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November 10, 2023

Analytical Report for Service Request No: K2310979

Craig McKinney
Lanxess Corporation
1296 NW Third Street
Kalama, WA 98625

RE: 2023 NPDES Annual-Biannual

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory September 28, 2023
For your reference, these analyses have been assigned our service request number **K2310979.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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ALS Environmental

Client: Lanxess Corporation (formerly Emerald Kalama Chemical)
Service Request: K2310979
Project: 2023 NPDES Annual-Biannual
Date Received: 09/28/2023
Sample Matrix: Wastewater

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Four wastewater samples were received for analysis at ALS Environmental on 09/28/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 625.1, 10/26/2023: The spike recovery of Benzidine for Laboratory Control Sample (LCS) KQ2317294-03 was outside the lower control criterion. The analyte in question was not detected in the associated field sample. The error associated with reduced recovery indicated a potential low bias. Additional analysis of the associated field sample was not performed because the holding time had already elapsed. The data was flagged to indicate the problem.

The following analytes were searched for and quantitated as Tentatively Identified Compounds (TICs): Dibenz(a,h)acridine, Dibenz(a,j)acridine, Dibenzo(a,e)pyrene, Dibenzo(a,h)pyrene, Dibenzo(a,i)Pyrene, 3-Methylcholanthrene, and Perylene. No quantitative standards were analyzed for these analytes.

The detection limit was slightly elevated for all analytes in sample 002 Grab due to less than optimal sample volume received for analysis.

Semivoa GC:

Method 608.3, 11/01/2023:The upper control criterion was exceeded for Endrin in Continuing Calibration Verification (CCV) KQ2318924-02. The field sample analyzed in this sequence did not contain the analyte in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.
Method 608.3, 11/07/2023:The analysis of Chlorinated Pesticides and PCB Aroclors by EPA 608.3 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the lower of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Decachlorobiphenyl, Aroclor 1016 and Aroclor 1260. The results were reported from the column with an acceptable CCV KQ2319839-01. The data quality was not affected. No further corrective action was necessary.
Method 608.3, 11/03/2023: The upper control criterion was exceeded for many analytes on one or both columns in Continuing Calibration Verification (CCV)KQ2318956-02. The Method Blank (MB) analyzed in this sequence did not contain the analytes in question; the recovery for the analytes in question were in control in the Laboratory Control Samples (LCS/DLCS) analyzed in this sequence. The data quality was not affected. No further corrective action was required.
Method 608.3, 11/01/2023:The upper control criterion was exceeded for Aroclor 1016 in Duplicate Laboratory Control Sample (DLCS) KQ2317362-05. No target Aroclors were detected in the associated field sample. The error associated with elevated recovery indicated a high bias. The sample data was not significantly affected. No further corrective action was appropriate.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 11/10/2023

Subcontracted Analytical Parameters:

Chromium (VI) by EPA Method 218.6
Chromium (VI) analysis by EPA Method 218.6 was performed at ALS Middletown, PA Laboratory. The data for this analysis is included in the corresponding section of this report.

Free Cyanide by ASTM 7237
This analysis was performed at ALS Environmental Waterloo in Ontario, Canada. The data for this analysis is included in the corresponding section of this report.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 11/10/2023

Chain of Custody

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ALS Environmental

CHAIN OF CUSTODY

SR# K2310979

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PROJECT NAME	2023 ~~2022~~ NPDES Annual ~~Biennial~~
PROJECT NUMBER	
PROJECT MANAGER	Craig McKinney
COMPANY NAME	Emerald Kalama Chemical
ADDRESS	1296 NW 3rd St
CITY/STATE/ZIP	Kalama WA 98625
E-MAIL ADDRESS	craig.mckinney@emeraldmaterials.com
PHONE #	360-673-0285 FAX#
SAMPLER'S SIGNATURE	

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS		Semivolatile Organics by GC/MS SIM PAH 625 x 8270 8270LL	Volatile Organics BTEX 624 x 8260 8021	Hydrocarbons (*see below) Diesel Oil	Oil & Grease/TRPH 1664 HEM 1664 SGT	PCBs Aroclors Congeners	Pesticides/Herbicides 608 x 8081 8141 8151	Chlorophenolics - 8151M Tri Tetra PCP	Metals, Total or Dissolved See list below	Cyanide X Hex-Chrom X	(circle) pH, Cond., Cl, SO_4, PO_4, F, NO_3, NO_3, BOD, TSS, TDS, Turb.	(circle) NH_3-N, COD, TKN, TOC, DOC, NO_2+NO_3, T-Phos	TOX 9020 AOX 1650 506	Alkalinity CO_3 HCO_3	Dioxins / Furans 1613 x 8290	Dissolved Gases CO_2 Methane Ethane Ethene SM 175	phenolics total 420.1	Mercury 1631	Free Cyanide	REMARKS
001 Grab T	9/27/2023	1555		WW	1											x								turbidity
002 Grab SVOC	9/27/2023	1605		WW	2		x																	
002 Grab VOC	9/27/2023	1605		WW	3			x																
002 Grab - Ph	9/27/2023	1605		WW	2																x			
002 Composite - DF	9/27/2023	8:00		WW	2															x				composite end time
002 Composite -Pst	9/27/2023	8:00		WW	2							x												composite end time
002 Grab - CN	9/27/2023	1605		WW	1										x									
002 Grab - CN free	9/27/2023	1605		WW	1																		x	
002 Grab - Cr	9/27/2023	1605		WW	1										x									Filtered
002 Composite - M	9/27/2023	8:00		WW	1									x										composite end time
002 Composite - Hg	9/27/2023	8:00		WW	1																		x	composite end time

REPORT REQUIREMENTS

_____ I. Routine Report: Method Blank, Surrogate, as required

_____ II. Report Dup., MS, MSD as required

_____ III. CLP Like Summary (no raw data)

_____ IV. Data Validation Report

_____ V. EDD

INVOICE INFORMATION

PO # 40112943

Bill To:

TURNAROUND REQUIREMENTS

_____ 24 hr.

_____ 48 hr.

_____ 5 day

X Standard (15 working days)

_____ Requested Report Date

Circle which metals are to be analyzed: Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn

*** INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)**

SPECIAL INSTRUCTIONS/COMMENTS:

See attached list for 624.1 VOC and 625.1 SVOC compounds.

Collect times taken from BHS/FA 9/28/23

Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	~~RELINQUISHED BY:~~	RELINQUISHED BY:	~~RELINQUISHED BY:~~
A. Evans	received by 1130 Greg Rich 9-28-23	Greg Rich 9/28/23 1200 PM	received Hayleigh Smith 9/28/23 1200
Signature	Signature	Signature	Signature
11:30	Date/Time	Date/Time	Date/Time
Aubree Evans	Greg Rich	Greg Rich	Hayleigh Smith
Printed Name	Printed Name	Printed Name	Printed Name
9.28.23	ALS	ALS	ALS
Firm	Firm	Firm	Firm

PM_____

Cooler Receipt and Preservation Form

Client Emerald Kalama Chemical Service Request K23 10979

Received: 9/28/23 Opened: 9/28/23 By: HS Unloaded: 9/28/23 By: HB

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 on front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified if out of temp	Tracking Number NA	Filed
6.0		IR02					

4. Was a Temperature Blank present in cooler? NA (Y) N If yes, notate the temperature in the appropriate column above:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA (Y) N
   If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. (NA) Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA (Y) N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA (Y) N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA (Y) N
14. Was C12/Res negative? NA (Y) N
15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM (NA) Y N
16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? (NA) Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

SHORT HOLD

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Received 2 trip blanks not listed on COC
Collect times taken from BTLS

General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23
Analysis Method:	180.1	**Units:**	NTU
Prep Method:	None	**Basis:**	NA

Turbidity

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
001 Grab T	K2310979-001	**4.26**	0.20	0.04	1	09/28/23 15:40	
Method Blank	K2310979-MB	**0.08 J**	0.20	0.04	1	09/28/23 13:12	

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	09/28/23
Sample Matrix:	Wastewater	**Date Extracted:**	NA

Lab Control Sample Summary
Turbidity

Analysis Method:	180.1	**Units:**	NTU
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	818792

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2310979-LCS2	3.81	3.80	100	90-110

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

Continuing Calibration Verification (CCV) Summary

Turbidity

Analysis Method: 180.1 **Units:** NTU

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	818792	KQ2317252-01	09/28/23 13:10	1.00	1.06	106	90-110
CCV2	818792	KQ2317252-06	09/28/23 15:26	1.00	1.01	101	90-110
CCV3	818792	KQ2317252-09	09/28/23 15:41	1.00	1.04	104	90-110

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Continuing Calibration Blank (CCB) Summary
Turbidity

Analysis Method: 180.1 **Units:**NTU

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	818792	KQ2317252-02	09/28/23 13:11	0.20	0.04	0.08	J
CCB2	818792	KQ2317252-07	09/28/23 15:27	0.20	0.04	0.07	J
CCB3	818792	KQ2317252-10	09/28/23 15:42	0.20	0.04	0.08	J

Analytical Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23
Analysis Method:	420.1	**Units:**	mg/L
Prep Method:	Method	**Basis:**	NA

Phenolics, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
002 Grab	K2310979-002	**0.014**	0.010	0.004	1	10/04/23 14:55	10/3/23	
Method Blank	K2310979-MB	**0.008 J**	0.010	0.004	1	10/04/23 14:55	10/3/23	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23
		Date Analyzed:	10/04/23

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	002 Grab	**Units:**	mg/L
Lab Code:	K2310979-002	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K2310979-002DUP Result	Average	RPD	RPD Limit
Phenolics, Total	420.1	0.010	0.004	0.014	0.011	0.0125	24 #	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23
		Date Analyzed:	10/4/23
		Date Extracted:	10/3/23

Duplicate Matrix Spike Summary
Phenolics, Total

Sample Name:	002 Grab	**Units:**	mg/L
Lab Code:	K2310979-002	**Basis:**	NA
Analysis Method:	420.1		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		K2310979-002MS			K2310979-002DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phenolics, Total	0.014	0.376	0.400	91	0.384	0.400	93	75-118	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/04/23
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Lab Control Sample Summary
Phenolics, Total

Analysis Method:	420.1	**Units:**	mg/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	819319

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2310979-LCS2	0.575	0.600	96	86-112

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

Continuing Calibration Verification (CCV) Summary

Phenolics, Total

Analysis Method: 420.1 **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	819319	KQ2317456-01	10/04/23 14:55	0.500	0.493	99	90-110
CCV2	819319	KQ2317456-02	10/04/23 14:55	0.500	0.489	98	90-110
CCV3	819319	KQ2317456-03	10/04/23 14:55	0.500	0.485	97	90-110

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Continuing Calibration Blank (CCB) Summary

Phenolics, Total

Analysis Method: 420.1 **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	819319	KQ2317456-04	10/04/23 14:55	0.010	0.004	ND	U
CCB2	819319	KQ2317456-05	10/04/23 14:55	0.010	0.004	ND	U
CCB3	819319	KQ2317456-06	10/04/23 14:55	0.010	0.004	ND	U

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Analytical Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23
Analysis Method:	SM 4500-CN- E	**Units:**	mg/L
Prep Method:	SM 4500-CN-C	**Basis:**	NA

Cyanide, Total

Sample Name	Lab Code	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
002 Grab	K2310979-002	ND	U	0.020	0.0005	1	10/04/23 16:11	10/4/23	
Method Blank	K2310979-MB	ND	U	0.020	0.0005	1	10/04/23 16:11	10/4/23	

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/04/23
Sample Matrix:	Wastewater	**Date Extracted:**	10/04/23

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method:	SM 4500-CN- E	**Units:**	mg/L
Prep Method:	SM 4500-CN-C	**Basis:**	NA
		Analysis Lot:	819445

	Lab Control Sample K2310979-LCS1			Duplicate Lab Control Sample K2310979-DLCS1					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cyanide, Total	0.0797	0.075	106	0.0803	0.075	107	84-115	<1	20

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

Continuing Calibration Verification (CCV) Summary

Cyanide, Total

Analysis Method: SM 4500-CN- E **Units:** ug/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	819445	KQ2317481-01	10/04/23 16:11	100	97.9	98	90-110
CCV2	819445	KQ2317481-02	10/04/23 16:11	100	97.7	98	90-110
CCV3	819445	KQ2317481-03	10/04/23 16:11	100	102	102	90-110
CCV4	819445	KQ2317481-04	10/04/23 16:11	100	102	102	90-110

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Continuing Calibration Blank (CCB) Summary
Cyanide, Total

Analysis Method: SM 4500-CN- E **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	819445	KQ2317481-05	10/04/23 16:11	0.020	0.0005	ND	U
CCB2	819445	KQ2317481-06	10/04/23 16:11	0.020	0.0005	ND	U
CCB3	819445	KQ2317481-07	10/04/23 16:11	0.020	0.0005	ND	U
CCB4	819445	KQ2317481-08	10/04/23 16:11	0.020	0.0005	0.0005	J

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Analytical Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23
Analysis Method:	SM 4500-CN- E	**Units:**	mg/L
Prep Method:	SM 4500-CN-I	**Basis:**	NA

Cyanide, Weak Acid Dissociable (WAD)

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
002 Grab	K2310979-002	**0.001 J**	0.020	0.0008	1	10/04/23 16:53	10/4/23	
Method Blank	K2310979-MB	ND U	0.020	0.0008	1	10/04/23 16:53	10/4/23	

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QA/QC Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/04/23
Sample Matrix:	Wastewater	**Date Extracted:**	10/04/23

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method:	SM 4500-CN- E	**Units:**	mg/L
Prep Method:	SM 4500-CN-I	**Basis:**	NA
		Analysis Lot:	819447

	Lab Control Sample K2310979-LCS1			Duplicate Lab Control Sample K2310979-DLCS1					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cyanide, Weak Acid Dissociable (WAD)	0.0799	0.075	107	0.0824	0.075	110	70-141	3	20

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

Continuing Calibration Verification (CCV) Summary

Cyanide, Weak Acid Dissociable (WAD)

Analysis Method: SM 4500-CN- E **Units:** ug/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	819447	KQ2317521-01	10/04/23 16:53	100	98.1	98	90-110
CCV2	819447	KQ2317521-02	10/04/23 16:53	100	99.3	99	90-110

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Continuing Calibration Blank (CCB) Summary
Cyanide, Weak Acid Dissociable (WAD)

Analysis Method: SM 4500-CN- E **Units:**mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	819447	KQ2317521-03	10/04/23 16:53	0.020	0.0008	ND	U
CCB2	819447	KQ2317521-04	10/04/23 16:53	0.020	0.0008	ND	U

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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Analytical Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23

Mercury, Total

Prep Method:	METHOD	Units:	ng/L
Analysis Method:	1631E	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
002 Composite	K2310979-003	0.5	0.06	1	10/04/23	10/05/23	0.38	J
Method Blank 1	K2310979-MB1	0.5	0.06	1	10/04/23	10/05/23	0.11	J
Method Blank 2	K2310979-MB2	0.5	0.06	1	10/04/23	10/05/23	ND	
Method Blank 3	K2310979-MB3	0.5	0.06	1	10/04/23	10/05/23	0.37	J

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QA/QC Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23
		Date Extracted:	10/04/23
		Date Analyzed:	10/05/23

Matrix Spike/Duplicate Matrix Spike Summary
Total Metals

Sample Name:	002 Composite	Units:	ng/L
Lab Code:	K2310979-003MS, K2310979-003DMS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	ALS Acceptance Limits	Relative Percent Difference	Result Notes
Mercury	METHOD	1631E	0.5	50	50	0.38	47.8	49.6	95	98	71-125	4	

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QA/QC Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	10/05/23

Ongoing Precision and Recovery (OPR) Sample Summary
Total Metals

Sample Name: Ongoing Precision and Recovery (Initial)

Units: ng/L
Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	ALS Percent Recovery Acceptance Limits	Result Notes
Mercury	METHOD	1631E	5.00	4.95	99	77-123	

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QA/QC Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	10/05/23

Ongoing Precision and Recovery (OPR) Sample Summary
Total Metals

Sample Name: Ongoing Precision and Recovery (Final)

Units: ng/L
Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	ALS Percent Recovery Acceptance Limits	Result Notes
Mercury	METHOD	1631E	5.00	5.29	106	77-123	

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QA/QC Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	10/4/2023
		Date Analyzed:	10/05/23

Quality Control Sample (QCS) Summary
Total Metals

Sample Name: Quality Control Sample

Units: ng/L
Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	ALS Percent Recovery Acceptance Limits	Result Notes
Mercury	METHOD	1631E	5.00	4.82	96	77-123	

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Analytical Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23 08:00
Sample Matrix:	Wastewater	**Date Received:**	09/28/23 12:00
Sample Name:	002 Composite	**Basis:**	NA
Lab Code:	K2310979-003		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	200.8	**0.12 J**	ug/L	0.25	0.10	5	10/13/23 13:29	10/03/23	
Arsenic	200.8	**0.6 J**	ug/L	2.5	0.5	5	10/13/23 13:29	10/03/23	
Beryllium	200.8	ND U	ug/L	0.10	0.03	5	10/13/23 13:29	10/03/23	
Cadmium	200.8	ND U	ug/L	0.10	0.04	5	10/13/23 13:29	10/03/23	
Chromium	200.8	**0.3 J**	ug/L	1.0	0.2	5	10/13/23 13:29	10/03/23	
Copper	200.8	**1.97**	ug/L	0.50	0.25	5	10/13/23 13:29	10/03/23	
Lead	200.8	ND U	ug/L	0.10	0.03	5	10/13/23 13:29	10/03/23	
Nickel	200.8	**17.6**	ug/L	1.0	0.2	5	10/13/23 13:29	10/03/23	
Selenium	200.8	ND U	ug/L	5.0	1.0	5	10/13/23 13:29	10/03/23	
Silver	200.8	ND U	ug/L	0.10	0.05	5	10/13/23 13:29	10/03/23	
Thallium	200.8	ND U	ug/L	0.10	0.05	5	10/13/23 13:29	10/03/23	
Zinc	200.8	**20**	ug/L	10	3	5	10/13/23 13:29	10/03/23	

Analytical Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
Sample Matrix:	Wastewater	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2317266-01		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	200.8	ND U	ug/L	0.050	0.020	1	10/13/23 11:24	10/03/23	
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	10/13/23 11:24	10/03/23	
Beryllium	200.8	ND U	ug/L	0.020	0.005	1	10/13/23 11:24	10/03/23	
Cadmium	200.8	ND U	ug/L	0.020	0.008	1	10/13/23 11:24	10/03/23	
Chromium	200.8	ND U	ug/L	0.20	0.03	1	10/13/23 11:24	10/03/23	
Copper	200.8	ND U	ug/L	0.10	0.05	1	10/13/23 11:24	10/03/23	
Lead	200.8	ND U	ug/L	0.020	0.006	1	10/13/23 11:24	10/03/23	
Nickel	200.8	ND U	ug/L	0.20	0.04	1	10/13/23 11:24	10/03/23	
Selenium	200.8	ND U	ug/L	1.0	0.2	1	10/13/23 11:24	10/03/23	
Silver	200.8	ND U	ug/L	0.020	0.009	1	10/13/23 11:24	10/03/23	
Thallium	200.8	ND U	ug/L	0.020	0.009	1	10/13/23 11:24	10/03/23	
Zinc	200.8	ND U	ug/L	2.0	0.5	1	10/13/23 11:24	10/03/23	

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QA/QC Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23
		Date Analyzed:	10/13/23

Replicate Sample Summary
Total Metals

Sample Name:	002 Composite	**Units:**	ug/L
Lab Code:	K2310979-003	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2317266-03 Result	Average	RPD	RPD Limit
Antimony	200.8	0.25	0.10	0.12 J	ND U	NC	NC	20
Arsenic	200.8	2.5	0.5	0.6 J	0.5 J	0.6	18	20
Beryllium	200.8	0.10	0.03	ND U	ND U	ND	-	20
Cadmium	200.8	0.10	0.04	ND U	ND U	ND	-	20
Chromium	200.8	1.0	0.2	0.3 J	0.3 J	0.3	<1	20
Copper	200.8	0.50	0.25	1.97	1.91	1.94	3	20
Lead	200.8	0.10	0.03	ND U	ND U	ND	-	20
Nickel	200.8	1.0	0.2	17.6	18.1	17.9	3	20
Selenium	200.8	5.0	1.0	ND U	ND U	ND	-	20
Silver	200.8	0.10	0.05	ND U	ND U	ND	-	20
Thallium	200.8	0.10	0.05	ND U	ND U	ND	-	20
Zinc	200.8	10	3	20	22	21	10	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23
Sample Matrix:	Wastewater	**Date Received:**	09/28/23
		Date Analyzed:	10/13/23
		Date Extracted:	10/3/23

Matrix Spike Summary
Total Metals

Sample Name:	002 Composite	**Units:**	ug/L
Lab Code:	K2310979-003	**Basis:**	NA
Analysis Method:	200.8		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2317266-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Antimony	0.12 J	9.47	10.0	94	70-130
Arsenic	0.6 J	48.1	50.0	95	70-130
Beryllium	ND U	2.40	2.50	96	70-130
Cadmium	ND U	24.1	25.0	96	70-130
Chromium	0.3 J	10.1	10.0	98	70-130
Copper	1.97	13.8	12.5	95	70-130
Lead	ND U	48.9	50.0	98	70-130
Nickel	17.6	41.2	25.0	94	70-130
Selenium	ND U	50.5	50.0	101	70-130
Silver	ND U	11.7	12.5	93	70-130
Thallium	ND U	50.3	50.0	101	70-130
Zinc	20	48	25	110	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Lanxess Corporation (formerly Emerald Kalama Chemical)
Project: 2023 NPDES Annual-Biannual
Sample Matrix: Wastewater

Service Request: K2310979
Date Analyzed: 10/13/23

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2317266-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony	200.8	9.07	10.0	91	85-115
Arsenic	200.8	46.4	50.0	93	85-115
Beryllium	200.8	2.37	2.50	95	85-115
Cadmium	200.8	24.0	25.0	96	85-115
Chromium	200.8	9.50	10.0	95	85-115
Copper	200.8	12.0	12.5	96	85-115
Lead	200.8	49.2	50.0	98	85-115
Nickel	200.8	23.9	25.0	96	85-115
Selenium	200.8	50.1	50.0	100	85-115
Silver	200.8	11.8	12.5	95	85-115
Thallium	200.8	49.4	50.0	99	85-115
Zinc	200.8	24.0	25.0	96	85-115

Prep Summary Report

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual
Sample Matrix: Wastewater

Metals

Prep Method: EPA CLP ILM04.0 **Extraction Lot:** 427437
Analytical Method: 200.8 **Extraction Date:** 10/03/23 17:17

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
002 Composite	K2310979-003	9/27/23	9/28/23	10.0000 mL	10 mL	
Method Blank	KQ2317266-01MB	NA	NA	10.0000 mL	10 mL	
Lab Control Sample	KQ2317266-02LCS	NA	NA	10.0000 mL	10.3 mL	
Duplicate	KQ2317266-03DUP	9/27/23	9/28/23	10.0000 mL	10 mL	
Matrix Spike	KQ2317266-04MS	9/27/23	9/28/23	10.0000 mL	10.3 mL	

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits
ICV 10/13/23 11:10						
Antimony	200.8	820434	12.3	12.5	98	90-110
Arsenic	200.8	820434	24.0	25.0	96	90-110
Beryllium	200.8	820434	2.39	2.50	96	90-110
Cadmium	200.8	820434	12.4	12.5	99	90-110
Chromium	200.8	820434	10.6	10.0	106	90-110
Copper	200.8	820434	12.2	12.5	98	90-110
Lead	200.8	820434	25.0	25.0	100	90-110
Nickel	200.8	820434	24.5	25.0	98	90-110
Selenium	200.8	820434	25.0	25.0	100	90-110
Silver	200.8	820434	12.0	12.5	96	90-110
Thallium	200.8	820434	24.6	25.0	98	90-110
Zinc	200.8	820434	24.4	25.0	98	90-110
CCV 10/13/23 11:12						
Antimony	200.8	820434	12.6	12.5	101	90-110
Arsenic	200.8	820434	24.7	25.0	99	90-110
Beryllium	200.8	820434	24.7	25.0	99	90-110
Cadmium	200.8	820434	25.1	25.0	100	90-110
Chromium	200.8	820434	25.1	25.0	100	90-110
Copper	200.8	820434	24.6	25.0	98	90-110
Lead	200.8	820434	25.7	25.0	103	90-110
Nickel	200.8	820434	24.6	25.0	99	90-110
Selenium	200.8	820434	25.2	25.0	101	90-110
Silver	200.8	820434	12.4	12.5	99	90-110
Thallium	200.8	820434	25.6	25.0	103	90-110
Zinc	200.8	820434	25.7	25.0	103	90-110
CCV 10/13/23 11:48						
Antimony	200.8	820434	12.7	12.5	101	90-110
Arsenic	200.8	820434	25.0	25.0	100	90-110
Beryllium	200.8	820434	24.9	25.0	100	90-110
Cadmium	200.8	820434	25.6	25.0	102	90-110
Chromium	200.8	820434	25.2	25.0	101	90-110
Copper	200.8	820434	25.3	25.0	101	90-110
Lead	200.8	820434	26.1	25.0	104	90-110
Nickel	200.8	820434	25.1	25.0	100	90-110
Selenium	200.8	820434	25.9	25.0	103	90-110
Silver	200.8	820434	12.7	12.5	101	90-110

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits
CCV 10/13/23 11:48						
Thallium	200.8	820434	26.2	25.0	105	90-110
Zinc	200.8	820434	25.0	25.0	100	90-110
CCV 10/13/23 13:05						
Antimony	200.8	820434	12.6	12.5	101	90-110
Arsenic	200.8	820434	24.7	25.0	99	90-110
Beryllium	200.8	820434	24.9	25.0	100	90-110
Cadmium	200.8	820434	24.9	25.0	100	90-110
Chromium	200.8	820434	24.9	25.0	100	90-110
Copper	200.8	820434	24.6	25.0	98	90-110
Lead	200.8	820434	25.4	25.0	102	90-110
Nickel	200.8	820434	24.5	25.0	98	90-110
Selenium	200.8	820434	25.6	25.0	102	90-110
Silver	200.8	820434	12.1	12.5	97	90-110
Thallium	200.8	820434	26.0	25.0	104	90-110
Zinc	200.8	820434	24.8	25.0	99	90-110
CCV 10/13/23 13:34						
Antimony	200.8	820434	12.7	12.5	102	90-110
Arsenic	200.8	820434	24.7	25.0	99	90-110
Beryllium	200.8	820434	24.5	25.0	98	90-110
Cadmium	200.8	820434	25.0	25.0	100	90-110
Chromium	200.8	820434	24.8	25.0	99	90-110
Copper	200.8	820434	24.7	25.0	99	90-110
Lead	200.8	820434	25.2	25.0	101	90-110
Nickel	200.8	820434	24.7	25.0	99	90-110
Selenium	200.8	820434	25.6	25.0	103	90-110
Silver	200.8	820434	12.2	12.5	98	90-110
Thallium	200.8	820434	25.6	25.0	102	90-110
Zinc	200.8	820434	25.8	25.0	103	90-110
CCV 10/13/23 13:41						
Antimony	200.8	820434	12.6	12.5	101	90-110
Arsenic	200.8	820434	25.0	25.0	100	90-110
Beryllium	200.8	820434	24.7	25.0	99	90-110
Cadmium	200.8	820434	25.0	25.0	100	90-110
Chromium	200.8	820434	25.1	25.0	100	90-110
Copper	200.8	820434	24.7	25.0	99	90-110
Lead	200.8	820434	25.0	25.0	100	90-110

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits
CCV 10/13/23 13:41						
Nickel	200.8	820434	24.7	25.0	99	90-110
Selenium	200.8	820434	25.4	25.0	102	90-110
Silver	200.8	820434	12.0	12.5	96	90-110
Thallium	200.8	820434	25.6	25.0	102	90-110
Zinc	200.8	820434	25.0	25.0	100	90-110

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

INITIAL AND CONTINUING CALIBRATION BLANKS

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	C
ICB 10/13/23 11:15				
Antimony	200.8	820434	0.020	U
Arsenic	200.8	820434	0.09	U
Beryllium	200.8	820434	0.007	J
Cadmium	200.8	820434	0.008	U
Chromium	200.8	820434	0.03	U
Copper	200.8	820434	0.05	U
Lead	200.8	820434	0.006	U
Nickel	200.8	820434	0.04	U
Selenium	200.8	820434	0.2	U
Silver	200.8	820434	0.009	U
Thallium	200.8	820434	0.009	U
Zinc	200.8	820434	0.5	U
CCB 10/13/23 11:17				
Antimony	200.8	820434	0.020	U
Arsenic	200.8	820434	0.09	U
Beryllium	200.8	820434	0.005	U
Cadmium	200.8	820434	0.008	U
Chromium	200.8	820434	0.03	U
Copper	200.8	820434	0.05	U
Lead	200.8	820434	0.006	U
Nickel	200.8	820434	0.04	U
Selenium	200.8	820434	0.2	U
Silver	200.8	820434	0.009	U
Thallium	200.8	820434	0.009	U
Zinc	200.8	820434	0.5	U
CCB 10/13/23 11:50				
Antimony	200.8	820434	0.020	U
Arsenic	200.8	820434	0.09	U
Beryllium	200.8	820434	0.006	J
Cadmium	200.8	820434	0.008	U
Chromium	200.8	820434	0.03	U
Copper	200.8	820434	0.05	U
Lead	200.8	820434	0.006	U
Nickel	200.8	820434	0.04	U
Selenium	200.8	820434	0.2	U
Silver	200.8	820434	0.009	U

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

INITIAL AND CONTINUING CALIBRATION BLANKS

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	C
CCB 10/13/23 11:50				
Thallium	200.8	820434	0.009	U
Zinc	200.8	820434	0.5	U
CCB 10/13/23 13:08				
Antimony	200.8	820434	0.020	U
Arsenic	200.8	820434	0.09	U
Beryllium	200.8	820434	0.005	U
Cadmium	200.8	820434	0.008	U
Chromium	200.8	820434	0.03	U
Copper	200.8	820434	0.05	U
Lead	200.8	820434	0.006	U
Nickel	200.8	820434	0.04	U
Selenium	200.8	820434	0.2	U
Silver	200.8	820434	0.009	U
Thallium	200.8	820434	0.009	U
Zinc	200.8	820434	0.5	U
CCB 10/13/23 13:36				
Antimony	200.8	820434	0.020	U
Arsenic	200.8	820434	0.09	U
Beryllium	200.8	820434	0.005	U
Cadmium	200.8	820434	0.008	U
Chromium	200.8	820434	0.03	U
Copper	200.8	820434	0.05	U
Lead	200.8	820434	0.006	U
Nickel	200.8	820434	0.04	U
Selenium	200.8	820434	0.2	U
Silver	200.8	820434	0.009	U
Thallium	200.8	820434	0.009	U
Zinc	200.8	820434	0.5	U
CCB 10/13/23 13:43				
Antimony	200.8	820434	0.020	U
Arsenic	200.8	820434	0.09	U
Beryllium	200.8	820434	0.005	U
Cadmium	200.8	820434	0.008	U
Chromium	200.8	820434	0.03	U
Copper	200.8	820434	0.05	U
Lead	200.8	820434	0.006	U

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

INITIAL AND CONTINUING CALIBRATION BLANKS

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	C
CCB 10/13/23 13:43				
Nickel	200.8	820434	0.04	U
Selenium	200.8	820434	0.2	U
Silver	200.8	820434	0.009	U
Thallium	200.8	820434	0.009	U
Zinc	200.8	820434	0.5	U

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual

LOW LEVEL INITIAL AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
LLICV							
Antimony	200.8	820434	0.044	0.05	89	50-199	10/13/23 11:20
Arsenic	200.8	820434	0.49	0.5	97	50-199	10/13/23 11:20
Beryllium	200.8	820434	0.019	0.02	96	50-199	10/13/23 11:20
Cadmium	200.8	820434	0.021	0.02	104	50-199	10/13/23 11:20
Chromium	200.8	820434	0.19	0.2	97	50-199	10/13/23 11:20
Copper	200.8	820434	0.10	0.1	102	50-199	10/13/23 11:20
Lead	200.8	820434	0.019	0.02	93	50-199	10/13/23 11:20
Nickel	200.8	820434	0.20	0.2	98	50-199	10/13/23 11:20
Selenium	200.8	820434	0.96	1.0	96	50-199	10/13/23 11:20
Silver	200.8	820434	0.015	0.02	77	50-199	10/13/23 11:20
Thallium	200.8	820434	0.020	0.02	102	50-199	10/13/23 11:20
Zinc	200.8	820434	2.0	2.0	98	50-199	10/13/23 11:20

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual/

Detection Limits

Instrument: K-ICP-MS-06 **Matrix:** Wastewater

Analyte	Mass	Units	MRL	MDL	Method
Antimony	121	ug/L	0.05	0.02	200.8
Arsenic	75	ug/L	0.5	0.09	200.8
Beryllium	9	ug/L	0.02	0.005	200.8
Cadmium	111	ug/L	0.02	0.008	200.8
Chromium	52	ug/L	0.2	0.03	200.8
Copper	65	ug/L	0.1	0.05	200.8
Lead	208	ug/L	0.02	0.006	200.8
Nickel	60	ug/L	0.2	0.04	200.8
Selenium	78	ug/L	1	0.2	200.8
Silver	107	ug/L	0.02	0.009	200.8
Thallium	205	ug/L	0.02	0.009	200.8
Zinc	66	ug/L	2	0.5	200.8

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual/

ICP Linear Range (Quarterly)

Instrument: K-ICP-MS-06

Analyte	Concentration (ug/L)	Method
Antimony 121	4500	200.8
Arsenic 75	4500	200.8
Beryllium 9	9000	200.8
Cadmium 111	9000	200.8
Chromium 52	9000	200.8
Copper 65	4500	200.8
Lead 208	4500	200.8
Nickel 60	4500	200.8
Selenium 78	9000	200.8
Silver 107	450	200.8
Thallium 205	2700	200.8
Zinc 66	9000	200.8

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual/

Analysis Run Log

Instrument ID: **K-ICP-MS-06** **Analytical BatchID:** **820434**

Sample	Dilution Factor	Date/Time	Sb	As	Be	Cd	Cr	Cu	Pb	Ni	Se	Ag	Tl	Zn
ZZZZZZ	1	10/13/23 11:05												
ZZZZZZ	1	10/13/23 11:08												
ICV	1	10/13/23 11:10	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1	10/13/23 11:12	X	X	X	X	X	X	X	X	X	X	X	X
ICB	1	10/13/23 11:15	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1	10/13/23 11:17	X	X	X	X	X	X	X	X	X	X	X	X
LLICVW	1	10/13/23 11:20	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	10/13/23 11:22												
KQ2317266-01MB	1	10/13/23 11:24	X	X	X	X	X	X	X	X	X	X	X	X
KQ2317266-02LCS	1	10/13/23 11:27	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	10/13/23 11:29												
ZZZZZZ	1	10/13/23 11:31												
ZZZZZZ	1	10/13/23 11:34												
ZZZZZZ	1	10/13/23 11:36												
ZZZZZZ	1	10/13/23 11:38												
ZZZZZZ	1	10/13/23 11:41												
ZZZZZZ	1	10/13/23 11:43												
ZZZZZZ	1	10/13/23 11:45												
CCV	1	10/13/23 11:48	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1	10/13/23 11:50	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	10/13/23 11:53												
ZZZZZZ	1	10/13/23 11:55												
ZZZZZZ	1	10/13/23 11:57												
ZZZZZZ	1	10/13/23 12:00												
ZZZZZZ	1	10/13/23 12:02												
ZZZZZZ	1	10/13/23 12:04												
ZZZZZZ	1	10/13/23 12:07												
ZZZZZZ	1	10/13/23 12:18												
ZZZZZZ	1	10/13/23 12:21												
ZZZZZZ	1	10/13/23 13:03												
CCV	1	10/13/23 13:05	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1	10/13/23 13:08	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	10/13/23 13:10												
ZZZZZZ	1	10/13/23 13:13												
ZZZZZZ	1	10/13/23 13:15												
ZZZZZZ	1	10/13/23 13:17												
ZZZZZZ	1	10/13/23 13:20												

