP-C9.7-VS-230920-L-I	Batch#: 322869	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 09/20/23	Analysis: EPA 6010B	
Lab ID: 492590-002	Received: 09/20/23	Analyst: SBW	
Matrix: Wipe	Prepared: 09/21/23		
Diln Fac: 1.000	Analyzed: 09/21/23		
492590-002 Analyte		Result	RL Units
Lead		9.7	0.50 ug/ft2
Field ID: CLEAR-SCAF-Z5ECD-L4-230920-L		Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492590-004		Received: 09/20/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/21/23	
Diln Fac: 1.000		Analyzed: 09/21/23	
492590-004 Analyte		Result	RL Units
Lead		94	0.50 ug/ft2
Field ID: CLEAR-ENC-Z5ECD-L4-230920-L		Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492590-006		Received: 09/20/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/21/23	
Diln Fac: 1.000		Analyzed: 09/21/23	
492590-006 Analyte		Result	RL Units
Lead		39	0.50 ug/ft2
Field ID: CLEAR-ENC-Z5ECD-L4-230920-L-DUP		Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492590-007		Received: 09/20/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/21/23	
Diln Fac: 1.000		Analyzed: 09/21/23	
492590-007 Analyte		Result	RL Units
Lead		29	0.50 ug/ft2
Field ID: CLEAR-AFRAME-C8W-MED-L1-EXT-1 TO 2-230920-L-WF		Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE		Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492590-009		Received: 09/20/23	Analyst: SBW
Matrix: Wipe		Prepared: 09/21/23	
Diln Fac: 1.000		Analyzed: 09/21/23	
492590-009 Analyte		Result	RL Units
Lead		61	0.50 ug/ft2

Lead

Lab #: 492590	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-SCAF-Z5ECD-L1-230920-L	Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492590-011	Received: 09/20/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/21/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492590-011 Analyte	Result	RL	Units
Lead	54	0.50	ug/ft2

Field ID: CLEAR-ENC-Z5ECD-L1-230920-L	Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492590-013	Received: 09/20/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/21/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492590-013 Analyte	Result	RL	Units
Lead	43	0.50	ug/ft2

Type: BLANK	Batch#: 322869	Analysis: EPA 6010B
Lab ID: QC1095056	Prepared: 09/21/23	Analyst: SBW
Matrix: Wipe	Analyzed: 09/21/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1095056 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend
 ND: Not Detected
 RL: Reporting Limit

Lead: Batch QC

Lab #: 492590

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 322869

Analysis: EPA 6010B

Lab ID: QC1095057

Prepared: 09/21/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/21/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1095057 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	55.19	110	80-120	ug/ft2

Type: BSD

Batch#: 322869

Analysis: EPA 6010B

Lab ID: QC1095058

Prepared: 09/21/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/21/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1095058 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	56.83	114	80-120	ug/ft2	3	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 492625
Report Level: II
Report Date: 09/21/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

Miguel Gamboa, Project Coordinator
miguel.gamboa@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #: 492625
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 09/20/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ENC-Z5ECD-L21-230920-P	492625-001	09/20/23 08:25	Wipe
CLEAR-ENC-Z5ECD-L21-230920-L	492625-002	09/20/23 08:25	Wipe
CLEAR-SCAF-Z5ECD-L19-230920-P	492625-003	09/20/23 08:35	Wipe
CLEAR-SCAF-Z5ECD-L19-230920-L	492625-004	09/20/23 08:35	Wipe
CLEAR-ARCH-C8W-EXT-6 TO 7-230920-P-WF	492625-005	09/20/23 08:45	Wipe
CLEAR-ARCH-C8W-EXT-6 TO 7-230920-L-WF	492625-006	09/20/23 08:45	Wipe
CLEAR-SCAF-Z5ECD-L14-230920-P	492625-007	09/20/23 08:50	Wipe
CLEAR-SCAF-Z5ECD-L14-230920-L	492625-008	09/20/23 08:50	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 492625
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 09/20/23

This data package contains sample and QC results for four wipe samples, requested for the above referenced project on 09/21/23. The samples were received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.



ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92668
Phone 714-771-6900

Chain of Custody Record

COCID: 492625

Page:

1 of 1

Turn Around Time (rush by advanced notice only)

Standard: X (PCBs) 5 Day: 1 Day: 3 Day: X (Pb) same-day

Custom TAT: Sample Receipt Temp: (lab use only)

Matrix: A = Air S = Soil/Solid
W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water
SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:
1 = $\text{Na}_2\text{S}_2\text{O}_3$ 2 = HCl 3 = HNO_3
4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II

CUSTOMER INFORMATION

Company: Rincon Consultants, Inc.
Report To: Lindsay Parker
Email: lparker@rinconconsultants.com
Address: 449 15th Street, Suite 303
Oakland, California 94612
Phone: (651) 890-9556
Fax:

PROJECT INFORMATION

Quote #: RIN031721
Proj. Name: Hanger 1 - NCTRA WP
Proj. #: 20-10491
P.O. #: 158 Cody Road, Mountain View, CA
Address: Global ID:
Sampled By: D. Walsh

Analysis Request

PCBs - EPA Method 8082
Lead - EPA Method 3050/6010B

Test Instructions / Comments

Clearance Wipe Samples - Level II
Report/Stage 2A Validation
Report PCB concentrations on a $\mu\text{g}/100\text{cm}^2$ basis
Report lead concentrations on a $\mu\text{g}/\text{ft}^2$ basis
Report Aroclor 1268 concentrations in addition to the standard Aroclors
Wipe samples collected from Zone 5 Enclosure C/D (Low Occupancy)
Place on Hold
Place on Hold
Place on Hold
Place on Hold

Container No. / Size

Pres.

Sample ID

Sampling Date

Sampling Time

Matrix

Sample ID

Sampling Date

Sampling Time

Matrix

Sample ID

Sampling Date

Sampling Time

Matrix

Sample ID

Sampling Date

Sampling Time

Matrix

Signature

Print Name

Company / Title

Date / Time

1 Relinquished By: JKS-Eight	Tuler Sinnott	Rincon/Env. Scientist	9/20/23 / 15:10
1 Received By: Lindsay Parker	ANDREW HURSON	ENVIRONMENTAL	9/20/23 / 15:10
2 Relinquished By: Andrew Hurson	"	"	9/20/23 / 16:38
2 Received By: JKS-Eight	Sak Peterson	Environmental	9/20/23 / 16:38
3 Relinquished By: JKS-Eight	ANDREW HURSON	ENVIRONMENTAL	9/20/23 / 16:52
3 Received By: JKS-Eight	"	"	9/20/23 / 09:08

SAMPLE RECEIPT CHECKLIST



Section 1: General Info
 Date Received: 9/20/23 Login # 492625 Client: Ron con

Section 2: Shipping / Custody
 Shipping Info: _____
 Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package
 Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials

Section 3: Condition / Packaging **Important: Notify PM if temperature exceeds 6°C or arrive frozen**
 Date Opened 9/20/23 By (print) my (sign) [Signature]
☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)
 If no cooler: Sample Temp (°C): _____
 How many coolers? 1 Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____
 Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C
 Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Section 4: Containers / Labels / Samples	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable?	/		
Were Method 5035 sampling containers present? Transferred to freezer @: _____		/	
Did all containers arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm present in VOA samples?			/
Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____		/	

Section 5: Preservatives YES NO N/A
 Are the samples appropriately preserved? (if yes, skip the rest of section 5) YES NO N/A
 Did any samples / containers require preservation upon receipt? YES NO N/A
 Did you document your preservative check in the bench book? YES NO N/A
 Preservative added:

☐ H2SO4 lot# _____

added to samples _____

Date/Time _____

☐ HCL lot# _____

added to samples _____

Date/Time _____

☐ HNO3 lot# _____

added to samples _____

Date/Time _____

☐ CrVI Buffer lot# _____

added to samples _____

Date/Time _____

Section 6: Explanations / Comments
No custody seal found on cooler.

Date Logged 9/20/23 By (print) my (sign) [Signature]
 Date Labeled 9/20/23 By (print) my (sign) [Signature]

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Rincon Consultants Project: Hangar 1 NTCRA
 Date Received: 09/21/23 Sampler's Name Present: ☒ Yes ☐ No

Section 2
 Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 3.3 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: FedEx

Section 3
 Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____
 Cooler Temp (°C): #1: 2.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	☒	☐	☐
Are sample IDs present?	☒	☐	☐
Are sampling dates & times present?	☒	☐	☐
Is a relinquished signature present?	☒	☐	☐
Are the tests required clearly indicated on the COC?	☒	☐	☐
Are custody seals present?	☐	☒	☐
If custody seals are present, were they intact?	☐	☐	☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	☐	☐	☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒	☐	☐
Did all bottle labels agree with COC? (ID, dates and times)	☒	☐	☐
Were the samples collected in the correct containers for the required tests?	☒	☐	☐
Are the containers labeled with the correct preservatives?	☐	☐	☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	☐	☐	☒
Was a sufficient amount of sample submitted for the requested tests?	☒	☐	☐

Section 5 Explanations/Comments
492625.