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual/

Analysis Run Log

Instrument ID: **K-ICP-MS-06** **Analytical BatchID:** **820434**

Sample	Dilution Factor	Date/Time	Sb	As	Be	Cd	Cr	Cu	Pb	Ni	Se	Ag	Tl	Zn
ZZZZZZ	1	10/13/23 13:22												
ZZZZZZ	1	10/13/23 13:24												
ZZZZZZ	1	10/13/23 13:27												
K2310979-003	5	10/13/23 13:29	X	X	X	X	X	X	X	X	X	X	X	X
K2310979-003DUP	5	10/13/23 13:31	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1	10/13/23 13:34	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1	10/13/23 13:36	X	X	X	X	X	X	X	X	X	X	X	X
K2310979-003MS	5	10/13/23 13:39	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1	10/13/23 13:41	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1	10/13/23 13:43	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	10/13/23 13:46												
ZZZZZZ	1	10/13/23 13:48												
ZZZZZZ	1	10/13/23 13:50												
ZZZZZZ	1	10/13/23 13:53												
ZZZZZZ	1	10/13/23 13:55												
ZZZZZZ	1	10/13/23 13:58												
ZZZZZZ	1	10/13/23 14:00												
ZZZZZZ	1	10/13/23 14:02												
ZZZZZZ	1	10/13/23 14:05												
ZZZZZZ	1	10/13/23 14:07												
ZZZZZZ	1	10/13/23 14:09												
ZZZZZZ	1	10/13/23 14:12												
ZZZZZZ	1	10/13/23 14:14												
ZZZZZZ	1	10/13/23 14:17												
ZZZZZZ	1	10/13/23 14:19												
ZZZZZZ	1	10/13/23 14:21												
ZZZZZZ	1	10/13/23 14:24												
ZZZZZZ	1	10/13/23 14:26												
ZZZZZZ	1	10/13/23 14:28												
ZZZZZZ	1	10/13/23 14:31												
ZZZZZZ	1	10/13/23 14:33												
ZZZZZZ	1	10/13/23 14:35												
ZZZZZZ	1	10/13/23 14:38												
ZZZZZZ	1	10/13/23 14:40												
ZZZZZZ	1	10/13/23 14:43												
ZZZZZZ	1	10/13/23 14:45												
ZZZZZZ	1	10/13/23 14:47												

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual/

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Instrument ID: **K-ICP-MS-06** **Analytical BatchID:** **820434**

Sample	Date/Time	Li6NG	Sc45He	Ge72H2	Ge72He	In115He	Lu175He	Th232He
ZZZZZZ	10/13/23 11:05							
ZZZZZZ	10/13/23 11:08							
ICV	10/13/23 11:10	98	99	98	97	98	98	98
CCV	10/13/23 11:12	98	97	97	97	97	97	99
ICB	10/13/23 11:15	98	96	97	95	97	97	97
CCB	10/13/23 11:17	97	99	96	95	97	97	98
LLICVW	10/13/23 11:20	96	99	97	96	97	97	97
ZZZZZZ	10/13/23 11:22							
KQ2317266-01MB	10/13/23 11:24	97	100	97	96	98	99	99
KQ2317266-02LCS	10/13/23 11:27	96	98	96	98	99	99	100
ZZZZZZ	10/13/23 11:29							
ZZZZZZ	10/13/23 11:31							
ZZZZZZ	10/13/23 11:34							
ZZZZZZ	10/13/23 11:36							
ZZZZZZ	10/13/23 11:38							
ZZZZZZ	10/13/23 11:41							
ZZZZZZ	10/13/23 11:43							
ZZZZZZ	10/13/23 11:45							
CCV	10/13/23 11:48	97	99	99	100	101	103	103
CCB	10/13/23 11:50	98	102	101	102	104	104	104
ZZZZZZ	10/13/23 11:53							
ZZZZZZ	10/13/23 11:55							
ZZZZZZ	10/13/23 11:57							
ZZZZZZ	10/13/23 12:00							
ZZZZZZ	10/13/23 12:02							
ZZZZZZ	10/13/23 12:04							
ZZZZZZ	10/13/23 12:07							
ZZZZZZ	10/13/23 12:18							
ZZZZZZ	10/13/23 12:21							
ZZZZZZ	10/13/23 13:03							
CCV	10/13/23 13:05	101	105	103	105	111	112	112
CCB	10/13/23 13:08	100	105	106	105	113	112	111
ZZZZZZ	10/13/23 13:10							
ZZZZZZ	10/13/23 13:13							
ZZZZZZ	10/13/23 13:15							
ZZZZZZ	10/13/23 13:17							
ZZZZZZ	10/13/23 13:20							

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual/

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Instrument ID: **K-ICP-MS-06** **Analytical BatchID:** **820434**

Sample	Date/Time	Li6NG	Sc45He	Ge72H2	Ge72He	In115He	Lu175He	Th232He
ZZZZZZ	10/13/23 13:22							
ZZZZZZ	10/13/23 13:24							
ZZZZZZ	10/13/23 13:27							
K2310979-003	10/13/23 13:29	104	112	109	112	114	112	112
K2310979-003DUP	10/13/23 13:31	108	119	110	115	117	115	114
CCV	10/13/23 13:34	113	117	115	115	120	118	116
CCB	10/13/23 13:36	109	115	114	113	120	117	112
K2310979-003MS	10/13/23 13:39	108	117	114	116	119	118	114
CCV	10/13/23 13:41	112	117	118	115	122	120	116
CCB	10/13/23 13:43	110	115	115	115	122	118	116
ZZZZZZ	10/13/23 13:46							
ZZZZZZ	10/13/23 13:48							
ZZZZZZ	10/13/23 13:50							
ZZZZZZ	10/13/23 13:53							
ZZZZZZ	10/13/23 13:55							
ZZZZZZ	10/13/23 13:58							
ZZZZZZ	10/13/23 14:00							
ZZZZZZ	10/13/23 14:02							
ZZZZZZ	10/13/23 14:05							
ZZZZZZ	10/13/23 14:07							
ZZZZZZ	10/13/23 14:09							
ZZZZZZ	10/13/23 14:12							
ZZZZZZ	10/13/23 14:14							
ZZZZZZ	10/13/23 14:17							
ZZZZZZ	10/13/23 14:19							
ZZZZZZ	10/13/23 14:21							
ZZZZZZ	10/13/23 14:24							
ZZZZZZ	10/13/23 14:26							
ZZZZZZ	10/13/23 14:28							
ZZZZZZ	10/13/23 14:31							
ZZZZZZ	10/13/23 14:33							
ZZZZZZ	10/13/23 14:35							
ZZZZZZ	10/13/23 14:38							
ZZZZZZ	10/13/23 14:40							
ZZZZZZ	10/13/23 14:43							
ZZZZZZ	10/13/23 14:45							
ZZZZZZ	10/13/23 14:47							

Organochlorine Pesticides and Polychlorinated Biphenyls

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23 08:00
Sample Matrix:	Wastewater	**Date Received:**	09/28/23 12:00
Sample Name:	002 Composite	**Units:**	ug/L
Lab Code:	K2310979-003	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608.3
Prep Method: EPA 3520C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	0.010	0.00050	1	11/01/23 21:12	10/3/23	
Aroclor 1016	ND U	0.10	0.020	1	11/01/23 21:12	10/3/23	*
Aroclor 1221	ND U	0.10	0.020	1	11/01/23 21:12	10/3/23	
Aroclor 1232	ND U	0.10	0.020	1	11/01/23 21:12	10/3/23	
Aroclor 1242	ND U	0.10	0.020	1	11/01/23 21:12	10/3/23	
Aroclor 1248	ND U	0.10	0.020	1	11/01/23 21:12	10/3/23	
Aroclor 1254	ND U	0.10	0.025	1	11/01/23 21:12	10/3/23	
Aroclor 1260	ND U	0.10	0.025	1	11/01/23 21:12	10/3/23	
alpha-BHC	ND U	0.010	0.00053	1	11/01/23 21:12	10/3/23	
beta-BHC	ND U	0.043	0.043	1	11/01/23 21:12	10/3/23	
delta-BHC	ND U	0.010	0.00047	1	11/01/23 21:12	10/3/23	
gamma-BHC (Lindane)	ND U	0.010	0.00069	1	11/01/23 21:12	10/3/23	
Chlordane	ND U	0.20	0.030	1	11/01/23 21:12	10/3/23	
4,4'-DDD	ND U	0.010	0.00052	1	11/01/23 21:12	10/3/23	
4,4'-DDE	ND U	0.010	0.00076	1	11/01/23 21:12	10/3/23	
4,4'-DDT	ND U	0.010	0.00079	1	11/01/23 21:12	10/3/23	
Dieldrin	ND U	0.010	0.00054	1	11/01/23 21:12	10/3/23	
Endosulfan I	ND U	0.010	0.0033	1	11/01/23 21:12	10/3/23	
Endosulfan II	ND U	0.010	0.00090	1	11/01/23 21:12	10/3/23	
Endosulfan Sulfate	ND U	0.010	0.00037	1	11/01/23 21:12	10/3/23	
Endrin	ND U	0.010	0.00055	1	11/01/23 21:12	10/3/23	*
Endrin Aldehyde	ND U	0.010	0.0053	1	11/01/23 21:12	10/3/23	
Heptachlor	ND Ui	0.010	0.0038	1	11/01/23 21:12	10/3/23	
Heptachlor Epoxide	ND U	0.010	0.0023	1	11/01/23 21:12	10/3/23	
Toxaphene	ND U	0.51	0.058	1	11/01/23 21:12	10/3/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	48	10 - 134	11/01/23 21:12	
Tetrachloro-m-xylene	116	10 - 134	11/01/23 21:12	

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Analytical Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
Sample Matrix:	Wastewater	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KQ2317362-01	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608.3
Prep Method: EPA 3520C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	0.0096	0.00049	1	11/03/23 01:36	10/3/23	
Aroclor 1016	ND U	0.10	0.019	1	11/03/23 01:36	10/3/23	
Aroclor 1221	ND U	0.10	0.019	1	11/03/23 01:36	10/3/23	
Aroclor 1232	ND U	0.10	0.019	1	11/03/23 01:36	10/3/23	
Aroclor 1242	ND U	0.10	0.019	1	11/03/23 01:36	10/3/23	
Aroclor 1248	ND U	0.10	0.019	1	11/03/23 01:36	10/3/23	
Aroclor 1254	ND U	0.10	0.024	1	11/03/23 01:36	10/3/23	
Aroclor 1260	ND U	0.10	0.024	1	11/03/23 01:36	10/3/23	
alpha-BHC	ND U	0.0096	0.00051	1	11/03/23 01:36	10/3/23	
beta-BHC	ND U	0.042	0.042	1	11/03/23 01:36	10/3/23	
delta-BHC	ND U	0.0096	0.00046	1	11/03/23 01:36	10/3/23	
gamma-BHC (Lindane)	ND U	0.0096	0.00067	1	11/03/23 01:36	10/3/23	
Chlordane	ND U	0.19	0.029	1	11/03/23 01:36	10/3/23	
4,4'-DDD	ND U	0.0096	0.00050	1	11/03/23 01:36	10/3/23	
4,4'-DDE	ND U	0.0096	0.00074	1	11/03/23 01:36	10/3/23	
4,4'-DDT	ND U	0.0096	0.00077	1	11/03/23 01:36	10/3/23	
Dieldrin	ND U	0.0096	0.00052	1	11/03/23 01:36	10/3/23	
Endosulfan I	ND U	0.0096	0.0032	1	11/03/23 01:36	10/3/23	
Endosulfan II	ND U	0.0096	0.00088	1	11/03/23 01:36	10/3/23	
Endosulfan Sulfate	ND U	0.0096	0.00036	1	11/03/23 01:36	10/3/23	
Endrin	ND U	0.0096	0.00053	1	11/03/23 01:36	10/3/23	
Endrin Aldehyde	ND U	0.0096	0.0051	1	11/03/23 01:36	10/3/23	
Heptachlor	ND U	0.0096	0.00051	1	11/03/23 01:36	10/3/23	
Heptachlor Epoxide	ND U	0.0096	0.0022	1	11/03/23 01:36	10/3/23	
Toxaphene	ND U	0.48	0.056	1	11/03/23 01:36	10/3/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	43	10 - 134	11/03/23 01:36	
Tetrachloro-m-xylene	48	10 - 134	11/03/23 01:36	

Confirmation Results

Client: Lanxess Corporation (formerly Emerald Kalama Chemical)
Project: 2023 NPDES Annual-Biannual
Matrix: Wastewater

Service Request: K2310979
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2317362-02

Units: ug/L
Basis: NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analytical Method: 608.3
Prep Method: EPA 3520C

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.00050	0.0617	0.0728	17		1	11/03/23 02:01
4,4'-DDE	0.00074	0.0610	0.0715	16		1	11/03/23 02:01
4,4'-DDT	0.00077	0.0682	0.0713	4		1	11/03/23 02:01
Aldrin	0.00049	0.0536	0.0584	9		1	11/03/23 02:01
Dieldrin	0.00052	0.0579	0.0661	13		1	11/03/23 02:01
Endosulfan I	0.0032	0.0522	0.0599	14		1	11/03/23 02:01
Endosulfan II	0.00088	0.0522	0.0608	15		1	11/03/23 02:01
Endosulfan Sulfate	0.00036	0.0543	0.0634	15		1	11/03/23 02:01
Endrin	0.00053	0.0674	0.0802	17		1	11/03/23 02:01
Endrin Aldehyde	0.0051	0.0474	0.0623	27		1	11/03/23 02:01
Heptachlor	0.00051	0.0606	0.0640	5		1	11/03/23 02:01
Heptachlor Epoxide	0.0022	0.0589	0.0668	13		1	11/03/23 02:01
alpha-BHC	0.00051	0.0624	0.0698	11		1	11/03/23 02:01
beta-BHC	0.042	0.0803	0.0841	5		1	11/03/23 02:01
delta-BHC	0.00046	0.0629	0.0695	10		1	11/03/23 02:01
gamma-BHC (Lindane)	0.00067	0.0597	0.0708	17		1	11/03/23 02:01

Confirmation Results

Client: Lanxess Corporation (formerly Emerald Kalama Chemical)
Project: 2023 NPDES Annual-Biannual
Matrix: Wastewater

Service Request: K2310979
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: KQ2317362-03

Units: ug/L
Basis: NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analytical Method: 608.3
Prep Method: EPA 3520C

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.00050	0.0625	0.0740	17		1	11/03/23 02:25
4,4'-DDE	0.00074	0.0620	0.0726	16		1	11/03/23 02:25
4,4'-DDT	0.00077	0.0684	0.0725	6		1	11/03/23 02:25
Aldrin	0.00049	0.0541	0.0589	8		1	11/03/23 02:25
Dieldrin	0.00052	0.0592	0.0670	12		1	11/03/23 02:25
Endosulfan I	0.0032	0.0533	0.0610	13		1	11/03/23 02:25
Endosulfan II	0.00088	0.0530	0.0625	16		1	11/03/23 02:25
Endosulfan Sulfate	0.00036	0.0564	0.0652	14		1	11/03/23 02:25
Endrin	0.00053	0.0682	0.0815	18		1	11/03/23 02:25
Endrin Aldehyde	0.0051	0.0483	0.0633	27		1	11/03/23 02:25
Heptachlor	0.00051	0.0620	0.0646	4		1	11/03/23 02:25
Heptachlor Epoxide	0.0022	0.0600	0.0680	13		1	11/03/23 02:25
alpha-BHC	0.00051	0.0631	0.0719	13		1	11/03/23 02:25
beta-BHC	0.042	0.0816	0.0878	7		1	11/03/23 02:25
delta-BHC	0.00046	0.0633	0.0709	11		1	11/03/23 02:25
gamma-BHC (Lindane)	0.00067	0.0612	0.0741	19		1	11/03/23 02:25

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Confirmation Results

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
Matrix:	Wastewater	**Date Received:**	
Sample Name:	Lab Control Sample		
Lab Code:	KQ2317362-04	**Units:**	ug/L
		Basis:	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analytical Method: 608.3
Prep Method: EPA 3520C

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	0.019	0.276	1.42	135	P	1	11/03/23 02:50
Aroclor 1260	0.024	0.193	0.226	16		1	11/03/23 02:50

Confirmation Results

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
Matrix:	Wastewater	**Date Received:**	
Sample Name:	Duplicate Lab Control Sample		
Lab Code:	KQ2317362-05	**Units:**	ug/L
		Basis:	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analytical Method: 608.3
Prep Method: EPA 3520C

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	0.019	0.952	0.745	24		1	11/07/23 12:44
Aroclor 1260	0.024	0.239	0.346	37		1	11/07/23 12:44

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual
Sample Matrix: Wastewater

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608.3
Extraction Method: EPA 3520C

Sample Name	Lab Code	Decachlorobiphenyl 10 - 134	Tetrachloro-m-xylene 10 - 134
002 Composite	K2310979-003	48	116
Method Blank	KQ2317362-01	43	48
Lab Control Sample	KQ2317362-02	41	46
Duplicate Lab Control Sample	KQ2317362-03	41	47
Lab Control Sample	KQ2317362-04	48	47
Duplicate Lab Control Sample	KQ2317362-05	36	47

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/1/23 13:42

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110123\1101F004.D\ **Lab Code:** KQ2318924-02
Instrument ID: K-GC-33 **Analysis Lot:** 821707
Analytical Method: 608.3 **Signal ID:** RTX-CLP

		Pentachloronitrobenzene (PCNB)		Pentachloronitrobenzene {2}		Pentachloronitrobenzene {3}	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	228,309,771*	10.98	228,492,037	10.98	228,492,037	10.98
	Upper Limit ==>	456,619,542	11.48	456,984,074	11.48	456,984,074	11.48
	Lower Limit ==>	114,154,886	10.48	114,246,019	10.48	114,246,019	10.48
	ICAL Result ==>	97,030,374	11.03	148,303,475	11.03	164,490,566	11.06
Associated Analyses							
002 Composite	K2310979-003	238,197,549	10.98	238,197,549	10.98	238,197,549	10.98

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/1/23 13:42

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110123\1101F004.D\ **Lab Code:** KQ2318924-02
Instrument ID: K-GC-33 **Analysis Lot:** 821707
Analytical Method: 608.3 **Signal ID:** RTX-CLP

		Pentachloronitrobenzene{4}		Pentachloronitrobenzene{5}	
		Area	**RT**	**Area**	**RT**
	Results ==>	228,492,037	10.98	228,492,037	10.98
	Upper Limit ==>	456,984,074	11.48	456,984,074	11.48
	Lower Limit ==>	114,246,019	10.48	114,246,019	10.48
	ICAL Result ==>	167,625,979	11.06	165,112,927	11.06
Associated Analyses					
002 Composite	K2310979-003	238,197,549	10.98	238,197,549	10.98

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/1/23 13:42

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110123\1101F004.D\ **Lab Code:** KQ2318924-02
Instrument ID: K-GC-33 **Analysis Lot:** 821707
Analytical Method: 608.3 **Signal ID:** RTX-CLP2

		Pentachloronitrobenzene (PCNB)		Pentachloronitrobenzene {2}		Pentachloronitrobenzene {3}	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	59,233,267	10.82	59,021,108*	10.82	59,021,108*	10.82
	Upper Limit ==>	118,466,534	11.32	118,042,216	11.32	118,042,216	11.32
	Lower Limit ==>	29,616,634	10.32	29,510,554	10.32	29,510,554	10.32
	ICAL Result ==>	102,362,000	10.85	200,860,017	10.85	126,289,551	10.88
Associated Analyses							
002 Composite	K2310979-003	67,233,471	10.82	67,233,471	10.82	67,233,471	10.82

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/1/23 13:42

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110123\1101F004.D\ **Lab Code:** KQ2318924-02
Instrument ID: K-GC-33 **Analysis Lot:** 821707
Analytical Method: 608.3 **Signal ID:** RTX-CLP2

		Pentachloronitrobenzene{4}		Pentachloronitrobenzene{5}	
		Area	**RT**	**Area**	**RT**
	Results ==>	59,021,108*	10.82	59,021,108*	10.82
	Upper Limit ==>	118,042,216	11.32	118,042,216	11.32
	Lower Limit ==>	29,510,554	10.32	29,510,554	10.32
	ICAL Result ==>	126,357,032	10.88	124,069,446	10.88
Associated Analyses					
002 Composite	K2310979-003	67,233,471	10.82	67,233,471	10.82

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/2/23 19:53

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110223\1102F007.D\ **Lab Code:** KQ2318956-02
Instrument ID: K-GC-33 **Analysis Lot:** 821752
Analytical Method: 608.3 **Signal ID:** RTX-CLP

		Pentachloronitrobenzene (PCNB)		Pentachloronitrobenzene {2}		Pentachloronitrobenzene {3}	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	230,073,606*	10.91	230,073,606	10.91	230,073,606	10.91
	Upper Limit ==>	460,147,212	11.41	460,147,212	11.41	460,147,212	11.41
	Lower Limit ==>	115,036,803	10.41	115,036,803	10.41	115,036,803	10.41
	ICAL Result ==>	97,030,374	11.03	148,303,475	11.03	164,490,566	11.06
Associated Analyses							
Method Blank	KQ2317362-01	285,065,004	10.90	285,065,004	10.90	285,065,004	10.90
Lab Control Sample	KQ2317362-02	312,900,639	10.91	312,900,639	10.91	312,900,639	10.91
Duplicate Lab Control Sample	KQ2317362-03	319,650,352	10.91	319,650,352	10.91	319,650,352	10.91
Lab Control Sample	KQ2317362-04	324,456,545	10.91	324,456,545	10.91	324,456,545	10.91

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/2/23 19:53

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110223\1102F007.D\ **Lab Code:** KQ2318956-02
Instrument ID: K-GC-33 **Analysis Lot:** 821752
Analytical Method: 608.3 **Signal ID:** RTX-CLP

		Pentachloronitrobenzene{4}		Pentachloronitrobenzene{5}	
		Area	**RT**	**Area**	**RT**
	Results ==>	230,073,606	10.91	230,073,606	10.91
	Upper Limit ==>	460,147,212	11.41	460,147,212	11.41
	Lower Limit ==>	115,036,803	10.41	115,036,803	10.41
	ICAL Result ==>	167,625,979	11.06	165,112,927	11.06
Associated Analyses					
Method Blank	KQ2317362-01	285,065,004	10.90	285,065,004	10.90
Lab Control Sample	KQ2317362-02	312,900,639	10.91	312,900,639	10.91
Duplicate Lab Control Sample	KQ2317362-03	319,650,352	10.91	319,650,352	10.91
Lab Control Sample	KQ2317362-04	324,456,545	10.91	324,456,545	10.91

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/2/23 19:53

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110223\1102F007.D\ **Lab Code:** KQ2318956-02
Instrument ID: K-GC-33 **Analysis Lot:** 821752
Analytical Method: 608.3 **Signal ID:** RTX-CLP2

		Pentachloronitrobenzene (PCNB)		Pentachloronitrobenzene {2}		Pentachloronitrobenzene {3}	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	52,200,416	10.78	52,200,416*	10.78	52,200,416*	10.78
	Upper Limit ==>	104,400,832	11.28	104,400,832	11.28	104,400,832	11.28
	Lower Limit ==>	26,100,208	10.28	26,100,208	10.28	26,100,208	10.28
	ICAL Result ==>	102,362,000	10.85	200,860,017	10.85	126,289,551	10.88
Associated Analyses							
Method Blank	KQ2317362-01	78,098,238	10.77	78,098,238	10.77	78,098,238	10.77
Lab Control Sample	KQ2317362-02	78,309,984	10.77	78,309,984	10.77	78,309,984	10.77
Duplicate Lab Control Sample	KQ2317362-03	79,608,269	10.77	79,608,269	10.77	79,608,269	10.77
Lab Control Sample	KQ2317362-04	83,610,928	10.77	83,610,928	10.77	83,610,928	10.77

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/2/23 19:53

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110223\1102F007.D\ **Lab Code:** KQ2318956-02
Instrument ID: K-GC-33 **Analysis Lot:** 821752
Analytical Method: 608.3 **Signal ID:** RTX-CLP2

		Pentachloronitrobenzene{4}		Pentachloronitrobenzene{5}	
		Area	**RT**	**Area**	**RT**
	Results ==>	52,200,416*	10.78	52,200,416*	10.78
	Upper Limit ==>	104,400,832	11.28	104,400,832	11.28
	Lower Limit ==>	26,100,208	10.28	26,100,208	10.28
	ICAL Result ==>	126,357,032	10.88	124,069,446	10.88
Associated Analyses					
Method Blank	KQ2317362-01	78,098,238	10.77	78,098,238	10.77
Lab Control Sample	KQ2317362-02	78,309,984	10.77	78,309,984	10.77
Duplicate Lab Control Sample	KQ2317362-03	79,608,269	10.77	79,608,269	10.77
Lab Control Sample	KQ2317362-04	83,610,928	10.77	83,610,928	10.77

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/7/23 10:41

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110723\1107F004.D\ **Lab Code:** KQ2319839-01
Instrument ID: K-GC-33 **Analysis Lot:** 823308
Analytical Method: 608.3 **Signal ID:** RTX-CLP

		Pentachloronitrobenzene (PCNB)		Pentachloronitrobenzene {2}		Pentachloronitrobenzene {3}	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	470,726,317*	10.90	470,726,317*	10.90	470,726,317*	10.90
	Upper Limit ==>	941,452,634	11.40	941,452,634	11.40	941,452,634	11.40
	Lower Limit ==>	235,363,159	10.40	235,363,159	10.40	235,363,159	10.40
	ICAL Result ==>	97,030,374	11.03	148,303,475	11.03	164,490,566	11.06
Associated Analyses							
Duplicate Lab Control Sample	KQ2317362-05	479,567,652	10.89	479,567,652	10.89	479,567,652	10.89

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/7/23 10:41

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110723\1107F004.D\ **Lab Code:** KQ2319839-01
Instrument ID: K-GC-33 **Analysis Lot:** 823308
Analytical Method: 608.3 **Signal ID:** RTX-CLP

		Pentachloronitrobenzene{4}		Pentachloronitrobenzene{5}	
		Area	**RT**	**Area**	**RT**
	Results ==>	470,726,317*	10.90	470,726,317*	10.90
	Upper Limit ==>	941,452,634	11.40	941,452,634	11.40
	Lower Limit ==>	235,363,159	10.40	235,363,159	10.40
	ICAL Result ==>	167,625,979	11.06	165,112,927	11.06
Associated Analyses					
Duplicate Lab Control Sample	KQ2317362-05	479,567,652	10.89	479,567,652	10.89

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/7/23 10:41

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110723\1107F004.D\ **Lab Code:** KQ2319839-01
Instrument ID: K-GC-33 **Analysis Lot:** 823308
Analytical Method: 608.3 **Signal ID:** RTX-CLP2

		Pentachloronitrobenzene (PCNB)		Pentachloronitrobenzene {2}		Pentachloronitrobenzene {3}	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	86,426,706	10.77	86,426,706*	10.77	86,426,706	10.77
	Upper Limit ==>	172,853,412	11.27	172,853,412	11.27	172,853,412	11.27
	Lower Limit ==>	43,213,353	10.27	43,213,353	10.27	43,213,353	10.27
	ICAL Result ==>	102,362,000	10.85	200,860,017	10.85	126,289,551	10.88
Associated Analyses							
Duplicate Lab Control Sample	KQ2317362-05	93,475,621	10.77	93,475,621	10.77	93,475,621	10.77

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:** 11/7/23 10:41

Internal Standard Area and RT Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

File ID: J:\GC33\DATA\110723\1107F004.D\ **Lab Code:** KQ2319839-01
Instrument ID: K-GC-33 **Analysis Lot:** 823308
Analytical Method: 608.3 **Signal ID:** RTX-CLP2

		Pentachloronitrobenzene{4}		Pentachloronitrobenzene{5}	
		Area	**RT**	**Area**	**RT**
	Results ==>	86,426,706	10.77	86,426,706	10.77
	Upper Limit ==>	172,853,412	11.27	172,853,412	11.27
	Lower Limit ==>	43,213,353	10.27	43,213,353	10.27
	ICAL Result ==>	126,357,032	10.88	124,069,446	10.88
Associated Analyses					
Duplicate Lab Control Sample	KQ2317362-05	93,475,621	10.77	93,475,621	10.77

Results flagged with an asterisk (*) indicate values outside control criteria.

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/03/23
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Duplicate Lab Control Sample Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608.3	**Units:**	ug/L
Prep Method:	EPA 3520C	**Basis:**	NA
		Analysis Lot:	821752

	Lab Control Sample KQ2317362-02			Duplicate Lab Control Sample KQ2317362-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	0.0617	0.100	62	0.0625	0.100	63	31-141	1	39
4,4'-DDE	0.0610	0.100	61	0.0620	0.100	62	30-145	2	35
4,4'-DDT	0.0682	0.100	68	0.0684	0.100	68	25-160	<1	42
Aldrin	0.0536	0.100	54	0.0541	0.100	54	42-140	<1	35
alpha-BHC	0.0624	0.100	62	0.0631	0.100	63	37-140	1	36
beta-BHC	0.0803	0.100	80	0.0816	0.100	82	17-147	2	44
delta-BHC	0.0629	0.100	63	0.0633	0.100	63	19-140	<1	52
Dieldrin	0.0579	0.100	58	0.0592	0.100	59	36-146	2	49
Endosulfan I	0.0522	0.100	52	0.0533	0.100	53	45-153	2	28
Endosulfan II	0.0522	0.100	52	0.0530	0.100	53	10-202	2	53
Endosulfan Sulfate	0.0543	0.100	54	0.0564	0.100	56	26-144	4	38
Endrin	0.0674	0.100	67	0.0682	0.100	68	30-147	1	48
Endrin Aldehyde	0.0474	0.100	47	0.0483	0.100	48	43-125	2	30
gamma-BHC (Lindane)	0.0597	0.100	60	0.0612	0.100	61	32-140	2	39
Heptachlor	0.0606	0.100	61	0.0620	0.100	62	34-140	2	43
Heptachlor Epoxide	0.0589	0.100	59	0.0600	0.100	60	37-142	2	26

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/03/23 - 11/07/23
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Duplicate Lab Control Sample Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608.3	**Units:**	ug/L
Prep Method:	EPA 3520C	**Basis:**	NA
		Analysis Lot:	821752

	Lab Control Sample KQ2317362-04			Duplicate Lab Control Sample KQ2317362-05					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	0.276 P	0.500	55	0.952	0.500	190 *	50-140	110 *	36
Aroclor 1260	0.193	0.500	39	0.239	0.500	48	8-140	21	38

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	NA
Sample Matrix:	Wastewater	**Date Extracted:**	

Method Blank Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Sample Name:		**Instrument ID:**	
Lab Code:		**File ID:**	
Analysis Method:	608.3	**Analysis Lot:**	821707
Prep Method:	None		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	KQ2318924-01	J:\GC33\DATA\110123\1101F003.D\	11/01/23 13:10
Performance Evaluation	KQ2318956-01	J:\GC33\DATA\110223\1102F006.D\	11/02/23 19:28
Performance Evaluation	KQ2319839-02	J:\GC33\DATA\110723\1107F003.D\	11/07/23 10:16

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/03/23 01:36
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Method Blank Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Sample Name:	Method Blank	**Instrument ID:**	K-GC-33
Lab Code:	KQ2317362-01	**File ID:**	J:\GC33\DATA\110223\1102F021.D\
Analysis Method:	608.3	**Analysis Lot:**	821707,821752,823308
Prep Method:	EPA 3520C	**Extraction Lot:**	427536

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
002 Composite	K2310979-003	J:\GC33\DATA\110123\1101F018.D\	11/01/23 21:12
Lab Control Sample	KQ2317362-02	J:\GC33\DATA\110223\1102F022.D\	11/03/23 02:01
Duplicate Lab Control Sample	KQ2317362-03	J:\GC33\DATA\110223\1102F023.D\	11/03/23 02:25
Lab Control Sample	KQ2317362-04	J:\GC33\DATA\110223\1102F024.D\	11/03/23 02:50
Duplicate Lab Control Sample	KQ2317362-05	J:\GC33\DATA\110723\1107F009.D\	11/07/23 12:44

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	NA
Sample Matrix:	Wastewater	**Date Extracted:**	

Lab Control Sample Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Sample Name: **Instrument ID:**
Lab Code: **File ID:**

Analysis Method: 608.3 **Analysis Lot:**821707
Prep Method: None

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	KQ2318924-01	J:\GC33\DATA\110123\1101F003.D\	11/01/23 13:10
Performance Evaluation	KQ2318956-01	J:\GC33\DATA\110223\1102F006.D\	11/02/23 19:28
Performance Evaluation	KQ2319839-02	J:\GC33\DATA\110723\1107F003.D\	11/07/23 10:16

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/03/23 02:50
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Lab Control Sample Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-33
Lab Code:	KQ2317362-04	**File ID:**	J:\GC33\DATA\110223\1102F024.D\
Analysis Method:	608.3	**Analysis Lot:**	821707,821752,823308
Prep Method:	EPA 3520C	**Extraction Lot:**	427536

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
002 Composite	K2310979-003	J:\GC33\DATA\110123\1101F018.D\	11/01/23 21:12
Method Blank	KQ2317362-01	J:\GC33\DATA\110223\1102F021.D\	11/03/23 01:36
Duplicate Lab Control Sample	KQ2317362-03	J:\GC33\DATA\110223\1102F023.D\	11/03/23 02:25
Duplicate Lab Control Sample	KQ2317362-05	J:\GC33\DATA\110723\1107F009.D\	11/07/23 12:44

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2300589-01	DWSTD08-82B 2PPB	J:\GC33\DATA\092123\0921000005.D	09/21/2023 12:38
02	KC2300589-02	DWSTD08-82B 5PPB	J:\GC33\DATA\092123\0921000006.D	09/21/2023 13:11
03	KC2300589-03	DWSTD08-82B 20PPB	J:\GC33\DATA\092123\0921000007.D	09/21/2023 13:43
04	KC2300589-04	DWSTD08-82B 50PPB	J:\GC33\DATA\092123\0921000008.D	09/21/2023 14:15
05	KC2300589-05	DWSTD08-82B 75PPB	J:\GC33\DATA\092123\0921000009.D	09/21/2023 14:48
06	KC2300589-06	DWSTD08-82B 100PPB	J:\GC33\DATA\092123\0921000010.D	09/21/2023 15:20
07	KC2300589-07	DWSTD08-82B 200PPB	J:\GC33\DATA\092123\0921000011.D	09/21/2023 15:53
09	KC2300589-09	GCPS9-29D 50PPB TOX	J:\GC33\DATA\100223\1002000009.D	10/03/2023 18:59
10	KC2300589-10	GCPS9-29D 100PPB TOX	J:\GC33\DATA\100223\1002000010.D	10/03/2023 19:31
11	KC2300589-11	GCPS9-29D 200PPB TOX	J:\GC33\DATA\100223\1002000011.D	10/03/2023 20:04
12	KC2300589-12	GCPS9-29D 500PPB TOX	J:\GC33\DATA\100223\1002000012.D	10/03/2023 20:36
13	KC2300589-13	GCPS9-29D 1000PPB TOX	J:\GC33\DATA\100223\1002000013.D	10/03/2023 21:08
14	KC2300589-14	GCPS9-29D 2000PPB TOX	J:\GC33\DATA\100223\1002000014.D	10/03/2023 21:40
16	KC2300589-16	GCPS9-33I CHLOR 50PPB	J:\GC33\DATA\100223\1002000016.D	10/03/2023 22:45
17	KC2300589-17	GCPS9-33I CHLOR 100PPB	J:\GC33\DATA\100223\1002000017.D	10/03/2023 23:17
18	KC2300589-18	GCPS9-33I CHLOR 200PPB	J:\GC33\DATA\100223\1002000018.D	10/03/2023 23:49
19	KC2300589-19	GCPS9-33I CHLOR 500PPB	J:\GC33\DATA\100223\1002000019.D	10/04/2023 00:22
20	KC2300589-20	GCPS9-33I CHLOR 1000PPB	J:\GC33\DATA\100223\1002000020.D	10/04/2023 00:54
21	KC2300589-21	GCPS9-33I CHLOR 2000PPB	J:\GC33\DATA\100223\1002000021.D	10/04/2023 01:26
23	KC2300589-23	PCB9-47B 25PPB 1660	J:\GC33\DATA\100923\1009000028.D	10/10/2023 07:34
24	KC2300589-24	PCB9-47B 50PPB 1660	J:\GC33\DATA\100923\1009000029.D	10/10/2023 08:07
25	KC2300589-25	PCB9-47B 100PPB 1660	J:\GC33\DATA\100923\1009000030.D	10/10/2023 08:40
26	KC2300589-26	PCB9-47B 200PPB 1660	J:\GC33\DATA\100923\1009000031.D	10/10/2023 09:13
27	KC2300589-27	PCB9-47B 500PPB 1660	J:\GC33\DATA\100923\1009000032.D	10/10/2023 09:45
28	KC2300589-28	PCB9-47B 1000PPB 1660	J:\GC33\DATA\100923\1009000033.D	10/10/2023 10:18
29	KC2300589-29	PCB9-47C 200PPB 2154	J:\GC33\DATA\100923\1009000034.D	10/10/2023 10:51
30	KC2300589-30	PCB9-47D 200PPB 3262	J:\GC33\DATA\100923\1009000035.D	10/10/2023 11:24
31	KC2300589-31	PCB9-47E 200PPB 4268	J:\GC33\DATA\100923\1009000036.D	10/10/2023 11:56
32	KC2300589-32	PCB9-47F 200PPB 1248	J:\GC33\DATA\100923\1009000037.D	10/10/2023 12:29

Analyte

4,4'-DDD

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.5074	02	5.000	0.3948	03	20.000	0.382	04	50.000	0.4671
05	75.000	0.5007	06	100.000	0.5149	07	200.000	0.5231			

4,4'-DDE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.7343	02	5.000	0.553	03	20.000	0.536	04	50.000	0.6695

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

Analyte

4,4'-DDE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	75.000	0.6937	06	100.000	0.709	07	200.000	0.7228			

4,4'-DDT

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.5039	02	5.000	0.3832	03	20.000	0.364	04	50.000	0.4475
05	75.000	0.4835	06	100.000	0.4946	07	200.000	0.522			

Aldrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.079	02	5.000	0.8239	03	20.000	0.8366	04	50.000	1.076
05	75.000	1.059	06	100.000	1.104	07	200.000	1.192			

Aroclor 1016 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	50.000	0.004658	25	100.000	0.004832	26	200.000	0.004508	27	500.000	0.004256
28	1000.000	0.004169									

Aroclor 1016 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	50.000	0.02064	25	100.000	0.01309	26	200.000	0.01156	27	500.000	0.01071
28	1000.000	0.01009									

Aroclor 1016 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	50.000	0.02059	25	100.000	0.0191	26	200.000	0.01775	27	500.000	0.01557
28	1000.000	0.01645									

Aroclor 1016 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	50.000	0.01411	25	100.000	0.01345	26	200.000	0.01232	27	500.000	0.0111
28	1000.000	0.01084									

Aroclor 1221 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.005648									

Aroclor 1221 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.004188									

Aroclor 1221 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.01893									

Aroclor 1221 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.002372									

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

Analyte

Aroclor 1232 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
30	200.000	0.002953									

Aroclor 1232 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
30	200.000	0.00782									

Aroclor 1232 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
30	200.000	0.01075									

Aroclor 1232 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
30	200.000	0.002074									

Aroclor 1242 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
31	200.000	0.001847									

Aroclor 1242 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
31	200.000	0.01646									

Aroclor 1242 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
31	200.000	0.009694									

Aroclor 1242 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
31	200.000	0.0005236									

Aroclor 1248 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
32	200.000	0.01005									

Aroclor 1248 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
32	200.000	0.004339									

Aroclor 1248 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
32	200.000	0.006861									

Aroclor 1248 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
32	200.000	0.002344									

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

Analyte

Aroclor 1254 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.002387									

Aroclor 1254 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.009026									

Aroclor 1254 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.002673									

Aroclor 1254 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.002125									

Aroclor 1260 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
23	25.000	0.02052	24	50.000	0.02261	25	100.000	0.02045	26	200.000	0.01609
27	500.000	0.01508	28	1000.000	0.01497						

Aroclor 1260 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
23	25.000	0.01061	24	50.000	0.008176	25	100.000	0.009619	26	200.000	0.00822
27	500.000	0.007877	28	1000.000	0.007443						

Aroclor 1260 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
23	25.000	0.003973	24	50.000	0.005062	25	100.000	0.005792	26	200.000	0.005229
27	500.000	0.005023	28	1000.000	0.004924						

Aroclor 1260 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
23	25.000	0.006013	24	50.000	0.004967	25	100.000	0.004982	26	200.000	0.004539
27	500.000	0.00412	28	1000.000	0.004062						

Chlordane {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
16	50.000	0.03041	17	100.000	0.02906	18	200.000	0.02801	19	500.000	0.02997
20	1000.000	0.0294	21	2000.000	0.02979						

Chlordane {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
16	50.000	0.09754	17	100.000	0.09809	18	200.000	0.1004	19	500.000	0.1128
20	1000.000	0.1121	21	2000.000	0.1227						

Chlordane {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
16	50.000	0.02216	17	100.000	0.02128	18	200.000	0.02073	19	500.000	0.02293

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

Analyte

Chlordane {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
20	1000.000	0.0208	21	2000.000	0.02531						

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.8189	02	5.000	0.611	03	20.000	0.5275	04	50.000	0.6154
05	75.000	0.599	06	100.000	0.613	07	200.000	0.6355			

Dieldrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.8138	02	5.000	0.6468	03	20.000	0.636	04	50.000	0.7831
05	75.000	0.819	06	100.000	0.8385	07	200.000	0.8477			

Endosulfan I

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.799	02	5.000	0.6221	03	20.000	0.5931	04	50.000	0.7266
05	75.000	0.7456	06	100.000	0.7596	07	200.000	0.7584			

Endosulfan II

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.7333	02	5.000	0.5561	03	20.000	0.5043	04	50.000	0.5922
05	75.000	0.6249	06	100.000	0.6364	07	200.000	0.6442			

Endosulfan Sulfate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.6661	02	5.000	0.5155	03	20.000	0.4534	04	50.000	0.5169
05	75.000	0.5083	06	100.000	0.5258	07	200.000	0.5563			

Endrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.6412	02	5.000	0.5167	03	20.000	0.4972	04	50.000	0.6015
05	75.000	0.6483	06	100.000	0.6635	07	200.000	0.6808			

Endrin Aldehyde

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.586	02	5.000	0.4407	03	20.000	0.3911	04	50.000	0.4446
05	75.000	0.4609	06	100.000	0.4627	07	200.000	0.467			

Heptachlor

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.8592	02	5.000	0.6593	03	20.000	0.6737	04	50.000	0.8825
05	75.000	0.882	06	100.000	0.9362	07	200.000	1.036			

Heptachlor Epoxide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.9335	02	5.000	0.7002	03	20.000	0.6783	04	50.000	0.8533
05	75.000	0.8436	06	100.000	0.8747	07	200.000	0.9333			

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

Analyte

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.6926	02	5.000	0.5153	03	20.000	0.4462	04	50.000	0.5294
05	75.000	0.5064	06	100.000	0.5206	07	200.000	0.5459			

Toxaphene {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	50.000	0.01927	10	100.000	0.01585	11	200.000	0.01668	12	500.000	0.01693
13	1000.000	0.0172	14	2000.000	0.01826						

Toxaphene {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	50.000	0.01253	10	100.000	0.01184	11	200.000	0.01111	12	500.000	0.01401
13	1000.000	0.0128	14	2000.000	0.01314						

Toxaphene {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	50.000	0.01292	10	100.000	0.01105	11	200.000	0.01157	12	500.000	0.0122
13	1000.000	0.01273	14	2000.000	0.01419						

Toxaphene {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	50.000	0.01253	10	100.000	0.01066	11	200.000	0.009123	12	500.000	0.008924
13	1000.000	0.01063	14	2000.000	0.00985						

alpha-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.069	02	5.000	0.84	03	20.000	0.8952	04	50.000	1.194
05	75.000	1.179	06	100.000	1.236	07	200.000	1.354			

beta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	20.000	0.2261	04	50.000	0.3284	05	75.000	0.3178	06	100.000	0.3537
07	200.000	0.3879									

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.936	02	5.000	0.7348	03	20.000	0.7943	04	50.000	1.048
05	75.000	1.036	06	100.000	1.089	07	200.000	1.196			

gamma-BHC (Lindane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.049	02	5.000	0.817	03	20.000	0.8446	04	50.000	1.108
05	75.000	1.09	06	100.000	1.14	07	200.000	1.245			

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4,4'-DDD	TRG	Average RF	% RSD	12.5	≤15	0.47	
4,4'-DDE	TRG	Average RF	% RSD	12.4	≤15	0.6598	
4,4'-DDT	TRG	Average RF	% RSD	13.5	≤15	0.457	
Aldrin	TRG	Average RF	% RSD	13.6	≤15	1.024	
Aroclor 1016 {1}	MULTI	Linear	R2	0.9992	≥0.92	0.004485	
Aroclor 1016 {2}	MULTI	Linear	R2	0.9970	≥0.92	0.01322	
Aroclor 1016 {3}	MULTI	Average RF	% RSD	11.3	≤15	0.01789	
Aroclor 1016 {4}	MULTI	Average RF	% RSD	11.5	≤15	0.01236	
Aroclor 1221 {1}	MULTI	Average RF	% RSD		≤15	0.005648	
Aroclor 1221 {2}	MULTI	Average RF	% RSD		≤15	0.004188	
Aroclor 1221 {3}	MULTI	Average RF	% RSD		≤15	0.01893	
Aroclor 1221 {4}	MULTI	Average RF	% RSD		≤15	0.002372	
Aroclor 1232 {1}	MULTI	Average RF	% RSD		≤15	0.002953	
Aroclor 1232 {2}	MULTI	Average RF	% RSD		≤15	0.00782	
Aroclor 1232 {3}	MULTI	Average RF	% RSD		≤15	0.01075	
Aroclor 1232 {4}	MULTI	Average RF	% RSD		≤15	0.002074	
Aroclor 1242 {1}	MULTI	Average RF	% RSD		≤15	0.001847	
Aroclor 1242 {2}	MULTI	Average RF	% RSD		≤15	0.01646	
Aroclor 1242 {3}	MULTI	Average RF	% RSD		≤15	0.009694	
Aroclor 1242 {4}	MULTI	Average RF	% RSD		≤15	0.0005236	
Aroclor 1248 {1}	MULTI	Average RF	% RSD		≤15	0.01005	
Aroclor 1248 {2}	MULTI	Average RF	% RSD		≤15	0.004339	
Aroclor 1248 {3}	MULTI	Average RF	% RSD		≤15	0.006861	
Aroclor 1248 {4}	MULTI	Average RF	% RSD		≤15	0.002344	
Aroclor 1254 {1}	MULTI	Average RF	% RSD		≤15	0.002387	
Aroclor 1254 {2}	MULTI	Average RF	% RSD		≤15	0.009026	
Aroclor 1254 {3}	MULTI	Average RF	% RSD		≤15	0.002673	
Aroclor 1254 {4}	MULTI	Average RF	% RSD		≤15	0.002125	
Aroclor 1260 {1}	MULTI	Linear	R2	0.9941	≥0.92	0.01828	
Aroclor 1260 {2}	MULTI	Average RF	% RSD	13.9	≤15	0.008658	
Aroclor 1260 {3}	MULTI	Average RF	% RSD	11.8	≤15	0.005001	
Aroclor 1260 {4}	MULTI	Linear	R2	0.9987	≥0.92	0.004781	
Chlordane {1}	MULTI	Average RF	% RSD	2.9	≤15	0.02944	
Chlordane {2}	MULTI	Average RF	% RSD	9.5	≤15	0.1073	

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Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Chlordane {3}	MULTI	Average RF	% RSD	7.8	≤15	0.0222	
Decachlorobiphenyl	SURR	Average RF	% RSD	14.2	≤15	0.6315	
Dieldrin	TRG	Average RF	% RSD	11.7	≤15	0.7693	
Endosulfan I	TRG	Average RF	% RSD	10.8	≤15	0.7149	
Endosulfan II	TRG	Average RF	% RSD	11.8	≤15	0.6131	
Endosulfan Sulfate	TRG	Average RF	% RSD	12.3	≤15	0.5346	
Endrin	TRG	Average RF	% RSD	12.0	≤15	0.607	
Endrin Aldehyde	TRG	Average RF	% RSD	12.8	≤15	0.4647	
Heptachlor	TRG	Linear	R2	0.9911	≥0.92	0.847	
Heptachlor Epoxide	TRG	Average RF	% RSD	12.4	≤15	0.831	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	14.1	≤15	0.5366	
Toxaphene {1}	MULTI	Average RF	% RSD	7.0	≤15	0.01737	
Toxaphene {2}	MULTI	Average RF	% RSD	8.1	≤15	0.01257	
Toxaphene {3}	MULTI	Average RF	% RSD	8.9	≤15	0.01244	
Toxaphene {4}	MULTI	Average RF	% RSD	12.8	≤15	0.01028	
alpha-BHC	TRG	Linear	R2	0.9927	≥0.92	1.11	
beta-BHC	TRG	Linear	R2	0.9969	≥0.92	0.3228	
delta-BHC	TRG	Linear	R2	0.9926	≥0.92	0.9763	
gamma-BHC (Lindane)	TRG	Linear	R2	0.9933	≥0.92	1.042	

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2300589-01	DWSTD08-82B 2PPB	J:\GC33\DATA\092123\0921000005.D	09/21/2023 12:38
02	KC2300589-02	DWSTD08-82B 5PPB	J:\GC33\DATA\092123\0921000006.D	09/21/2023 13:11
03	KC2300589-03	DWSTD08-82B 20PPB	J:\GC33\DATA\092123\0921000007.D	09/21/2023 13:43
04	KC2300589-04	DWSTD08-82B 50PPB	J:\GC33\DATA\092123\0921000008.D	09/21/2023 14:15
05	KC2300589-05	DWSTD08-82B 75PPB	J:\GC33\DATA\092123\0921000009.D	09/21/2023 14:48
06	KC2300589-06	DWSTD08-82B 100PPB	J:\GC33\DATA\092123\0921000010.D	09/21/2023 15:20
07	KC2300589-07	DWSTD08-82B 200PPB	J:\GC33\DATA\092123\0921000011.D	09/21/2023 15:53
09	KC2300589-09	GCPS9-29D 50PPB TOX	J:\GC33\DATA\100223\1002000009.D	10/03/2023 18:59
10	KC2300589-10	GCPS9-29D 100PPB TOX	J:\GC33\DATA\100223\1002000010.D	10/03/2023 19:31
11	KC2300589-11	GCPS9-29D 200PPB TOX	J:\GC33\DATA\100223\1002000011.D	10/03/2023 20:04
12	KC2300589-12	GCPS9-29D 500PPB TOX	J:\GC33\DATA\100223\1002000012.D	10/03/2023 20:36
13	KC2300589-13	GCPS9-29D 1000PPB TOX	J:\GC33\DATA\100223\1002000013.D	10/03/2023 21:08
14	KC2300589-14	GCPS9-29D 2000PPB TOX	J:\GC33\DATA\100223\1002000014.D	10/03/2023 21:40
16	KC2300589-16	GCPS9-33I CHLOR 50PPB	J:\GC33\DATA\100223\1002000016.D	10/03/2023 22:45
17	KC2300589-17	GCPS9-33I CHLOR 100PPB	J:\GC33\DATA\100223\1002000017.D	10/03/2023 23:17
18	KC2300589-18	GCPS9-33I CHLOR 200PPB	J:\GC33\DATA\100223\1002000018.D	10/03/2023 23:49
19	KC2300589-19	GCPS9-33I CHLOR 500PPB	J:\GC33\DATA\100223\1002000019.D	10/04/2023 00:22
20	KC2300589-20	GCPS9-33I CHLOR 1000PPB	J:\GC33\DATA\100223\1002000020.D	10/04/2023 00:54
21	KC2300589-21	GCPS9-33I CHLOR 2000PPB	J:\GC33\DATA\100223\1002000021.D	10/04/2023 01:26
23	KC2300589-23	PCB9-47B 25PPB 1660	J:\GC33\DATA\100923\1009000028.D	10/10/2023 07:34
24	KC2300589-24	PCB9-47B 50PPB 1660	J:\GC33\DATA\100923\1009000029.D	10/10/2023 08:07
25	KC2300589-25	PCB9-47B 100PPB 1660	J:\GC33\DATA\100923\1009000030.D	10/10/2023 08:40
26	KC2300589-26	PCB9-47B 200PPB 1660	J:\GC33\DATA\100923\1009000031.D	10/10/2023 09:13
27	KC2300589-27	PCB9-47B 500PPB 1660	J:\GC33\DATA\100923\1009000032.D	10/10/2023 09:45
28	KC2300589-28	PCB9-47B 1000PPB 1660	J:\GC33\DATA\100923\1009000033.D	10/10/2023 10:18
29	KC2300589-29	PCB9-47C 200PPB 2154	J:\GC33\DATA\100923\1009000034.D	10/10/2023 10:51
30	KC2300589-30	PCB9-47D 200PPB 3262	J:\GC33\DATA\100923\1009000035.D	10/10/2023 11:24
31	KC2300589-31	PCB9-47E 200PPB 4268	J:\GC33\DATA\100923\1009000036.D	10/10/2023 11:56
32	KC2300589-32	PCB9-47F 200PPB 1248	J:\GC33\DATA\100923\1009000037.D	10/10/2023 12:29

Analyte

4,4'-DDD

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.7637	02	5.000	0.5766	03	20.000	0.5788	04	50.000	0.6439
05	75.000	0.6309	06	100.000	0.6223	07	200.000	0.6065			

4,4'-DDE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.9533	02	5.000	0.7343	03	20.000	0.7516	04	50.000	0.8315

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Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

Analyte

4,4'-DDE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	75.000	0.8102	06	100.000	0.7991	07	200.000	0.7712			

4,4'-DDT

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.7256	02	5.000	0.5439	03	20.000	0.5441	04	50.000	0.6015
05	75.000	0.5931	06	100.000	0.5875	07	200.000	0.5849			

Aldrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.364	02	5.000	1.047	03	20.000	1.101	04	50.000	1.205
05	75.000	1.173	06	100.000	1.153	07	200.000	1.117			

Aroclor 1016 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	50.000	0.01837	25	100.000	0.0123	26	200.000	0.01181	27	500.000	0.00996
28	1000.000	0.009808									

Aroclor 1016 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	50.000	0.02088	25	100.000	0.01803	26	200.000	0.01603	27	500.000	0.01348
28	1000.000	0.0131									

Aroclor 1016 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	50.000	0.008214	25	100.000	0.007646	26	200.000	0.007106	27	500.000	0.00625
28	1000.000	0.006256									

Aroclor 1016 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
24	50.000	0.005224	25	100.000	0.004965	26	200.000	0.00448	27	500.000	0.004014
28	1000.000	0.003905									

Aroclor 1221 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.01384									

Aroclor 1221 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.008412									

Aroclor 1221 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.005345									

Aroclor 1221 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.03214									

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Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

Analyte

Aroclor 1232 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
30	200.000	0.008723									

Aroclor 1232 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
30	200.000	0.001707									

Aroclor 1232 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
30	200.000	0.009342									

Aroclor 1232 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
30	200.000	0.02441									

Aroclor 1242 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
31	200.000	0.003788									

Aroclor 1242 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
31	200.000	0.01527									

Aroclor 1242 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
31	200.000	0.006867									

Aroclor 1242 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
31	200.000	0.005003									

Aroclor 1248 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
32	200.000	0.02123									

Aroclor 1248 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
32	200.000	0.01076									

Aroclor 1248 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
32	200.000	0.01687									

Aroclor 1248 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
32	200.000	0.004335									

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Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

Analyte

Aroclor 1254 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.004188									

Aroclor 1254 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.006381									

Aroclor 1254 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.01048									

Aroclor 1254 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
29	200.000	0.008882									

Aroclor 1260 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
23	25.000	0.04805	24	50.000	0.04497	25	100.000	0.04036	26	200.000	0.03632
27	500.000	0.03157	28	1000.000	0.03179						

Aroclor 1260 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
23	25.000	0.02289	24	50.000	0.02208	25	100.000	0.01944	26	200.000	0.01946
27	500.000	0.01646	28	1000.000	0.01624						

Aroclor 1260 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
23	25.000	0.01454	24	50.000	0.01474	25	100.000	0.01312	26	200.000	0.01181
27	500.000	0.01037	28	1000.000	0.01017						

Aroclor 1260 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
23	25.000	0.008326	24	50.000	0.008565	25	100.000	0.007226	26	200.000	0.006913
27	500.000	0.007295	28	1000.000	0.005804						

Chlordane {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
16	50.000	0.03281	17	100.000	0.03242	18	200.000	0.0315	19	500.000	0.03092
20	1000.000	0.02823	21	2000.000	0.0279						

Chlordane {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
16	50.000	0.1011	17	100.000	0.09975	18	200.000	0.1018	19	500.000	0.1044
20	1000.000	0.09989	21	2000.000	0.09274						

Chlordane {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
16	50.000	0.08463	17	100.000	0.08211	18	200.000	0.08311	19	500.000	0.08532

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

Analyte

Chlordane {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
20	1000.000	0.08081	21	2000.000	0.08151						

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.8412	02	5.000	0.6197	03	20.000	0.5553	04	50.000	0.5702
05	75.000	0.5497	06	100.000	0.5342	07	200.000	0.5192			

Dieldrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.098	02	5.000	0.8378	03	20.000	0.8628	04	50.000	0.9573
05	75.000	0.9385	06	100.000	0.9246	07	200.000	0.9016			

Endosulfan I

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.025	02	5.000	0.7919	03	20.000	0.7758	04	50.000	0.8518
05	75.000	0.8281	06	100.000	0.8132	07	200.000	0.7842			

Endosulfan II

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.8649	02	5.000	0.6474	03	20.000	0.6407	04	50.000	0.7085
05	75.000	0.6942	06	100.000	0.6861	07	200.000	0.6709			

Endosulfan Sulfate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.7783	02	5.000	0.5712	03	20.000	0.5538	04	50.000	0.5944
05	75.000	0.5826	06	100.000	0.5723	07	200.000	0.5642			

Endrin

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.8359	02	5.000	0.6395	03	20.000	0.6488	04	50.000	0.7156
05	75.000	0.714	06	100.000	0.7011	07	200.000	0.6972			

Endrin Aldehyde

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.7109	02	5.000	0.5147	03	20.000	0.4991	04	50.000	0.5336
05	75.000	0.5175	06	100.000	0.5071	07	200.000	0.4936			

Heptachlor

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.251	02	5.000	0.9587	03	20.000	0.9978	04	50.000	1.093
05	75.000	1.066	06	100.000	1.048	07	200.000	1.012			

Heptachlor Epoxide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.18	02	5.000	0.8885	03	20.000	0.8985	04	50.000	0.9791
05	75.000	0.9512	06	100.000	0.9307	07	200.000	0.8932			

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

Analyte

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.391	02	5.000	1.056	03	20.000	1.031	04	50.000	1.108
05	75.000	1.065	06	100.000	1.039	07	200.000	0.9915			

Toxaphene {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	50.000	0.006871	10	100.000	0.006107	11	200.000	0.007962	12	500.000	0.005585
13	1000.000	0.008095	14	2000.000	0.008428						

Toxaphene {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	50.000	0.01635	10	100.000	0.01452	11	200.000	0.01329	12	500.000	0.0135
13	1000.000	0.01378	14	2000.000	0.0135						

Toxaphene {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	50.000	0.03268	10	100.000	0.02962	11	200.000	0.0276	12	500.000	0.02792
13	1000.000	0.02784	14	2000.000	0.02749						

Toxaphene {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	50.000	0.01583	10	100.000	0.01444	11	200.000	0.01325	12	500.000	0.01326
13	1000.000	0.01314	14	2000.000	0.01315						

alpha-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.502	02	5.000	1.177	03	20.000	1.256	04	50.000	1.396
05	75.000	1.371	06	100.000	1.355	07	200.000	1.337			

beta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	20.000	0.5054	04	50.000	0.5076	05	75.000	0.4929	06	100.000	0.4816
07	200.000	0.4619									

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.26	02	5.000	0.9684	03	20.000	1.035	04	50.000	1.141
05	75.000	1.119	06	100.000	1.104	07	200.000	1.091			

gamma-BHC (Lindane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.803	02	5.000	1.28	03	20.000	1.188	04	50.000	1.291
05	75.000	1.256	06	100.000	1.234	07	200.000	1.202			

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4,4'-DDD	TRG	Average RF	% RSD	10.0	≤15	0.6318	
4,4'-DDE	TRG	Average RF	% RSD	9.0	≤15	0.8073	
4,4'-DDT	TRG	Average RF	% RSD	10.2	≤15	0.5972	
Aldrin	TRG	Average RF	% RSD	8.7	≤15	1.166	
Aroclor 1016 {1}	MULTI	Linear	R2	0.9979	≥0.92	0.01245	
Aroclor 1016 {2}	MULTI	Linear	R2	0.9983	≥0.92	0.0163	
Aroclor 1016 {3}	MULTI	Average RF	% RSD	12.2	≤15	0.007094	
Aroclor 1016 {4}	MULTI	Average RF	% RSD	12.8	≤15	0.004518	
Aroclor 1221 {1}	MULTI	Average RF	% RSD		≤15	0.01384	
Aroclor 1221 {2}	MULTI	Average RF	% RSD		≤15	0.008412	
Aroclor 1221 {3}	MULTI	Average RF	% RSD		≤15	0.005345	
Aroclor 1221 {4}	MULTI	Average RF	% RSD		≤15	0.03214	
Aroclor 1232 {1}	MULTI	Average RF	% RSD		≤15	0.008723	
Aroclor 1232 {2}	MULTI	Average RF	% RSD		≤15	0.001707	
Aroclor 1232 {3}	MULTI	Average RF	% RSD		≤15	0.009342	
Aroclor 1232 {4}	MULTI	Average RF	% RSD		≤15	0.02441	
Aroclor 1242 {1}	MULTI	Average RF	% RSD		≤15	0.003788	
Aroclor 1242 {2}	MULTI	Average RF	% RSD		≤15	0.01527	
Aroclor 1242 {3}	MULTI	Average RF	% RSD		≤15	0.006867	
Aroclor 1242 {4}	MULTI	Average RF	% RSD		≤15	0.005003	
Aroclor 1248 {1}	MULTI	Average RF	% RSD		≤15	0.02123	
Aroclor 1248 {2}	MULTI	Average RF	% RSD		≤15	0.01076	
Aroclor 1248 {3}	MULTI	Average RF	% RSD		≤15	0.01687	
Aroclor 1248 {4}	MULTI	Average RF	% RSD		≤15	0.004335	
Aroclor 1254 {1}	MULTI	Average RF	% RSD		≤15	0.004188	
Aroclor 1254 {2}	MULTI	Average RF	% RSD		≤15	0.006381	
Aroclor 1254 {3}	MULTI	Average RF	% RSD		≤15	0.01048	
Aroclor 1254 {4}	MULTI	Average RF	% RSD		≤15	0.008882	
Aroclor 1260 {1}	MULTI	Linear	R2	0.9974	≥0.92	0.03884	
Aroclor 1260 {2}	MULTI	Average RF	% RSD	14.2	≤15	0.01943	
Aroclor 1260 {3}	MULTI	Linear	R2	0.9964	≥0.92	0.01246	
Aroclor 1260 {4}	MULTI	Average RF	% RSD	13.6	≤15	0.007355	
Chlordane {1}	MULTI	Average RF	% RSD	6.8	≤15	0.03063	
Chlordane {2}	MULTI	Average RF	% RSD	3.9	≤15	0.09994	

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Chlordane {3}	MULTI	Average RF	% RSD	2.1	≤15	0.08292	
Decachlorobiphenyl	SURR	Linear	R2	0.9992	≥0.92	0.5985	
Dieldrin	TRG	Average RF	% RSD	9.1	≤15	0.9315	
Endosulfan I	TRG	Average RF	% RSD	10.3	≤15	0.8386	
Endosulfan II	TRG	Average RF	% RSD	10.8	≤15	0.7018	
Endosulfan Sulfate	TRG	Average RF	% RSD	13.1	≤15	0.6024	
Endrin	TRG	Average RF	% RSD	9.1	≤15	0.7074	
Endrin Aldehyde	TRG	Average RF	% RSD	14.2	≤15	0.5395	
Heptachlor	TRG	Average RF	% RSD	9.0	≤15	1.061	
Heptachlor Epoxide	TRG	Average RF	% RSD	10.7	≤15	0.9601	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	12.2	≤15	1.097	
Toxaphene {1}	MULTI	Quadratic	COD	0.9942	≥0.92	0.007174	
Toxaphene {2}	MULTI	Average RF	% RSD	8.2	≤15	0.01416	
Toxaphene {3}	MULTI	Average RF	% RSD	7.0	≤15	0.02886	
Toxaphene {4}	MULTI	Average RF	% RSD	7.9	≤15	0.01384	
alpha-BHC	TRG	Average RF	% RSD	7.7	≤15	1.342	
beta-BHC	TRG	Average RF	% RSD	3.8	≤15	0.4899	
delta-BHC	TRG	Average RF	% RSD	8.2	≤15	1.103	
gamma-BHC (Lindane)	TRG	Linear	R2	0.9991	≥0.92	1.322	

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Verification Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC2300589-08	DWSTD08-85B 75PPB ICV	J:\GC33\DATA\092223A\0922000003.D	09/22/2023 16:42
15	KC2300589-15	DWSTD08-84I 500PPB TOX ICV	J:\GC33\DATA\100223\1002000015.D	10/03/2023 22:13
22	KC2300589-22	DWSTD08-84J CHLOR ICV 200PPB	J:\GC33\DATA\100223\1002000022.D	10/04/2023 01:59
33	KC2300589-33	PCB9-48D 1016 ICV 200PPB	J:\GC33\DATA\100923\1009000038.D	10/10/2023 13:02
34	KC2300589-34	PCB9-48J 1260 ICV 200PPB	J:\GC33\DATA\100923\1009000039.D	10/10/2023 13:35

Analyte Name	Expected	Result	Average RF	SSV RF	Rec.	Criteria	Curve Fit
Aldrin	75.0	72.5	1.024E0	9.908E-1	96.7	75-125	Average RF
Aroclor 1016	200	223			112	75-125	NA
Aroclor 1260	200	194			97.0	75-125	NA
alpha-BHC	75.0	70.9	1.11E0	1.187E0	94.5	69-125	Linear
beta-BHC	75.0	69.5	3.228E-1	3.173E-1	92.7	75-125	Linear
delta-BHC	75.0	70.7	9.763E-1	1.044E0	94.3	75-125	Linear
gamma-BHC (Lindane)	75.0	68.3	1.042E0	1.055E0	91.1	75-125	Linear
Chlordane	200	199			99.5	75-125	NA
4,4'-DDD	75.0	80.8	4.7E-1	5.065E-1	108	75-125	Average RF
4,4'-DDE	75.0	79.1	6.598E-1	6.958E-1	105	75-125	Average RF
4,4'-DDT	75.0	72.7	4.57E-1	4.432E-1	96.9	75-125	Average RF
Dieldrin	75.0	74.0	7.693E-1	7.593E-1	98.7	48-125	Average RF
Endosulfan I	75.0	78.7	7.149E-1	7.503E-1	105	75-125	Average RF
Endosulfan II	75.0	74.7	6.131E-1	6.103E-1	99.6	75-125	Average RF
Endosulfan Sulfate	75.0	72.8	5.346E-1	5.189E-1	97.1	70-125	Average RF
Endrin	75.0	79.6	6.07E-1	6.439E-1	106	5-125	Average RF
Endrin Aldehyde	75.0	69.9	4.647E-1	4.33E-1	93.2	75-125	Average RF
Heptachlor	75.0	69.5	8.47E-1	8.822E-1	92.7	75-125	Linear
Heptachlor Epoxide	75.0	74.9	8.31E-1	8.304E-1	99.9	75-125	Average RF
Toxaphene	500	420			84.0	68-134	NA

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aroclor 1016 {1}	200	231	4.485E-3	5.013E-3	15.31	±100	Linear
Aroclor 1016 {2}	200	209	1.322E-2	1.241E-2	4.64	±100	Linear
Aroclor 1016 {3}	200	231	1.789E-2	2.063E-2	15.33	±100	Average RF
Aroclor 1016 {4}	200	221	1.236E-2	1.365E-2	10.41	±100	Average RF

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Verification Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP
Instrument ID: K-GC-33

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aroclor 1260 {1}	200	182	1.828E-2	1.482E-2	-9.078	±100	Linear
Aroclor 1260 {2}	200	172	8.658E-3	7.463E-3	-13.804	±100	Average RF
Aroclor 1260 {3}	200	205	5.001E-3	5.13E-3	2.59	±100	Average RF
Aroclor 1260 {4}	200	215	4.781E-3	4.636E-3	7.58	±100	Linear
Chlordane {1}	200	206	2.944E-2	3.036E-2	3.13	±100	Average RF
Chlordane {2}	200	166	1.073E-1	8.887E-2	-17.149	±100	Average RF
Chlordane {3}	200	226	2.22E-2	2.51E-2	13.07	±100	Average RF
Toxaphene {1}	500	443	1.737E-2	1.539E-2	-11.350	±100	Average RF
Toxaphene {2}	500	398	1.257E-2	1.0E-2	-20.452	±100	Average RF
Toxaphene {3}	500	432	1.244E-2	1.076E-2	-13.511	±100	Average RF
Toxaphene {4}	500	409	1.028E-2	8.403E-3	-18.295	±100	Average RF