Section 6
 For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: [Signature] Date: SEP 21 2023

ORIGIN ID: JEMA (510) 486-0900
MACCEMILLY P
ENTHALPY ANALYTICAL
2323 5TH ST

BERKELEY, CA 94710
UNITED STATES US

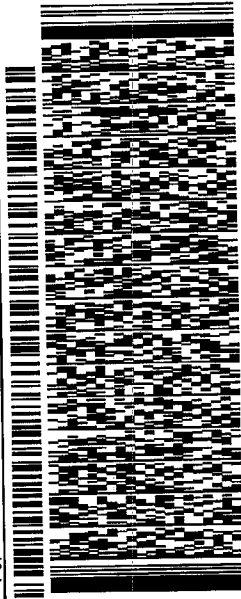
TO **SAMPLE RECEIVING**
ENTHALPY ANALYTICAL
931 W. BARKLEY AVENUE

ORANGE CA 92868

(714) 353-9032 REF:

INV:
PO:

DEPT:



FedEx
Express



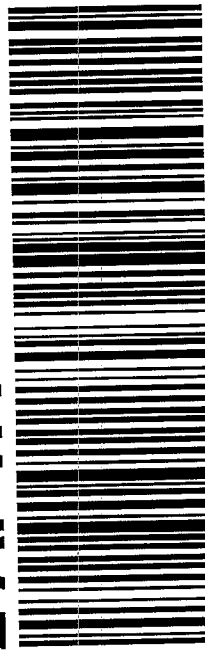
THU - 21 SEP 10:30A
PRIORITY OVERNIGHT

TRK# **7734 8422 6232**

0201

92868
SNA
CA-US

92 APVA



FedEx Ship Manager - Print Your Label(s)

9/20/23, 4:59 PM

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation. Unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

20/3.3

Lead

Lab #: 492625	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5ECD-L21-230920-L	Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492625-002	Received: 09/20/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/21/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492625-002 Analyte	Result	RL	Units
Lead	10	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5ECD-L19-230920-L	Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492625-004	Received: 09/20/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/21/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492625-004 Analyte	Result	RL	Units
Lead	13	0.50	ug/ft2

Field ID: CLEAR-ARCH-C8W-EXT-6 TO 7-230920-L-WF	Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492625-006	Received: 09/20/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/21/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492625-006 Analyte	Result	RL	Units
Lead	5.6	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5ECD-L14-230920-L	Batch#: 322869	Prep: EPA 3050B
Type: SAMPLE	Sampled: 09/20/23	Analysis: EPA 6010B
Lab ID: 492625-008	Received: 09/20/23	Analyst: SBW
Matrix: Wipe	Prepared: 09/21/23	
Diln Fac: 1.000	Analyzed: 09/21/23	

492625-008 Analyte	Result	RL	Units
Lead	6.7	0.50	ug/ft2

Type: BLANK	Batch#: 322869	Analysis: EPA 6010B
Lab ID: QC1095056	Prepared: 09/21/23	Analyst: SBW
Matrix: Wipe	Analyzed: 09/21/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1095056 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend
 ND: Not Detected
 RL: Reporting Limit

Lead: Batch QC

Lab #: 492625

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 322869

Analysis: EPA 6010B

Lab ID: QC1095057

Prepared: 09/21/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/21/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1095057 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	55.19	110	80-120	ug/ft2

Type: BSD

Batch#: 322869

Analysis: EPA 6010B

Lab ID: QC1095058

Prepared: 09/21/23

Analyst: SBW

Matrix: Wipe

Analyzed: 09/21/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1095058 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	56.83	114	80-120	ug/ft2	3	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 494732
Report Level: II
Report Date: 10/30/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 494732
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 10/27/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231027-L-LA	494732-001	10/27/23 07:20	Wipe
CLEAR-SCAF-Z5EAB-L25-231027-L	494732-002	10/27/23 07:25	Wipe
CLEAR-ENC-Z5EAB-L25-231027-L	494732-003	10/27/23 07:30	Wipe
CLEAR-ARCH-C10E-INT-2.5 TO 3.5-231027-L-WF	494732-004	10/27/23 07:35	Wipe
CLEAR-SCAF-Z5EAB-L22-231027-L	494732-005	10/27/23 07:40	Wipe
CLEAR-ENC-Z5EAB-L22-231027-L	494732-006	10/27/23 07:45	Wipe
CLEAR-ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231027-L-LA	494732-007	10/27/23 07:50	Wipe
CLEAR-ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231027-L-DUP	494732-008	10/27/23 07:50	Wipe
CLEAR-SCAF-Z5EAB-L19-231027-L	494732-009	10/27/23 07:55	Wipe
CLEAR-ENC-Z5EAB-L19-231027-L	494732-010	10/27/23 08:00	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 494732
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 10/27/23

This data package contains sample and QC results for ten wipe samples, requested for the above referenced project on 10/30/23. The samples were received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.

The below sample checklist was completed after delivery of the samples by the laboratory provided courier or Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST			
Section 1: General Info			
Date Received: <u>10/24/23</u> Login # <u>494732</u> Client: <u>Rincon</u>			
Section 2: Shipping / Custody			
Shipping Info: _____			
Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package			
Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials			
Section 3: Condition / Packaging			
Important: Notify PM if temperature exceeds 6°C or arrive frozen			
Date Opened <u>10/24/23</u> By (print) <u>my</u> (sign) <u>[Signature]</u>			
☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)			
If no cooler: Sample Temp (°C): _____			
How many coolers? <u>1</u> Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____			
Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C			
Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No			
Section 4: Containers / Labels / Samples			
	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable?	/		
Were Method 5035 sampling containers present? Transferred to freezer @: _____		/	
Did all containers arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm present in VOA samples?			/
Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____		/	
Section 5: Preservatives			
	YES	NO	N/A
Are the samples appropriately preserved? (if yes, skip the rest of section 5)			
Did any samples / containers require preservation upon receipt?			
Did you document your preservative check in the bench book?			
Preservative added:			
☐ H2SO4 lot# _____ added to samples _____	Date/Time _____		
☐ HCL lot# _____ added to samples _____	Date/Time _____		
☐ HNO3 lot# _____ added to samples _____	Date/Time _____		
☐ CrVI Buffer lot# _____ added to samples _____	Date/Time _____		
Section 6: Explanations / Comments			
Date Logged <u>10/24/23</u> By (print) <u>my</u> (sign) <u>[Signature]</u> Date Labeled <u>10/24/23</u> By (print) <u>my</u> (sign) <u>[Signature]</u>			

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY

ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants

Project: Hangar 1 NTCRA

Date Received: 10/28/23

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1

☐ No (skip section 2)

Sample Temp (°C), One from each cooler: #1: 2.8 #2: #3: #4:

Sample Temp (°C) (No Cooler):

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information:

Section 3

Was the cooler packed with: ☒ Ice ☒ Ice Packs ☐ Bubble Wrap ☐ Styrofoam

☐ Paper ☐ None ☐ Other

Cooler Temp (°C): #1: 1.4 #2: #3: #4:

Section 4

	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5

Explanations/Comments

494732

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: Date/Time

☐ Email (email sent to/on): /

Project Manager's response:

Completed By: 

Date: OCT 28 2023

2.8/1.4

C

9:24

SOUTHWEST AIRLINES

Printed on:
27 OCT 20:10

526 OAK 9491 9963 

ONT

PC#
6 OF

6

DG
G

LOT WT
285 LB
(129.3 KG)

OAK WN 714 28 OCT 07:10

STN FLT DATE ETD LOT 01



PC ID: 0006
PC WT: 47LB

526 94919963 0006

S

Lead

Lab #: 494732

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C9E-DG-2 TO 2.5-UP-C9.1-HM-231027-L-LA

Batch#: 325419

Prep: EPA 3050B

Type: SAMPLE

Sampled: 10/27/23

Analysis: EPA 6010B

Lab ID: 494732-001

Received: 10/27/23

Analyst: KLN

Matrix: Wipe

Prepared: 10/29/23

Diln Fac: 1.000

Analyzed: 10/30/23

494732-001 Analyte	Result	RL	Units
Lead	8.9	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5EAB-L25-231027-L

Batch#: 325419

Prep: EPA 3050B

Type: SAMPLE

Sampled: 10/27/23

Analysis: EPA 6010B

Lab ID: 494732-002

Received: 10/27/23

Analyst: KLN

Matrix: Wipe

Prepared: 10/29/23

Diln Fac: 1.000

Analyzed: 10/30/23

494732-002 Analyte	Result	RL	Units
Lead	39	0.50	ug/ft2

Field ID: CLEAR-ENC-Z5EAB-L25-231027-L

Batch#: 325419

Prep: EPA 3050B

Type: SAMPLE

Sampled: 10/27/23

Analysis: EPA 6010B

Lab ID: 494732-003

Received: 10/27/23

Analyst: KLN

Matrix: Wipe

Prepared: 10/29/23

Diln Fac: 1.000

Analyzed: 10/30/23

494732-003 Analyte	Result	RL	Units
Lead	13	0.50	ug/ft2

Field ID: CLEAR-ARCH-C10E-INT-2.5 TO 3.5-231027-L-WF

Batch#: 325419

Prep: EPA 3050B

Type: SAMPLE

Sampled: 10/27/23

Analysis: EPA 6010B

Lab ID: 494732-004

Received: 10/27/23

Analyst: KLN

Matrix: Wipe

Prepared: 10/29/23

Diln Fac: 1.000

Analyzed: 10/30/23

494732-004 Analyte	Result	RL	Units
Lead	68	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5EAB-L22-231027-L

Batch#: 325419

Prep: EPA 3050B

Type: SAMPLE

Sampled: 10/27/23

Analysis: EPA 6010B

Lab ID: 494732-005

Received: 10/27/23

Analyst: KLN

Matrix: Wipe

Prepared: 10/29/23

Diln Fac: 1.000

Analyzed: 10/30/23

494732-005 Analyte	Result	RL	Units
Lead	200	0.50	ug/ft2

Lead

Lab #: 494732		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5EAB-L22-231027-L	Batch#: 325419	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/27/23	Analysis: EPA 6010B	
Lab ID: 494732-006	Received: 10/27/23	Analyst: KLN	
Matrix: Wipe	Prepared: 10/29/23		
Diln Fac: 1.000	Analyzed: 10/30/23		
494732-006 Analyte		Result	RL Units
Lead		140	0.50 ug/ft2
Field ID: CLEAR-ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231027-L-LA		Batch#: 325419	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/27/23	Analysis: EPA 6010B
Lab ID: 494732-007		Received: 10/27/23	Analyst: KLN
Matrix: Wipe		Prepared: 10/29/23	
Diln Fac: 1.000		Analyzed: 10/30/23	
494732-007 Analyte		Result	RL Units
Lead		31	0.50 ug/ft2
Field ID: CLEAR-ARCH-C8E-DG-4.5 TO 5-UP-C8.4-DG-231027-L-DUP		Batch#: 325419	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/27/23	Analysis: EPA 6010B
Lab ID: 494732-008		Received: 10/27/23	Analyst: KLN
Matrix: Wipe		Prepared: 10/29/23	
Diln Fac: 1.000		Analyzed: 10/30/23	
494732-008 Analyte		Result	RL Units
Lead		26	0.50 ug/ft2
Field ID: CLEAR-SCAF-Z5EAB-L19-231027-L		Batch#: 325419	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/27/23	Analysis: EPA 6010B
Lab ID: 494732-009		Received: 10/27/23	Analyst: KLN
Matrix: Wipe		Prepared: 10/29/23	
Diln Fac: 1.000		Analyzed: 10/30/23	
494732-009 Analyte		Result	RL Units
Lead		29	0.50 ug/ft2
Field ID: CLEAR-ENC-Z5EAB-L19-231027-L		Batch#: 325419	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/27/23	Analysis: EPA 6010B
Lab ID: 494732-010		Received: 10/27/23	Analyst: KLN
Matrix: Wipe		Prepared: 10/29/23	
Diln Fac: 1.000		Analyzed: 10/30/23	
494732-010 Analyte		Result	RL Units
Lead		71	0.50 ug/ft2