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Verification Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC2300589-08	DWSTD08-85B 75PPB ICV	J:\GC33\DATA\092223A\0922000003.D	09/22/2023 16:42
15	KC2300589-15	DWSTD08-84I 500PPB TOX ICV	J:\GC33\DATA\100223\1002000015.D	10/03/2023 22:13
22	KC2300589-22	DWSTD08-84J CHLOR ICV 200PPB	J:\GC33\DATA\100223\1002000022.D	10/04/2023 01:59
33	KC2300589-33	PCB9-48D 1016 ICV 200PPB	J:\GC33\DATA\100923\1009000038.D	10/10/2023 13:02
34	KC2300589-34	PCB9-48J 1260 ICV 200PPB	J:\GC33\DATA\100923\1009000039.D	10/10/2023 13:35

Analyte Name	Expected	Result	Average RF	SSV RF	Rec.	Criteria	Curve Fit
Aldrin	75.0	70.4	1.166E0	1.094E0	93.9	75-125	Average RF
Aroclor 1016	200	224			112	75-125	NA
Aroclor 1260	200	214			107	75-125	NA
alpha-BHC	75.0	76.5	1.342E0	1.369E0	102	69-125	Average RF
beta-BHC	75.0	75.3	4.899E-1	4.916E-1	100	75-125	Average RF
delta-BHC	75.0	75.6	1.103E0	1.111E0	101	75-125	Average RF
gamma-BHC (Lindane)	75.0	73.7	1.322E0	1.208E0	98.3	75-125	Linear
Chlordane	200	195			97.5	75-125	NA
4,4'-DDD	75.0	71.1	6.318E-1	5.987E-1	94.8	75-125	Average RF
4,4'-DDE	75.0	72.3	8.073E-1	7.781E-1	96.4	75-125	Average RF
4,4'-DDT	75.0	64.8	5.972E-1	5.16E-1	86.4	75-125	Average RF
Dieldrin	75.0	67.4	9.315E-1	8.373E-1	89.9	48-125	Average RF
Endosulfan I	75.0	71.5	8.386E-1	7.994E-1	95.3	75-125	Average RF
Endosulfan II	75.0	68.0	7.018E-1	6.363E-1	90.7	75-125	Average RF
Endosulfan Sulfate	75.0	64.7	6.024E-1	5.197E-1	86.3	70-125	Average RF
Endrin	75.0	71.5	7.074E-1	6.745E-1	95.3	5-125	Average RF
Endrin Aldehyde	75.0	63.3	5.395E-1	4.554E-1	84.4	75-125	Average RF
Heptachlor	75.0	74.9	1.061E0	1.059E0	99.9	75-125	Average RF
Heptachlor Epoxide	75.0	71.5	9.601E-1	9.158E-1	95.3	75-125	Average RF
Toxaphene	500	392			78.4	68-134	NA

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aroclor 1016 {1}	200	223	1.245E-2	1.247E-2	11.75	±100	Linear
Aroclor 1016 {2}	200	241	1.63E-2	1.766E-2	20.31	±100	Linear
Aroclor 1016 {3}	200	229	7.094E-3	8.113E-3	14.36	±100	Average RF
Aroclor 1016 {4}	200	202	4.518E-3	4.567E-3	1.08	±100	Average RF

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/21/2023

Initial Calibration Verification Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Calibration ID: KC2300589 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-33

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aroclor 1260 {1}	200	218	3.884E-2	3.714E-2	9.16	±100	Linear
Aroclor 1260 {2}	200	195	1.943E-2	1.89E-2	-2.692	±100	Average RF
Aroclor 1260 {3}	200	252	1.246E-2	1.37E-2	26.03	±100	Linear
Aroclor 1260 {4}	200	193	7.355E-3	7.089E-3	-3.616	±100	Average RF
Chlordane {1}	200	211	3.063E-2	3.233E-2	5.57	±100	Average RF
Chlordane {2}	200	175	9.994E-2	8.742E-2	-12.523	±100	Average RF
Chlordane {3}	200	198	8.292E-2	8.201E-2	-1.094	±100	Average RF
Toxaphene {1}	500	343	7.174E-3	4.658E-3	-31.314	±100	Quadratic
Toxaphene {2}	500	420	1.416E-2	1.19E-2	-15.920	±100	Average RF
Toxaphene {3}	500	373	2.886E-2	2.153E-2	-25.381	±100	Average RF
Toxaphene {4}	500	430	1.384E-2	1.19E-2	-14.057	±100	Average RF

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/01/23 13:42

Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608.3	**Calibration Date:**	9/21/2023
File ID:	J:\GC33\DATA\110123\1101F004.D\	**Calibration ID:**	KC2300589
Signal ID:	RTX-CLP2	**Analysis Lot:**	821707
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Aldrin	75.0	80.7	1.1658	1.2538	108	NA	75-125	Average RF
Aroclor 1016	200	299	NA	NA	150*	NA	75-125	
Aroclor 1260	200	261	NA	NA	131*	NA	75-125	
alpha-BHC	75.0	87.0	1.342	1.5562	116	NA	69-125	Average RF
beta-BHC	75.0	87.8	0.4899	0.5735	117	NA	75-125	Average RF
delta-BHC	75.0	83.5	1.1027	1.227	111	NA	75-125	Average RF
gamma-BHC (Lindane)	75.0	89.0	1.3219	1.4552	119	18.6	75-125	Linear
Chlordane	200	203	NA	NA	102	NA	75-125	
4,4'-DDD	75.0	88.1	0.6318	0.7425	118	NA	75-125	Average RF
4,4'-DDE	75.0	90.1	0.8073	0.9702	120	NA	75-125	Average RF
4,4'-DDT	75.0	74.0	0.5972	0.5891	98.6	NA	75-125	Average RF
Dieldrin	75.0	83.7	0.9315	1.0392	112	NA	48-125	Average RF
Endosulfan I	75.0	82.7	0.8386	0.9247	110	NA	75-125	Average RF
Endosulfan II	75.0	86.2	0.7018	0.8066	115	NA	75-125	Average RF
Endosulfan Sulfate	75.0	72.4	0.6024	0.5815	96.5	NA	70-125	Average RF
Endrin	75.0	97.6	0.7074	0.921	130*	NA	5-125	Average RF
Endrin Aldehyde	75.0	80.4	0.5395	0.5787	107	NA	75-125	Average RF
Heptachlor	75.0	74.3	1.061	1.0514	99.1	NA	75-125	Average RF
Heptachlor Epoxide	75.0	82.2	0.9601	1.0524	110	NA	75-125	Average RF
Toxaphene	500	537	NA	NA	107	NA	68-134	

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	75.0	87.2	0.5985	0.6219	116	16.3	75-125	Linear

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/01/23 13:42

Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608.3	**Calibration Date:**	9/21/2023
File ID:	J:\GC33\DATA\110123\1101F004.D\	**Calibration ID:**	KC2300589
Signal ID:	RTX-CLP	**Analysis Lot:**	821707
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Aldrin	75.0	82.1	1.0245	1.1208	109	NA	75-125	Average RF
Aroclor 1016	200	248	NA	NA	124	NA	75-125	
Aroclor 1260	200	199	NA	NA	99.3	NA	75-125	
alpha-BHC	75.0	83.5	1.1096	1.4012	111	11.3	69-125	Linear
beta-BHC	75.0	88.4	0.3228	0.4172	118	17.8	75-125	Linear
delta-BHC	75.0	83.1	0.9763	1.2299	111	10.8	75-125	Linear
gamma-BHC (Lindane)	75.0	83.2	1.042	1.2886	111	10.9	75-125	Linear
Chlordane	200	168	NA	NA	84.0	NA	75-125	
4,4'-DDD	75.0	85.1	0.47	0.5333	113	NA	75-125	Average RF
4,4'-DDE	75.0	87.0	0.6598	0.7655	116	NA	75-125	Average RF
4,4'-DDT	75.0	87.3	0.457	0.5319	116	NA	75-125	Average RF
Dieldrin	75.0	82.7	0.7693	0.8478	110	NA	48-125	Average RF
Endosulfan I	75.0	80.9	0.7149	0.7713	108	NA	75-125	Average RF
Endosulfan II	75.0	80.0	0.6131	0.6541	107	NA	75-125	Average RF
Endosulfan Sulfate	75.0	69.8	0.5346	0.4974	93.0	NA	70-125	Average RF
Endrin	75.0	92.5	0.607	0.7488	123	NA	5-125	Average RF
Endrin Aldehyde	75.0	72.7	0.4647	0.4504	96.9	NA	75-125	Average RF
Heptachlor	75.0	91.6	0.847	1.1668	122	22.2	75-125	Linear
Heptachlor Epoxide	75.0	80.4	0.831	0.8907	107	NA	75-125	Average RF
Toxaphene	500	422	NA	NA	84.3	NA	68-134	

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	75.0	70.3	0.6315	0.5921	93.8	NA	75-125	Average RF

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/02/23 19:53

Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608.3	**Calibration Date:**	9/21/2023
File ID:	J:\GC33\DATA\110223\1102F007.D\	**Calibration ID:**	KC2300589
Signal ID:	RTX-CLP	**Analysis Lot:**	821752
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Aldrin	75.0	91.7	1.0245	1.2531	122	NA	75-125	Average RF
Aroclor 1016	200	404	NA	NA	202*	NA	75-125	
Aroclor 1260	200	173	NA	NA	86.5	NA	75-125	
alpha-BHC	75.0	94.4	1.1096	1.5871	126*	25.9	69-125	Linear
beta-BHC	75.0	121	0.3228	0.5919	162*	61.8	75-125	Linear
delta-BHC	75.0	91.7	0.9763	1.3582	122	22.2	75-125	Linear
gamma-BHC (Lindane)	75.0	93.2	1.042	1.446	124	24.3	75-125	Linear
Chlordane	200	172	NA	NA	86.2	NA	75-125	
4,4'-DDD	75.0	89.1	0.47	0.5582	119	NA	75-125	Average RF
4,4'-DDE	75.0	87.1	0.6598	0.7659	116	NA	75-125	Average RF
4,4'-DDT	75.0	95.0	0.457	0.5791	127*	NA	75-125	Average RF
Dieldrin	75.0	88.7	0.7693	0.9099	118	NA	48-125	Average RF
Endosulfan I	75.0	91.1	0.7149	0.8688	122	NA	75-125	Average RF
Endosulfan II	75.0	82.8	0.6131	0.6765	110	NA	75-125	Average RF
Endosulfan Sulfate	75.0	74.7	0.5346	0.5328	99.7	NA	70-125	Average RF
Endrin	75.0	98.8	0.607	0.7994	132*	NA	5-125	Average RF
Endrin Aldehyde	75.0	77.0	0.4647	0.4774	103	NA	75-125	Average RF
Heptachlor	75.0	103	0.847	1.3188	138*	37.9	75-125	Linear
Heptachlor Epoxide	75.0	87.8	0.831	0.9728	117	NA	75-125	Average RF
Toxaphene	500	388	NA	NA	77.6	NA	68-134	

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	75.0	73.1	0.6315	0.6155	97.5	NA	75-125	Average RF

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/02/23 19:53

Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608.3	**Calibration Date:**	9/21/2023
File ID:	J:\GC33\DATA\110223\1102F007.D\	**Calibration ID:**	KC2300589
Signal ID:	RTX-CLP2	**Analysis Lot:**	821752
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Aldrin	75.0	97.4	1.1658	1.5142	130*	NA	75-125	Average RF
Aroclor 1016	200	375	NA	NA	187*	NA	75-125	
Aroclor 1260	200	185	NA	NA	92.3	NA	75-125	
alpha-BHC	75.0	108	1.342	1.9367	144*	NA	69-125	Average RF
beta-BHC	75.0	121	0.4899	0.7919	162*	NA	75-125	Average RF
delta-BHC	75.0	101	1.1027	1.48	134*	NA	75-125	Average RF
gamma-BHC (Lindane)	75.0	119	1.3219	1.9488	159*	59.2	75-125	Linear
Chlordane	200	109	NA	NA	54.7*	NA	75-125	
4,4'-DDD	75.0	109	0.6318	0.9195	146*	NA	75-125	Average RF
4,4'-DDE	75.0	109	0.8073	1.1723	145*	NA	75-125	Average RF
4,4'-DDT	75.0	98.5	0.5972	0.7845	131*	NA	75-125	Average RF
Dieldrin	75.0	103	0.9315	1.2753	137*	NA	48-125	Average RF
Endosulfan I	75.0	102	0.8386	1.1397	136*	NA	75-125	Average RF
Endosulfan II	75.0	110	0.7018	1.026	146*	NA	75-125	Average RF
Endosulfan Sulfate	75.0	96.9	0.6024	0.7784	129*	NA	70-125	Average RF
Endrin	75.0	121	0.7074	1.1373	161*	NA	5-125	Average RF
Endrin Aldehyde	75.0	103	0.5395	0.7411	137*	NA	75-125	Average RF
Heptachlor	75.0	100	1.061	1.4146	133*	NA	75-125	Average RF
Heptachlor Epoxide	75.0	101	0.9601	1.2897	134*	NA	75-125	Average RF
Toxaphene	500	616	NA	NA	123	NA	68-134	

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	75.0	117	0.5985	0.8285	155*	55.4	75-125	Linear

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/07/23 10:41

Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608.3	**Calibration Date:**	9/21/2023
File ID:	J:\GC33\DATA\110723\1107F004.D\	**Calibration ID:**	KC2300589
Signal ID:	RTX-CLP	**Analysis Lot:**	823308
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Aldrin	75.0	79.1	1.0245	1.0804	105	NA	75-125	Average RF
Aroclor 1016	200	191	NA	NA	95.3	NA	75-125	
Aroclor 1260	200	183	NA	NA	91.4	NA	75-125	
alpha-BHC	75.0	82.5	1.1096	1.3847	110	10.0	69-125	Linear
beta-BHC	75.0	95.8	0.3228	0.4565	128*	27.7	75-125	Linear
delta-BHC	75.0	81.3	0.9763	1.2034	108	8.4	75-125	Linear
gamma-BHC (Lindane)	75.0	81.7	1.042	1.2648	109	8.9	75-125	Linear
Chlordane	200	158	NA	NA	79.0	NA	75-125	
4,4'-DDD	75.0	79.5	0.47	0.4984	106	NA	75-125	Average RF
4,4'-DDE	75.0	84.3	0.6598	0.7414	112	NA	75-125	Average RF
4,4'-DDT	75.0	79.2	0.457	0.4826	106	NA	75-125	Average RF
Dieldrin	75.0	78.7	0.7693	0.8074	105	NA	48-125	Average RF
Endosulfan I	75.0	78.4	0.7149	0.7477	105	NA	75-125	Average RF
Endosulfan II	75.0	70.8	0.6131	0.5787	94.4	NA	75-125	Average RF
Endosulfan Sulfate	75.0	59.3	0.5346	0.4226	79.0	NA	70-125	Average RF
Endrin	75.0	86.3	0.607	0.6988	115	NA	5-125	Average RF
Endrin Aldehyde	75.0	62.5	0.4647	0.387	83.3	NA	75-125	Average RF
Heptachlor	75.0	89.4	0.847	1.1382	119	19.2	75-125	Linear
Heptachlor Epoxide	75.0	79.4	0.831	0.8794	106	NA	75-125	Average RF
Toxaphene	500	382	NA	NA	76.5	NA	68-134	

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	75.0	57.8	0.6315	0.4868	77.1	NA	75-125	Average RF

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	11/07/23 10:41

Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608.3	**Calibration Date:**	9/21/2023
File ID:	J:\GC33\DATA\110723\1107F004.D\	**Calibration ID:**	KC2300589
Signal ID:	RTX-CLP2	**Analysis Lot:**	823308
		Units:	ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Aldrin	75.0	89.4	1.1658	1.3903	119	NA	75-125	Average RF
Aroclor 1016	200	334	NA	NA	167*	NA	75-125	
Aroclor 1260	200	292	NA	NA	146*	NA	75-125	
alpha-BHC	75.0	99.6	1.342	1.7817	133*	NA	69-125	Average RF
beta-BHC	75.0	105	0.4899	0.6836	140*	NA	75-125	Average RF
delta-BHC	75.0	97.0	1.1027	1.4262	129*	NA	75-125	Average RF
gamma-BHC (Lindane)	75.0	101	1.3219	1.6546	135*	35.0	75-125	Linear
Chlordane	200	226	NA	NA	113	NA	75-125	
4,4'-DDD	75.0	101	0.6318	0.8472	134*	NA	75-125	Average RF
4,4'-DDE	75.0	102	0.8073	1.0983	136*	NA	75-125	Average RF
4,4'-DDT	75.0	83.8	0.5972	0.6673	112	NA	75-125	Average RF
Dieldrin	75.0	93.8	0.9315	1.1646	125*	NA	48-125	Average RF
Endosulfan I	75.0	93.8	0.8386	1.0486	125*	NA	75-125	Average RF
Endosulfan II	75.0	96.8	0.7018	0.9059	129*	NA	75-125	Average RF
Endosulfan Sulfate	75.0	84.8	0.6024	0.6807	113	NA	70-125	Average RF
Endrin	75.0	108	0.7074	1.0194	144*	NA	5-125	Average RF
Endrin Aldehyde	75.0	92.4	0.5395	0.665	123	NA	75-125	Average RF
Heptachlor	75.0	87.8	1.061	1.2419	117	NA	75-125	Average RF
Heptachlor Epoxide	75.0	91.9	0.9601	1.1769	123	NA	75-125	Average RF
Toxaphene	500	519	NA	NA	104	NA	68-134	

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	75.0	97.6	0.5985	0.6951	130*	30.1	75-125	Linear

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Analysis Run Log
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608.3 **Analysis Lot:**821707
Instrument ID:K-GC-33

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC33\DATA\110123\1101F003.D\	Performance Evaluation	KQ2318924-01	11/1/2023	13:10:00	
J:\GC33\DATA\110123\1101F004.D\	Continuing Calibration Verification	KQ2318924-02	11/1/2023	13:42:00	
J:\GC33\DATA\110123\1101F005.D\	Continuing Calibration Verification	KQ2318924-02	11/1/2023	14:15:00	
J:\GC33\DATA\110123\1101F006.D\	Continuing Calibration Verification	KQ2318924-02	11/1/2023	14:47:00	
J:\GC33\DATA\110123\1101F007.D\	Continuing Calibration Verification	KQ2318924-02	11/1/2023	15:19:00	
J:\GC33\DATA\110123\1101F008.D\	Continuing Calibration Blank	KQ2318924-03	11/1/2023	15:51:00	
J:\GC33\DATA\110123\1101F009.D\	ZZZZZZZ	ZZZZZZZ	11/1/2023	16:23:00	
J:\GC33\DATA\110123\1101F010.D\	ZZZZZZZ	ZZZZZZZ	11/1/2023	16:55:00	
J:\GC33\DATA\110123\1101F011.D\	ZZZZZZZ	ZZZZZZZ	11/1/2023	17:27:00	
J:\GC33\DATA\110123\1101F012.D\	ZZZZZZZ	ZZZZZZZ	11/1/2023	17:59:00	
J:\GC33\DATA\110123\1101F013.D\	ZZZZZZZ	ZZZZZZZ	11/1/2023	18:31:00	
J:\GC33\DATA\110123\1101F014.D\	ZZZZZZZ	ZZZZZZZ	11/1/2023	19:03:00	
J:\GC33\DATA\110123\1101F015.D\	ZZZZZZZ	ZZZZZZZ	11/1/2023	19:35:00	
J:\GC33\DATA\110123\1101F016.D\	ZZZZZZZ	ZZZZZZZ	11/1/2023	20:07:00	
J:\GC33\DATA\110123\1101F017.D\	ZZZZZZZ	ZZZZZZZ	11/1/2023	20:40:00	
J:\GC33\DATA\110123\1101F018.D\	002 Composite	K2310979-003	11/1/2023	21:12:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Analysis Run Log
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608.3 **Analysis Lot:**821752
Instrument ID:K-GC-33

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC33\DATA\110223\1102F006.D\	Performance Evaluation	KQ2318956-01	11/2/2023	19:28:00	
J:\GC33\DATA\110223\1102F007.D\	Continuing Calibration Verification	KQ2318956-02	11/2/2023	19:53:00	
J:\GC33\DATA\110223\1102F008.D\	Continuing Calibration Verification	KQ2318956-02	11/2/2023	20:17:00	
J:\GC33\DATA\110223\1102F009.D\	Continuing Calibration Verification	KQ2318956-02	11/2/2023	20:42:00	
J:\GC33\DATA\110223\1102F010.D\	Continuing Calibration Verification	KQ2318956-02	11/2/2023	21:06:00	
J:\GC33\DATA\110223\1102F011.D\	Continuing Calibration Blank	KQ2318956-04	11/2/2023	21:31:00	
J:\GC33\DATA\110223\1102F021.D\	Method Blank	KQ2317362-01	11/3/2023	01:36:00	
J:\GC33\DATA\110223\1102F022.D\	Lab Control Sample	KQ2317362-02	11/3/2023	02:01:00	
J:\GC33\DATA\110223\1102F023.D\	Duplicate Lab Control Sample	KQ2317362-03	11/3/2023	02:25:00	
J:\GC33\DATA\110223\1102F024.D\	Lab Control Sample	KQ2317362-04	11/3/2023	02:50:00	

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Analysis Run Log
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608.3 **Analysis Lot:**823308
Instrument ID:K-GC-33

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC33\DATA\110723\1107F003.D\	Performance Evaluation	KQ2319839-02	11/7/2023	10:16:00	
J:\GC33\DATA\110723\1107F004.D\	Continuing Calibration Verification	KQ2319839-01	11/7/2023	10:41:00	
J:\GC33\DATA\110723\1107F005.D\	Continuing Calibration Verification	KQ2319839-01	11/7/2023	11:06:00	
J:\GC33\DATA\110723\1107F006.D\	Continuing Calibration Verification	KQ2319839-01	11/7/2023	11:31:00	
J:\GC33\DATA\110723\1107F007.D\	Continuing Calibration Verification	KQ2319839-01	11/7/2023	11:55:00	
J:\GC33\DATA\110723\1107F008.D\	Continuing Calibration Blank	KQ2319839-03	11/7/2023	12:20:00	
J:\GC33\DATA\110723\1107F009.D\	Duplicate Lab Control Sample	KQ2317362-05	11/7/2023	12:44:00	

Prep Summary Report

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual
Sample Matrix: Wastewater

Organochlorine Pesticides and Polychlorinated Biphenyls

Prep Method: EPA 3520C **Extraction Lot:** 427536
Analytical Method: 608.3 **Extraction Date:** 10/03/23 15:38

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
002 Composite	K2310979-003	9/27/23	9/28/23	980.0000 mL	2 mL	
Method Blank	KQ2317362-01MB	NA	NA	1040.0000	2 mL	
Lab Control Sample	KQ2317362-02LCS	NA	NA	1000 mL	2 mL	
Duplicate Lab Control Sample	KQ2317362-03DLCS	NA	NA	1000 mL	2 mL	
Lab Control Sample	KQ2317362-04LCS	NA	NA	1000 mL	2 mL	
Duplicate Lab Control Sample	KQ2317362-05DLCS	NA	NA	1000 mL	2 mL	

Volatile Organic Compounds by GC/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23 16:05
Sample Matrix:	Wastewater	**Date Received:**	09/28/23 12:00
Sample Name:	002 Grab	**Units:**	ug/L
Lab Code:	K2310979-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624.1
Prep Method: None

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	0.070	1	10/02/23 19:07	
1,1,2,2-Tetrachloroethane	ND U	5.0	0.080	1	10/02/23 19:07	
1,1,2-Trichloroethane	ND U	5.0	0.060	1	10/02/23 19:07	
1,1-Dichloroethane	ND U	5.0	0.070	1	10/02/23 19:07	
1,1-Dichloroethene	ND U	5.0	0.080	1	10/02/23 19:07	
1,2-Dichlorobenzene	ND U	5.0	0.060	1	10/02/23 19:07	
1,2-Dichloroethane (EDC)	ND U	5.0	0.060	1	10/02/23 19:07	
1,2-Dichloropropane	ND U	5.0	0.070	1	10/02/23 19:07	
1,3-Dichlorobenzene	ND U	5.0	0.060	1	10/02/23 19:07	
1,4-Dichlorobenzene	ND U	5.0	0.090	1	10/02/23 19:07	
2-Chloroethyl Vinyl Ether	ND U	10	0.20	1	10/02/23 19:07	
Acrolein	ND U	50	2.0	1	10/02/23 19:07	
Acrylonitrile	ND U	100	0.20	1	10/02/23 19:07	
Benzene	ND U	5.0	0.060	1	10/02/23 19:07	
Bromoform	ND U	5.0	0.40	1	10/02/23 19:07	
Bromomethane	ND U	5.0	0.090	1	10/02/23 19:07	
Carbon Tetrachloride	ND U	5.0	0.20	1	10/02/23 19:07	
Chlorobenzene	ND U	5.0	0.050	1	10/02/23 19:07	
Chloroethane	ND U	5.0	0.10	1	10/02/23 19:07	
Chloroform	ND U	5.0	0.070	1	10/02/23 19:07	
Chloromethane	ND U	5.0	0.060	1	10/02/23 19:07	
Dibromochloromethane	ND U	5.0	0.20	1	10/02/23 19:07	
Bromodichloromethane	ND U	5.0	0.20	1	10/02/23 19:07	
Dichlorodifluoromethane (CFC 12)	ND U	5.0	0.10	1	10/02/23 19:07	
Methylene Chloride	ND U	5.0	0.30	1	10/02/23 19:07	
Ethylbenzene	ND U	5.0	0.030	1	10/02/23 19:07	
Tetrachloroethene (PCE)	ND U	5.0	0.050	1	10/02/23 19:07	
Toluene	ND U	5.0	0.070	1	10/02/23 19:07	
Trichloroethene (TCE)	ND U	5.0	0.080	1	10/02/23 19:07	
Trichlorofluoromethane	ND U	5.0	0.070	1	10/02/23 19:07	
Vinyl Chloride	ND U	5.0	0.090	1	10/02/23 19:07	
cis-1,3-Dichloropropene	ND U	5.0	0.090	1	10/02/23 19:07	
trans-1,2-Dichloroethene	ND U	5.0	0.070	1	10/02/23 19:07	
trans-1,3-Dichloropropene	ND U	5.0	0.090	1	10/02/23 19:07	

Analytical Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23 16:05
Sample Matrix:	Wastewater	**Date Received:**	09/28/23 12:00
Sample Name:	002 Grab	**Units:**	ug/L
Lab Code:	K2310979-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624.1
Prep Method: None

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	68 - 120	10/02/23 19:07	
Dibromofluoromethane	98	76 - 132	10/02/23 19:07	
Toluene-d8	98	80 - 120	10/02/23 19:07	

ALS Group USA, Corp.
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Analytical Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
Sample Matrix:	Wastewater	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KQ2317367-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624.1
Prep Method: None

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	0.070	1	10/02/23 14:39	
1,1,2,2-Tetrachloroethane	ND U	5.0	0.080	1	10/02/23 14:39	
1,1,2-Trichloroethane	ND U	5.0	0.060	1	10/02/23 14:39	
1,1-Dichloroethane	ND U	5.0	0.070	1	10/02/23 14:39	
1,1-Dichloroethene	ND U	5.0	0.080	1	10/02/23 14:39	
1,2-Dichlorobenzene	ND U	5.0	0.060	1	10/02/23 14:39	
1,2-Dichloroethane (EDC)	ND U	5.0	0.060	1	10/02/23 14:39	
1,2-Dichloropropane	ND U	5.0	0.070	1	10/02/23 14:39	
1,3-Dichlorobenzene	ND U	5.0	0.060	1	10/02/23 14:39	
1,4-Dichlorobenzene	ND U	5.0	0.090	1	10/02/23 14:39	
2-Chloroethyl Vinyl Ether	ND U	10	0.20	1	10/02/23 14:39	
Acrolein	ND U	50	2.0	1	10/02/23 14:39	
Acrylonitrile	ND U	100	0.20	1	10/02/23 14:39	
Benzene	ND U	5.0	0.060	1	10/02/23 14:39	
Bromoform	ND U	5.0	0.40	1	10/02/23 14:39	
Bromomethane	ND U	5.0	0.090	1	10/02/23 14:39	
Carbon Tetrachloride	ND U	5.0	0.20	1	10/02/23 14:39	
Chlorobenzene	ND U	5.0	0.050	1	10/02/23 14:39	
Chloroethane	ND U	5.0	0.10	1	10/02/23 14:39	
Chloroform	ND U	5.0	0.070	1	10/02/23 14:39	
Chloromethane	ND U	5.0	0.060	1	10/02/23 14:39	
Dibromochloromethane	ND U	5.0	0.20	1	10/02/23 14:39	
Bromodichloromethane	ND U	5.0	0.20	1	10/02/23 14:39	
Dichlorodifluoromethane (CFC 12)	ND U	5.0	0.10	1	10/02/23 14:39	
Methylene Chloride	ND U	5.0	0.30	1	10/02/23 14:39	
Ethylbenzene	ND U	5.0	0.030	1	10/02/23 14:39	
Tetrachloroethene (PCE)	ND U	5.0	0.050	1	10/02/23 14:39	
Toluene	ND U	5.0	0.070	1	10/02/23 14:39	
Trichloroethene (TCE)	ND U	5.0	0.080	1	10/02/23 14:39	
Trichlorofluoromethane	ND U	5.0	0.070	1	10/02/23 14:39	
Vinyl Chloride	ND U	5.0	0.090	1	10/02/23 14:39	
cis-1,3-Dichloropropene	ND U	5.0	0.090	1	10/02/23 14:39	
trans-1,2-Dichloroethene	ND U	5.0	0.070	1	10/02/23 14:39	
trans-1,3-Dichloropropene	ND U	5.0	0.090	1	10/02/23 14:39	

Analytical Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
Sample Matrix:	Wastewater	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KQ2317367-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624.1
Prep Method: None

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	68 - 120	10/02/23 14:39	
Dibromofluoromethane	98	76 - 132	10/02/23 14:39	
Toluene-d8	99	80 - 120	10/02/23 14:39	

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979

Project: 2023 NPDES Annual-Biannual

Sample Matrix: Wastewater

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 624.1

Extraction Method: None

Sample Name	Lab Code	4-Bromofluorobenzene 68 - 120	Dibromofluoromethane 76 - 132	Toluene-d8 80 - 120
002 Grab	K2310979-002	93	98	98
Lab Control Sample	KQ2317367-02	102	103	102
Duplicate Lab Control Sample	KQ2317367-03	103	105	103
Method Blank	KQ2317367-04	94	98	99

ALS Group USA, Corp.
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QA/QC Report

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/02/23
Sample Matrix:	Wastewater	**Date Extracted:**	NA

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	624.1	**Units:**	ug/L
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	819142

	Lab Control Sample KQ2317367-02			Duplicate Lab Control Sample KQ2317367-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	9.46	10.0	95	9.25	10.0	93	70-130	2	21
1,1,2,2-Tetrachloroethane	8.81	10.0	88	8.98	10.0	90	60-140	2	36
1,1,2-Trichloroethane	9.14	10.0	91	9.29	10.0	93	70-130	2	27
1,1-Dichloroethane	9.29	10.0	93	9.16	10.0	92	70-130	1	24
1,1-Dichloroethene	8.45	10.0	85	8.38	10.0	84	50-150	<1	40
1,2-Dichlorobenzene	8.92	10.0	89	8.84	10.0	88	65-135	<1	31
1,2-Dichloroethane (EDC)	9.21	10.0	92	9.26	10.0	93	70-130	<1	29
1,2-Dichloropropane	9.14	10.0	91	9.03	10.0	90	35-165	1	69
1,3-Dichlorobenzene	9.05	10.0	91	8.93	10.0	89	70-130	1	24
1,4-Dichlorobenzene	8.83	10.0	88	8.73	10.0	87	65-135	1	31
2-Chloroethyl Vinyl Ether	10.2	10.0	102	10.4	10.0	104	5-225	2	130
Acrolein	133	100	133	133	100	133	60-140	<1	30
Acrylonitrile	36.8 J	40.0	92	38.2 J	40.0	95	60-140	4	30
Benzene	9.37	10.0	94	9.27	10.0	93	65-135	1	33
Bromodichloromethane	9.53	10.0	95	9.47	10.0	95	65-135	<1	34
Bromoform	9.25	10.0	93	9.32	10.0	93	70-130	<1	25
Bromomethane	5.96	10.0	60	6.66	10.0	67	15-185	11	90
Carbon Tetrachloride	9.47	10.0	95	9.45	10.0	95	70-130	<1	26
Chlorobenzene	9.43	10.0	94	9.50	10.0	95	65-135	<1	29
Chloroethane	8.96	10.0	90	8.44	10.0	84	40-160	6	47
Chloroform	9.98	10.0	100	9.87	10.0	99	70-135	1	32
Chloromethane	7.60	10.0	76	7.57	10.0	76	5-205	<1	472
cis-1,3-Dichloropropene	8.17	10.0	82	8.25	10.0	83	25-175	<1	79
Dibromochloromethane	8.42	10.0	84	8.52	10.0	85	70-135	1	30
Dichlorodifluoromethane (CFC 12)	6.45	10.0	65	6.39	10.0	64	32-158	<1	30
Ethylbenzene	9.43	10.0	94	9.63	10.0	96	60-140	2	34
Methylene Chloride	8.59	10.0	86	8.57	10.0	86	60-140	<1	192
Tetrachloroethene (PCE)	9.21	10.0	92	9.18	10.0	92	70-130	<1	23
Toluene	9.33	10.0	93	9.24	10.0	92	70-130	<1	22
trans-1,2-Dichloroethene	9.31	10.0	93	9.04	10.0	90	70-130	3	27
trans-1,3-Dichloropropene	7.94	10.0	79	8.12	10.0	81	50-150	2	52
Trichloroethene (TCE)	9.22	10.0	92	9.14	10.0	91	65-135	<1	29
Trichlorofluoromethane	9.02	10.0	90	8.87	10.0	89	50-150	2	50
Vinyl Chloride	8.37	10.0	84	8.30	10.0	83	5-195	<1	100

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/02/23 14:39
Sample Matrix:	Wastewater	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	K-MS-23
Lab Code:	KQ2317367-04	**File ID:**	J:\MS23\DATA\100223\1002F011.D\
Analysis Method:	624.1	**Analysis Lot:**	819142
Prep Method:	None		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2317367-02	J:\MS23\DATA\100223\1002F004.D\	10/02/23 11:46
Duplicate Lab Control Sample	KQ2317367-03	J:\MS23\DATA\100223\1002F005.D\	10/02/23 12:11
002 Grab	K2310979-002	J:\MS23\DATA\100223\1002F022.D\	10/02/23 19:07

Client:	Lanxess (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/02/23 11:46
Sample Matrix:	Wastewater	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-MS-23
Lab Code:	KQ2317367-02	**File ID:**	J:\MS23\DATA\100223\1002F004.D\
Analysis Method:	624.1	**Analysis Lot:**	819142
Prep Method:	None		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Duplicate Lab Control Sample	KQ2317367-03	J:\MS23\DATA\100223\1002F005.D\	10/02/23 12:11
Method Blank	KQ2317367-04	J:\MS23\DATA\100223\1002F011.D\	10/02/23 14:39
002 Grab	K2310979-002	J:\MS23\DATA\100223\1002F022.D\	10/02/23 19:07

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:**10/02/23 09:13

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS23\DATA\100223\1002F001.D\ **Analytical Method:** 624.1
Instrument ID: K-MS-23 **Analysis Lot:** 819142