Lead

Lab #: 494732

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BLANK

Batch#: 325419

Analysis: EPA 6010B

Lab ID: QC1103412

Prepared: 10/29/23

Analyst: KLN

Matrix: Wipe

Analyzed: 10/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1103412 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 494732

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 325419

Analysis: EPA 6010B

Lab ID: QC1103413

Prepared: 10/29/23

Analyst: KLN

Matrix: Wipe

Analyzed: 10/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1103413 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	54.89	110	80-120	ug/ft2

Type: BSD

Batch#: 325419

Analysis: EPA 6010B

Lab ID: QC1103414

Prepared: 10/29/23

Analyst: KLN

Matrix: Wipe

Analyzed: 10/30/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1103414 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	54.32	109	80-120	ug/ft2	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 494976
Report Level: II
Report Date: 11/01/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 494976
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 10/31/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C8E-PS-5.5-231031-L-G	494976-001	10/31/23 08:30	Wipe
CLEAR-SCAF-Z5EAB-L16-231031-L	494976-002	10/31/23 08:30	Wipe
CLEAR-ENC-Z5EAB-L16-231031-L	494976-003	10/31/23 08:30	Wipe
CLEAR-ARCH-C8E-EXT-6 TO 7-231031-L-WF	494976-004	10/31/23 08:50	Wipe
CLEAR-SCAF-Z5EAB-L14-231031-L	494976-005	10/31/23 08:50	Wipe
CLEAR-ENC-Z5EAB-L14-231031-L	494976-006	10/31/23 08:50	Wipe
CLEAR-ARCH-C9E-PS-6.5-231031-L-G	494976-007	10/31/23 09:05	Wipe
CLEAR-SCAF-Z5EAB-L12-231031-L	494976-008	10/31/23 09:05	Wipe
CLEAR-ENC-Z5EAB-L12-231031-L	494976-009	10/31/23 09:05	Wipe
CLEAR-ARCH-C9E-DG-7 TO 7.5-231031-L-FB	494976-010	10/31/23 10:00	Wipe
CLEAR-SCAF-Z5EAB-L10-231031-L	494976-011	10/31/23 10:00	Wipe
CLEAR-ENC-Z5EAB-L10-231031-L	494976-012	10/31/23 10:00	Wipe
CLEAR-FIELDBLANK-231031-L-LO	494976-013	10/31/23 08:25	Wipe
CLEAR-MEDBLANK-231031-L-LO	494976-014	10/31/23 11:55	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 494976
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 10/31/23

This data package contains sample and QC results for fourteen wipe samples, requested for the above referenced project on 11/01/23. The samples were received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.



SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 10/3/23 Login # 494976 Client: Roman

Section 2: Shipping / Custody

Shipping Info: _____
Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package
Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials
Important: Notify PM if temperature exceeds 6°C or arrive frozen

Section 3: Condition / Packaging

Date Opened 10/3/23 By (print) _____ (sign) _____
☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)
If no cooler: Sample Temp (°C): _____
How many coolers? 1 Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C
Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Section 4: Containers / Labels / Samples

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable?	/		
Were Method 5035 sampling containers present? Transferred to freezer @:	/	/	
Did all containers arrive unbroken/unopened?	/	/	
Are there any missing / extra samples?	/		
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm present in VOA samples?		/	
Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____	YES	NO	N/A

Section 5: Preservatives

Are the samples appropriately preserved? (if yes, skip the rest of section 5)
Did any samples / containers require preservation upon receipt?
Did you document your preservative check in the bench book?

Preservative added:
☐ H2SO4 lot# _____ added to samples Date/Time _____
☐ HCL lot# _____ added to samples Date/Time _____
☐ HNO3 lot# _____ added to samples Date/Time _____
☐ CrVI Buffer lot# _____ added to samples Date/Time _____

Section 6: Explanations / Comments

Date Logged 10/3/23 By (print) nm (sign) _____
Date Labeled 10/3/23 By (print) nm (sign) _____

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants

Project: Hangar 1 NTCRA

Date Received: 11/1/23

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1

☐ NO (skip section 2)

Sample Temp (°C)
(No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 5.6 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: FEDEX

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2-7 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	☒	☐	☐
Are sample IDs present?	☒	☐	☐
Are sampling dates & times present?	☒	☐	☐
Is a relinquished signature present?	☒	☐	☐
Are the tests required clearly indicated on the COC?	☒	☐	☐
Are custody seals present?	☒	☐	☐
If custody seals are present, were they intact?	☒	☐	☐
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	☐	☐	☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒	☐	☐
Did all bottle labels agree with COC? (ID, dates and times)	☒	☐	☐
Were the samples collected in the correct containers for the required tests?	☒	☐	☐
Are the containers labeled with the correct preservatives?	☐	☐	☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	☐	☐	☒
Was a sufficient amount of sample submitted for the requested tests?	☒	☐	☐

Section 5 Explanations/Comments

494976

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____

Project Manager's response:

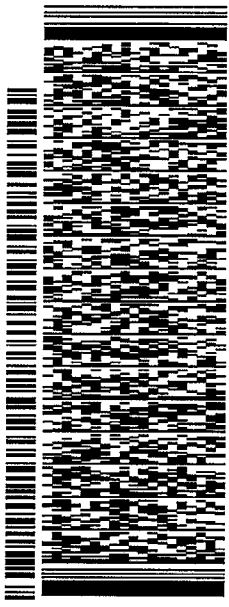
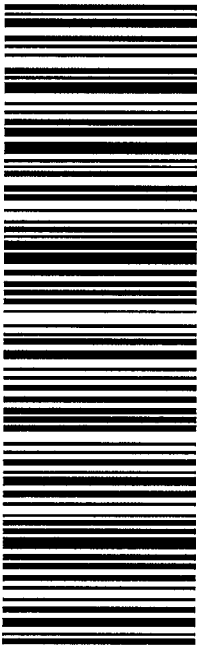
Completed By: _____

Date:

NOV 01 2023

10/31/23, 4:34 PM

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID: MYFA TAYLOR NASU ENTHALPY ANALYTICAL 4340 VANDEVER AVE SAN DIEGO, CA 92120 UNITED STATES US	(909) 247-8800 SHIP DATE: 31OCT23 ACTWGT: 12.50 LB CAD: 111682977/NET4680 DIMS: 12x12x12 IN
BILL SENDER	
TO SAMPLE RECEIVING ENTHALPY ORG 931 WEST BARKLEY AVE	
ORANGE CA 92868 (714) 771-6000 INV. PO:	REF:
DEPT:	
	
	
WED - 01 NOV 5:00P	
STANDARD OVERNIGHT	
TRK# 7739 3180 2779	92868 SNA CA-US
	

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

2-7/5-c

Lead

Lab #: 494976		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: CLEAR-ARCH-C8E-PS-5.5-231031-L-G	Batch#: 325629	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/31/23	Analysis: EPA 6010B	
Lab ID: 494976-001	Received: 10/31/23	Analyst: KLN	
Matrix: Wipe	Prepared: 11/01/23		
Diln Fac: 1.000	Analyzed: 11/01/23		
494976-001 Analyte		Result	RL Units
Lead		260	0.50 ug/ft2
Field ID: CLEAR-SCAF-Z5EAB-L16-231031-L		Batch#: 325629	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-002		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 50.00		Analyzed: 11/01/23	
494976-002 Analyte		Result	RL Units
Lead		1,200	11 ug/ft2
Field ID: CLEAR-ENC-Z5EAB-L16-231031-L		Batch#: 325629	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-003		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 1.000		Analyzed: 11/01/23	
494976-003 Analyte		Result	RL Units
Lead		150	0.50 ug/ft2
Field ID: CLEAR-ARCH-C8E-EXT-6 TO 7-231031-L-WF		Batch#: 325629	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-004		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 50.00		Analyzed: 11/01/23	
494976-004 Analyte		Result	RL Units
Lead		2,100	11 ug/ft2
Field ID: CLEAR-SCAF-Z5EAB-L14-231031-L		Batch#: 325629	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-005		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 1.000		Analyzed: 11/01/23	
494976-005 Analyte		Result	RL Units
Lead		210	0.50 ug/ft2

Lead

Lab #: 494976		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5EAB-L14-231031-L	Batch#: 325629	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/31/23	Analysis: EPA 6010B	
Lab ID: 494976-006	Received: 10/31/23	Analyst: KLN	
Matrix: Wipe	Prepared: 11/01/23		
Diln Fac: 1.000	Analyzed: 11/01/23		
494976-006 Analyte		Result	RL Units
Lead		260	0.50 ug/ft2
Field ID: CLEAR-ARCH-C9E-PS-6.5-231031-L-G		Batch#: 325629	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-007		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 1.000		Analyzed: 11/01/23	
494976-007 Analyte		Result	RL Units
Lead		86	0.50 ug/ft2
Field ID: CLEAR-SCAF-Z5EAB-L12-231031-L		Batch#: 325629	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-008		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 50.00		Analyzed: 11/01/23	
494976-008 Analyte		Result	RL Units
Lead		590	11 ug/ft2
Field ID: CLEAR-ENC-Z5EAB-L12-231031-L		Batch#: 325629	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-009		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 1.000		Analyzed: 11/01/23	
494976-009 Analyte		Result	RL Units
Lead		300	0.50 ug/ft2
Field ID: CLEAR-ARCH-C9E-DG-7 TO 7.5-231031-L-FB		Batch#: 325629	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-010		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 1.000		Analyzed: 11/01/23	
494976-010 Analyte		Result	RL Units
Lead		30	0.50 ug/ft2

Lead

Lab #: 494976	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-SCAF-Z5EAB-L10-231031-L	Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE	Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-011	Received: 10/31/23	Analyst: KLN
Matrix: Wipe	Prepared: 11/01/23	
Diln Fac: 1.000	Analyzed: 11/01/23	

494976-011 Analyte	Result	RL	Units
Lead	400	0.50	ug/ft2

Field ID: CLEAR-ENC-Z5EAB-L10-231031-L	Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE	Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-012	Received: 10/31/23	Analyst: KLN
Matrix: Wipe	Prepared: 11/01/23	
Diln Fac: 50.00	Analyzed: 11/01/23	