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.8	15306	Pass
75	95	30	60	48.5	39549	Pass
95	95	100	100	100.0	81472	Pass
96	95	5	9	7.0	5726	Pass
173	174	0	2	0.3	228	Pass
174	95	50	120	81.8	66637	Pass
175	174	5	9	6.8	4540	Pass
176	174	95	101	95.4	63573	Pass
177	176	5	9	7.0	4465	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Lab Control Sample	KQ2317367-02	J:\MS23\DATA\100223\1002F004.D\	10/02/23 11:46	
Duplicate Lab Control Sample	KQ2317367-03	J:\MS23\DATA\100223\1002F005.D\	10/02/23 12:11	
Method Blank	KQ2317367-04	J:\MS23\DATA\100223\1002F011.D\	10/02/23 14:39	
002 Grab	K2310979-002	J:\MS23\DATA\100223\1002F022.D\	10/02/23 19:07	

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/11/2023

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: KC2300542 **Signal ID:** 1
Instrument ID: K-MS-23

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2300542-01	ICAL 0.1	I:\MS23\DATA\091123\0908F011.D	09/11/2023 15:25
02	KC2300542-02	ICAL 0.2	I:\MS23\DATA\091123\0908F012.D	09/11/2023 15:49
03	KC2300542-03	ICAL 0.5	I:\MS23\DATA\091123\0908F013.D	09/11/2023 16:14
04	KC2300542-04	ICAL 1	I:\MS23\DATA\091123\0908F014.D	09/11/2023 16:38
05	KC2300542-05	ICAL 2	I:\MS23\DATA\091123\0908F015.D	09/11/2023 17:02
06	KC2300542-06	ICAL 5	I:\MS23\DATA\091123\0908F016.D	09/11/2023 17:27
07	KC2300542-07	ICAL 10	I:\MS23\DATA\091123\0908F017.D	09/11/2023 17:51
08	KC2300542-08	ICAL 20	I:\MS23\DATA\091123\0908F018.D	09/11/2023 18:16
09	KC2300542-09	ICAL 40	I:\MS23\DATA\091123\0908F019.D	09/11/2023 18:40
10	KC2300542-10	ICAL 80	I:\MS23\DATA\091123\0908F020.D	09/11/2023 19:04
13	KC2300542-13	ICAL 120	J:\MS23\DATA\091123\0908F021.D	09/11/2023 19:28

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.200	0.2953	03	0.500	0.3336	04	1.000	0.3456	05	2.000	0.3555
06	5.000	0.3961	07	10.000	0.4154	08	20.000	0.4213	09	40.000	0.4256
10	80.000	0.4602	13	120.000	0.4735						

1,1,2,2-Tetrachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.200	0.5919	03	0.500	0.6138	04	1.000	0.5533	05	2.000	0.6253
06	5.000	0.6347	07	10.000	0.6992	08	20.000	0.7361	09	40.000	0.7275
10	80.000	0.6857	13	120.000	0.7156						

1,1,2-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.4983	02	0.200	0.5275	03	0.500	0.4926	04	1.000	0.4702
05	2.000	0.515	06	5.000	0.5122	07	10.000	0.523	08	20.000	0.5423
09	40.000	0.5383	10	80.000	0.5018	13	120.000	0.5113			

1,1-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.5627	02	0.200	0.5455	03	0.500	0.5537	04	1.000	0.5321
05	2.000	0.5739	06	5.000	0.5677	07	10.000	0.5864	08	20.000	0.5777
09	40.000	0.5655	10	80.000	0.5652	13	120.000	0.569			

1,1-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.200	0.2809	03	0.500	0.2854	04	1.000	0.2951	05	2.000	0.3012
06	5.000	0.3081	07	10.000	0.3132	08	20.000	0.297	09	40.000	0.2883
10	80.000	0.3105	13	120.000	0.311						

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/11/2023

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: KC2300542 **Signal ID:** 1
Instrument ID: K-MS-23

Analyte

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	1.409	02	0.200	1.359	03	0.500	1.352	04	1.000	1.294
05	2.000	1.319	06	5.000	1.297	07	10.000	1.366	08	20.000	1.447
09	40.000	1.401	10	80.000	1.311	13	120.000	1.36			

1,2-Dichloroethane (EDC)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.200	0.4079	03	0.500	0.4088	04	1.000	0.3575	05	2.000	0.385
06	5.000	0.3679	07	10.000	0.384	08	20.000	0.3923	09	40.000	0.3819
10	80.000	0.356	13	120.000	0.3694						

1,2-Dichloropropane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.3421	02	0.200	0.3392	03	0.500	0.3016	04	1.000	0.2964
05	2.000	0.3247	06	5.000	0.3257	07	10.000	0.3482	08	20.000	0.3576
09	40.000	0.3502	10	80.000	0.337	13	120.000	0.3467			

1,3-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	1.638	02	0.200	1.427	03	0.500	1.538	04	1.000	1.431
05	2.000	1.511	06	5.000	1.489	07	10.000	1.551	08	20.000	1.625
09	40.000	1.587	10	80.000	1.503	13	120.000	1.529			

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	1.736	02	0.200	1.728	03	0.500	1.673	04	1.000	1.577
05	2.000	1.602	06	5.000	1.521	07	10.000	1.593	08	20.000	1.688
09	40.000	1.631	10	80.000	1.533	13	120.000	1.571			

2-Chloroethyl Vinyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.500	0.09036	04	1.000	0.08874	05	2.000	0.09951	06	5.000	0.1162
07	10.000	0.1294	08	20.000	0.139	09	40.000	0.1359	10	80.000	0.123
13	120.000	0.124									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.7989	05	10.000	0.8034	06	10.000	0.8258	07	10.000	0.8111
08	10.000	0.8113	09	10.000	0.8257	10	10.000	0.8114	13	10.000	0.8128

Acrolein

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	4.000	0.02457	03	10.000	0.02661	04	20.000	0.02569	05	40.000	0.02435
06	100.000	0.02416	07	200.000	0.02968	08	400.000	0.02923	09	800.000	0.02801
10	1600.000	0.02697	13	2400.000	0.02712						

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/11/2023

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: KC2300542 **Signal ID:** 1
Instrument ID: K-MS-23

Analyte

Acrylonitrile

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.800	0.05678	03	2.000	0.06354	04	4.000	0.05885	05	8.000	0.06353
06	20.000	0.06064	07	40.000	0.06541	08	80.000	0.06607	09	160.000	0.06428
10	320.000	0.06015	13	480.000	0.0643						

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	1.445	02	0.200	1.388	03	0.500	1.395	04	1.000	1.344
05	2.000	1.385	06	5.000	1.383	07	10.000	1.435	08	20.000	1.424
09	40.000	1.386	10	80.000	1.347	13	120.000	1.336			

Bromodichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.200	0.2448	03	0.500	0.2527	04	1.000	0.2494	05	2.000	0.2676
06	5.000	0.2961	07	10.000	0.3284	08	20.000	0.3663	09	40.000	0.3743
10	80.000	0.3689	13	120.000	0.3873						

Bromoform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.200	0.1059	03	0.500	0.1491	04	1.000	0.1235	05	2.000	0.1391
06	5.000	0.1656	07	10.000	0.2003	08	20.000	0.2385	09	40.000	0.2677

Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.500	0.1455	04	1.000	0.1373	05	2.000	0.1391	06	5.000	0.1484
07	10.000	0.1435	08	20.000	0.1463	09	40.000	0.1455	10	80.000	0.1377
13	120.000	0.1358									

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.500	0.233	04	1.000	0.2366	05	2.000	0.2592	06	5.000	0.2873
07	10.000	0.3032	08	20.000	0.3164	09	40.000	0.3262	10	80.000	0.3717

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	2.275	02	0.200	2.21	03	0.500	2.165	04	1.000	2.129
05	2.000	2.16	06	5.000	2.129	07	10.000	2.173	08	20.000	2.196
09	40.000	2.147	10	80.000	2.032	13	120.000	1.996			

Chloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.200	0.2876	03	0.500	0.2383	04	1.000	0.2187	05	2.000	0.2405
06	5.000	0.2281	07	10.000	0.2254	08	20.000	0.2126	09	40.000	0.2024
10	80.000	0.1977	13	120.000	0.1872						

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.4543	02	0.200	0.4416	03	0.500	0.4872	04	1.000	0.489

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/11/2023

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: KC2300542 **Signal ID:** 1
Instrument ID: K-MS-23

Analyte

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	2.000	0.5191	06	5.000	0.5115	07	10.000	0.5333	08	20.000	0.5369
09	40.000	0.5286	10	80.000	0.5151	13	120.000	0.5265			

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.200	0.3657	03	0.500	0.3551	04	1.000	0.3373	05	2.000	0.3589
06	5.000	0.355	07	10.000	0.3455	08	20.000	0.337	09	40.000	0.3284
10	80.000	0.3339	13	120.000	0.3436						

Dibromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.500	0.3189	04	1.000	0.306	05	2.000	0.3665	06	5.000	0.4253
07	10.000	0.495	08	20.000	0.5709	09	40.000	0.6044	10	80.000	0.5952
13	120.000	0.6193									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.1961	05	10.000	0.1976	06	10.000	0.2025	07	10.000	0.2042
08	10.000	0.2073	09	10.000	0.2088	10	10.000	0.2052	13	10.000	0.2101

Dichlorodifluoromethane (CFC 12)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.3648	02	0.200	0.3451	03	0.500	0.3688	04	1.000	0.3543
05	2.000	0.3932	06	5.000	0.3941	07	10.000	0.3682	08	20.000	0.3448
09	40.000	0.3266	10	80.000	0.3591	13	120.000	0.3576			

Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.9727	02	0.200	0.9814	03	0.500	1.051	04	1.000	1.036
05	2.000	1.079	06	5.000	1.12	07	10.000	1.125	08	20.000	1.131
09	40.000	1.115	10	80.000	1.106						

Methylene Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.500	0.5018	04	1.000	0.3916	05	2.000	0.388	06	5.000	0.3548
07	10.000	0.3517	08	20.000	0.3542	09	40.000	0.3406	10	80.000	0.3229
13	120.000	0.3319									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.6478	02	0.200	0.5252	03	0.500	0.6223	04	1.000	0.5998
05	2.000	0.611	06	5.000	0.6155	07	10.000	0.5966	08	20.000	0.59
09	40.000	0.5881	10	80.000	0.6116	13	120.000	0.6167			

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.8776	02	0.200	0.8558	03	0.500	0.8367	04	1.000	0.8035

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/11/2023

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: KC2300542 **Signal ID:** 1
Instrument ID: K-MS-23

Analyte

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	2.000	0.8305	06	5.000	0.8409	07	10.000	0.8596	08	20.000	0.8599
09	40.000	0.8361	10	80.000	0.8191	13	120.000	0.8205			

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.9289	05	10.000	0.9335	06	10.000	0.9582	07	10.000	0.9527
08	10.000	0.9636	09	10.000	0.9639	10	10.000	0.9627	13	10.000	0.9658

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.3433	02	0.200	0.3199	03	0.500	0.3038	04	1.000	0.2998
05	2.000	0.3069	06	5.000	0.3163	07	10.000	0.3206	08	20.000	0.327
09	40.000	0.3219	10	80.000	0.3302	13	120.000	0.3379			

Trichlorofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.4526	02	0.200	0.444	03	0.500	0.4576	04	1.000	0.4571
05	2.000	0.4679	06	5.000	0.474	07	10.000	0.4619	08	20.000	0.4404
09	40.000	0.4188	10	80.000	0.4445	13	120.000	0.4385			

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.3202	02	0.200	0.3683	03	0.500	0.3682	04	1.000	0.347
05	2.000	0.3618	06	5.000	0.3733	07	10.000	0.3546	08	20.000	0.3432
09	40.000	0.3304	10	80.000	0.3547	13	120.000	0.3576			

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.500	0.2763	04	1.000	0.2713	05	2.000	0.3279	06	5.000	0.3806
07	10.000	0.455	08	20.000	0.5019	09	40.000	0.5173	10	80.000	0.4975
13	120.000	0.5157									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	0.2995	02	0.200	0.3056	03	0.500	0.3149	04	1.000	0.3221
05	2.000	0.3275	06	5.000	0.3315	07	10.000	0.337	08	20.000	0.3282
09	40.000	0.3251	10	80.000	0.3323	13	120.000	0.3345			

trans-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.500	0.5099	04	1.000	0.4953	05	2.000	0.5771	06	5.000	0.7029
07	10.000	0.8538	08	20.000	0.9744	09	40.000	1.048	10	80.000	1.022

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/11/2023

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: KC2300542 **Signal ID:** 1
Instrument ID: K-MS-23

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	14.7	≤35	0.3922	0.01
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	9.6	≤35	0.6583	0.01
1,1,2-Trichloroethane	TRG	Average RF	% RSD	4.1	≤35	0.5121	0.01
1,1-Dichloroethane	TRG	Average RF	% RSD	2.7	≤35	0.5636	0.01
1,1-Dichloroethene	TRG	Average RF	% RSD	3.9	≤35	0.2991	0.01
1,2-Dichlorobenzene	TRG	Average RF	% RSD	3.6	≤35	1.356	0.01
1,2-Dichloroethane (EDC)	TRG	Average RF	% RSD	4.9	≤35	0.3811	0.01
1,2-Dichloropropane	TRG	Average RF	% RSD	5.9	≤35	0.3336	0.01
1,3-Dichlorobenzene	TRG	Average RF	% RSD	4.5	≤35	1.53	0.01
1,4-Dichlorobenzene	TRG	Average RF	% RSD	4.6	≤35	1.623	0.01
2-Chloroethyl Vinyl Ether	TRG	Average RF	% RSD	16.4	≤35	0.1162	0.01
4-Bromofluorobenzene	SURR	Average RF	% RSD	1.2	≤35	0.8126	0.01
Acrolein	TRG	Average RF	% RSD	7.4	≤35	0.02664	0.01
Acrylonitrile	TRG	Average RF	% RSD	4.9	≤35	0.06235	0.01
Benzene	TRG	Average RF	% RSD	2.6	≤35	1.388	0.01
Bromodichloromethane	TRG	Average RF	% RSD	18.5	≤35	0.3136	0.01
Bromoform	TRG	Quadratic	COD	0.9986	≥0.990	0.1737	0.01
Bromomethane	TRG	Average RF	% RSD	3.3	≤35	0.1421	0.01
Carbon Tetrachloride	TRG	Average RF	% RSD	16.3	≤35	0.2917	0.01
Chlorobenzene	TRG	Average RF	% RSD	3.6	≤35	2.147	0.01
Chloroethane	TRG	Average RF	% RSD	12.6	≤35	0.2238	0.01
Chloroform	TRG	Average RF	% RSD	6.4	≤35	0.5039	0.01
Chloromethane	TRG	Average RF	% RSD	3.5	≤35	0.346	0.01
Dibromochloromethane	TRG	Quadratic	COD	0.9996	≥0.990	0.4779	0.01
Dibromofluoromethane	SURR	Average RF	% RSD	2.5	≤35	0.204	0.01
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	5.5	≤35	0.3615	0.01
Ethylbenzene	TRG	Average RF	% RSD	5.5	≤35	1.072	0.01
Methylene Chloride	TRG	Average RF	% RSD	14.6	≤35	0.3708	0.01
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	5.1	≤35	0.6022	0.01
Toluene	TRG	Average RF	% RSD	2.6	≤35	0.84	0.01
Toluene-d8	SURR	Average RF	% RSD	1.5	≤35	0.9536	0.01
Trichloroethene (TCE)	TRG	Average RF	% RSD	4.3	≤35	0.3207	0.01
Trichlorofluoromethane	TRG	Average RF	% RSD	3.4	≤35	0.4507	0.01
Vinyl Chloride	TRG	Average RF	% RSD	4.7	≤35	0.3527	0.01

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/11/2023

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: KC2300542 **Signal ID:** 1
Instrument ID: K-MS-23

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
cis-1,3-Dichloropropene	TRG	Linear	R2	0.9985	≥0.990	0.4159	0.01
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	3.7	≤35	0.3235	0.01
trans-1,3-Dichloropropene	TRG	Quadratic	COD	0.9982	≥0.990	0.7729	0.01

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/11/2023

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: KC2300542 **Signal ID:** 1
Instrument ID: K-MS-23

#	Lab Code	Sample Name	File Location	Acquisition Date
11	KC2300542-11	ICV	J:\MS23\DATA\091123\0908F028.D	09/12/2023 11:43
12	KC2300542-12	ICV CLP	J:\MS23\DATA\091123\0908F029.D	09/12/2023 13:23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	10.0	9.74	3.922E-1	3.82E-1	-2.590	±25	Average RF
1,1,2,2-Tetrachloroethane	10.0	9.79	6.583E-1	6.448E-1	-2.056	±39	Average RF
1,1,2-Trichloroethane	10.0	9.42	5.121E-1	4.825E-1	-5.766	±29	Average RF
1,1-Dichloroethane	10.0	9.38	5.636E-1	5.288E-1	-6.174	±27	Average RF
1,1-Dichloroethene	10.0	8.99	2.991E-1	2.689E-1	-10.088	±49	Average RF
1,2-Dichlorobenzene	10.0	9.46	1.356E0	1.282E0	-5.429	±37	Average RF
1,2-Dichloroethane (EDC)	10.0	9.38	3.811E-1	3.573E-1	-6.233	±32	Average RF
1,2-Dichloropropane	10.0	9.38	3.336E-1	3.13E-1	-6.163	±66	Average RF
1,3-Dichlorobenzene	10.0	9.47	1.53E0	1.449E0	-5.314	±27	Average RF
1,4-Dichlorobenzene	10.0	9.40	1.623E0	1.525E0	-6.031	±37	Average RF
2-Chloroethyl Vinyl Ether	10.0	11.3	1.162E-1	1.313E-1	12.98	±124	Average RF
Acrolein	100	114	2.664E-2	3.043E-2	14.22	±80	Average RF
Acrylonitrile	40.0	40.7	6.235E-2	6.343E-2	1.73	±40	Average RF
Benzene	10.0	9.39	1.388E0	1.303E0	-6.138	±36	Average RF
Bromoform	10.0	8.87	1.737E-1	1.74E-1	-11.307	±29	Quadratic
Bromomethane	10.0	10.2	1.421E-1	1.449E-1	1.93	±86	Average RF
Carbon Tetrachloride	10.0	9.32	2.917E-1	2.72E-1	-6.763	±27	Average RF
Chlorobenzene	10.0	9.48	2.147E0	2.035E0	-5.192	±34	Average RF
Chloroethane	10.0	8.76	2.238E-1	1.961E-1	-12.387	±62	Average RF
Chloroform	10.0	9.84	5.039E-1	4.959E-1	-1.599	±32	Average RF
Chloromethane	10.0	8.79	3.46E-1	3.042E-1	-12.079	±104	Average RF
Dibromochloromethane	10.0	8.24	4.779E-1	4.41E-1	-17.627	±32	Quadratic
Bromodichloromethane	10.0	9.43	3.136E-1	2.958E-1	-5.655	±34	Average RF
Dichlorodifluoromethane (CFC 12)	10.0	7.32	3.615E-1	2.646E-1	-26.805	±40	Average RF
Methylene Chloride	10.0	8.69	3.708E-1	3.223E-1	-13.091	±39	Average RF
Ethylbenzene	10.0	9.78	1.072E0	1.048E0	-2.215	±41	Average RF
Tetrachloroethene (PCE)	10.0	9.23	6.022E-1	5.558E-1	-7.718	±26	Average RF
Toluene	10.0	9.18	8.4E-1	7.714E-1	-8.169	±25	Average RF
Trichloroethene (TCE)	10.0	9.27	3.207E-1	2.974E-1	-7.262	±33	Average RF
Trichlorofluoromethane	10.0	9.65	4.507E-1	4.349E-1	-3.499	±52	Average RF
Vinyl Chloride	10.0	9.38	3.527E-1	3.307E-1	-6.225	±96	Average RF
cis-1,3-Dichloropropene	10.0	8.49	4.159E-1	4.107E-1	-15.145	±76	Linear

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 9/11/2023

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: KC2300542 **Signal ID:** 1
Instrument ID: K-MS-23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
trans-1,2-Dichloroethene	10.0	9.41	3.235E-1	3.044E-1	-5.891	±30	Average RF
trans-1,3-Dichloropropene	10.0	8.76	7.729E-1	7.998E-1	-12.397	±50	Quadratic

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	10.0	10.0	8.126E-1	8.153E-1	0.340	±30	Average RF
Dibromofluoromethane	10.0	9.84	2.04E-1	2.008E-1	-1.564	±30	Average RF
Toluene-d8	10.0	9.90	9.536E-1	9.438E-1	-1.037	±30	Average RF

Client: Lanxess (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**819142
Instrument ID:K-MS-23

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\MS23\DATA\100223\1002F001.D\	ZZZZZZZ	ZZZZZZZ	10/2/2023	09:13:00	
J:\MS23\DATA\100223\1002F004.D\	Lab Control Sample	KQ2317367-02	10/2/2023	11:46:00	
J:\MS23\DATA\100223\1002F005.D\	Duplicate Lab Control Sample	KQ2317367-03	10/2/2023	12:11:00	
J:\MS23\DATA\100223\1002F011.D\	Method Blank	KQ2317367-04	10/2/2023	14:39:00	
J:\MS23\DATA\100223\1002F022.D\	002 Grab	K2310979-002	10/2/2023	19:07:00	
J:\MS23\DATA\100223\1002F023.D\	ZZZZZZZ	ZZZZZZZ	10/2/2023	19:32:00	

Semi-Volatile Organic Compounds by GC/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23 16:05
Sample Matrix:	Wastewater	**Date Received:**	09/28/23 12:00
Sample Name:	002 Grab	**Units:**	ug/L
Lab Code:	K2310979-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625.1
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Acenaphthene	ND U	0.90	0.042	1	10/26/23 22:58	10/3/23	
Acenaphthylene	ND U	0.90	0.058	1	10/26/23 22:58	10/3/23	
Anthracene	ND U	0.90	0.13	1	10/26/23 22:58	10/3/23	
Benz(a)anthracene	ND U	0.90	0.068	1	10/26/23 22:58	10/3/23	
Benzidine	ND U	2.3	2.1	1	10/26/23 22:58	10/3/23	*
Benzo(b)fluoranthene	ND U	0.90	0.062	1	10/26/23 22:58	10/3/23	
Benzo(k)fluoranthene	ND U	0.90	0.090	1	10/26/23 22:58	10/3/23	
Benzo(g,h,i)perylene	ND U	0.90	0.16	1	10/26/23 22:58	10/3/23	
Benzo(a)pyrene	ND U	0.90	0.072	1	10/26/23 22:58	10/3/23	
Bis(2-chloroethyl) Ether	ND U	0.90	0.074	1	10/26/23 22:58	10/3/23	
Bis(2-ethylhexyl) Phthalate	ND U	0.90	0.65	1	10/26/23 22:58	10/3/23	
Bis(2-chloroethoxy)methane	ND U	0.90	0.059	1	10/26/23 22:58	10/3/23	
4-Bromophenyl Phenyl Ether	ND U	0.90	0.063	1	10/26/23 22:58	10/3/23	
Butyl Benzyl Phthalate	ND U	0.90	0.87	1	10/26/23 22:58	10/3/23	
4-Chloro-3-methylphenol	ND U	0.90	0.20	1	10/26/23 22:58	10/3/23	
2-Chloronaphthalene	ND U	0.90	0.043	1	10/26/23 22:58	10/3/23	
2-Chlorophenol	ND U	0.90	0.064	1	10/26/23 22:58	10/3/23	
4-Chlorophenyl Phenyl Ether	ND U	0.90	0.057	1	10/26/23 22:58	10/3/23	
Chrysene	ND U	0.90	0.089	1	10/26/23 22:58	10/3/23	
Di-n-butyl Phthalate	ND U	0.90	0.82	1	10/26/23 22:58	10/3/23	
Di-n-octyl Phthalate	ND U	0.90	0.15	1	10/26/23 22:58	10/3/23	
Dibenz(a,h)acridine	ND U	2.3	-	1	10/26/23 22:58	10/3/23	
Dibenz(a,j)acridine	ND U	2.3	-	1	10/26/23 22:58	10/3/23	
Dibenz(a,h)anthracene	ND U	0.90	0.17	1	10/26/23 22:58	10/3/23	
Dibenzo(a,e)pyrene	ND U	2.3	-	1	10/26/23 22:58	10/3/23	
Dibenzo(a,h)pyrene	ND U	2.3	-	1	10/26/23 22:58	10/3/23	
Dibenzo(a,i)pyrene	ND U	2.3	-	1	10/26/23 22:58	10/3/23	
3,3'-Dichlorobenzidine	ND U	0.90	0.11	1	10/26/23 22:58	10/3/23	
2,4-Dichlorophenol	ND U	0.90	0.12	1	10/26/23 22:58	10/3/23	
Diethyl Phthalate	**0.088 J**	0.90	0.073	1	10/26/23 22:58	10/3/23	
Dimethyl Phthalate	ND U	0.90	0.077	1	10/26/23 22:58	10/3/23	
2,4-Dimethylphenol	ND U	0.90	0.22	1	10/26/23 22:58	10/3/23	
4,6-Dinitro-2-methylphenol	ND U	2.3	1.9	1	10/26/23 22:58	10/3/23	
2,4-Dinitrophenol	ND U	4.5	2.0	1	10/26/23 22:58	10/3/23	
2,4-Dinitrotoluene	ND U	0.90	0.21	1	10/26/23 22:58	10/3/23	
2,6-Dinitrotoluene	ND U	0.90	0.19	1	10/26/23 22:58	10/3/23	
1,2-Diphenylhydrazine	ND U	0.90	0.092	1	10/26/23 22:58	10/3/23	
Fluoranthene	ND U	0.90	0.078	1	10/26/23 22:58	10/3/23	
Fluorene	ND U	0.90	0.039	1	10/26/23 22:58	10/3/23	
Hexachlorobenzene	ND U	0.90	0.046	1	10/26/23 22:58	10/3/23	
Hexachlorobutadiene	ND U	0.90	0.24	1	10/26/23 22:58	10/3/23	

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Analytical Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	09/27/23 16:05
Sample Matrix:	Wastewater	**Date Received:**	09/28/23 12:00
Sample Name:	002 Grab	**Units:**	ug/L
Lab Code:	K2310979-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625.1
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Hexachlorocyclopentadiene	ND U	4.5	1.3	1	10/26/23 22:58	10/3/23	
Hexachloroethane	ND U	0.90	0.23	1	10/26/23 22:58	10/3/23	
Indeno(1,2,3-cd)pyrene	ND U	0.90	0.22	1	10/26/23 22:58	10/3/23	
Isophorone	ND U	0.90	0.19	1	10/26/23 22:58	10/3/23	
3-Methylcholanthrene	ND U	2.3	-	1	10/26/23 22:58	10/3/23	
Naphthalene	ND U	0.90	0.043	1	10/26/23 22:58	10/3/23	
Nitrobenzene	ND U	0.90	0.16	1	10/26/23 22:58	10/3/23	
2-Nitrophenol	ND U	0.90	0.097	1	10/26/23 22:58	10/3/23	
4-Nitrophenol	ND U	2.3	2.0	1	10/26/23 22:58	10/3/23	
N-Nitrosodi-n-propylamine	ND U	0.90	0.16	1	10/26/23 22:58	10/3/23	
N-Nitrosodimethylamine	ND U	0.90	0.31	1	10/26/23 22:58	10/3/23	
N-Nitrosodiphenylamine	ND U	0.90	0.092	1	10/26/23 22:58	10/3/23	
2,2'-Oxybis(1-chloropropane)	ND U	0.90	0.052	1	10/26/23 22:58	10/3/23	
Pentachlorophenol (PCP)	ND U	2.3	0.55	1	10/26/23 22:58	10/3/23	
Perylene	ND U	0.90	-	1	10/26/23 22:58	10/3/23	
Phenanthrene	ND U	0.90	0.038	1	10/26/23 22:58	10/3/23	
Phenol	ND U	0.90	0.024	1	10/26/23 22:58	10/3/23	
Pyrene	ND U	0.90	0.11	1	10/26/23 22:58	10/3/23	
1,2,4-Trichlorobenzene	ND U	0.90	0.037	1	10/26/23 22:58	10/3/23	
2,4,6-Trichlorophenol	ND U	0.90	0.34	1	10/26/23 22:58	10/3/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	78	38 - 105	10/26/23 22:58	
2-Fluorophenol	69	17 - 101	10/26/23 22:58	
Nitrobenzene-d5	88	15 - 314	10/26/23 22:58	
Phenol-d6	53	8 - 424	10/26/23 22:58	
p-Terphenyl-d14	81	35 - 133	10/26/23 22:58	
2,4,6-Tribromophenol	76	12 - 129	10/26/23 22:58	

Analyte Comments:

Benzo(b)fluoranthene	This analyte cannot be separated from Benzo(j)fluoranthene.

Analytical Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
Sample Matrix:	Wastewater	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KQ2317294-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625.1
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Acenaphthene	ND U	0.80	0.038	1	10/26/23 15:53	10/3/23	
Acenaphthylene	ND U	0.80	0.052	1	10/26/23 15:53	10/3/23	
Anthracene	ND U	0.80	0.12	1	10/26/23 15:53	10/3/23	
Benz(a)anthracene	ND U	0.80	0.060	1	10/26/23 15:53	10/3/23	
Benzidine	ND U	2.0	1.9	1	10/26/23 15:53	10/3/23	
Benzo(b)fluoranthene	ND U	0.80	0.055	1	10/26/23 15:53	10/3/23	
Benzo(k)fluoranthene	ND U	0.80	0.080	1	10/26/23 15:53	10/3/23	
Benzo(g,h,i)perylene	ND U	0.80	0.14	1	10/26/23 15:53	10/3/23	
Benzo(a)pyrene	ND U	0.80	0.064	1	10/26/23 15:53	10/3/23	
Bis(2-chloroethyl) Ether	ND U	0.80	0.066	1	10/26/23 15:53	10/3/23	
Bis(2-ethylhexyl) Phthalate	ND U	0.80	0.58	1	10/26/23 15:53	10/3/23	
Bis(2-chloroethoxy)methane	ND U	0.80	0.052	1	10/26/23 15:53	10/3/23	
4-Bromophenyl Phenyl Ether	ND U	0.80	0.056	1	10/26/23 15:53	10/3/23	
Butyl Benzyl Phthalate	ND U	0.80	0.78	1	10/26/23 15:53	10/3/23	
4-Chloro-3-methylphenol	ND U	0.80	0.18	1	10/26/23 15:53	10/3/23	
2-Chloronaphthalene	ND U	0.80	0.038	1	10/26/23 15:53	10/3/23	
2-Chlorophenol	ND U	0.80	0.057	1	10/26/23 15:53	10/3/23	
4-Chlorophenyl Phenyl Ether	ND U	0.80	0.051	1	10/26/23 15:53	10/3/23	
Chrysene	ND U	0.80	0.079	1	10/26/23 15:53	10/3/23	
Di-n-butyl Phthalate	ND U	0.80	0.73	1	10/26/23 15:53	10/3/23	
Di-n-octyl Phthalate	ND U	0.80	0.14	1	10/26/23 15:53	10/3/23	
Dibenz(a,h)acridine	ND U	2.0	-	1	10/26/23 15:53	10/3/23	
Dibenz(a,j)acridine	ND U	2.0	-	1	10/26/23 15:53	10/3/23	
Dibenz(a,h)anthracene	ND U	0.80	0.15	1	10/26/23 15:53	10/3/23	
Dibenzo(a,e)pyrene	ND U	2.0	-	1	10/26/23 15:53	10/3/23	
Dibenzo(a,h)pyrene	ND U	2.0	-	1	10/26/23 15:53	10/3/23	
Dibenzo(a,i)pyrene	ND U	2.0	-	1	10/26/23 15:53	10/3/23	
3,3'-Dichlorobenzidine	ND U	0.80	0.089	1	10/26/23 15:53	10/3/23	
2,4-Dichlorophenol	ND U	0.80	0.11	1	10/26/23 15:53	10/3/23	
Diethyl Phthalate	ND U	0.80	0.065	1	10/26/23 15:53	10/3/23	
Dimethyl Phthalate	ND U	0.80	0.068	1	10/26/23 15:53	10/3/23	
2,4-Dimethylphenol	ND U	0.80	0.20	1	10/26/23 15:53	10/3/23	
4,6-Dinitro-2-methylphenol	ND U	2.0	1.7	1	10/26/23 15:53	10/3/23	
2,4-Dinitrophenol	ND U	4.0	1.8	1	10/26/23 15:53	10/3/23	
2,4-Dinitrotoluene	ND U	0.80	0.19	1	10/26/23 15:53	10/3/23	
2,6-Dinitrotoluene	ND U	0.80	0.17	1	10/26/23 15:53	10/3/23	
1,2-Diphenylhydrazine	ND U	0.80	0.082	1	10/26/23 15:53	10/3/23	
Fluoranthene	ND U	0.80	0.069	1	10/26/23 15:53	10/3/23	
Fluorene	ND U	0.80	0.035	1	10/26/23 15:53	10/3/23	
Hexachlorobenzene	ND U	0.80	0.041	1	10/26/23 15:53	10/3/23	
Hexachlorobutadiene	ND U	0.80	0.21	1	10/26/23 15:53	10/3/23	

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Analytical Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Collected:**	NA
Sample Matrix:	Wastewater	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KQ2317294-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625.1
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Hexachlorocyclopentadiene	ND U	4.0	1.1	1	10/26/23 15:53	10/3/23	
Hexachloroethane	ND U	0.80	0.21	1	10/26/23 15:53	10/3/23	
Indeno(1,2,3-cd)pyrene	ND U	0.80	0.20	1	10/26/23 15:53	10/3/23	
Isophorone	ND U	0.80	0.17	1	10/26/23 15:53	10/3/23	
3-Methylcholanthrene	ND U	2.0	-	1	10/26/23 15:53	10/3/23	
Naphthalene	ND U	0.80	0.039	1	10/26/23 15:53	10/3/23	
Nitrobenzene	ND U	0.80	0.14	1	10/26/23 15:53	10/3/23	
2-Nitrophenol	ND U	0.80	0.086	1	10/26/23 15:53	10/3/23	
4-Nitrophenol	ND U	2.0	1.8	1	10/26/23 15:53	10/3/23	
N-Nitrosodi-n-propylamine	ND U	0.80	0.14	1	10/26/23 15:53	10/3/23	
N-Nitrosodimethylamine	ND U	0.80	0.28	1	10/26/23 15:53	10/3/23	
N-Nitrosodiphenylamine	ND U	0.80	0.082	1	10/26/23 15:53	10/3/23	
2,2'-Oxybis(1-chloropropane)	ND U	0.80	0.046	1	10/26/23 15:53	10/3/23	
Pentachlorophenol (PCP)	ND U	2.0	0.49	1	10/26/23 15:53	10/3/23	
Perylene	ND U	0.80	-	1	10/26/23 15:53	10/3/23	
Phenanthrene	ND U	0.80	0.034	1	10/26/23 15:53	10/3/23	
Phenol	ND U	0.80	0.022	1	10/26/23 15:53	10/3/23	
Pyrene	ND U	0.80	0.090	1	10/26/23 15:53	10/3/23	
1,2,4-Trichlorobenzene	ND U	0.80	0.033	1	10/26/23 15:53	10/3/23	
2,4,6-Trichlorophenol	ND U	0.80	0.30	1	10/26/23 15:53	10/3/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	79	38 - 105	10/26/23 15:53	
2-Fluorophenol	64	17 - 101	10/26/23 15:53	
Nitrobenzene-d5	81	15 - 314	10/26/23 15:53	
Phenol-d6	50	8 - 424	10/26/23 15:53	
p-Terphenyl-d14	90	35 - 133	10/26/23 15:53	
2,4,6-Tribromophenol	69	12 - 129	10/26/23 15:53	

Analyte Comments:

Benzo(b)fluoranthene	This analyte cannot be separated from Benzo(j)fluoranthene.