494976-012 Analyte	Result	RL	Units
Lead	1,100	11	ug/ft2

Field ID: CLEAR-FIELDBLANK-231031-L-LO	Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE	Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-013	Received: 10/31/23	Analyst: KLN
Matrix: Wipe	Prepared: 11/01/23	
Diln Fac: 1.000	Analyzed: 11/01/23	

494976-013 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Field ID: CLEAR-MEDBLANK-231031-L-LO	Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE	Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494976-014	Received: 10/31/23	Analyst: KLN
Matrix: Wipe	Prepared: 11/01/23	
Diln Fac: 1.000	Analyzed: 11/01/23	

494976-014 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK	Batch#: 325629	Analysis: EPA 6010B
Lab ID: QC1104062	Prepared: 11/01/23	Analyst: KLN
Matrix: Wipe	Analyzed: 11/01/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1104062 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Lead

Lab #: 494976

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BLANK

Batch#: 325630

Analysis: EPA 6010B

Lab ID: QC1104072

Prepared: 11/01/23

Analyst: KLN

Matrix: Wipe

Analyzed: 11/01/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104072 Analyte
Result
RL
Units

Lead

ND

0.50

ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 494976

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 325629

Analysis: EPA 6010B

Lab ID: QC1104063

Prepared: 11/01/23

Analyst: KLN

Matrix: Wipe

Analyzed: 11/01/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104063 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	56.49	113	80-120	ug/ft2

Type: BS

Batch#: 325630

Analysis: EPA 6010B

Lab ID: QC1104073

Prepared: 11/01/23

Analyst: KLN

Matrix: Wipe

Analyzed: 11/01/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104073 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	53.21	106	80-120	ug/ft2

Type: BSD

Batch#: 325629

Analysis: EPA 6010B

Lab ID: QC1104064

Prepared: 11/01/23

Analyst: KLN

Matrix: Wipe

Analyzed: 11/01/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104064 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	54.36	109	80-120	ug/ft2	4	20

Type: BSD

Batch#: 325630

Analysis: EPA 6010B

Lab ID: QC1104074

Prepared: 11/01/23

Analyst: KLN

Matrix: Wipe

Analyzed: 11/01/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104074 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	54.40	109	80-120	ug/ft2	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 494977
Report Level: II
Report Date: 11/01/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 494977
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 10/31/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-AFRAME-C9E-LAT-L3-UP-C9.4-VS-231031-L-LA	494977-001	10/31/23 09:40	Wipe
CLEAR-SCAF-Z5EAB-L7-231031-L	494977-002	10/31/23 09:40	Wipe
CLEAR-ENC-Z5EAB-L7-231031-L	494977-003	10/31/23 09:40	Wipe
CLEAR-AFRAME-C8E-LAT-L2-UP-C8.1-VS-231031-L-I	494977-004	10/31/23 12:35	Wipe
CLEAR-SCAF-Z5EAB-L4-231031-L	494977-005	10/31/23 12:40	Wipe
CLEAR-ENC-Z5EAB-L4-231031-L	494977-006	10/31/23 12:45	Wipe
CLEAR-ENC-Z5EAB-L4-231031-L-DUP	494977-007	10/31/23 12:45	Wipe
CLEAR-AFRAME-C11E-LAT-L1-INT-1 TO 2-231031-L-FB	494977-008	10/31/23 12:55	Wipe
CLEAR-SCAF-Z5EAB-L1-231031-L	494977-009	10/31/23 13:00	Wipe
CLEAR-ENC-Z5EAB-L1-231031-L	494977-010	10/31/23 13:05	Wipe
CLEAR-FIELDBLANK-231031-L-HO	494977-011	10/31/23 09:35	Wipe
CLEAR-MEDBLANK-231031-L-HO	494977-012	10/31/23 11:50	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 494977
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 10/31/23

This data package contains sample and QC results for twelve wipe samples, requested for the above referenced project on 11/01/23. The samples were received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.

6:4977

Chain of Custody Record				Turn Around Time (rush by advanced notice only)																																																																																																			
COC ID:				Standard:																																																																																																			
Page: 1 of 1				3 Day: Custom TAT: X (Ph) same-day																																																																																																			
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900				Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other:																																																																																																			
CUSTOMER INFORMATION Company: Rincon Consultants, Inc. Report To: Lindsay Parker Email: lparker@rinciconsultants.com Address: 449 15th Street, Suite 303 Oakland, California 94612 Phone: (651) 890-9556 Fax:				PROJECT INFORMATION Quote #: RIN031721 Proj. Name: Hangar 1 - NCTRA WP Proj. #: 20-10491 P.O. #: 158 Cody Road, Mountain View, CA Address: Global ID: Sampled By: T. Sirovack + M. Kim																																																																																																			
Analysis Request Lead - EPA Method 3050/60108				Test Instructions / Comments Clearance Wipe Samples - Level II Report/Stage 2A Validation Report lead concentrations on a µg/ft² basis Wipe samples collected from Zone 5 Enclosure A/B (High Occupancy)																																																																																																			
<table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sampling Date</th> <th>Sampling Time</th> <th>Matrix</th> <th>Container No. / Size</th> <th>Pres.</th> </tr> </thead> <tbody> <tr><td>1</td><td>10/31/2023</td><td>0940</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>2</td><td>10/31/2023</td><td>0940</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>3</td><td>10/31/2023</td><td>0940</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>4</td><td>10/31/2023</td><td>1235</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>5</td><td>10/31/2023</td><td>1240</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>6</td><td>10/31/2023</td><td>1245</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>7</td><td>10/31/2023</td><td>1245</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>8</td><td>10/31/2023</td><td>1755</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>9</td><td>10/31/2023</td><td>1300</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>10</td><td>10/31/2023</td><td>1305</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>11</td><td>10/31/2023</td><td>0935</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>12</td><td>10/31/2023</td><td>1150</td><td>WP</td><td>1</td><td>X</td></tr> <tr><td>13</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	1	10/31/2023	0940	WP	1	X	2	10/31/2023	0940	WP	1	X	3	10/31/2023	0940	WP	1	X	4	10/31/2023	1235	WP	1	X	5	10/31/2023	1240	WP	1	X	6	10/31/2023	1245	WP	1	X	7	10/31/2023	1245	WP	1	X	8	10/31/2023	1755	WP	1	X	9	10/31/2023	1300	WP	1	X	10	10/31/2023	1305	WP	1	X	11	10/31/2023	0935	WP	1	X	12	10/31/2023	1150	WP	1	X	13						14						15						Date / Time 10/31/23 14:08 10/31/23 14:08 10/31/23 15:38 10/31/23 15:58 10/31/23 16:25 11/1/23 0944			
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.																																																																																																		
1	10/31/2023	0940	WP	1	X																																																																																																		
2	10/31/2023	0940	WP	1	X																																																																																																		
3	10/31/2023	0940	WP	1	X																																																																																																		
4	10/31/2023	1235	WP	1	X																																																																																																		
5	10/31/2023	1240	WP	1	X																																																																																																		
6	10/31/2023	1245	WP	1	X																																																																																																		
7	10/31/2023	1245	WP	1	X																																																																																																		
8	10/31/2023	1755	WP	1	X																																																																																																		
9	10/31/2023	1300	WP	1	X																																																																																																		
10	10/31/2023	1305	WP	1	X																																																																																																		
11	10/31/2023	0935	WP	1	X																																																																																																		
12	10/31/2023	1150	WP	1	X																																																																																																		
13																																																																																																							
14																																																																																																							
15																																																																																																							
Relinquished By: [Signature]				Print Name: Michaela Kim																																																																																																			
Received By: [Signature]				Company / Title: Rincon/Env Scientist EA																																																																																																			
Relinquished By: [Signature]				Company / Title: Rincon/Env Scientist EA																																																																																																			
Relinquished By: [Signature]				Company / Title: Rincon/Env Scientist EA																																																																																																			
Relinquished By: [Signature]				Company / Title: Rincon/Env Scientist EA																																																																																																			
Relinquished By: [Signature]				Company / Title: Rincon/Env Scientist EA																																																																																																			

The below sample checklist was completed after delivery of the samples by the laboratory provided courier or Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST				
Section 1: General Info				
Date Received: <u>10/31/23</u> Login # <u>494977</u> Client: <u>Rincon</u>				
Section 2: Shipping / Custody				
Shipping Info: _____				
Are custody seals present? ☒ No ☐ Yes If yes, where? ☐ on cooler, ☐ on samples, ☐ on package				
Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials				
Section 3: Condition / Packaging Important: Notify PM if temperature exceeds 6°C or arrive frozen				
Date Opened <u>10/31/23</u> By (print) _____ (sign) _____				
☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)				
If no cooler: Sample Temp (°C): _____				
How many coolers? <u>1</u> Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____				
Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C				
Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No				
Section 4: Containers / Labels / Samples				YES NO N/A
Were custody papers dry, filled out properly, and the project identifiable?				/
Were Method 5035 sampling containers present? Transferred to freezer @: _____				/
Did all containers arrive unbroken/unopened?				/
Are there any missing / extra samples?				/
Are samples in the appropriate containers for indicated tests?				/
Are sample labels present, in good condition and complete?				/
Does the container count match the COC?				/
Do the sample labels agree with custody papers?				/
Was sufficient amount of sample sent for tests requested?				/
Did you change the hold time in LIMS for unpreserved VOAs?				/
Did you change the hold time in LIMS for preserved terracores?				/
Are bubbles > 6mm present in VOA samples?				/
Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____				/
Section 5: Preservatives				YES NO N/A
Are the samples appropriately preserved? (if yes, skip the rest of section 5)				/
Did any samples / containers require preservation upon receipt?				/
Did you document your preservative check in the bench book?				/
Preservative added:				
☐ H2SO4 lot# _____ added to samples _____ Date/Time _____				
☐ HCL lot# _____ added to samples _____ Date/Time _____				
☐ HNO3 lot# _____ added to samples _____ Date/Time _____				
☐ CrVI Buffer lot# _____ added to samples _____ Date/Time _____				
Section 6: Explanations / Comments				
Date Logged <u>10/31/23</u>		By (print) <u>mm</u> (sign) _____		
Date Labeled <u>10/31/23</u>		By (print) <u>mm</u> (sign) _____		

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: Rincon Consultants	Project: Hangar 1 NTCRA
Date Received: 11/1/23	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)	Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: 5.6 #2: _____ #3: _____ #4: _____	
<i>(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)</i>	
Shipping Information: _____	

Section 3	
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: 2.7 #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments
494977