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual
Sample Matrix: Wastewater

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 625.1
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 12 - 129	2-Fluorobiphenyl 38 - 105	2-Fluorophenol 17 - 101
002 Grab	K2310979-002	76	78	69
Method Blank	KQ2317294-01	69	79	64
Lab Control Sample	KQ2317294-02	88	83	71

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual
Sample Matrix: Wastewater

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 625.1
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 15 - 314	Phenol-d6 8 - 424	p-Terphenyl-d14 35 - 133
002 Grab	K2310979-002	88	53	81
Method Blank	KQ2317294-01	81	50	90
Lab Control Sample	KQ2317294-02	92	56	76

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QA/QC Report

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:**10/26/23 14:15

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: J:\MS29\DATA\102623\1026F002.D\ **Lab Code:**KQ2319274-02
Instrument ID: K-MS-29 **Analysis Lot:**822275
Analysis Method: 625.1 **Signal ID:**1

		Acenaphthene-d10		Chrysene-d12		1,4-Dichlorobenzene-d4	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	356,370	9.78	363,680	15.62	186,152	5.06
	Upper Limit ==>	712,740	10.28	727,360	16.12	372,304	5.56
	Lower Limit ==>	178,185	9.28	181,840	15.12	93,076	4.56
Associated Analyses							
Method Blank	KQ2317294-01	314972	9.79	225726	15.63	168573	5.07
Lab Control Sample	KQ2317294-02	316415	9.78	319287	15.62	166845	5.06
002 Grab	K2310979-002	324302	9.78	322784	15.62	169621	5.06

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QA/QC Report

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:**10/26/23 14:15

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: J:\MS29\DATA\102623\1026F002.D\ **Lab Code:**KQ2319274-02
Instrument ID: K-MS-29 **Analysis Lot:**822275
Analysis Method: 625.1 **Signal ID:**1

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	711,175	6.35	342,934	18.74	522,893	12.10
	Upper Limit ==>	1,422,350	6.85	685,868	19.24	1,045,786	12.60
	Lower Limit ==>	355,588	5.85	171,467	18.24	261,447	11.60
Associated Analyses							
Method Blank	KQ2317294-01	637316	6.35	249730	18.76	491342	12.10
Lab Control Sample	KQ2317294-02	639352	6.35	279429	18.74	460612	12.10
002 Grab	K2310979-002	652044	6.35	302845	18.74	547431	12.10

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QA/QC Report

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:**10/26/23 14:43

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: J:\MS29\DATA\102623_BENZIDINE\1026F003.D\ **Lab Code:**KQ2319306-02
Instrument ID: K-MS-29 **Analysis Lot:**822396
Analysis Method: 625.1 **Signal ID:**1

		Chrysene-d12	
		Area	**RT**
	Result ==>	277,619	15.63
	Upper Limit ==>	555,238	16.13
	Lower Limit ==>	138,810	15.13
Associated Analyses			
Method Blank	KQ2317294-01	225726	15.63
Lab Control Sample	KQ2317294-02	319287	15.62
002 Grab	K2310979-002	322784	15.62

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/26/23
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method:	625.1	**Units:**	ug/L
Prep Method:	EPA 3510C	**Basis:**	NA
		Analysis Lot:	822275

Lab Control Sample
KQ2317294-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,2,4-Trichlorobenzene	13.8	20.0	69	57-130
1,2-Diphenylhydrazine	17.0	20.0	85	32-134
2,2'-Oxybis(1-chloropropane)	16.7	20.0	83	63-139
2,4,6-Trichlorophenol	16.0	20.0	80	52-129
2,4-Dichlorophenol	16.5	20.0	82	53-122
2,4-Dimethylphenol	10.5	20.0	52	42-120
2,4-Dinitrophenol	13.8	20.0	69	0.1-173
2,4-Dinitrotoluene	15.8	20.0	79	48-127
2,6-Dinitrotoluene	15.7	20.0	79	68-137
2-Chloronaphthalene	16.2	20.0	81	65-120
2-Chlorophenol	17.3	20.0	87	36-120
2-Nitrophenol	19.0	20.0	95	45-167
3,3'-Dichlorobenzidine	11.7	20.0	59	8-213
4,6-Dinitro-2-methylphenol	16.9	20.0	84	53-130
4-Bromophenyl Phenyl Ether	16.3	20.0	82	65-120
4-Chloro-3-methylphenol	16.4	20.0	82	41-128
4-Chlorophenyl Phenyl Ether	15.8	20.0	79	38-145
4-Nitrophenol	11.2	20.0	56	13-129
Acenaphthene	16.7	20.0	83	60-132
Acenaphthylene	18.4	20.0	92	54-126
Anthracene	17.2	20.0	86	43-120
Benz(a)anthracene	18.0	20.0	90	42-133
Benzo(a)pyrene	16.8	20.0	84	32-148
Benzo(b)fluoranthene	17.1	20.0	85	42-140
Benzo(g,h,i)perylene	15.5	20.0	78	0.1-195
Benzo(k)fluoranthene	18.8	20.0	94	25-146
Bis(2-chloroethoxy)methane	16.9	20.0	85	49-165
Bis(2-chloroethyl) Ether	17.2	20.0	86	43-126
Bis(2-ethylhexyl) Phthalate	17.2	20.0	86	29-137
Butyl Benzyl Phthalate	16.3	20.0	82	0.1-140
Chrysene	15.8	20.0	79	44-140
Dibenz(a,h)anthracene	17.8	20.0	89	0.1-200
Diethyl Phthalate	18.9	20.0	95	0.1-120
Dimethyl Phthalate	18.3	20.0	92	0.1-120
Di-n-butyl Phthalate	16.2	20.0	81	8-120
Di-n-octyl Phthalate	17.5	20.0	88	19-132
Fluoranthene	15.7	20.0	79	43-121
Fluorene	17.2	20.0	86	70-120
Hexachlorobenzene	15.6	20.0	78	8-142
Hexachlorobutadiene	12.2	20.0	61	38-120
Hexachlorocyclopentadiene	11.2	20.0	56	3-80

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/26/23
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method:	625.1	**Units:**	ug/L
Prep Method:	EPA 3510C	**Basis:**	NA
		Analysis Lot:	822275

Lab Control Sample
KQ2317294-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Hexachloroethane	13.2	20.0	66	55-120
Indeno(1,2,3-cd)pyrene	17.2	20.0	86	0.1-151
Isophorone	18.1	20.0	91	47-180
Naphthalene	15.2	20.0	76	36-120
Nitrobenzene	17.7	20.0	89	54-158
N-Nitrosodimethylamine	15.0	20.0	75	0.1-223
N-Nitrosodi-n-propylamine	18.2	20.0	91	14-198
N-Nitrosodiphenylamine	17.4	20.0	87	37-98
Pentachlorophenol (PCP)	15.8	20.0	79	38-152
Phenanthrene	16.0	20.0	80	65-120
Phenol	11.3	20.0	57	17-120
Pyrene	14.8	20.0	74	70-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/26/23
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method:	625.1	**Units:**	ug/L
Prep Method:	EPA 3510C	**Basis:**	NA
		Analysis Lot:	822396

Lab Control Sample
KQ2317294-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Benzidine	ND U	20.0	0 *	0.1-140

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/26/23 15:53
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Method Blank Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	K-MS-29
Lab Code:	KQ2317294-01	**File ID:**	J:\MS29\DATA\102623\1026F004.D\
Analysis Method:	625.1	**Analysis Lot:**	822275,822396
Prep Method:	EPA 3510C	**Extraction Lot:**	427467

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2317294-02	J:\MS29\DATA\102623\1026F007.D\	10/26/23 17:25
Lab Control Sample	KQ2317294-02	J:\MS29 \DATA\102623_BENZIDINE\1026F007.D\	10/26/23 17:25
002 Grab	K2310979-002	I:\MS29\DATA\102623\1026F019.D\	10/26/23 22:58
002 Grab	K2310979-002	J:\MS29 \DATA\102623_BENZIDINE\1026F019.D\	10/26/23 22:58

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/26/23 17:25
Sample Matrix:	Wastewater	**Date Extracted:**	10/03/23

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-MS-29
Lab Code:	KQ2317294-02	**File ID:**	J:\MS29\DATA\102623\1026F007.D\
Analysis Method:	625.1	**Analysis Lot:**	822275,822396
Prep Method:	EPA 3510C	**Extraction Lot:**	427467

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2317294-01	J:\MS29\DATA\102623\1026F004.D\	10/26/23 15:53
Method Blank	KQ2317294-01	J:\MS29 \DATA\102623_BENZIDINE\1026F004.D\	10/26/23 15:53
002 Grab	K2310979-002	I:\MS29\DATA\102623\1026F019.D\	10/26/23 22:58
002 Grab	K2310979-002	J:\MS29 \DATA\102623_BENZIDINE\1026F019.D\	10/26/23 22:58

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:**10/26/23 13:47

Tune Summary
Semivolatile Organic Compounds by GC/MS

File ID: J:\MS29\DATA\102623\1026F001.D\ **Analytical Method:** 625.1
Instrument ID: K-MS-29 **Analysis Lot:** 822275

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	41.5	1305249	Pass
68	69	0	2	1.5	21714	Pass
70	69	0	2	0.5	7164	Pass
127	198	10	80	57.6	1812299	Pass
197	198	0	2	0.6	17368	Pass
198	198	100	100	100.0	3143680	Pass
199	198	5	9	6.6	206848	Pass
275	198	10	60	21.7	681472	Pass
365	198	1	100	2.7	83800	Pass
441	442	0.01	24	15.2	265472	Pass
442	198	50	100	55.5	1745408	Pass
443	442	15	24	20.4	355264	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	KQ2319274-02	J:\MS29\DATA\102623\1026F002.D\	10/26/23 14:15	
Method Blank	KQ2317294-01	J:\MS29\DATA\102623\1026F004.D\	10/26/23 15:53	
Lab Control Sample	KQ2317294-02	J:\MS29\DATA\102623\1026F007.D\	10/26/23 17:25	
002 Grab	K2310979-002	I:\MS29\DATA\102623\1026F019.D\	10/26/23 22:58	

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual **Date Analyzed:**10/26/23 13:47

Tune Summary
Semivolatile Organic Compounds by GC/MS

File ID: J:\MS29\DATA\102623_BENZIDINE\1026F001.D\ **Analytical Method:** 625.1
Instrument ID: K-MS-29 **Analysis Lot:** 822396

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	41.5	1305249	Pass
68	69	0	2	1.5	21714	Pass
70	69	0	2	0.5	7164	Pass
127	198	10	80	57.6	1812299	Pass
197	198	0	2	0.6	17368	Pass
198	198	100	100	100.0	3143680	Pass
199	198	5	9	6.6	206848	Pass
275	198	10	60	21.7	681472	Pass
365	198	1	100	2.7	83800	Pass
441	442	0.01	24	15.2	265472	Pass
442	198	50	100	55.5	1745408	Pass
443	442	15	24	20.4	355264	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	KQ2319306-02	J:\MS29\DATA\102623_BENZIDINE\1026F003.D\	10/26/23 14:43	
Method Blank	KQ2317294-01	J:\MS29\DATA\102623_BENZIDINE\1026F004.D\	10/26/23 15:53	
Lab Control Sample	KQ2317294-02	J:\MS29\DATA\102623_BENZIDINE\1026F007.D\	10/26/23 17:25	
002 Grab	K2310979-002	J:\MS29\DATA\102623_BENZIDINE\1026F019.D\	10/26/23 22:58	

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2300422-01	SVO_LL ICAL 0.05ppm SVM70-38C	J:\MS29\DATA\070623\0706F003.D	07/06/2023 11:48
02	KC2300422-02	SVO_LL ICAL 0.1ppm SVM70-29D	J:\MS29\DATA\070623\0706F004.D	07/06/2023 12:17
03	KC2300422-03	SVO_LL ICAL 0.2ppm SVM70-29E	J:\MS29\DATA\070623\0706F005.D	07/06/2023 12:45
04	KC2300422-04	SVO_LL ICAL 0.5ppm SVM70-29F	J:\MS29\DATA\070623\0706F006.D	07/06/2023 13:13
05	KC2300422-05	SVO_LL ICAL 1.0ppm SVM70-29G	J:\MS29\DATA\070623\0706F007.D	07/06/2023 13:41
06	KC2300422-06	SVO_LL ICAL 2.0ppm SVM70-29H	J:\MS29\DATA\070623\0706F008.D	07/06/2023 14:10
07	KC2300422-07	SVO_LL ICAL 3.0ppm SVM70-29I	J:\MS29\DATA\070623\0706F009.D	07/06/2023 14:38
08	KC2300422-08	SVO_LL ICAL 5.0ppm SVM70-29J	J:\MS29\DATA\070623\0706F010.D	07/06/2023 15:06
09	KC2300422-09	SVO_LL ICAL 7.0ppm SVM70-29K	J:\MS29\DATA\070623\0706F011.D	07/06/2023 15:35
10	KC2300422-10	SVO_LL ICAL 10ppm SVM70-29L	J:\MS29\DATA\070623\0706F012.D	07/06/2023 16:03

Analyte

1,2,4-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.2654	02	100.000	0.2983	03	200.000	0.2943	04	500.000	0.3072
05	1000.000	0.2989	06	2000.000	0.2995	07	3000.000	0.2921	08	5000.000	0.2924
09	7000.000	0.2924	10	10000.000	0.2941						

1,2-Diphenylhydrazine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.4709	02	100.000	0.8466	03	200.000	0.8791	04	500.000	1.126
05	1000.000	1.168	06	2000.000	1.195	07	3000.000	1.198	08	5000.000	1.203
09	7000.000	1.199	10	10000.000	1.215						

2,2'-Oxybis(1-chloropropane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	1.579	02	100.000	1.67	03	200.000	1.652	04	500.000	1.695
05	1000.000	1.684	06	2000.000	1.678	07	3000.000	1.612	08	5000.000	1.656
09	7000.000	1.639	10	10000.000	1.619						

2,4,6-Tribromophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	500.000	0.07016	05	1000.000	0.08147	06	2000.000	0.09454	07	3000.000	0.09938
08	5000.000	0.1081	09	7000.000	0.1143	10	10000.000	0.1175			

2,4,6-Trichlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	200.000	0.1462	04	500.000	0.2159	05	1000.000	0.2671	06	2000.000	0.2984
07	3000.000	0.3114	08	5000.000	0.3296	09	7000.000	0.3383	10	10000.000	0.3474

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

Analyte

2,4-Dichlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.09623	02	100.000	0.131	03	200.000	0.174	04	500.000	0.2143
05	1000.000	0.2323	06	2000.000	0.2483	07	3000.000	0.253	08	5000.000	0.2556
09	7000.000	0.261	10	10000.000	0.265						

2,4-Dimethylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.1689	02	100.000	0.2215	03	200.000	0.2495	04	500.000	0.2809
05	1000.000	0.3058	06	2000.000	0.2892	07	3000.000	0.284	08	5000.000	0.2877
09	7000.000	0.2912	10	10000.000	0.2938						

2,4-Dinitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	1000.000	0.02044	06	2000.000	0.03706	07	3000.000	0.05911	08	5000.000	0.08176
09	7000.000	0.09419	10	10000.000	0.1127						

2,4-Dinitrotoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	200.000	0.09402	04	500.000	0.1762	05	1000.000	0.2331	06	2000.000	0.2832
07	3000.000	0.3057	08	5000.000	0.3153	09	7000.000	0.3099	10	10000.000	0.3223

2,6-Dinitrotoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	200.000	0.09962	04	500.000	0.1458	05	1000.000	0.1917	06	2000.000	0.2249
07	3000.000	0.2426	08	5000.000	0.2603	09	7000.000	0.2646	10	10000.000	0.278

2-Chloronaphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.8353	02	100.000	0.976	03	200.000	1.02	04	500.000	1.044
05	1000.000	1.052	06	2000.000	1.072	07	3000.000	1.062	08	5000.000	1.075
09	7000.000	1.081	10	10000.000	1.102						

2-Chlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.9175	02	100.000	1.089	03	200.000	1.111	04	500.000	1.265
05	1000.000	1.31	06	2000.000	1.339	07	3000.000	1.304	08	5000.000	1.347
09	7000.000	1.355	10	10000.000	1.341						

2-Fluorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	1.068	02	100.000	1.247	03	200.000	1.259	04	500.000	1.309
05	1000.000	1.312	06	2000.000	1.303	07	3000.000	1.28	08	5000.000	1.296
09	7000.000	1.301	10	10000.000	1.314						

2-Fluorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.8954	02	100.000	1.041	03	200.000	1.073	04	500.000	1.167
05	1000.000	1.22	06	2000.000	1.263	07	3000.000	1.243	08	5000.000	1.295

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

Analyte

2-Fluorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	7000.000	1.29	10	10000.000	1.294						

2-Nitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	100.000	0.08299	03	200.000	0.1124	04	500.000	0.1329	05	1000.000	0.1762
06	2000.000	0.2197	07	3000.000	0.208	08	5000.000	0.1849	09	7000.000	0.1858
10	10000.000	0.1842									

3,3'-Dichlorobenzidine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	200.000	0.1597	04	500.000	0.2147	05	1000.000	0.233	06	2000.000	0.1933
07	3000.000	0.1541	08	5000.000	0.114						

4,6-Dinitro-2-methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	500.000	0.02794	05	1000.000	0.05111	06	2000.000	0.08409	07	3000.000	0.1106
08	5000.000	0.1353	09	7000.000	0.1438	10	10000.000	0.162			

4-Bromophenyl Phenyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	100.000	0.1583	03	200.000	0.1682	04	500.000	0.1922	05	1000.000	0.1952
06	2000.000	0.2077	07	3000.000	0.208	08	5000.000	0.2147	09	7000.000	0.2256
10	10000.000	0.2276									

4-Chloro-3-methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	100.000	0.0917	03	200.000	0.1451	04	500.000	0.1789	05	1000.000	0.2166
06	2000.000	0.2461	07	3000.000	0.2505	08	5000.000	0.257	09	7000.000	0.2661
10	10000.000	0.2719									

4-Chlorophenyl Phenyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.4373	02	100.000	0.5248	03	200.000	0.5464	04	500.000	0.5715
05	1000.000	0.5637	06	2000.000	0.5562	07	3000.000	0.5493	08	5000.000	0.552
09	7000.000	0.5498	10	10000.000	0.5524						

4-Nitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	500.000	0.02537	05	1000.000	0.04568	06	2000.000	0.07551	07	3000.000	0.08892
08	5000.000	0.1029	09	7000.000	0.1029	10	10000.000	0.1094			

Acenaphthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.9271	02	100.000	0.9857	03	200.000	1.006	04	500.000	1.033
05	1000.000	1.036	06	2000.000	1.019	07	3000.000	1.019	08	5000.000	1.028
09	7000.000	1.024	10	10000.000	1.037						

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

Analyte

Acenaphthylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	1.016	02	100.000	1.22	03	200.000	1.33	04	500.000	1.506
05	1000.000	1.602	06	2000.000	1.658	07	3000.000	1.669	08	5000.000	1.691
09	7000.000	1.698	10	10000.000	1.695						

Anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.7303	02	100.000	0.822	03	200.000	0.8523	04	500.000	0.9472
05	1000.000	1.011	06	2000.000	1.058	07	3000.000	1.044	08	5000.000	1.05
09	7000.000	1.046	10	10000.000	1.044						

Benz(a)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.7322	02	100.000	0.8598	03	200.000	0.8939	04	500.000	1.06
05	1000.000	1.147	06	2000.000	1.223	07	3000.000	1.247	08	5000.000	1.257
09	7000.000	1.241	10	10000.000	1.26						

Benzo(a)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.4367	02	100.000	0.6692	03	200.000	0.7306	04	500.000	0.9121
05	1000.000	0.9722	06	2000.000	1.054	07	3000.000	1.108	08	5000.000	1.157
09	7000.000	1.157	10	10000.000	1.148						

Benzo(b)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.567	02	100.000	0.683	03	200.000	0.7175	04	500.000	0.9748
05	1000.000	1.068	06	2000.000	1.178	07	3000.000	1.19	08	5000.000	1.256
09	7000.000	1.303	10	10000.000	1.283						

Benzo(g,h,i)perylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.6966	02	100.000	0.9313	03	200.000	1.016	04	500.000	1.01
05	1000.000	0.8864	06	2000.000	0.8333	07	3000.000	0.82	08	5000.000	0.8314
09	7000.000	0.8279	10	10000.000	0.8227						

Benzo(k)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.764	02	100.000	0.8939	03	200.000	1.059	04	500.000	1.146
05	1000.000	1.239	06	2000.000	1.301	07	3000.000	1.298	08	5000.000	1.35
09	7000.000	1.317	10	10000.000	1.304						

Bis(2-chloroethoxy)methane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.2826	02	100.000	0.3397	03	200.000	0.3524	04	500.000	0.3876
05	1000.000	0.3893	06	2000.000	0.3915	07	3000.000	0.3851	08	5000.000	0.3837
09	7000.000	0.3866	10	10000.000	0.3864						

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

Analyte

Bis(2-chloroethyl) Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	1.228	02	100.000	1.356	03	200.000	1.342	04	500.000	1.384
05	1000.000	1.406	06	2000.000	1.348	07	3000.000	1.321	08	5000.000	1.402
09	7000.000	1.411	10	10000.000	1.385						

Bis(2-ethylhexyl) Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	100.000	0.2886	03	200.000	0.3609	04	500.000	0.5295	05	1000.000	0.7137
06	2000.000	0.8931	07	3000.000	0.9264	08	5000.000	0.917	09	7000.000	0.9058
10	10000.000	0.9249									

Butyl Benzyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	100.000	0.2412	03	200.000	0.2693	04	500.000	0.3886	05	1000.000	0.5044
06	2000.000	0.5615	07	3000.000	0.5972	08	5000.000	0.6361	09	7000.000	0.6483
10	10000.000	0.6675									

Chrysene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	1.064	02	100.000	1.284	03	200.000	1.29	04	500.000	1.241
05	1000.000	1.232	06	2000.000	1.207	07	3000.000	1.172	08	5000.000	1.159
09	7000.000	1.135	10	10000.000	1.142						

Di-n-butyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.4957	02	100.000	0.5876	03	200.000	1.446	04	500.000	0.8644
05	1000.000	0.9052	06	2000.000	0.8884	07	3000.000	0.9408	08	5000.000	1.104
09	7000.000	1.196	10	10000.000	1.247						

Di-n-octyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	200.000	0.3882	04	500.000	0.5158	05	1000.000	0.7485	06	2000.000	1.106
07	3000.000	1.273	08	5000.000	1.494	09	7000.000	1.595	10	10000.000	1.686

Dibenz(a,h)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.5223	02	100.000	0.7723	03	200.000	0.8604	04	500.000	0.9987
05	1000.000	0.9861	06	2000.000	0.9645	07	3000.000	0.9636	08	5000.000	1.023
09	7000.000	1.034	10	10000.000	1.059						

Diethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.7311	02	100.000	0.8668	03	200.000	0.9393	04	500.000	1.084
05	1000.000	1.109	06	2000.000	1.073	07	3000.000	1.035	08	5000.000	1.031
09	7000.000	0.9987	10	10000.000	1.005						

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

Analyte

Dimethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.6643	02	100.000	0.8915	03	200.000	0.9637	04	500.000	1.085
05	1000.000	1.124	06	2000.000	1.14	07	3000.000	1.152	08	5000.000	1.17
09	7000.000	1.174	10	10000.000	1.199						

Fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.7402	02	100.000	0.8758	03	200.000	0.9369	04	500.000	0.9804
05	1000.000	0.9503	06	2000.000	0.9125	07	3000.000	0.8866	08	5000.000	0.9812
09	7000.000	1.04	10	10000.000	1.084						

Fluorene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.8541	02	100.000	1.003	03	200.000	1.067	04	500.000	1.147
05	1000.000	1.173	06	2000.000	1.167	07	3000.000	1.172	08	5000.000	1.185
09	7000.000	1.183	10	10000.000	1.198						

Hexachlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.1963	02	100.000	0.23	03	200.000	0.239	04	500.000	0.2401
05	1000.000	0.2373	06	2000.000	0.2425	07	3000.000	0.24	08	5000.000	0.252
09	7000.000	0.2575	10	10000.000	0.2594						

Hexachlorobutadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.145	02	100.000	0.1647	03	200.000	0.1689	04	500.000	0.1693
05	1000.000	0.1594	06	2000.000	0.1643	07	3000.000	0.1588	08	5000.000	0.1574
09	7000.000	0.1593	10	10000.000	0.1587						

Hexachlorocyclopentadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	100.000	0.08619	03	200.000	0.1206	04	500.000	0.1782	05	1000.000	0.2188
06	2000.000	0.2607	07	3000.000	0.2795	08	5000.000	0.3069	09	7000.000	0.3195
10	10000.000	0.3361									

Hexachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.4756	02	100.000	0.5344	03	200.000	0.5562	04	500.000	0.5646
05	1000.000	0.5789	06	2000.000	0.5925	07	3000.000	0.5711	08	5000.000	0.5902
09	7000.000	0.5872	10	10000.000	0.5867						

Indeno(1,2,3-cd)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.5255	02	100.000	0.3211	03	200.000	0.5503	04	500.000	0.602
05	1000.000	0.6176	06	2000.000	0.7247	07	3000.000	0.7425	08	5000.000	0.8025
09	7000.000	0.8428	10	10000.000	0.8709						

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

Analyte

Isophorone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.3139	02	100.000	0.4213	03	200.000	0.4236	04	500.000	0.5104
05	1000.000	0.5377	06	2000.000	0.5763	07	3000.000	0.5783	08	5000.000	0.5854
09	7000.000	0.5879	10	10000.000	0.5883						

N-Nitrosodi-n-propylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.5388	02	100.000	0.6581	03	200.000	0.7052	04	500.000	0.8088
05	1000.000	0.8685	06	2000.000	0.9092	07	3000.000	0.8801	08	5000.000	0.9135
09	7000.000	0.9195	10	10000.000	0.9153						

N-Nitrosodimethylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.5437	02	100.000	0.5871	03	200.000	0.6247	04	500.000	0.6496
05	1000.000	0.6462	06	2000.000	0.6601	07	3000.000	0.6435	08	5000.000	0.6827
09	7000.000	0.6784	10	10000.000	0.6773						

N-Nitrosodiphenylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.4536	02	100.000	0.5814	03	200.000	0.6431	04	500.000	0.7591
05	1000.000	0.7875	06	2000.000	0.7991	07	3000.000	0.8042	08	5000.000	0.7731
09	7000.000	0.7102	10	10000.000	0.6109						

Naphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.9325	02	100.000	1.031	03	200.000	1.013	04	500.000	1.031
05	1000.000	1.006	06	2000.000	1.014	07	3000.000	0.9852	08	5000.000	0.9854
09	7000.000	0.9798	10	10000.000	0.982						

Nitrobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.9513	02	100.000	1.109	03	200.000	1.088	04	500.000	1.244
05	1000.000	1.295	06	2000.000	1.342	07	3000.000	1.304	08	5000.000	1.352
09	7000.000	1.355	10	10000.000	1.355						

Nitrobenzene-d5

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.8751	02	100.000	0.9811	03	200.000	1.024	04	500.000	1.166
05	1000.000	1.239	06	2000.000	1.299	07	3000.000	1.268	08	5000.000	1.331
09	7000.000	1.35	10	10000.000	1.356						

Pentachlorophenol (PCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	500.000	0.04616	05	1000.000	0.07815	06	2000.000	0.1017	07	3000.000	0.1073
08	5000.000	0.1262	09	7000.000	0.1324	10	10000.000	0.142			

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

Analyte

Phenanthrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.9676	02	100.000	1.059	03	200.000	1.062	04	500.000	1.101
05	1000.000	1.1	06	2000.000	1.096	07	3000.000	1.072	08	5000.000	1.083
09	7000.000	1.077	10	10000.000	1.077						

Phenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	1.128	02	100.000	1.263	03	200.000	1.377	04	500.000	1.536
05	1000.000	1.577	06	2000.000	1.626	07	3000.000	1.582	08	5000.000	1.614
09	7000.000	1.635	10	10000.000	1.615						

Phenol-d6

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	1.008	02	100.000	1.189	03	200.000	1.206	04	500.000	1.364
05	1000.000	1.427	06	2000.000	1.487	07	3000.000	1.448	08	5000.000	1.491
09	7000.000	1.499	10	10000.000	1.5						

Pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	1.342	02	100.000	1.661	03	200.000	1.748	04	500.000	1.676
05	1000.000	1.55	06	2000.000	1.202	07	3000.000	1.128	08	5000.000	1.14
09	7000.000	1.131	10	10000.000	1.156						

p-Terphenyl-d14

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.9938	02	100.000	1.2	03	200.000	1.246	04	500.000	1.141
05	1000.000	1.039	06	2000.000	0.9259	07	3000.000	0.908	08	5000.000	0.9837
09	7000.000	0.9801	10	10000.000	0.984						

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	3.7	≤35	0.2935	0.01
1,2-Diphenylhydrazine	TRG	Linear	R2	0.9999	≥0.920	1.05	0.01
2,2'-Oxybis(1-chloropropane)	TRG	Average RF	% RSD	2.2	≤35	1.648	0.01
2,4,6-Tribromophenol	SURR	Average RF	% RSD	17.7	≤35	0.09792	0.01
2,4,6-Trichlorophenol	TRG	Quadratic	COD	0.9998	≥0.920	0.2818	0.01
2,4-Dichlorophenol	TRG	Quadratic	COD	0.9999	≥0.920	0.2131	0.01
2,4-Dimethylphenol	TRG	Average RF	% RSD	15.9	≤35	0.2673	0.01
2,4-Dinitrophenol	TRG	Quadratic	COD	0.9990	≥0.920	0.06754	0.05
2,4-Dinitrotoluene	TRG	Quadratic	COD	0.9994	≥0.920	0.255	0.01
2,6-Dinitrotoluene	TRG	Quadratic	COD	0.9996	≥0.920	0.2134	0.01
2-Chloronaphthalene	TRG	Average RF	% RSD	7.5	≤35	1.032	0.01
2-Chlorophenol	TRG	Average RF	% RSD	12.0	≤35	1.238	0.01
2-Fluorobiphenyl	SURR	Average RF	% RSD	5.8	≤35	1.269	0.01
2-Fluorophenol	SURR	Average RF	% RSD	11.4	≤35	1.178	0.01
2-Nitrophenol	TRG	Quadratic	COD	0.9976	≥0.920	0.1652	0.01
3,3'-Dichlorobenzidine	TRG	Quadratic	COD	0.9885	≥0.920	0.1781	0.01
4,6-Dinitro-2-methylphenol	TRG	Quadratic	COD	0.9987	≥0.920	0.1021	0.01
4-Bromophenyl Phenyl Ether	TRG	Average RF	% RSD	12.0	≤35	0.1997	0.01
4-Chloro-3-methylphenol	TRG	Quadratic	COD	0.9998	≥0.920	0.2138	0.01
4-Chlorophenyl Phenyl Ether	TRG	Average RF	% RSD	7.1	≤35	0.5403	0.01
4-Nitrophenol	TRG	Quadratic	COD	0.9988	≥0.920	0.07868	0.05
Acenaphthene	TRG	Average RF	% RSD	3.3	≤35	1.011	0.01
Acenaphthylene	TRG	Average RF	% RSD	15.9	≤35	1.509	0.01
Anthracene	TRG	Average RF	% RSD	12.3	≤35	0.9606	0.01
Benz(a)anthracene	TRG	Average RF	% RSD	17.9	≤35	1.092	0.01
Benzo(a)pyrene	TRG	Quadratic	COD	0.9992	≥0.920	0.9345	0.01
Benzo(b)fluoranthene	TRG	Quadratic	COD	0.9990	≥0.920	1.022	0.01
Benzo(g,h,i)perylene	TRG	Average RF	% RSD	11.2	≤35	0.8676	0.01
Benzo(k)fluoranthene	TRG	Average RF	% RSD	17.2	≤35	1.167	0.01
Bis(2-chloroethoxy)methane	TRG	Average RF	% RSD	9.5	≤35	0.3685	0.01
Bis(2-chloroethyl) Ether	TRG	Average RF	% RSD	4.0	≤35	1.358	0.01
Bis(2-ethylhexyl) Phthalate	TRG	Quadratic	COD	0.9993	≥0.920	0.7178	0.01
Butyl Benzyl Phthalate	TRG	Quadratic	COD	0.9994	≥0.920	0.5016	0.01
Chrysene	TRG	Average RF	% RSD	6.0	≤35	1.193	0.01

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Di-n-butyl Phthalate	TRG	Quadratic	COD	0.9985	≥0.920	0.9675	0.01
Di-n-octyl Phthalate	TRG	Quadratic	COD	0.9975	≥0.920	1.101	0.01
Dibenz(a,h)anthracene	TRG	Average RF	% RSD	17.8	≤35	0.9184	0.01
Diethyl Phthalate	TRG	Average RF	% RSD	11.6	≤35	0.9873	0.01
Dimethyl Phthalate	TRG	Average RF	% RSD	16.0	≤35	1.057	0.01
Fluoranthene	TRG	Average RF	% RSD	10.2	≤35	0.9388	0.01
Fluorene	TRG	Average RF	% RSD	9.9	≤35	1.115	0.01
Hexachlorobenzene	TRG	Average RF	% RSD	7.4	≤35	0.2394	0.01
Hexachlorobutadiene	TRG	Average RF	% RSD	4.3	≤35	0.1606	0.01
Hexachlorocyclopentadiene	TRG	Quadratic	COD	0.9993	≥0.920	0.2341	0.05
Hexachloroethane	TRG	Average RF	% RSD	6.4	≤35	0.5637	0.01
Indeno(1,2,3-cd)pyrene	TRG	Quadratic	COD	0.9993	≥0.920	0.66	0.01
Isophorone	TRG	Average RF	% RSD	18.6	≤35	0.5123	0.01
N-Nitrosodi-n-propylamine	TRG	Average RF	% RSD	16.4	≤35	0.8117	0.05
N-Nitrosodimethylamine	TRG	Average RF	% RSD	6.9	≤35	0.6393	0.01
N-Nitrosodiphenylamine	TRG	Average RF	% RSD	16.9	≤35	0.6922	0.01
Naphthalene	TRG	Average RF	% RSD	3.0	≤35	0.9961	0.01
Nitrobenzene	TRG	Average RF	% RSD	11.4	≤35	1.24	0.01
Nitrobenzene-d5	SURR	Average RF	% RSD	14.4	≤35	1.189	0.01
Pentachlorophenol (PCP)	TRG	Quadratic	COD	0.9996	≥0.920	0.1048	0.01
Phenanthrene	TRG	Average RF	% RSD	3.6	≤35	1.07	0.01
Phenol	TRG	Average RF	% RSD	11.9	≤35	1.495	0.01
Phenol-d6	SURR	Average RF	% RSD	12.5	≤35	1.362	0.01
Pyrene	TRG	Average RF	% RSD	18.8	≤35	1.373	0.01
p-Terphenyl-d14	SURR	Average RF	% RSD	11.1	≤35	1.04	0.01

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300423 **Signal ID:** 1
Instrument ID: K-MS-29

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2300423-01	Benzidine LL ICAL 0.50ppm SVM69-48C	J:\MS29\DATA\070623\0706F016.D	07/06/2023 17:57
02	KC2300423-02	Benzidine LL ICAL 1.0ppm SVM69-48D	J:\MS29\DATA\070623\0706F017.D	07/06/2023 18:25
03	KC2300423-03	Benzidine LL ICAL 2.0ppm SVM69-48E	J:\MS29\DATA\070623\0706F018.D	07/06/2023 18:54
04	KC2300423-04	Benzidine LL ICAL 3.0ppm SVM69-48F	J:\MS29\DATA\070623\0706F019.D	07/06/2023 19:22
05	KC2300423-05	Benzidine LL ICAL 5.0ppm SVM69-48G	J:\MS29\DATA\070623\0706F020.D	07/06/2023 19:51
06	KC2300423-06	Benzidine LL ICAL 7.0ppm SVM69-48H	J:\MS29\DATA\070623\0706F021.D	07/06/2023 20:19
07	KC2300423-07	Benzidine LL ICAL 10ppm SVM69-48I	J:\MS29\DATA\070623\0706F022.D	07/06/2023 20:47

Analyte

Benzidine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	500.000	0.1119	02	1000.000	0.1412	03	2000.000	0.1714	04	3000.000	0.1855
05	5000.000	0.2447	06	7000.000	0.231	07	10000.000	0.2463			

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300423 **Signal ID:** 1
Instrument ID: K-MS-29

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Benzidine	**TRG**	**Quadratic**	**COD**	**0.9948**	**≥0.920**	**0.1903**	**0.01**

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Verification Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

#	Lab Code	Sample Name	File Location	Acquisition Date
11	KC2300422-11	SVO_LL ICV 3.0ppm SVM70-21C	J:\MS29\DATA\070623\0706F013.D	07/06/2023 16:32

Analyte Name	Expected	Result	Average RF	SSV RF	Rec.	Criteria	Curve Fit
Acenaphthene	3000	2990	1.011E0	1.008E0	99.7	70-130	Average RF
Acenaphthylene	3000	3180	1.509E0	1.598E0	106	60-130	Average RF
Anthracene	3000	3150	9.606E-1	1.008E0	105	58-130	Average RF
Benz(a)anthracene	3000	3370	1.092E0	1.225E0	112	42-133	Average RF
Benzo(b)fluoranthene	3000	2890	1.022E0	1.149E0	96.3	42-140	Quadratic
Benzo(k)fluoranthene	3000	3260	1.167E0	1.268E0	109	25-146	Average RF
Benzo(g,h,i)perylene	3000	2770	8.676E-1	8.014E-1	92.3	13-195	Average RF
Benzo(a)pyrene	3000	2990	9.345E-1	1.091E0	99.7	32-148	Quadratic
Bis(2-chloroethyl) Ether	3000	2970	1.358E0	1.346E0	99.0	52-130	Average RF
Bis(2-ethylhexyl) Phthalate	3000	3040	7.178E-1	8.924E-1	101	43-137	Quadratic
Bis(2-chloroethoxy)methane	3000	3140	3.685E-1	3.853E-1	105	52-164	Average RF
4-Bromophenyl Phenyl Ether	3000	3160	1.997E-1	2.104E-1	105	70-130	Average RF
Butyl Benzyl Phthalate	3000	3040	5.016E-1	5.973E-1	101	43-140	Quadratic
4-Chloro-3-methylphenol	3000	3070	2.138E-1	2.538E-1	102	68-130	Quadratic
2-Chloronaphthalene	3000	2970	1.032E0	1.02E0	99.0	70-130	Average RF
2-Chlorophenol	3000	3190	1.238E0	1.315E0	106	55-130	Average RF
4-Chlorophenyl Phenyl Ether	3000	2870	5.403E-1	5.171E-1	95.7	57-145	Average RF
Chrysene	3000	2910	1.193E0	1.157E0	97.0	44-140	Average RF
Di-n-butyl Phthalate	3000	2940	9.675E-1	9.745E-1	98.0	52-130	Quadratic
Di-n-octyl Phthalate	3000	3220	1.101E0	1.378E0	107	21-132	Quadratic
Dibenz(a,h)anthracene	3000	3050	9.184E-1	9.34E-1	102	13-200	Average RF
3,3'-Dichlorobenzidine	3000	4000	1.781E-1	1.849E-1	133	18-213	Quadratic
2,4-Dichlorophenol	3000	3030	2.131E-1	2.523E-1	101	64-130	Quadratic
Diethyl Phthalate	3000	2900	9.873E-1	9.554E-1	96.7	47-130	Average RF
Dimethyl Phthalate	3000	3250	1.057E0	1.145E0	108	50-130	Average RF
2,4-Dimethylphenol	3000	3380	2.673E-1	3.009E-1	113	58-130	Average RF
4,6-Dinitro-2-methylphenol	3000	3130	1.021E-1	1.157E-1	104	56-130	Quadratic
2,4-Dinitrophenol	3000	3550	6.754E-2	7.791E-2	118	39-173	Quadratic
2,4-Dinitrotoluene	3000	3120	2.55E-1	3.089E-1	104	53-130	Quadratic
2,6-Dinitrotoluene	3000	3260	2.134E-1	2.621E-1	109	68-137	Quadratic
1,2-Diphenylhydrazine	3000	2930	1.05E0	1.17E0	97.7	60-140	Linear
Fluoranthene	3000	2960	9.388E-1	9.277E-1	98.7	47-130	Average RF
Fluorene	3000	3110	1.115E0	1.157E0	104	70-130	Average RF

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Verification Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300422 **Signal ID:** 1
Instrument ID: K-MS-29

Analyte Name	Expected	Result	Average RF	SSV RF	Rec.	Criteria	Curve Fit
Hexachlorobenzene	3000	3050	2.394E-1	2.434E-1	102	38-142	Average RF
Hexachlorobutadiene	3000	3030	1.606E-1	1.62E-1	101	68-130	Average RF
Hexachlorocyclopentadiene	3000	2710	2.341E-1	2.473E-1	90.3	60-140	Quadratic
Hexachloroethane	3000	2960	5.637E-1	5.564E-1	98.7	55-130	Average RF
Indeno(1,2,3-cd)pyrene	3000	3010	6.6E-1	7.454E-1	100	13-151	Quadratic
Isophorone	3000	3690	5.123E-1	6.309E-1	123	52-180	Average RF
Naphthalene	3000	2880	9.961E-1	9.547E-1	96.0	70-130	Average RF
Nitrobenzene	3000	3230	1.24E0	1.335E0	108	54-158	Average RF
2-Nitrophenol	3000	3540	1.652E-1	2.316E-1	118	61-163	Quadratic
4-Nitrophenol	3000	3140	7.868E-2	9.371E-2	105	35-130	Quadratic
N-Nitrosodi-n-propylamine	3000	3490	8.117E-1	9.456E-1	116	59-170	Average RF
N-Nitrosodimethylamine	3000	2770	6.393E-1	5.904E-1	92.3	60-140	Average RF
N-Nitrosodiphenylamine	3000	4030	6.922E-1	9.299E-1	134	60-140	Average RF
2,2'-Oxybis(1-chloropropane)	3000	3440	1.648E0	1.889E0	115	63-139	Average RF
Pentachlorophenol (PCP)	3000	3500	1.048E-1	1.342E-1	117	42-152	Quadratic
Phenanthrene	3000	2860	1.07E0	1.018E0	95.3	67-130	Average RF
Phenol	3000	3180	1.495E0	1.583E0	106	48-130	Average RF
Pyrene	3000	2360	1.373E0	1.08E0	78.7	70-130	Average RF
1,2,4-Trichlorobenzene	3000	2910	2.935E-1	2.851E-1	97.0	61-130	Average RF
2,4,6-Trichlorophenol	3000	2960	2.818E-1	3.067E-1	98.7	69-130	Quadratic

Analyte Name	Expected	Result	Average RF	SSV RF	Rec.	Criteria	Curve Fit
2-Fluorobiphenyl	3000	2730	1.269E0	1.154E0	91.0	60-140	Average RF
2-Fluorophenol	3000	2900	1.178E0	1.138E0	96.7	60-140	Average RF
Nitrobenzene-d5	3000	3090	1.189E0	1.224E0	103	46-219	Average RF
Phenol-d6	3000	2930	1.362E0	1.328E0	97.7	48-208	Average RF
p-Terphenyl-d14	3000	2430	1.04E0	8.435E-1	81.0	60-140	Average RF
2,4,6-Tribromophenol	3000	3060	9.792E-2	9.991E-2	102	60-140	Average RF

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:** K2310979
Project: 2023 NPDES Annual-Biannual **Calibration Date:** 7/6/2023

Initial Calibration Verification Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: KC2300423 **Signal ID:** 1
Instrument ID: K-MS-29

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC2300423-08	Benzidine LL ICV 5.0ppm SVM69-48K	J:\MS29\DATA\070623\0706F023.D	07/06/2023 21:15

Analyte Name	Expected	Result	Average RF	SSV RF	Rec.	Criteria	Curve Fit
Benzidine	5.00	5.60	1.903E-1	2.51E-1	112	60-140	Quadratic

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/26/23 14:15

Continuing Calibration Verification (CCV) Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method:	625.1	**Calibration Date:**	7/6/2023
File ID:	J:\MS29\DATA\102623\1026F002.D\	**Calibration ID:**	KC2300422
Signal ID:	1	**Analysis Lot:**	822275
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Acenaphthene	3000	3400	1.0115	1.1456	113	NA	70-130	Average RF
Acenaphthylene	3000	3740	1.5085	1.8785	125	NA	60-130	Average RF
Anthracene	3000	3430	0.9606	1.0969	114	NA	58-130	Average RF
Benz(a)anthracene	3000	3490	1.0922	1.2719	116	NA	42-133	Average RF
Benzo(b)fluoranthene	3000	3190	1.0221	1.2777	106	6.4	42-140	Quadratic
Benzo(k)fluoranthene	3000	3520	1.1673	1.37	117	NA	25-146	Average RF
Benzo(g,h,i)perylene	3000	3050	0.8676	0.8834	102	NA	13-195	Average RF
Benzo(a)pyrene	3000	3160	0.9345	1.1576	105	5.5	32-148	Quadratic
Bis(2-chloroethyl) Ether	3000	3300	1.3583	1.494	110	NA	52-130	Average RF
Bis(2-ethylhexyl) Phthalate	3000	3410	0.7178	1.0078	114	13.7	43-137	Quadratic
Bis(2-chloroethoxy)methane	3000	3380	0.3685	0.4157	113	NA	52-164	Average RF
4-Bromophenyl Phenyl Ether	3000	3360	0.1997	0.2234	112	NA	70-130	Average RF
Butyl Benzyl Phthalate	3000	3170	0.5016	0.6253	106	5.7	43-140	Quadratic
4-Chloro-3-methylphenol	3000	3400	0.2138	0.2829	113	13.5	68-130	Quadratic
2-Chloronaphthalene	3000	3420	1.0318	1.1771	114	NA	70-130	Average RF
2-Chlorophenol	3000	3420	1.238	1.4109	114	NA	55-130	Average RF
4-Chlorophenyl Phenyl Ether	3000	3310	0.5403	0.5968	110	NA	57-145	Average RF
Chrysene	3000	3090	1.1927	1.2289	103	NA	44-140	Average RF
Di-n-butyl Phthalate	3000	3150	0.9675	1.0529	105	5.0	52-130	Quadratic
Di-n-octyl Phthalate	3000	3520	1.1009	1.5345	117	17.4	21-132	Quadratic
Dibenz(a,h)anthracene	3000	3500	0.9184	1.0704	117	NA	13-200	Average RF
3,3'-Dichlorobenzidine	3000	1780	0.1781	0.1177	59.4	-40.6	18-213	Quadratic
2,4-Dichlorophenol	3000	3320	0.2131	0.2769	111	10.5	64-130	Quadratic
Diethyl Phthalate	3000	3640	0.9873	1.1995	121	NA	47-130	Average RF
Dimethyl Phthalate	3000	3610	1.0565	1.2704	120	NA	50-130	Average RF
2,4-Dimethylphenol	3000	3360	0.2673	0.2995	112	NA	58-130	Average RF
4,6-Dinitro-2-methylphenol	3000	3320	0.1021	0.1249	111	10.5	56-130	Quadratic
2,4-Dinitrophenol	3000	3140	0.0675	0.0644	105	4.8	39-173	Quadratic
2,4-Dinitrotoluene	3000	3240	0.255	0.3216	108	8.0	53-130	Quadratic
2,6-Dinitrotoluene	3000	3230	0.2134	0.2596	108	7.6	68-137	Quadratic
1,2-Diphenylhydrazine	3000	3520	1.0501	1.4099	117	17.4	60-140	Linear
Fluoranthene	3000	3030	0.9388	0.9471	101	NA	47-130	Average RF
Fluorene	3000	3560	1.1148	1.3219	119	NA	70-130	Average RF
Hexachlorobenzene	3000	3170	0.2394	0.253	106	NA	38-142	Average RF
Hexachlorobutadiene	3000	3050	0.1606	0.1632	102	NA	68-130	Average RF
Hexachlorocyclopentadiene	3000	3190	0.2341	0.2961	106	6.3	5-152	Quadratic
Hexachloroethane	3000	3210	0.5637	0.603	107	NA	55-130	Average RF
Indeno(1,2,3-cd)pyrene	3000	3540	0.66	0.8892	118	18.0	13-151	Quadratic
Isophorone	3000	3810	0.5123	0.6511	127	NA	52-180	Average RF

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/26/23 14:15

Continuing Calibration Verification (CCV) Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method:	625.1	**Calibration Date:**	7/6/2023
File ID:	J:\MS29\DATA\102623\1026F002.D\	**Calibration ID:**	KC2300422
Signal ID:	1	**Analysis Lot:**	822275
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Naphthalene	3000	3200	0.9961	1.0624	107	NA	70-130	Average RF
Nitrobenzene	3000	3600	1.2397	1.4862	120	NA	54-158	Average RF
2-Nitrophenol	3000	2830	0.1652	0.1856	94.3	-5.7	61-163	Quadratic
4-Nitrophenol	3000	3470	0.0787	0.1059	116	15.7	35-130	Quadratic
N-Nitrosodi-n-propylamine	3000	3610	0.8117	0.9767	120	NA	59-170	Average RF
N-Nitrosodimethylamine	3000	3440	0.6393	0.7334	115	NA	58-140	Average RF
N-Nitrosodiphenylamine	3000	2970	0.6922	0.6851	99.0	NA	60-140	Average RF
2,2'-Oxybis(1-chloropropane)	3000	3370	1.6484	1.853	112	NA	63-139	Average RF
Pentachlorophenol (PCP)	3000	3160	0.1048	0.1186	105	5.3	42-152	Quadratic
Phenanthrene	3000	3190	1.0695	1.1371	106	NA	67-130	Average RF
Phenol	3000	3520	1.4952	1.754	117	NA	48-130	Average RF
Pyrene	3000	2770	1.3733	1.2677	92.3	NA	70-130	Average RF
1,2,4-Trichlorobenzene	3000	3050	0.2935	0.2987	102	NA	61-130	Average RF
2,4,6-Trichlorophenol	3000	3300	0.2818	0.3451	110	9.9	69-130	Quadratic
2-Fluorobiphenyl	3000	3420	1.2688	1.4459	114	NA	60-140	Average RF
2-Fluorophenol	3000	3380	1.1781	1.3291	113	NA	60-140	Average RF
Nitrobenzene-d5	3000	3600	1.1889	1.4257	120	NA	46-219	Average RF
Phenol-d6	3000	3510	1.362	1.5942	117	NA	48-208	Average RF
p-Terphenyl-d14	3000	2610	1.0402	0.9055	87.1	NA	60-140	Average RF
2,4,6-Tribromophenol	3000	3400	0.0979	0.1109	113	NA	60-140	Average RF

Client:	Lanxess Corporation (formerly Emerald Kalama Chemical)	**Service Request:**	K2310979
Project:	2023 NPDES Annual-Biannual	**Date Analyzed:**	10/26/23 14:43

Continuing Calibration Verification (CCV) Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method:	625.1	**Calibration Date:**	7/6/2023
File ID:	J:\MS29\DATA\102623_BENZIDINE\1026F003.D\	**Calibration ID:**	KC2300423
Signal ID:	1	**Analysis Lot:**	822396
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Benzidine	5000	2310	0.190	0.089	46.2	-53.8	16-198	Quadratic

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Analysis Run Log
Semivolatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**822275
Instrument ID:K-MS-29

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\MS29\DATA\102623\1026F001.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	13:47:00	
J:\MS29\DATA\102623\1026F002.D\	Continuing Calibration Verification	KQ2319274-02	10/26/2023	14:15:00	
J:\MS29\DATA\102623\1026F004.D\	Method Blank	KQ2317294-01	10/26/2023	15:53:00	
J:\MS29\DATA\102623\1026F005.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	16:24:00	
J:\MS29\DATA\102623\1026F006.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	16:57:00	
J:\MS29\DATA\102623\1026F007.D\	Lab Control Sample	KQ2317294-02	10/26/2023	17:25:00	
J:\MS29\DATA\102623\1026F008.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	17:52:00	
J:\MS29\DATA\102623\1026F009.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	18:20:00	
J:\MS29\DATA\102623\1026F010.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	18:48:00	
J:\MS29\DATA\102623\1026F011.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	19:16:00	
J:\MS29\DATA\102623\1026F012.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	19:44:00	
J:\MS29\DATA\102623\1026F013.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	20:12:00	
J:\MS29\DATA\102623\1026F014.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	20:39:00	
J:\MS29\DATA\102623\1026F014.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	20:39:00	
J:\MS29\DATA\102623\1026F015.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	21:07:00	
J:\MS29\DATA\102623\1026F015.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	21:07:00	
J:\MS29\DATA\102623\1026F016.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	21:35:00	
J:\MS29\DATA\102623\1026F017.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	22:03:00	
J:\MS29\DATA\102623\1026F018.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	22:30:00	
I:\MS29\DATA\102623\1026F019.D\	002 Grab	K2310979-002	10/26/2023	22:58:00	
J:\MS29\DATA\102623\1026F020.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	23:31:00	
J:\MS29\DATA\102623\1026F021.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	23:58:00	
J:\MS29\DATA\102623\1026F022.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	00:26:00	
J:\MS29\DATA\102623\1026F023.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	00:53:00	
J:\MS29\DATA\102623\1026F024.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	01:21:00	
J:\MS29\DATA\102623\1026F025.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	01:49:00	
J:\MS29\DATA\102623\1026F026.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	02:16:00	
J:\MS29\DATA\102623\1026F027.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	02:44:00	
J:\MS29\DATA\102623\1026F028.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	03:11:00	

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual

Analysis Run Log
Semivolatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**822396
Instrument ID:K-MS-29

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\MS29 \DATA\102623_BENZIDINE\1026F001.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	13:47:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F003.D\	Continuing Calibration Verification	KQ2319306-02	10/26/2023	14:43:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F004.D\	Method Blank	KQ2317294-01	10/26/2023	15:53:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F005.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	16:24:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F007.D\	Lab Control Sample	KQ2317294-02	10/26/2023	17:25:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F008.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	17:52:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F009.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	18:20:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F012.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	19:44:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F013.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	20:12:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F014.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	20:39:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F014.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	20:39:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F015.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	21:07:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F015.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	21:07:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F018.D\	ZZZZZZZ	ZZZZZZZ	10/26/2023	22:30:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F019.D\	002 Grab	K2310979-002	10/26/2023	22:58:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F025.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	01:49:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F026.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	02:16:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F027.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	02:44:00	
J:\MS29 \DATA\102623_BENZIDINE\1026F028.D\	ZZZZZZZ	ZZZZZZZ	10/27/2023	03:11:00	

Prep Summary Report

Client: Lanxess Corporation (formerly Emerald Kalama Chemical) **Service Request:**K2310979
Project: 2023 NPDES Annual-Biannual
Sample Matrix: Wastewater

Semivolatile Organic Compounds by GC/MS

Prep Method: EPA 3510C **Extraction Lot:** 427467
Analytical Method: 625.1 **Extraction Date:** 10/03/23 15:04

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
002 Grab	K2310979-002	9/27/23	9/28/23	222.0000 mL	1 mL	
Method Blank	KQ2317294-01MB	NA	NA	250 mL	1 mL	
Lab Control Sample	KQ2317294-02LCS	NA	NA	250 mL	1 mL	

Subcontract Lab Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For **ALS Environmental-Kelso**

Project K2310979
Workorder 3325974
Report ID 275837 on 10/10/2023

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Oct 03, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
ALKLS Data - ALS Environmental-Kelso
Howard Holmes - ALS Environmental-Kelso
Howard Holmes - ALS Environmental-Kelso

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3325974001	002 Grab	Water	09/27/2023 16:05	10/03/2023 08:43	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The holding time for EPA Method 218.6 is 24 hours. Per 40 CFR Part 136, EPA Method 218.6 allows a 28-day holding time if samples are preserved to pH 9.3 to 9.7 with ammonium sulfate buffer upon collection. This sample had a pH outside of this range upon receipt and was analyzed after the 24-hour holding time had expired

Detected Results Summary

Client Sample ID	002 Grab	Collected	09/27/2023 16:05
Lab Sample ID	3325974001	Lab Receipt	10/03/2023 08:43

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Hexavalent Chromium	0.055	ug/L	0.020	0.0072	EPA 218.6	#

Results

Client Sample ID	002 Grab	Collected	09/27/2023 16:05
Lab Sample ID	3325974001	Lab Receipt	10/03/2023 08:43

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Hexavalent Chromium	0.055	1	ug/L	0.020	0.0072	EPA 218.6	1	10/05/2023 21:29	DMG	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3325974001	002 Grab	EPA 218.6	N/A	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1072067	Prep Method	N/A
Date	N/A	Analysis Method	EPA 218.6
Tech.			

Associated Samples

3325974001

Matrix Spike 3732683 (MS) 3325129001 (non-Project Sample) For QC Batch 1072067

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3732684 (MSD) 3325129001 (non-Project Sample) For QC Batch 1072067

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Hexavalent Chromium	CR6	MS	24.30	0.58	5	474*	90 - 110		
Hexavalent Chromium	CR6	MSD	24.80	0.58	5	484*	90 - 110	RPD 1.91 (Max-20)	

Lab Control Standard 3732678 (LCS) Created on 10/09/2023 11:08 For QC Batch 1072067

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Hexavalent Chromium	CR6	LCS	5		5	99.6	90 - 110		

Method Blank 3732682 (MB) Created on 10/09/2023 11:08 For QC Batch 1072067

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Hexavalent Chromium	CR6	BLK	ND	ug/L	0.020	ND

Method Blank 3732686 (MB) Created on 10/09/2023 11:08 For QC Batch 1072067

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Hexavalent Chromium	CR6	BLK	ND	ug/L	0.020	ND

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3325974001	002 Grab	N/A	N/A	N/A		EPA 218.6	1072067

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

Project Number: K2310979
Project Manager: Howard Holmes
QAP: LAB QAP

ALS Contact: Howard Holmes

3325974
Logged By: CXW
PM: SSL

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Cr6 D LL 218.6 LL
K2310979-002	002 Grab	1	Wastewater	9/27/23	1605	Middletown ALS	X

Temp By: MJE | WO Temp (°C): 3° | Therm ID: TH-573 MJE

Receipt Info Completed By:

Cooler Custody Seal Intact	Y N (NA)
Sample Custody Seal Intact	Y N (NA)
Received on Ice	(Y) N NA
Cooler & Samples Intact	(Y) N
Correct Containers Provided	(Y) N
Sample Label/COC Agree	(Y) N
Adequate Sample Volumes	(Y) N
CR6 Samples Filtered	Y (N) NA
OP Samples Filtered	Y N (NA)
VOA Trip Blank	Y N (NA)
NJ≤ 4 Days?	Y (N)
Rad Screen (uCi)	

Courier/Tracking #: 619516636380

SDWA Compliance	Y (N)
PWSID	
WV Containers 0-6°C	Y N (NA)

*No Sampler- MJE 10/3/23

Older Comments:
PDF >10MB, send Craig McKinney an email and he will send you a large file link.

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address: KLS.Data@alsglobal.com.

DES

Test is On Hold

P - Test is Authorized for Prep Only

Turnaround Requirements
____ **RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
____ **STANDARD**
Requested FAX Date: _____
Requested Report Date: 10/18/23

Report Requirements
____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
__X__ IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD N

Invoice Information
PO# 51K2310979
Bill to

Relinquished By: [signature] 10/2/23
Fedex 10/3/23 843

Received By: Fedex

Airbill Number:

3°/TH573

✓ **Ship To: Middletown ALS**
ALS Environmental - Middletown
301 Fulling Mill Rd.
Middletown, PA 17057

PC HZ Date 9/28/2023
SMO HS Date 10/4/23

Instructions:
Ice ✓
Dry Ice
No Ice

Shipping:
Overnight ✓
2nd Day
Ground

Bill to Client Account

Comments:

CERTIFICATE OF ANALYSIS

Work Order	: **WT2331782**	Page	: 1 of 2
Client	: **ALS Group USA, Corp.**	Laboratory	: ALS Environmental - Waterloo
Contact	: Howard Holmes	Account Manager	: Emily Smith
Address	: 1317 South 23th Avenue Kelso WA United States 98626	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 360 577 7222	Telephone	: +1 519 886 6910
Project	: K2310979	Date Samples Received	: 03-Oct-2023 13:25
PO	: 51K2310979	Date Analysis Commenced	: 04-Oct-2023
C-O-C number	: ----	Issue Date	: 06-Oct-2023 16:10
Sampler	: ----		
Site	: ----		
Quote number	: ALS Kelso (Waterloo)		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
mg/L	milligrams per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical Results

Sub-Matrix: **Water** (Matrix: **Water**)				*Client sample ID*	**002 Grab**	----	----	----	----
				Client sampling date / time	27-Sep-2023 16:05	----	----	----	----
Analyte	*CAS Number*	*Method/Lab*	*LOR*	*Unit*	**WT2331782-001**	---------	---------	---------	---------
					Result	----	----	----	----
Cyanides									
Cyanide, free	----	E339/WT	0.0020	mg/L	<0.0020	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2331782**	Page	: 1 of 5
Client	: **ALS Group USA, Corp.**	Laboratory	: ALS Environmental - Waterloo
Contact	: Howard Holmes	Account Manager	: Emily Smith
Address	: 1317 South 23th Avenue Kelso WA United States 98626	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 360 577 7222	Telephone	: +1 519 886 6910
Project	: K2310979	Date Samples Received	: 03-Oct-2023 13:25
PO	: 51K2310979	Issue Date	: 06-Oct-2023 16:08
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: ALS Kelso (Waterloo)		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Free Cyanide										
HDPE - total (sodium hydroxide) 002 Grab	E339	27-Sep-2023	04-Oct-2023	14 days	7 days	✓	04-Oct-2023	14 days	7 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Free Cyanide	E339	1167381	1	4	25.0	5.0	✓
Laboratory Control Samples (LCS)							
Free Cyanide	E339	1167381	1	4	25.0	5.0	✓
Method Blanks (MB)							
Free Cyanide	E339	1167381	1	4	25.0	5.0	✓
Matrix Spikes (MS)							
Free Cyanide	E339	1167381	1	4	25.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Free Cyanide	E339 ALS Environmental - Waterloo	Water	ASTM D7237 (mod)	Free Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line gas diffusion followed by colourmetric analysis.

QUALITY CONTROL REPORT

Work Order	: **WT2331782**	Page	: 1 of 3
Client	: ALS Group USA, Corp.	Laboratory	: ALS Environmental - Waterloo
Contact	: Howard Holmes	Account Manager	: Emily Smith
Address	: 1317 South 23th Avenue Kelso WA United States 98626	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: K2310979	Date Samples Received	: 03-Oct-2023 13:25
PO	: 51K2310979	Date Analysis Commenced	: 04-Oct-2023
C-O-C number	: ----	Issue Date	: 06-Oct-2023 16:08
Sampler	: ---- 360 577 7222		
Site	: ----		
Quote number	: ALS Kelso (Waterloo)		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Cyanides (QC Lot: 1167381)											
TY2309792-001	Anonymous	Cyanide, free	----	E339	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Cyanides (QCLot: 1167381)						
Cyanide, free	----	E339	0.002	mg/L	<0.0020	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Cyanides (QCLot: 1167381)									
Cyanide, free	----	E339	0.002	mg/L	0.125 mg/L	99.8	80.0	120	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Cyanides (QCLot: 1167381)										
TY2309792-001	Anonymous	Cyanide, free	----	E339	0.126 mg/L	0.125 mg/L	101	75.0	125	----

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Howard Holmes

Project Number: K2310979
Project Manager: Howard Holmes
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Misc Out 1 None
K2310979-002	002 Grab	1	Wastewater	9/27/23	1605	Waterloo ALS	X

WT2331782

Environmental Division
Waterloo
Work Order Reference
WT2331782

Telephone : +1 519 886 6910

Test Comments
Misc Out 1 - None K2310979-002 Free Cyanide by ASTM 7237 to Waterloo

Folder Comments:
If PDF >10MB, send Craig McKinney an email and he will send you a large file link.

CN-367

10/03/23 13:25
4.8°C
EC

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

NPDES

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements
____**RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
____ **STANDARD**
Requested FAX Date: _____
Requested Report Date: 10/18/23

Report Requirements
____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
__X__ IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD N

Invoice Information
PO# 51K2310979
Bill to

Relinquished By: 10/2/23 Received By: Airbill Number:

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Work Request # K2310929, 37, 44, 50, 51, 52, 79

Date Analyzed: 9-28-23

Analyst: MR Run # 818792

Analysis: Turbidity

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	(yes)/no/NA
2.	Holding times met for all analyses and for all samples?	(yes)/no/NA
3.	Are calculations correct?	(yes)/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/(NA)
5.	All quality control criteria met?	(yes)/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	(yes)/no/NA
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	(yes)/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	(yes)/no/NA
9.	Are results for methods blanks all ND?	(yes)/no/NA
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	(yes)/no/NA
11.	Are all exceptions explained?	yes/no/(NA)
12.	Have all applicable service requests been reviewed?	(yes)/no/NA
13.	Are all samples labeled correctly?	(yes)/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	(yes)/no/NA
15.	Are detection limits and units reported correctly?	(yes)/no/NA
16.	Is the unused space on the benchsheet crossed out?	(yes)/no/NA
17.	Was analysis turned in by the data due date? (If not record SR#)	(yes)/no/NA

COMMENTS:

Secondary Approved by: RRM Date: 10/3/23

DQREPORT

Analytical Results Summary

Instrument Name: K-Turbidimeter-01 **Analyst:** MRICH **Analysis Lot:** 818792 **Method/Testcode:** 180.1/Turbidity Screen

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K2310929-001	Turbidity	N/A		Drinking Water	0.32 NTU	40 mL	U	1					9/28/23 13:14:00	N	I
K2310929-002	Turbidity	N/A		Drinking Water	0.54 NTU	40 mL	U	1					9/28/23 13:18:00	N	I
K2310929-003	Turbidity	N/A		Drinking Water	0.28 NTU	40 mL	U	1					9/28/23 13:19:00	N	I
K2310929-004	Turbidity	N/A		Drinking Water	0.82 NTU	40 mL	U	1					9/28/23 13:20:00	N	I
K2310929-005	Turbidity	N/A		Drinking Water	0.27 NTU	40 mL	U	1					9/28/23 13:21:00	N	I
K2310937-001	Turbidity	N/A		Water	2.32 NTU	40 mL	2.32 NTU	1	0.04	0.20			9/28/23 15:20:00	N	I
K2310944-001	Turbidity	N/A		Water	2.83 NTU	40 mL	2.83 NTU	1	0.04	0.20			9/28/23 15:23:00	N	I
K2310944-002	Turbidity	N/A		Water	2.56 NTU	40 mL	2.56 NTU	1	0.04	0.20			9/28/23 15:30:00	N	I
K2310950-001	Turbidity	N/A		Water	4.70 NTU	40 mL	4.70 NTU	1	0.04	0.20			9/28/23 15:32:00	N	I
K2310951-001	Turbidity	N/A		Water	7.88 NTU	40 mL	7.88 NTU	1	0.04	0.20			9/28/23 15:35:00	N	I
K2310952-001	Turbidity	N/A		Water	4.23 NTU	40 mL	4.23 NTU	1	0.04	0.20			9/28/23 15:37:00	N	I
K2310979-001	Turbidity	N/A		Wastewater	4.26 NTU	40 mL	4.26 NTU	1	0.04	0.20			9/28/23 15:40:00	N	IV
KQ2317252-01	Turbidity	CCV		Drinking Water	1.06 NTU	40 mL	1.06 NTU	1					9/28/23 13:10:00	N	I
KQ2317252-01	Turbidity	CCV		Drinking Water	1.06 NTU	40 mL	1.06 NTU	1					9/28/23 13:10:00	N	I
KQ2317252-02	Turbidity	CCB		Drinking Water	0.08 NTU	40 mL	0.08 NTU J	1	0.04	0.20			9/28/23 13:11:00	N	I
KQ2317252-02	Turbidity	CCB		Drinking Water	0.08 NTU	40 mL	0.08 NTU J	1	0.04	0.20			9/28/23 13:11:00	N	I
KQ2317252-03	Turbidity	MB		Drinking Water	0.08 NTU	40 mL	0.08 NTU J	1	0.04	0.20			9/28/23 13:12:00	N	I
KQ2317252-03	Turbidity	MB		Drinking Water	0.08 NTU	40 mL	0.08 NTU J	1	0.04	0.20			9/28/23 13:12:00	N	I
KQ2317252-04	Turbidity	LCS		Drinking Water	3.81 NTU	40 mL	3.81 NTU	1	0.04	0.20	100		9/28/23 13:13:00	N	I
KQ2317252-04	Turbidity	LCS		Drinking Water	3.81 NTU	40 mL	3.81 NTU	1	0.04	0.20	100		9/28/23 13:13:00	N	I
KQ2317252-05	Turbidity	DUP	K2310929-001	Drinking Water	0.33 NTU	40 mL	0.33 NTU	1	0.04	0.20		NC	9/28/23 13:15:00	N	I
KQ2317252-06	Turbidity	CCV		Water	1.01 NTU	40 mL	1.01 NTU	1					9/28/23 15:26:00	N	I
KQ2317252-06	Turbidity	CCV		Water	1.01 NTU	40 mL	1.01 NTU	1					9/28/23 15:26:00	N	I
KQ2317252-07	Turbidity	CCB		Water	0.07 NTU	40 mL	0.07 NTU J	1	0.04	0.20			9/28/23 15:27:00	N	I
KQ2317252-07	Turbidity	CCB		Water	0.07 NTU	40 mL	0.07 NTU J	1	0.04	0.20			9/28/23 15:27:00	N	I
KQ2317252-08	Turbidity	DUP	K2310950-001	Water	4.76 NTU	40 mL	4.76 NTU	1	0.04	0.20		1	9/28/23 15:34:00	N	I
KQ2317252-09	Turbidity	CCV		Wastewater	1.04 NTU	40 mL	1.04 NTU	1					9/28/23 15:41:00	N	IV
KQ2317252-09	Turbidity	CCV		Wastewater	1.04 NTU	40 mL	1.04 NTU	1					9/28/23 15:41:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-Turbidimeter-01 **Analyst:** MRICH **Analysis Lot:** 818792 **Method/Testcode:** 180.1/Turbidity Screen

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2317252-10	Turbidity	CCB		Wastewater	0.08 NTU	40 mL	0.08 NTU J	1	0.04	0.20			9/28/23 15:42:00	N	IV
KQ2317252-10	Turbidity	CCB		Wastewater	0.08 NTU	40 mL	0.08 NTU J	1	0.04	0.20			9/28/23 15:42:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Service Request#: K2310929, 37, 44, 50, 51, 52, 79 Method: 180.1/SM 2130 B

Analysis For: Turbidity

Standardization Data	Reading	Acceptance Criteria
DI Water	0.086	<0.2
NTU 1.0(ID#19-GEN-13-99-M	1.08	1.0 ± 0.1
NTU 20(ID#19-GEN-13-94-I	20.6	20 ± 2
NTU 40(ID#19-GEN-13-95-F	37.7	40 ± 4

Sample Number	ICV	ICB	CCV	CCB	MB	LCS	10929-1(M)
Dilution	1	1	1	1	1	1	1
Time	1308	1309	1310	1311	1312	1313	1314
Reading	3.93	0.080	1.06	0.079	0.075	3.81	0.319
Result (NTU)	3.93	0.080	1.06	0.079	0.075	3.81	0.319

Sample Number	10929-1D	10929-2(M)	10929-3(M)	10929-4(M)	10929-5(M)	10937-1	10944-1
Dilution	1	1	1	1	1	1	1
Time	1315	1318	1319	1320	1321	1520	1523
Reading	0.327	0.539	0.276	0.820	0.273	2.32	2.83
Result (NTU)	0.327	0.539	0.276	0.820	0.273	2.32	2.83

Sample Number	CCV	CCB	10944-2	10950-1	10950-1D	10951-1	10952-1
Dilution	1	1	1	1	1	1	1
Time	1526	1527	1530	1532	1534	1535	1537
Reading	1.01	0.067	2.56	4.70	4.76	7.88	4.23
Result (NTU)	1.01	0.067	2.56	4.70	4.76	7.88	4.23

Sample Number	10979-1	CCV	CCB				
Dilution	1	1	1				
Time	1540	1541	1542				
Reading	4.26	1.04	0.077				
Result (NTU)	4.26	1.04	0.077				

NTU = Nephelometric Turbidity Units

LCS STOCK#: 5302-699 ID#:23-GEN-04-22-L T.V.= 3.80

LCS % REC.= 100%

CCV LOW = 1.0 NTU, CCV MID = 20 NTU CCV ID#: 19-GEN-13-99-M CCV ID#:19-GEN-13-94-I

CCV % REC: 106%, 101%, 104%

Comments:

ICV TV= 3.80

ICV % REC = 103%

Analyst: MR	Time: 1308	Date: 9-28-23
Reviewed By: RRM		Date: 10/3/23

Work Request # K2309925, 10132, 10193, 10234, 10247, 10607, 10823, 10979
I I I II II I II IV

Date Analyzed: 10-4-23

Analyst: MAS Run # 819319

Analysis: 420.1 Phenolics

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	(yes)/no/NA
2.	Holding times met for all analyses and for all samples?	(yes)/no/NA
3.	Are calculations correct?	(yes)/no/NA
4.	Is the reporting basis correct? (Dry Weight)	(yes)/no/NA
5.	All quality control criteria met?	(yes)/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	(yes)/no/NA
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	(yes)/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	(yes)/no/NA
9.	Are results for methods blanks all ND?	(yes)/no/NA
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/(no)/NA
11.	Are all exceptions explained?	(yes)/no/NA
12.	Have all applicable service requests been reviewed?	(yes)/no/NA
13.	Are all samples labeled correctly?	(yes)/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	(yes)/no/NA
15.	Are detection limits and units reported correctly?	(yes)/no/NA
16.	Is the unused space on the benchsheet crossed out?	(yes)/no/NA
17.	Was analysis turned in by the data due date? (If not record SR#)	yes/(no)/NA

COMMENTS: K2309925, 10193, 10132

-High rsd between K2310979-2 & 2dup. Results are less than 5x the MRL.