Section 6
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____
Project Manager's response:

Completed By: _____

Date: _____

NOV 01 2023

10/31/23, 4:34 PM

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID: MYFA (909) 247-8800
TAYLOR NASU
ENTHALPY ANALYTICAL
4340 VANDEVER AVE
SAN DIEGO, CA 92120
UNITED STATES US
SHIP DATE: 31OCT23
ACTWGT: 12.50 LB
CAD: 11168297/ANET4660
DIMS: 12x12x12 IN
BILL SENDER
TO **SAMPLE RECEIVING**
ENTHALPY ORG
931 WEST BARKLEY AVE

ORANGE CA 92868

REF: (714) 771-6900

INV:

PO:

DEPT:



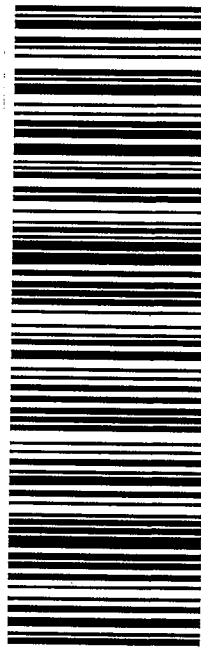
WED - 01 NOV 5:00P

STANDARD OVERNIGHT

TRK# 7739 3180 2779

0201

92 APVA
92868
SNA
CA-US



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

<https://www.fedex.com/shipping/shipmentConfirmationAction.handle?method=doContinue>

2-7/5-c

Lead

Lab #: 494977

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C9E-LAT-L3-UP-C9.4-VS-231031-L-LA

Type: SAMPLE

Lab ID: 494977-001

Matrix: Wipe

Diln Fac: 50.00

Batch#: 325630

Sampled: 10/31/23

Received: 10/31/23

Prepared: 11/01/23

Analyzed: 11/01/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

494977-001 Analyte	Result	RL	Units
Lead	570	11	ug/ft2

Field ID: CLEAR-SCAF-Z5EAB-L7-231031-L

Type: SAMPLE

Lab ID: 494977-002

Matrix: Wipe

Diln Fac: 50.00

Batch#: 325630

Sampled: 10/31/23

Received: 10/31/23

Prepared: 11/01/23

Analyzed: 11/01/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

494977-002 Analyte	Result	RL	Units
Lead	1,800	11	ug/ft2

Field ID: CLEAR-ENC-Z5EAB-L7-231031-L

Type: SAMPLE

Lab ID: 494977-003

Matrix: Wipe

Diln Fac: 1.000

Batch#: 325630

Sampled: 10/31/23

Received: 10/31/23

Prepared: 11/01/23

Analyzed: 11/01/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

494977-003 Analyte	Result	RL	Units
Lead	98	0.50	ug/ft2

Field ID: CLEAR-AFRAME-C8E-LAT-L2-UP-C8.1-VS-231031-L-I

Type: SAMPLE

Lab ID: 494977-004

Matrix: Wipe

Diln Fac: 1.000

Batch#: 325630

Sampled: 10/31/23

Received: 10/31/23

Prepared: 11/01/23

Analyzed: 11/01/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

494977-004 Analyte	Result	RL	Units
Lead	370	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5EAB-L4-231031-L

Type: SAMPLE

Lab ID: 494977-005

Matrix: Wipe

Diln Fac: 50.00

Batch#: 325630

Sampled: 10/31/23

Received: 10/31/23

Prepared: 11/01/23

Analyzed: 11/01/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

494977-005 Analyte	Result	RL	Units
Lead	640	11	ug/ft2

Lead

Lab #: 494977		Project#: 20-10491	
Client: Rincon Consultants		Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5EAB-L4-231031-L	Batch#: 325630	Prep: EPA 3050B	
Type: SAMPLE	Sampled: 10/31/23	Analysis: EPA 6010B	
Lab ID: 494977-006	Received: 10/31/23	Analyst: KLN	
Matrix: Wipe	Prepared: 11/01/23		
Diln Fac: 1.000	Analyzed: 11/01/23		
494977-006 Analyte		Result	RL Units
Lead		280	0.50 ug/ft2
Field ID: CLEAR-ENC-Z5EAB-L4-231031-L-DUP		Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494977-007		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 1.000		Analyzed: 11/01/23	
494977-007 Analyte		Result	RL Units
Lead		270	0.50 ug/ft2
Field ID: CLEAR-AFRAME-C11E-LAT-L1-INT-1 TO 2-231031-L-FB		Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494977-008		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 50.00		Analyzed: 11/01/23	
494977-008 Analyte		Result	RL Units
Lead		780	11 ug/ft2
Field ID: CLEAR-SCAF-Z5EAB-L1-231031-L		Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494977-009		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 1.000		Analyzed: 11/01/23	
494977-009 Analyte		Result	RL Units
Lead		380	0.50 ug/ft2
Field ID: CLEAR-ENC-Z5EAB-L1-231031-L		Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE		Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494977-010		Received: 10/31/23	Analyst: KLN
Matrix: Wipe		Prepared: 11/01/23	
Diln Fac: 50.00		Analyzed: 11/01/23	
494977-010 Analyte		Result	RL Units
Lead		1,000	11 ug/ft2

Lead

Lab #: 494977	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-FIELDBLANK-231031-L-HO	Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE	Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494977-011	Received: 10/31/23	Analyst: KLN
Matrix: Wipe	Prepared: 11/01/23	
Diln Fac: 1.000	Analyzed: 11/01/23	

494977-011 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Field ID: CLEAR-MEDBLANK-231031-L-HO	Batch#: 325630	Prep: EPA 3050B
Type: SAMPLE	Sampled: 10/31/23	Analysis: EPA 6010B
Lab ID: 494977-012	Received: 10/31/23	Analyst: KLN
Matrix: Wipe	Prepared: 11/01/23	
Diln Fac: 1.000	Analyzed: 11/01/23	

494977-012 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Type: BLANK	Batch#: 325630	Analysis: EPA 6010B
Lab ID: QC1104072	Prepared: 11/01/23	Analyst: KLN
Matrix: Wipe	Analyzed: 11/01/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1104072 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 494977

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 325630

Analysis: EPA 6010B

Lab ID: QC1104073

Prepared: 11/01/23

Analyst: KLN

Matrix: Wipe

Analyzed: 11/01/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104073 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	53.21	106	80-120	ug/ft2

Type: BSD

Batch#: 325630

Analysis: EPA 6010B

Lab ID: QC1104074

Prepared: 11/01/23

Analyst: KLN

Matrix: Wipe

Analyzed: 11/01/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104074 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	54.40	109	80-120	ug/ft2	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 495233
Report Level: II
Report Date: 11/06/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
 Rincon Consultants
 449 15th Street
 #303
 Oakland, CA 94612

Lab Job #: 495233
 Project No: 20-10491
 Location: Hangar 1 NTCRA
 Date Received: 11/03/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-AFRAME-C9E-LAT-L3-UP-C9.4-VS-231103-L-LA	495233-001	11/03/23 09:25	Wipe
CLEAR-SCAF-Z5EAB-L7-231103-L	495233-002	11/03/23 09:30	Wipe
CLEAR-AFRAME-C8E-LAT-L2-UP-C8.1-VS-231103-L-I	495233-003	11/03/23 09:40	Wipe
CLEAR-SCAF-Z5EAB-L4-231103-L	495233-004	11/03/23 09:45	Wipe
CLEAR-ENC-Z5EAB-L4-231103-L	495233-005	11/03/23 09:50	Wipe
CLEAR-ENC-Z5EAB-L4-231103-L-DUP	495233-006	11/03/23 09:55	Wipe
CLEAR-AFRAME-C11E-LAT-L1-INT-1 TO 2-231103-L-FB	495233-007	11/03/23 10:00	Wipe
CLEAR-SCAF-Z5EAB-L1-231103-L	495233-008	11/03/23 10:05	Wipe
CLEAR-ENC-Z5EAB-L1-231103-L	495233-009	11/03/23 10:10	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 495233
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 11/03/23

This data package contains sample and QC results for nine wipe samples, requested for the above referenced project on 11/06/23. The samples were received cold and intact.

Metals (EPA 6010B):

- An exceedance on lead was observed in an interference check standard, however there are no relevant interferents present in the samples or QC. Results are flagged "b" but there is no impact on the reported data.
- No other analytical problems were encountered.



ENTHALPY
ANALYTICAL

Section 1: General Info

Section 2: Shipping / Custody

Shipping Info:

Custody seals intact on arrival? ☐ Yes ☐ No ☐ N/A Date: _____ # of seals _____ ☐ Signature ☐ Initials

Section 3: Condition / Packaging

Important: Notify PM if temperature exceeds 6°C or arrive frozen

Date Opened 4/3/05 By (print) me (sign)

☒ Samples received on ice directly from the field. Cooling process had begun. (if checked, skip temperatures)

If no cooler: Sample Temp (°C):

How many coolers? 1 Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____ #5: _____ #6: _____

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Section 4: Containers / Labels / Samples

Were custody papers dry, filled out properly, and the project identifiable?

Were Method 5035 sampling containers present? Transferred to freezer @

Did all containers arrive unbroken/unopened?	
--	--

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount	of sample sent for tests requested?
-----------------------	-------------------------------------

Did you change the hold time in LIMS for unpreserved VOAs?	
--	--

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted about this delivery? Contacted: _____ By: _____ Date: _____

Section 5: Preservatives

Are the samples appropriately preserved? (if yes, skip the rest of section 5)

Did any samples / containers require preservation upon receipt?

Did you document your preservative check in the bench book?	
---	--

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ Date/Time _____

☐ HCL lot# _____ added to samples _____ Date/Time _____

☐ HNO3 lot# _____ added to samples _____ Date/Time _____

☐ CrVI Buffer lot#		added to samples		Date/Time
---	--	------------------	--	-----------

Section 6: Explanations / Comments

Date Logged 11/3/23 By (print) MZ (sign) 

Date Labeled 4/3/27 By (print) AM (sign) [Signature]



SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: <u>Rincon Consultants</u>	Project: <u>Hangar 1 NTCRA</u>
Date Received: <u>11/4/23</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u>	☐ No (skip section 2)
Sample Temp (°C), One from each cooler: #1: <u>4.7</u> #2: _____ #3: _____ #4: _____	Sample Temp (°C) (No Cooler) : _____
<i>(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)</i>	
Shipping Information: _____	

Section 3	
Was the cooler packed with:	☒ Ice ☒ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____
Cooler Temp (°C): #1: <u>2.3</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments
495233

Section 6	
For discrepancies, how was the Project Manager notified?	☐ Verbal PM Initials: _____ Date/Time _____ ☐ Email (email sent to/on): _____ / _____
Project Manager's response:	

Completed By: [Signature] Date: NOV 04 2023

SOUTHWEST AIRLINES

Printed on:
03 NOV 19:45

526 OAK 9519 5015



ONT	
OAK	WN 714 04 NOV 07:10
STN	FLT DATE ETD LOT 01

PC#	4 OF 7	DG	G	LOT WT	270 LB
				(122.4 KG)	



PC ID: 0004
PC WT: 39LB

526 95195015 0004

S

C2

9:56

2.3/4.7

Lead

Lab #: 495233

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C9E-LAT-L3-UP-C9.4-VS-231103-L-LA

Batch#: 325903

Prep: EPA 3050B

Type: SAMPLE

Sampled: 11/03/23

Analysis: EPA 6010B

Lab ID: 495233-001

Received: 11/03/23

Analyst: SBW

Matrix: Wipe

Prepared: 11/05/23

Diln Fac: 10.00

Analyzed: 11/06/23

495233-001 Analyte	Result	RL	Units	Qual
Lead	820	2.2	ug/ft2	b

Field ID: CLEAR-SCAF-Z5EAB-L7-231103-L

Batch#: 325903

Prep: EPA 3050B

Type: SAMPLE

Sampled: 11/03/23

Analysis: EPA 6010B

Lab ID: 495233-002

Received: 11/03/23

Analyst: SBW

Matrix: Wipe

Prepared: 11/05/23

Diln Fac: 10.00

Analyzed: 11/06/23

495233-002 Analyte	Result	RL	Units	Qual
Lead	1,200	2.2	ug/ft2	b

Field ID: CLEAR-AFRAME-C8E-LAT-L2-UP-C8.1-VS-231103-L-I

Batch#: 325903

Prep: EPA 3050B

Type: SAMPLE

Sampled: 11/03/23

Analysis: EPA 6010B

Lab ID: 495233-003

Received: 11/03/23

Analyst: SBW

Matrix: Wipe

Prepared: 11/05/23

Diln Fac: 1.000

Analyzed: 11/06/23

495233-003 Analyte	Result	RL	Units	Qual
Lead	170	0.50	ug/ft2	

Field ID: CLEAR-SCAF-Z5EAB-L4-231103-L

Batch#: 325903

Prep: EPA 3050B

Type: SAMPLE

Sampled: 11/03/23

Analysis: EPA 6010B

Lab ID: 495233-004

Received: 11/03/23

Analyst: SBW

Matrix: Wipe

Prepared: 11/05/23

Diln Fac: 10.00

Analyzed: 11/06/23

495233-004 Analyte	Result	RL	Units	Qual
Lead	1,400	2.2	ug/ft2	b

Field ID: CLEAR-ENC-Z5EAB-L4-231103-L

Batch#: 325903

Prep: EPA 3050B

Type: SAMPLE

Sampled: 11/03/23

Analysis: EPA 6010B

Lab ID: 495233-005

Received: 11/03/23

Analyst: SBW

Matrix: Wipe

Prepared: 11/05/23

Diln Fac: 1.000

Analyzed: 11/06/23

495233-005 Analyte	Result	RL	Units	Qual
Lead	380	0.50	ug/ft2	

Lead

Lab #: 495233	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5EAB-L4-231103-L-DUP	Batch#: 325903	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/03/23	Analysis: EPA 6010B
Lab ID: 495233-006	Received: 11/03/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/05/23	
Diln Fac: 1.000	Analyzed: 11/06/23	

495233-006 Analyte	Result	RL	Units
Lead	320	0.50	ug/ft2

Field ID: CLEAR-AFRAME-C11E-LAT-L1-INT-1 TO 2-231103-L-FB	Batch#: 325903	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/03/23	Analysis: EPA 6010B
Lab ID: 495233-007	Received: 11/03/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/05/23	
Diln Fac: 1.000	Analyzed: 11/06/23	

495233-007 Analyte	Result	RL	Units
Lead	240	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5EAB-L1-231103-L	Batch#: 325903	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/03/23	Analysis: EPA 6010B
Lab ID: 495233-008	Received: 11/03/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/05/23	
Diln Fac: 10.00	Analyzed: 11/06/23	

495233-008 Analyte	Result	RL	Units	Qual
Lead	1,000	2.2	ug/ft2	b

Field ID: CLEAR-ENC-Z5EAB-L1-231103-L	Batch#: 325903	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/03/23	Analysis: EPA 6010B
Lab ID: 495233-009	Received: 11/03/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/05/23	
Diln Fac: 1.000	Analyzed: 11/06/23	

495233-009 Analyte	Result	RL	Units
Lead	95	0.50	ug/ft2

Type: BLANK	Batch#: 325903	Analysis: EPA 6010B
Lab ID: QC1104970	Prepared: 11/05/23	Analyst: SBW
Matrix: Wipe	Analyzed: 11/06/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1104970 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

b: See narrative

Lead: Batch QC

Lab #: 495233

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 325903

Analysis: EPA 6010B

Lab ID: QC1104971

Prepared: 11/05/23

Analyst: SBW

Matrix: Wipe

Analyzed: 11/06/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104971 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	54.35	109	80-120	ug/ft2

Type: BSD

Batch#: 325903

Analysis: EPA 6010B

Lab ID: QC1104972

Prepared: 11/05/23

Analyst: SBW

Matrix: Wipe

Analyzed: 11/06/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104972 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	55.18	110	80-120	ug/ft2	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 495259
Report Level: II
Report Date: 11/06/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #: 495259
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 11/03/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C8E-PS-5.5-231103-L-G	495259-001	11/03/23 08:40	Wipe
CLEAR-SCAF-Z5EAB-L16-231103-L	495259-002	11/03/23 08:45	Wipe
CLEAR-ARCH-C8E-EXT-6 TO 7-231103-L-WF	495259-003	11/03/23 08:50	Wipe
CLEAR-ENC-Z5EAB-L14-231103-L	495259-004	11/03/23 08:55	Wipe
CLEAR-SCAF-Z5EAB-L12-231103-L	495259-005	11/03/23 09:00	Wipe
CLEAR-ENC-Z5EAB-L12-231103-L	495259-006	11/03/23 09:05	Wipe
CLEAR-SCAF-Z5EAB-L10-231103-L	495259-007	11/03/23 09:10	Wipe
CLEAR-ENC-Z5EAB-L10-231103-L	495259-008	11/03/23 09:15	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 495259
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 11/03/23

This data package contains sample and QC results for eight wipe samples, requested for the above referenced project on 11/06/23. The samples were received cold and intact.

Metals (EPA 6010B):

- An exceedance on lead was observed in an interference check standard, however there are no relevant interferents present in the samples or QC. Results are flagged "b" but there is no impact on the reported data.
- No other analytical problems were encountered.

495259

ENHANTHALPY		Chain of Custody Record		Turn Around Time (rush by advanced notice only)			
Enthalpy Analytical - Orange		COC ID:		Standard:		3 Day:	
931 W. Bartley Avenue, Orange, CA 92668 Phone 714-771-6900		Page: 1 of 1		2 Day:		Custom TAT:	
Matrix: A = Air S = Soil/Solid		Preservatives:		1 Day:		Sample Receipt Temp:	
W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA =		SW = Swab T = Tissue WP = Wipe O = Other		1 = Na ₂ S ₂ O ₅ 2 = HCl 3 = HNO ₃			
SEA-Water		Report: Level II		4 = H ₂ SO ₄ 5 = NaOH 6 = Other			
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request		Test Instructions / Comments	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721	Lead - EPA Method 3050/50108		Clearance Wipe Samples - Level II	
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP			Report/Stage 2A Validation	
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491			Report lead concentrations on a µg/l ² basis	
Address:	449 15th Street, Suite 303	P.O. #:				*clearance	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA			resampling	
Phone:	(651) 890-9556	Global ID:				Wipe samples collected from	
Fax:		Sampled By:	M. Kim			Zone 5 Enclosure A/B (Low Occupancy)	
		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	6x Rivet Type 1 = 0.077942
1	CLEAR-ARCH-C8E-PS-5-231103-L-G	11/3/2023	0840	WP	1		
2	CLEAR-SCAF-Z5EAB-L16-231103-L	11/3/2023	0845	WP	1		
3	CLEAR-ARCH-C8E-EXT-6 TO 7-231103-L-WF	11/3/2023	0850	WP	1		
4	CLEAR-ENC-Z5EAB-L14-231103-L	11/3/2023	0855	WP	1		
5	CLEAR-SCAF-Z5EAB-L12-231103-L	11/3/2023	0900	WP	1		
6	CLEAR-ENC-Z5EAB-L12-231103-L	11/3/2023	0905	WP	1		
7	CLEAR-SCAF-Z5EAB-L10-231103-L	11/3/2023	0910	WP	1		
8	CLEAR-ENC-Z5EAB-L10-231103-L	11/3/2023	0915	WP	1		
9							
10							
11							
12							
13							
14							
15							
Signature		Print Name		Company / Title		Date / Time	
1 Relinquished By:		Michaela Kim	Rincon / Env Scientist	11/3/23 @ 1213			
1 Received By:		Lisa Fung	EA	11/3/23	1213		
2 Relinquished By:		Lisa Fung	EA	11/3/23	1546		
2 Received By:		Michaela Kim	EA	11/3/23	1546		
3 Relinquished By:		Michaela Kim	EA	11/3/23	1600		
3 Received By:		Michaela Kim	EA	11/3/23	0956		

ea
ENTHALPY

5 of 10

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: Rincon Consultants	Project: Hangar 1 NTCRA
Date Received: 11/4/23	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u>	☐ No (skip section 2)
Sample Temp (°C), One from each cooler: #1: <u>4.7</u> #2: _____ #3: _____ #4: _____	Sample Temp (°C) (No Cooler): _____
<i>(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)</i>	
Shipping Information: _____	

Section 3	
Was the cooler packed with:	☒ Ice ☒ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____
Cooler Temp (°C): #1: <u>2.3</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?	☒		
If custody seals are present, were they intact?	☒		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments
495259

Section 6	
For discrepancies, how was the Project Manager notified?	☐ Verbal PM Initials: _____ Date/Time: _____ ☐ Email (email sent to/on): _____ / _____
Project Manager's response:	

Completed By: [Signature] Date: NOV 04 2023

SOUTHWEST AIRLINES

Printed on:
03 NOV 19:45

526 OAK 9519 5015



ONT		PC# 4 OF 7	DG G	LOT WT 270 LB (122.4 KG)
OAK	WN 714	04 NOV	07:10	
STN	FLT	DATE	ETD	LOT 01



PC ID: 0004
PC WT: 39LB

526 95195015 0004

S

C2

9:56

2.3/4.7

Lead

Lab #: 495259		Project#: 20-10491		
Client: Rincon Consultants		Location: Hangar 1 NTCRA		
Field ID: CLEAR-ARCH-C8E-PS-5.5-231103-L-G		Batch#: 325903	Prep: EPA 3050B	
Type: SAMPLE		Sampled: 11/03/23	Analysis: EPA 6010B	
Lab ID: 495259-001		Received: 11/03/23	Analyst: SBW	
Matrix: Wipe		Prepared: 11/05/23		
Diln Fac: 1.000		Analyzed: 11/06/23		
495259-001 Analyte		Result	RL	Units
Lead		190	0.50	ug/ft2
Field ID: CLEAR-SCAF-Z5EAB-L16-231103-L		Batch#: 325903	Prep: EPA 3050B	
Type: SAMPLE		Sampled: 11/03/23	Analysis: EPA 6010B	
Lab ID: 495259-002		Received: 11/03/23	Analyst: SBW	
Matrix: Wipe		Prepared: 11/05/23		
Diln Fac: 10.00		Analyzed: 11/06/23		
495259-002 Analyte		Result	RL	Units
Lead		1,800	2.2	ug/ft2
Field ID: CLEAR-ARCH-C8E-EXT-6 TO 7-231103-L-WF		Batch#: 325903	Prep: EPA 3050B	
Type: SAMPLE		Sampled: 11/03/23	Analysis: EPA 6010B	
Lab ID: 495259-003		Received: 11/03/23	Analyst: SBW	
Matrix: Wipe		Prepared: 11/05/23		
Diln Fac: 10.00		Analyzed: 11/06/23		
495259-003 Analyte		Result	RL	Units
Lead		540	2.2	ug/ft2
Field ID: CLEAR-ENC-Z5EAB-L14-231103-L		Batch#: 325903	Prep: EPA 3050B	
Type: SAMPLE		Sampled: 11/03/23	Analysis: EPA 6010B	
Lab ID: 495259-004		Received: 11/03/23	Analyst: SBW	
Matrix: Wipe		Prepared: 11/05/23		
Diln Fac: 1.000		Analyzed: 11/06/23		
495259-004 Analyte		Result	RL	Units
Lead		36	0.50	ug/ft2
Field ID: CLEAR-SCAF-Z5EAB-L12-231103-L		Batch#: 325903	Prep: EPA 3050B	
Type: SAMPLE		Sampled: 11/03/23	Analysis: EPA 6010B	
Lab ID: 495259-005		Received: 11/03/23	Analyst: SBW	
Matrix: Wipe		Prepared: 11/05/23		
Diln Fac: 1.000		Analyzed: 11/06/23		
495259-005 Analyte		Result	RL	Units
Lead		180	0.50	ug/ft2

Lead

Lab #: 495259	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-ENC-Z5EAB-L12-231103-L	Batch#: 325903	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/03/23	Analysis: EPA 6010B
Lab ID: 495259-006	Received: 11/03/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/05/23	
Diln Fac: 1.000	Analyzed: 11/06/23	

495259-006 Analyte	Result	RL	Units
Lead	71	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5EAB-L10-231103-L	Batch#: 325903	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/03/23	Analysis: EPA 6010B
Lab ID: 495259-007	Received: 11/03/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/05/23	
Diln Fac: 10.00	Analyzed: 11/06/23	

495259-007 Analyte	Result	RL	Units	Qual
Lead	790	2.2	ug/ft2	b

Field ID: CLEAR-ENC-Z5EAB-L10-231103-L	Batch#: 325903	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/03/23	Analysis: EPA 6010B
Lab ID: 495259-008	Received: 11/03/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/05/23	
Diln Fac: 1.000	Analyzed: 11/06/23	

495259-008 Analyte	Result	RL	Units
Lead	320	0.50	ug/ft2

Type: BLANK	Batch#: 325903	Analysis: EPA 6010B
Lab ID: QC1104970	Prepared: 11/05/23	Analyst: SBW
Matrix: Wipe	Analyzed: 11/06/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1104970 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend
ND: Not Detected
RL: Reporting Limit
b: See narrative

Lead: Batch QC

Lab #: 495259

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 325903

Analysis: EPA 6010B

Lab ID: QC1104971

Prepared: 11/05/23

Analyst: SBW

Matrix: Wipe

Analyzed: 11/06/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104971 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	54.35	109	80-120	ug/ft2

Type: BSD

Batch#: 325903

Analysis: EPA 6010B

Lab ID: QC1104972

Prepared: 11/05/23

Analyst: SBW

Matrix: Wipe

Analyzed: 11/06/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1104972 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	55.18	110	80-120	ug/ft2	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 495580
Report Level: II
Report Date: 11/09/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #: 495580
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 11/08/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-AFRAME-C9E-LAT-L3-UP-C9.4-VS-231108-L-LA	495580-001	11/08/23 08:10	Wipe
CLEAR-SCAF-Z5EAB-L7-231108-L	495580-002	11/08/23 08:15	Wipe
CLEAR-SCAF-Z5EAB-L4-231108-L	495580-003	11/08/23 08:20	Wipe
CLEAR-ENC-Z5EAB-L4-231108-L	495580-004	11/08/23 08:25	Wipe
CLEAR-ENC-Z5EAB-L4-231108-L-DUP	495580-005	11/08/23 08:30	Wipe
CLEAR-SCAF-Z5EAB-L1-231108-L	495580-006	11/08/23 08:35	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 495580
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 11/08/23

This data package contains sample and QC results for six wipe samples, requested for the above referenced project on 11/09/23. The samples were received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.

495580

Chain of Custody Record				Turn Around Time (rush by advanced notice only)			
COC ID:				Standard:			
Page: 1 of 1				3 Day: Custom TAT: X (Pb) same-day			
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92668 Phone 714-771-6900				Preservatives: 1 = Na ₂ S ₂ O ₅ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other Report: Level II			
PROJECT INFORMATION				Analysis Request			
CUSTOMER INFORMATION				Test Instructions / Comments			
Company:	Quote #:	Proj. Name:	Proj. #:	Clearance Wipe Samples - Level II			
Report To:	Rincon Consultants, Inc.	Hangar 1 - NCTRA WP	20-10491	Report/Stage 2A Validation			
Email:	lparker@rinconconsultants.com			Report lead concentrations on a µg/l2 basis			
Address:	449 15th Street, Suite 303			*clearance resampling			
	Oakland, California 94612			Wipe samples collected from			
Phone:	(510) 850-9556			Zone 5 Enclosure A/B (High Occupancy)			
Fax:							
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Lead - EPA Method 3050/60108	
1 CLEAR-AFRAME-C9E-LAT-L3-UP-C9-4-VS-231108-L-LA	11/8/2023	0810	WP	1		X	
2 CLEAR-SCAF-Z5EAB-L7-231108-L	11/8/2023	0815	WP	1		X	
3 CLEAR-SCAF-Z5EAB-L4-231108-L	11/8/2023	0820	WP	1		X	
4 CLEAR-ENC-Z5EAB-L4-231108-L	11/8/2023	0825	WP	1		X	
5 CLEAR-ENC-Z5EAB-L4-231108-L-DUP	11/8/2023	0830	WP	1		X	
6 CLEAR-SCAF-Z5EAB-L1-231108-L	11/8/2023	0835	WP	1		X	
7							
8							
9							
10							
11							
12							
13							
14							
15							
Signature			Print Name		Company / Title		
1 Relinquished By: Phil Hudson			Donald Wilson		Rincon / Enthalpy		
1 Received By: Lindsey Hudson			Amanda Hudson		Enthalpy		
2 Relinquished By: Lindsey Hudson			"		"		
2 Received By: Phil Hudson			Munni Aguiar		BA		
3 Relinquished By: Phil Hudson			Amanda Hudson		BA		
3 Received By: Phil Hudson			Lorena Siqueira		E.A.		

4.0/0.8 ice pk



ENTHALPY
SOLUTIONS

5 of 10

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL **SAMPLE ACCEPTANCE CHECKLIST**

Section 1	
Client: Rincon Consultants <u>G.E.S.</u>	Project: <u>Hanger 1 - NCTRA</u>
Date Received: <u>11/09/23</u> <u>11/9/23</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u>	☐ No (skip section 2)
Sample Temp (°C), One from each cooler: #1: <u>4.0</u> #2: <u></u> #3: <u></u> #4: <u></u>	Sample Temp (°C) (No Cooler) <u></u>
(Acceptance range is < 5°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)	
Shipping Information: <u></u>	

Section 3	
Was the cooler packed with:	☐ Ice ☒ Ice Packs ☐ Paper ☐ None
	☒ Bubble Wrap ☐ Styrofoam ☐ Other <u></u>
Cooler Temp (°C): #1: <u>0.8</u> #2: <u></u> #3: <u></u> #4: <u></u>	

Section 4		YES	NO	N/A
Was a COC received?		☒		
Are sample IDs present?		☒		
Are sampling dates & times present?		☒		
Is a relinquished signature present?		☒		
Are the tests required clearly indicated on the COC?		☒		
Are custody seals present?			☒	
If custody seals are present, were they intact?				☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)				☒
Did all samples arrive intact? If no, indicate in Section 4 below.		☒		
Did all bottle labels agree with COC? (ID, dates and times)		☒		
Were the samples collected in the correct containers for the required tests?		☒		
Are the containers labeled with the correct preservatives?				☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?				☒
Was a sufficient amount of sample submitted for the requested tests?		☒		

Section 5 Explanations/Comments
<u></u>

Section 6	
For discrepancies, how was the Project Manager notified?	☐ Verbal PM Initials: <u></u> Date/Time <u></u> ☐ Email (email sent to/on): <u></u> / <u></u>
Project Manager's response: <u></u>	

Completed By: G.E.S. Date: NOV 09 2023

11/8/23, 3:56 PM

ORIGIN ID: JEMA (510) 486-0900
MACCEWILL YIP
ENTHALPY ANALYTICAL
2323 5TH ST
BERKELEY, CA 94710
UNITED STATES US

SHIP DATE: 08NOV23
ACTWGT: 11.00 LB
CAD: 111082977/INET4660
DIMS: 12x12x12 IN

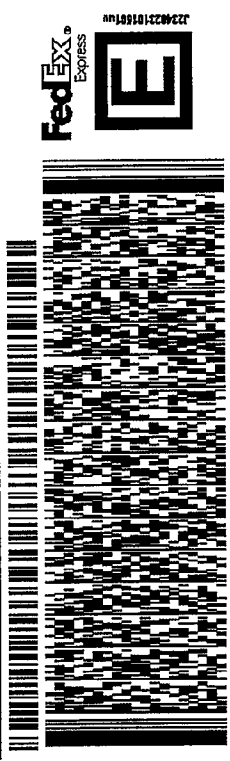
BILL SENDER

TO **ELITE SR**
ENTHALPY ORG
931 WEST BARKLEY AVE

ORANGE CA 92868

REF: (714) 771-6900
INV: PO: DEPT:

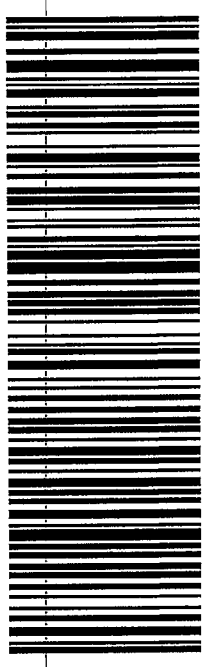
583J5F0B29AE3



THU - 09 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 7740 4519 6749
0201

92 APVA
92868
SNA
CA-US



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or Inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g., jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Lead

Lab #: 495580

Client: Rincon Consultants

Project#: 20-10491

Location: Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C9E-LAT-L3-UP-C9.4-VS-231108-L-LA

Type: SAMPLE

Lab ID: 495580-001

Matrix: Wipe

Diln Fac: 1.000

Batch#: 326225

Sampled: 11/08/23

Received: 11/08/23

Prepared: 11/09/23

Analyzed: 11/09/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

495580-001 Analyte	Result	RL	Units
Lead	280	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5EAB-L7-231108-L

Type: SAMPLE

Lab ID: 495580-002

Matrix: Wipe

Diln Fac: 1.000

Batch#: 326225

Sampled: 11/08/23

Received: 11/08/23

Prepared: 11/09/23

Analyzed: 11/09/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

495580-002 Analyte	Result	RL	Units
Lead	360	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5EAB-L4-231108-L

Type: SAMPLE

Lab ID: 495580-003

Matrix: Wipe

Diln Fac: 1.000

Batch#: 326225

Sampled: 11/08/23

Received: 11/08/23

Prepared: 11/09/23

Analyzed: 11/09/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

495580-003 Analyte	Result	RL	Units
Lead	290	0.50	ug/ft2

Field ID: CLEAR-ENC-Z5EAB-L4-231108-L

Type: SAMPLE

Lab ID: 495580-004

Matrix: Wipe

Diln Fac: 1.000

Batch#: 326225

Sampled: 11/08/23

Received: 11/08/23

Prepared: 11/09/23

Analyzed: 11/09/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

495580-004 Analyte	Result	RL	Units
Lead	21	0.50	ug/ft2

Field ID: CLEAR-ENC-Z5EAB-L4-231108-L-DUP

Type: SAMPLE

Lab ID: 495580-005

Matrix: Wipe

Diln Fac: 1.000

Batch#: 326225

Sampled: 11/08/23

Received: 11/08/23

Prepared: 11/09/23

Analyzed: 11/09/23

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: SBW

495580-005 Analyte	Result	RL	Units
Lead	22	0.50	ug/ft2

Lead

Lab #: 495580	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-SCAF-Z5EAB-L1-231108-L	Batch#: 326225	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/08/23	Analysis: EPA 6010B
Lab ID: 495580-006	Received: 11/08/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/09/23	
Diln Fac: 1.000	Analyzed: 11/09/23	

495580-006 Analyte	Result	RL	Units
Lead	120	0.50	ug/ft2

Type: BLANK	Batch#: 326225	Analysis: EPA 6010B
Lab ID: QC1106005	Prepared: 11/09/23	Analyst: SBW
Matrix: Wipe	Analyzed: 11/09/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1106005 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 495580

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 326225

Analysis: EPA 6010B

Lab ID: QC1106006

Prepared: 11/09/23

Analyst: SBW

Matrix: Wipe

Analyzed: 11/09/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1106006 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	114.1	114	80-120	ug/ft2

Type: BSD

Batch#: 326225

Analysis: EPA 6010B

Lab ID: QC1106007

Prepared: 11/09/23

Analyst: SBW

Matrix: Wipe

Analyzed: 11/09/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1106007 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	111.1	111	80-120	ug/ft2	3	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 495584
Report Level: II
Report Date: 11/09/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #: 495584
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 11/08/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-SCAF-Z5EAB-L16-231108-L	495584-001	11/08/23 07:40	Wipe
CLEAR-ARCH-C8E-EXT-6 TO 7-231108-L-WF	495584-002	11/08/23 07:50	Wipe
CLEAR-SCAF-Z5EAB-L10-231108-L	495584-003	11/08/23 08:00	Wipe
CLEAR-ENC-Z5EAB-L10-231108-L	495584-004	11/08/23 08:05	Wipe

Case Narrative

Rincon Consultants
449 15th Street
#303
Oakland, CA 94612
Austin Moore

Lab Job Number: 495584
Project No: 20-10491
Location: Hangar 1 NTCRA
Date Received: 11/08/23

This data package contains sample and QC results for four wipe samples, requested for the above referenced project on 11/09/23. The samples were received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: Rincon Consultants <u>G.E.S.</u>	Project: Hanger 1 - NCTRA
Date Received: <u>11/09/23</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u> ☐ No (skip section 2)	Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: <u>4.0</u> #2: _____ #3: _____ #4: _____	
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)	
Shipping Information: _____	

Section 3	
Was the cooler packed with:	☐ Ice ☒ Ice Packs ☒ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____
Cooler Temp (°C): #1: <u>0.8</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?		☒	
If custody seals are present, were they intact?			☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments

Section 6	
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____	
☐ Email (email sent to/on): _____ / _____	
Project Manager's response: _____	

Completed By: Gina Sylvester Date: NOV 09 2023

11/8/23, 3:56 PM

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID: JEMA (510) 486-0900
MACCEWILL YIP
ENTHALPY ANALYTICAL
2323 5TH ST
BERKELEY, CA 94710
UNITED STATES US

TO ELITE SR
ENTHALPY ORG
931 WEST BARKLEY AVE

ORANGE CA 92868

REF: (714) 771-6800

583J5F0829AE3

BILL SENDER

SHIP DATE: 08NOV23
ACTWGT: 11.00 LB
CAD: 111682977/INET4860
DIMS: 12x12x12 IN

DEPT:



J2340231815874V

THU - 09 NOV 10:30A

PRIORITY OVERNIGHT

TRK# 7740 4519 6749

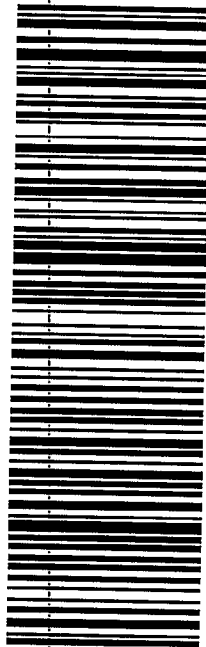
0201

92868

CA-US

SNA

92 APVA



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or Inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

https://www.fedex.com/shipping/shipmentConfirmationAction.handle?method=doContinue

Lead

Lab #: 495584	Project#: 20-10491	
Client: Rincon Consultants	Location: Hangar 1 NTCRA	
Field ID: CLEAR-SCAF-Z5EAB-L16-231108-L	Batch#: 326225	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/08/23	Analysis: EPA 6010B
Lab ID: 495584-001	Received: 11/08/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/09/23	
Diln Fac: 1.000	Analyzed: 11/09/23	

495584-001 Analyte	Result	RL	Units
Lead	150	0.50	ug/ft2

Field ID: CLEAR-ARCH-C8E-EXT-6 TO 7-231108-L-WF	Batch#: 326225	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/08/23	Analysis: EPA 6010B
Lab ID: 495584-002	Received: 11/08/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/09/23	
Diln Fac: 1.000	Analyzed: 11/09/23	

495584-002 Analyte	Result	RL	Units
Lead	57	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z5EAB-L10-231108-L	Batch#: 326225	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/08/23	Analysis: EPA 6010B
Lab ID: 495584-003	Received: 11/08/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/09/23	
Diln Fac: 1.000	Analyzed: 11/09/23	

495584-003 Analyte	Result	RL	Units
Lead	320	0.50	ug/ft2

Field ID: CLEAR-ENC-Z5EAB-L10-231108-L	Batch#: 326225	Prep: EPA 3050B
Type: SAMPLE	Sampled: 11/08/23	Analysis: EPA 6010B
Lab ID: 495584-004	Received: 11/08/23	Analyst: SBW
Matrix: Wipe	Prepared: 11/09/23	
Diln Fac: 1.000	Analyzed: 11/09/23	

495584-004 Analyte	Result	RL	Units
Lead	140	0.50	ug/ft2

Type: BLANK	Batch#: 326225	Analysis: EPA 6010B
Lab ID: QC1106005	Prepared: 11/09/23	Analyst: SBW
Matrix: Wipe	Analyzed: 11/09/23	
Diln Fac: 1.000	Prep: EPA 3050B	

QC1106005 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend
 ND: Not Detected
 RL: Reporting Limit

Lead: Batch QC

Lab #: 495584

Project#: 20-10491

Client: Rincon Consultants

Location: Hangar 1 NTCRA

Type: BS

Batch#: 326225

Analysis: EPA 6010B

Lab ID: QC1106006

Prepared: 11/09/23

Analyst: SBW

Matrix: Wipe

Analyzed: 11/09/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1106006 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	114.1	114	80-120	ug/ft2

Type: BSD

Batch#: 326225

Analysis: EPA 6010B

Lab ID: QC1106007

Prepared: 11/09/23

Analyst: SBW

Matrix: Wipe

Analyzed: 11/09/23

Diln Fac: 1.000

Prep: EPA 3050B

QC1106007 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	111.1	111	80-120	ug/ft2	3	20

Legend

RPD: Relative Percent Difference