Secondary Approved by: RRM Date: 10/4/23

DQREPORT

Analytical Results Summary

Instrument Name: K-UV-VIS-06 **Analyst:** MSPECHT **Analysis Lot:** 819319 **Method/Testcode:** 420.1/Phenolics

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K2309925-002	Phenolics, Total	N/A		Water	0.03 mg/L	50 mL	0.028 mg/L	1	0.004	0.010			10/4/23 14:55:00	N	I
K2310132-003	Phenolics, Total	N/A		Water	0.12 mg/L	50 mL	116 µg/L	1	4	10			10/4/23 14:55:00	N	I
K2310132-004	Phenolics, Total	N/A		Water	0.02 mg/L	50 mL	19 µg/L	1	4	10			10/4/23 14:55:00	N	I
K2310193-001	Phenolics, Total	N/A		Water	0.31 mg/L	1.0000 mL	7800 mg/L	500	100	250			10/4/23 14:55:00	N	I
K2310234-006	Phenolics, Total	N/A		Wastewater	0.01 mg/L	50 mL	0.008 mg/L J	1	0.004	0.010			10/4/23 14:55:00	N	II
K2310247-008	Phenolics, Total	N/A		Water	0.11 mg/L	50 mL	0.107 mg/L	1	0.004	0.010			10/4/23 14:55:00	N	II
K2310607-001	Phenolics, Total	N/A		Water	0.01 mg/L	50 mL	0.010 mg/L U	1	0.004	0.010			10/4/23 14:55:00	N	I
K2310607-002	Phenolics, Total	N/A		Water	0.01 mg/L	50 mL	0.011 mg/L	1	0.004	0.010			10/4/23 14:55:00	N	I
K2310823-001	Phenolics, Total	N/A		Water	0.01 mg/L	50 mL	0.014 mg/L	1	0.004	0.010			10/4/23 14:55:00	N	II
K2310979-002	Phenolics, Total	N/A		Wastewater	0.01 mg/L	50 mL	0.014 mg/L	1	0.004	0.010			10/4/23 14:55:00	N	IV
KQ2317403-01	Phenolics, Total	MB		Water	0.01 mg/L	50 mL	0.008 mg/L J	1	0.004	0.010			10/4/23 14:55:00	N	I
KQ2317403-02	Phenolics, Total	LCS		Water	0.58 mg/L	50 mL	0.575 mg/L	1	0.004	0.010	96		10/4/23 14:55:00	N	I
KQ2317403-03	Phenolics, Total	MS	K2310979-002	Wastewater	0.38 mg/L	50 mL	0.376 mg/L	1	0.004	0.010	91		10/4/23 14:55:00	N	IV
KQ2317403-04	Phenolics, Total	DMS	K2310979-002	Wastewater	0.38 mg/L	50 mL	0.384 mg/L	1	0.004	0.010	93	2	10/4/23 14:55:00	N	IV
KQ2317403-05	Phenolics, Total	DUP	K2310979-002	Wastewater	0.01 mg/L	50 mL	0.011 mg/L	1	0.004	0.010		24*	10/4/23 14:55:00	N	IV
KQ2317456-01	Phenolics, Total	CCV		Water	0.49 mg/L	50 mL	0.493 mg/L	1					10/4/23 14:55:00	N	I
KQ2317456-02	Phenolics, Total	CCV		Water	0.49 mg/L	50 mL	0.489 mg/L	1					10/4/23 14:55:00	N	I
KQ2317456-03	Phenolics, Total	CCV		Water	0.49 mg/L	50 mL	0.485 mg/L	1					10/4/23 14:55:00	N	I
KQ2317456-04	Phenolics, Total	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L U	1	0.004	0.010			10/4/23 14:55:00	N	I
KQ2317456-05	Phenolics, Total	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L U	1	0.004	0.010			10/4/23 14:55:00	N	I
KQ2317456-06	Phenolics, Total	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L U	1	0.004	0.010			10/4/23 14:55:00	N	I

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

420.1Phenolics_10_4_2023_2:55:00_PM

05-Oct-2023 07:29 AM
Method name: Phenolics 10-4-23_C_C
Method created: 08-Dec-2022 06:56 AM
Method updated: 05-Oct-2023 07:06 AM

Instrument Serial #: 9A5A166041
Instrument model: GENESYS 150
Software Package Version: 2.6

Signature:

Sample	Absorbance(λ)	Concentration [mg/L]
icv 1	0.369	0.575
icb 1	0.005	out of range
ccv 1	0.317	0.493
ccb 1	0.005	out of range
mb 1	0.010	0.008
lcs 1	0.369	0.575
9925-2 1	0.023	0.028
10193-1 500x 1	0.202	0.312
10132-3 1	0.078	0.116
10132-4 1	0.017	0.019
10234-6 1	0.010	0.008
10607-1 1	0.009	0.006
10607-2 1	0.012	0.011
10247-8 1	0.073	0.107
ccv2 1	0.314	0.489
ccb2 1	0.005	out of range
10979-2 1	0.014	0.014
10979-2dup 1	0.012	0.011
10979-2ms 1	0.243	0.376
10979-2msd 1	0.248	0.384
10823-1 1	0.014	0.014
ccv3 1	0.312	0.485
ccb3 1	0.004	out of range

ALS Environmental
Kelso

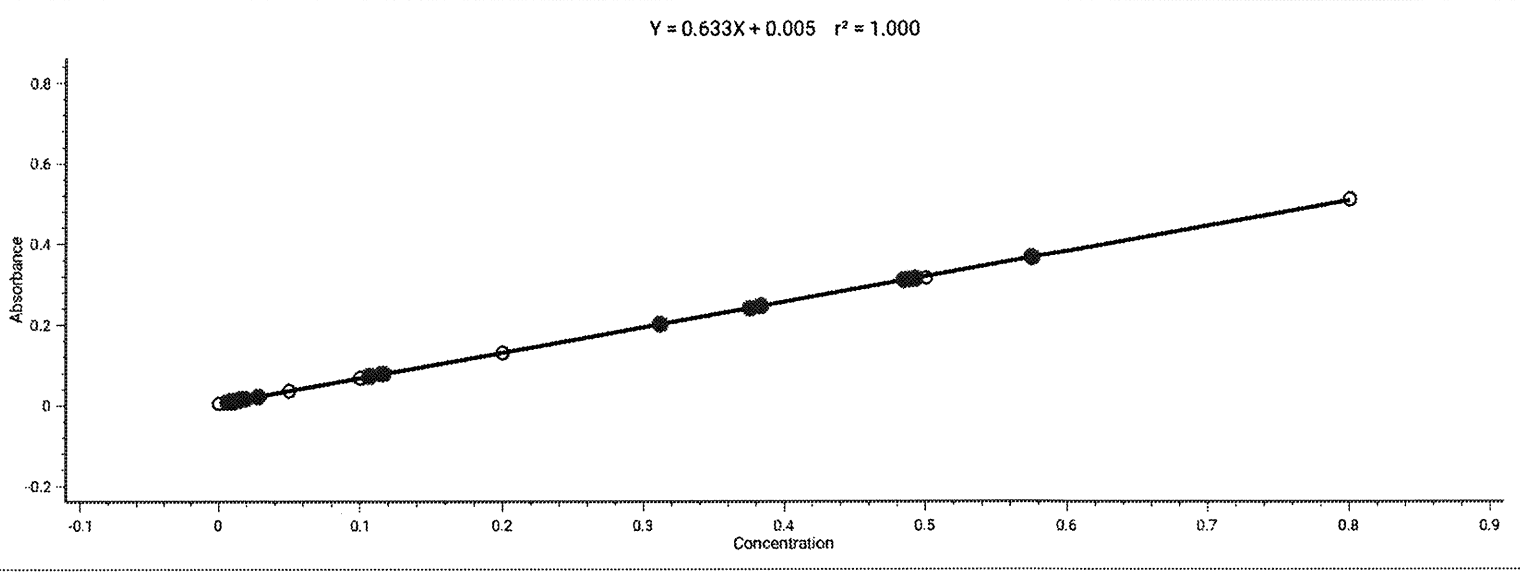
420.1Phenolics_10_4_2023_2:55:00_PM

05-Oct-2023 07:29 AM
Method name: Phenolics 10-4-23_C_C
Method created: 08-Dec-2022 06:56 AM
Method updated: 05-Oct-2023 07:06 AM

Instrument Serial #: 9A5A166041
Instrument model: GENESYS 150
Software Package Version: 2.6

Signature:

Quant method parameters	
Equation	**Y = 0.633X + 0.005**
R^2:	**1.00**
λ	**510 nm**
Reference λ	



Standard	Absorbance(λ)	Concentration [mg/L]
Standard 1	0.005	out of range
Standard 2	0.012	0.010
Standard 3	0.037	0.050
Standard 4	0.069	0.100
Standard 5	0.131	0.200
Standard 6	0.318	0.500
Standard 7	0.513	0.800

Calibration Curve Relative Error Evaluation - Inorganics

Method:	420.1 PHENOLICS
Run Number:	819319
Instrument:	K-UV-VIS-06
Date:	10/04/23

Instructions:

1) Enter slope (a) and intercept (b) from calibration raw data.
2) Enter calibration true values (do not include the origin (0,0) as a clibration point).
3) Enter the measured response for each calibration point.
4) If different than ±10%, update the %RE criteria to the method's CCV criteria.
   (Note that the low point criteria is ± 50% for all methods)
5) Reject the calibration if any standard point "Fail".

Y = aX + b

a =	0.633
b =	0.005

Standard #	True Value	Measured Response	Calculated Concetration	Percent Relative Error (%RE)	%RE Criteria	Pass/Fail
1	0.010	0.012	0.0111	10.6	50	Pass
2	0.050	0.037	0.0506	1.1	10	Pass
3	0.100	0.069	0.1011	1.1	10	Pass
4	0.200	0.131	0.1991	-0.5	10	Pass
5	0.500	0.318	0.4945	-1.1	10	Pass
6	0.800	0.513	0.8025	0.3	10	Pass
7					10	
8					10	

ALS ENVIRONMENTAL

Work Order #.: K2309925, 10193, 10132, ~~10234~~ 10234, 10607, 10247, 10979, 10823 Method: EPA 420.1/EPA 9065/EPA 9065M

Analysis: Total Phenolics

Date Prepared	Sample Name Lab Code	pH adj.to 4	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	Res. Cl_2 Yes or No	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
10·3·23	MB1	yes	50	50	NO			
	LCS1							
	9925-2							
	10193-1		1					
	10132-3		50					
	2 -4							
	10234-6							
	10607-1							
	-2							
	10247-8							
	10979-2							
	-2dup							
	-2MS							
	-2MSD							
	10823-1			N				
				A				

Comments:

LCS: 23-Gen-1-55B TV: 0.6 ppm

Phenol STD: 23-Gen-1-54I → ccv working std

ICV T.V.= (10.0 mg/L)(3.0 ml)/50 ml = 0.60 mg/L

CCV T.V. = (10.0 mg/L)(2.5 ml)/50 ml = 0.50 mg/L

MS/MSD T.V.= (10.0 mg/L)(2.0 ml)/50 ml = 0.40 mg/L

Prepared By: MAS	Date Prepared: 10·3·23
Analyzes By: MAS	Date Analyzed: 10·4·23
Reviewed By: RRM	Date Reviewed: 10/4/23

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Preparation Information Benchsheet

Prep Run#: 427584
Team: GenChem/MSPECHT
Number of Copies to make: 8

Prep WorkFlow: GenDistPhen28
Prep Method:

Status: Prepped
Prep Date/Time: 10/3/23 16:00

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2317403-01	MB		420.1/Phenolics		Liquid	50mL	50.00mL	
2	KQ2317403-02	LCS		420.1/Phenolics		Liquid	50mL	50.00mL	
3	K2309925-002	Secondary Effluent Grab	.01	420.1/Phenolics		Water	50mL	50.00mL	
4	K2310193-001	Process Water-Sept2023-wk#2 (#1-#3)	.03	420.1/Phenolics		Water	1.0000mL	50.00mL	
5	K2310132-003	Influent	.05	420.1/Phenolics		Water	50mL	50.00mL	
6	K2310132-004	Effluent	.10	420.1/Phenolics		Water	50mL	50.00mL	
7	K2310234-006	Composite	.18	420.1/Phenolics		Wastewater	50mL	50.00mL	
8	K2310607-001	CT-Q#3-2023-enter#1-enter#3	.03	420.1/Phenolics		Water	50mL	50.00mL	
9	K2310607-002	CT-Q#3-2023-exit#1-exit#3	.03	420.1/Phenolics		Water	50mL	50.00mL	
10	K2310247-008	MP006 Composite	.01	420.1/Phenolics		Water	50mL	50.00mL	
11	K2310979-002	002 Grab	.02	420.1/Phenolics		Wastewater	50mL	50.00mL	
12	KQ2317403-05	K2310979-002 DUP	.02	420.1/Phenolics		Liquid	50mL	50.00mL	
13	KQ2317403-03	K2310979-002 MS	.02	420.1/Phenolics		Liquid	50mL	50.00mL	
14	KQ2317403-04	K2310979-002 DMS	.02	420.1/Phenolics		Liquid	50mL	50.00mL	
15	K2310823-001	MTF-PP	.09	420.1/Phenolics		Water	50mL	50.00mL	

Preparation Steps

Step: Distillation
Started: 10/3/23 16:00
Finished: 10/3/23 17:30
By: MSPECHT
Comments

Comments: _____

Reviewed By: RRM Date: 10/4/23

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

ALS Environmental - Laboratory Note Sheet

Service Request Number(s):

K2310193

Sample Number	Initial Volume	Final Volume	Dilution Factor		
10193-1	0.05mL	25mL	500X		
		N/A			

Comments/Notes:

Analyst: MAS Date: 10.4.23

Reviewed: RRM Date: 10/4/23

R:\WET\ANALYSES\Dilution Benchsheet 2022

StarLims Run #: 819319

Analysis: Phenolics

Method: 420.1/9065

LCS ID#: 23-GEN-1-55B

CURVE ID #: 23-GEN-1-55H

CCV ID #: 23-GEN-1-55G

Phenol CCV Standard ID: 23-GEN-1-48E

Phenol ICV Standard ID: 23-GEN-1-48F

CCV Working STD: 23-GEN-1-54I

ICV Working STD: 23-GEN-1-55A

4 AAP ID: 23-GEN-1-55D

K3Fe(CN)6 ID: 23-GEN-1-55E

CuSO4 ID: 23-GEN-1-22E Buffer: 23-GEN-1-33C

Equipment ID: K-UV-VIS-06

PIPETTE ID: TOC-AGENT SMITH, OPHOS-ALFRED, TEALY

FILTER ID: 230598103

Analyzed By: MAS	Date Analyzed: 10/4/2023
Reviewed By: RRM	Date Reviewed: 10/4/23

Work Request # K2310823, 56, 68, 73, 908, 27, 37, 72, 79

Date Analyzed: 10-4-23

Analyst: MR Run # 819445

Analysis: CN Total

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	(yes)/no/NA
2.	Holding times met for all analyses and for all samples?	(yes)/no/NA
3.	Are calculations correct?	(yes)/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/(NA)
5.	All quality control criteria met?	(yes)/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	(yes)/no/NA
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	(yes)/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	(yes)/no/NA
9.	Are results for methods blanks all ND?	(yes)/no/NA
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	(yes)/no/NA
11.	Are all exceptions explained?	yes/no/(NA)
12.	Have all applicable service requests been reviewed?	(yes)/no/NA
13.	Are all samples labeled correctly?	(yes)/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	(yes)/no/NA
15.	Are detection limits and units reported correctly?	(yes)/no/NA
16.	Is the unused space on the benchsheet crossed out?	(yes)/no/NA
17.	Was analysis turned in by the data due date? (If not record SR#)	(yes)/no/NA

COMMENTS:

Secondary Approved by: _____ Date: 10/05/23

DQREPORT

Analytical Results Summary

Instrument Name: K-FIA-03 **Analyst:** MRICH **Analysis Lot:** 819445 **Method/Testcode:** SM 4500-CN- E/CN Amen

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K2310823-001	Cyanide, Amenable to Chlorination	N/A		Water	0.00 µg/L	50 mL	0.020 mg/L U	1	0.003	0.020			10/4/23 16:11:05	N	II
K2310823-001	Cyanide, Total	N/A		Water	-0.70 µg/L	50 mL	0.010 mg/L U	1	0.0009	0.010			10/4/23 16:11:05	N	II
K2310856-001	Cyanide, Total	N/A		Water	1.78 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	I
K2310868-001	Cyanide, Total	N/A		Water	3.21 µg/L	50 mL	0.0016 mg/L J	1	0.0009	0.0050			10/4/23 16:11:05	N	II
K2310873-001	Cyanide, Total	N/A		Water	-0.68 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	II
K2310908-001	Cyanide, Total	N/A		Ocean Water	-0.22 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	II
K2310908-002	Cyanide, Total	N/A		Ocean Water	-0.37 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	II
K2310908-003	Cyanide, Total	N/A		Ocean Water	-0.79 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	II
K2310908-004	Cyanide, Total	N/A		Ocean Water	-0.52 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	II
K2310927-001	Cyanide, Total	N/A		Wastewater	18.04 µg/L	50 mL	0.0090 mg/L	1	0.0005	0.0050			10/4/23 16:11:05	N	II
K2310927-002	Cyanide, Total	N/A		Wastewater	13.21 µg/L	50 mL	0.0066 mg/L	1	0.0005	0.0050			10/4/23 16:11:05	N	II
K2310937-001	Cyanide, Total	N/A		Water	0.03 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	I
K2310972-001	Cyanide, Total	N/A		Elutriate, Liquid	-0.47 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	Y	IV
K2310979-002	Cyanide, Total	N/A		Wastewater	0.34 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	IV
KQ2317428-01	Cyanide, Amenable to Chlorination	MB		Water	-1.13 µg/L	50 mL	0.020 mg/L U	1	0.003	0.020			10/4/23 16:11:05	N	II
KQ2317428-02	Cyanide, Amenable to Chlorination	LCS		Water	159.49 µg/L	50 mL	0.0797 mg/L	1	0.003	0.020	106		10/4/23 16:11:05	N	II
KQ2317428-03	Cyanide, Amenable to Chlorination	DLCS		Water	160.52 µg/L	50 mL	0.0803 mg/L	1	0.003	0.020	107	<1	10/4/23 16:11:05	N	II
KQ2317430-01	Cyanide, Total	MB		Water	-1.13 µg/L	50 mL	0.0050 mg/L U	1	0.0009	0.0050			10/4/23 16:11:05	N	II
KQ2317430-01	Cyanide, Total	MB		Water	-1.13 µg/L	50 mL	0.010 mg/L U	1	0.0009	0.010			10/4/23 16:11:05	N	II
KQ2317430-01	Cyanide, Total	MB		Water	-1.13 µg/L	50 mL	0.0050 mg/L U	1	0.0005	0.0050			10/4/23 16:11:05	N	II
KQ2317430-01	Cyanide, Total	MB		Water	-1.13 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	II
KQ2317430-02	Cyanide, Total	LCS		Water	159.49 µg/L	50 mL	0.0797 mg/L	1	0.0009	0.0050	106		10/4/23 16:11:05	N	II
KQ2317430-02	Cyanide, Total	LCS		Water	159.49 µg/L	50 mL	0.0797 mg/L	1	0.0009	0.010	106		10/4/23 16:11:05	N	II
KQ2317430-02	Cyanide, Total	LCS		Water	159.49 µg/L	50 mL	0.0797 mg/L	1	0.0005	0.0050	106		10/4/23 16:11:05	N	II
KQ2317430-02	Cyanide, Total	LCS		Water	159.49 µg/L	50 mL	0.0797 mg/L	1	0.0005	0.020	106		10/4/23 16:11:05	N	II
KQ2317430-03	Cyanide, Total	DLCS		Water	160.52 µg/L	50 mL	0.0803 mg/L	1	0.0009	0.0050	107	<1	10/4/23 16:11:05	N	II
KQ2317430-03	Cyanide, Total	DLCS		Water	160.52 µg/L	50 mL	0.0803 mg/L	1	0.0009	0.010	107	<1	10/4/23 16:11:05	N	II
KQ2317430-03	Cyanide, Total	DLCS		Water	160.52 µg/L	50 mL	0.0803 mg/L	1	0.0005	0.0050	107	<1	10/4/23 16:11:05	N	II
KQ2317430-03	Cyanide, Total	DLCS		Water	160.52 µg/L	50 mL	0.0803 mg/L	1	0.0005	0.020	107	<1	10/4/23 16:11:05	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-FIA-03 **Analyst:** MRICH **Analysis Lot:** 819445 **Method/Testcode:** SM 4500-CN- E/CN T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2317430-04	Cyanide, Total	DUP	K2310972-001	Elutriate, Liquid	-0.61 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020		NC	10/4/23 16:11:05	N	IV
KQ2317430-05	Cyanide, Total	MS	K2310972-001	Elutriate, Liquid	199.19 µg/L	50 mL	0.100 mg/L	1	0.0005	0.020	100		10/4/23 16:11:05	N	IV
KQ2317430-06	Cyanide, Total	DMS	K2310972-001	Elutriate, Liquid	201.79 µg/L	50 mL	0.101 mg/L	1	0.0005	0.020	101	1	10/4/23 16:11:05	N	IV
KQ2317481-01	Cyanide, Amenable to Chlorination	CCV		Elutriate, Liquid	97.92 µg/L	50 mL	97.9 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-01	Cyanide, Total	CCV		Elutriate, Liquid	97.92 µg/L	50 mL	97.9 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-01	Cyanide, Total	CCV		Elutriate, Liquid	97.92 µg/L	50 mL	97.9 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-01	Cyanide, Total	CCV		Elutriate, Liquid	97.92 µg/L	50 mL	97.9 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-01	Cyanide, Total	CCV		Elutriate, Liquid	97.92 µg/L	50 mL	97.9 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-02	Cyanide, Amenable to Chlorination	CCV		Elutriate, Liquid	97.70 µg/L	50 mL	97.7 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-02	Cyanide, Total	CCV		Elutriate, Liquid	97.70 µg/L	50 mL	97.7 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-02	Cyanide, Total	CCV		Elutriate, Liquid	97.70 µg/L	50 mL	97.7 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-02	Cyanide, Total	CCV		Elutriate, Liquid	97.70 µg/L	50 mL	97.7 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-02	Cyanide, Total	CCV		Elutriate, Liquid	97.70 µg/L	50 mL	97.7 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-03	Cyanide, Amenable to Chlorination	CCV		Elutriate, Liquid	102.33 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-03	Cyanide, Total	CCV		Elutriate, Liquid	102.33 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-03	Cyanide, Total	CCV		Elutriate, Liquid	102.33 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-03	Cyanide, Total	CCV		Elutriate, Liquid	102.33 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-03	Cyanide, Total	CCV		Elutriate, Liquid	102.33 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-04	Cyanide, Amenable to Chlorination	CCV		Elutriate, Liquid	102.20 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-04	Cyanide, Total	CCV		Elutriate, Liquid	102.20 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-04	Cyanide, Total	CCV		Elutriate, Liquid	102.20 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-04	Cyanide, Total	CCV		Elutriate, Liquid	102.20 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-04	Cyanide, Total	CCV		Elutriate, Liquid	102.20 µg/L	50 mL	102 µg/L	1					10/4/23 16:11:05	N	IV
KQ2317481-05	Cyanide, Amenable to Chlorination	CCB		Elutriate, Liquid	-0.06 µg/L	50 mL	0.020 mg/L U	1	0.003	0.020			10/4/23 16:11:05	N	IV
KQ2317481-05	Cyanide, Total	CCB		Elutriate, Liquid	-0.06 µg/L	50 mL	0.0050 mg/L U	1	0.0009	0.0050			10/4/23 16:11:05	N	IV
KQ2317481-05	Cyanide, Total	CCB		Elutriate, Liquid	-0.06 µg/L	50 mL	0.010 mg/L U	1	0.0009	0.010			10/4/23 16:11:05	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-FIA-03 **Analyst:** MRICH **Analysis Lot:** 819445 **Method/Testcode:** SM 4500-CN- E/CN T LL

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ2317481-05	Cyanide, Total	CCB		Elutriate, Liquid	-0.06 µg/L	50 mL	0.0050 mg/L U	1	0.0005	0.0050			10/4/23 16:11:05	N	IV
KQ2317481-05	Cyanide, Total	CCB		Elutriate, Liquid	-0.06 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	IV
KQ2317481-06	Cyanide, Amenable to Chlorination	CCB		Elutriate, Liquid	0.61 µg/L	50 mL	0.020 mg/L U	1	0.003	0.020			10/4/23 16:11:05	N	IV
KQ2317481-06	Cyanide, Total	CCB		Elutriate, Liquid	0.61 µg/L	50 mL	0.0050 mg/L U	1	0.0009	0.0050			10/4/23 16:11:05	N	IV
KQ2317481-06	Cyanide, Total	CCB		Elutriate, Liquid	0.61 µg/L	50 mL	0.010 mg/L U	1	0.0009	0.010			10/4/23 16:11:05	N	IV
KQ2317481-06	Cyanide, Total	CCB		Elutriate, Liquid	0.61 µg/L	50 mL	0.0050 mg/L U	1	0.0005	0.0050			10/4/23 16:11:05	N	IV
KQ2317481-06	Cyanide, Total	CCB		Elutriate, Liquid	0.61 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	IV
KQ2317481-07	Cyanide, Amenable to Chlorination	CCB		Elutriate, Liquid	0.77 µg/L	50 mL	0.020 mg/L U	1	0.003	0.020			10/4/23 16:11:05	N	IV
KQ2317481-07	Cyanide, Total	CCB		Elutriate, Liquid	0.77 µg/L	50 mL	0.0050 mg/L U	1	0.0009	0.0050			10/4/23 16:11:05	N	IV
KQ2317481-07	Cyanide, Total	CCB		Elutriate, Liquid	0.77 µg/L	50 mL	0.010 mg/L U	1	0.0009	0.010			10/4/23 16:11:05	N	IV
KQ2317481-07	Cyanide, Total	CCB		Elutriate, Liquid	0.77 µg/L	50 mL	0.0050 mg/L U	1	0.0005	0.0050			10/4/23 16:11:05	N	IV
KQ2317481-07	Cyanide, Total	CCB		Elutriate, Liquid	0.77 µg/L	50 mL	0.020 mg/L U	1	0.0005	0.020			10/4/23 16:11:05	N	IV
KQ2317481-08	Cyanide, Amenable to Chlorination	CCB		Elutriate, Liquid	1.03 µg/L	50 mL	0.020 mg/L U	1	0.003	0.020			10/4/23 16:11:05	N	IV
KQ2317481-08	Cyanide, Total	CCB		Elutriate, Liquid	1.03 µg/L	50 mL	0.0050 mg/L U	1	0.0009	0.0050			10/4/23 16:11:05	N	IV
KQ2317481-08	Cyanide, Total	CCB		Elutriate, Liquid	1.03 µg/L	50 mL	0.010 mg/L U	1	0.0009	0.010			10/4/23 16:11:05	N	IV
KQ2317481-08	Cyanide, Total	CCB		Elutriate, Liquid	1.03 µg/L	50 mL	0.0005 mg/L J	1	0.0005	0.0050			10/4/23 16:11:05	N	IV
KQ2317481-08	Cyanide, Total	CCB		Elutriate, Liquid	1.03 µg/L	50 mL	0.0005 mg/L J	1	0.0005	0.020			10/4/23 16:11:05	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Author: Omnion User

Date : 10/4/2023

Original Run Filename: OM_10-4-2023_04-11-05PM.OMN created 10/4/2023 4:11:05 PM
Original Run Author's Signature: [Omnion User]
Current Run Filename: OM_10-4-2023_04-11-05PM.OMN last modified 10/4/2023 4:41:34 PM
Current Run Author's Signature: [Omnion User]
Description: 10-107-04-1-C

Sample	Rep.	Channel 2 Cyanide (ug/L)	
ICV	1	146.003	97%.
ICB	1	1.555	
Calibration:		Table/Fig. 1	
CCV	1	97.917	98%.
Known Conc:		100.000	
CCB	1	-0.059	
Known Conc:		0.000	
MB	1	-1.131	
LCS	1	159.486	106%.
DLCS	1	160.522	107%.
0.15*2	1	162.155	108%.
0.05	1	104.726	105%
K2310868-001	1	3.209	
K2310823-001	1	-0.700	-ICN Total for amenable calculation. CN amenable = 0. MR 10-4-23
K2310927-001	1	18.044	
K2310927-002	1	13.214	
K2310873-001	1	-0.682	
CCV	1	97.696	98%.
Known Conc:		100.000	
CCB	1	0.614	
Known Conc:		0.000	
K2310856-001	1	1.776	
K2310937-001	1	0.034	
K2310908-001	1	-0.216	
K2310908-002	1	-0.370	
K2310908-003	1	-0.786	
K2310908-004	1	-0.518	
K2310979-002	1	0.340	
K2310972-001	1	-0.466	
K2310972-001 DUP	1	-0.612	
K2310972-001 MS	1	199.189	100%.
CCV	1	102.326	102%.
Known Conc:		100.000	
CCB	1	0.767	
Known Conc:		0.000	
K2310972-001 DMS	1	201.794	101%.
CCV	1	102.195	102%.
Known Conc:		100.000	
CCB	1	1.033	
Known Conc:		0.000	

Table 1: Cyanide

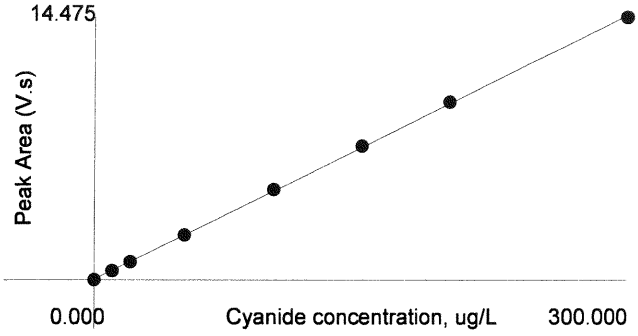
	Known Conc. (ug/L)	Rep	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc. (ug/L)	Detection Date	Detection Time
1	300.000	1	14.475	0.870	0.0	0.8	297.662	10/4/2023	3:47:39 PM
2	200.000	1	9.829	0.591	0.0	-0.8	201.680	10/4/2023	3:48:30 PM
3	150.000	1	7.397	0.446	0.0	-1.0	151.446	10/4/2023	3:49:21 PM
4	100.000	1	4.980	0.301	0.0	-1.5	101.510	10/4/2023	3:50:13 PM
5	50.000	1	2.490	0.152	0.0	-0.1	50.076	10/4/2023	3:51:06 PM
6	20.000	1	1.004	0.061	0.0	3.1	19.360	10/4/2023	3:51:59 PM
7	10.000	1	0.511	0.032	0.0	7.3	9.185	10/4/2023	3:52:54 PM
8	0.000	1	0.022	2.652e-3			-0.920	10/4/2023	3:53:49 PM

Author: Omnion User

Date : 10/4/2023

MR 10-4-23

Figure 1: Cyanide



Area = 0.048 * Conc + 0.067
Conc = 20.658 * Area - 1.374
Correlation Coefficient (r) = 0.99991

No Weighting

Preparation Information Benchsheet

Prep Run#: 427618
Team: GenChem/MRICH
Number of Copies to make: 9

Prep WorkFlow: Gen Dist CN
Prep Method:

Status: Prepped
Prep Date/Time: 10/4/23 13:55

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2317430-01	MB		335.4/CN T LL		Liquid	50mL	25.00mL	
2	KQ2317430-01	MB		335.4/CN T		Liquid	50mL	25.00mL	
3	KQ2317430-01	MB		SM 4500-CN- E/CN T LL		Liquid	50mL	25.00mL	
4	KQ2317430-01	MB		SM 4500-CN- E/CN T		Liquid	50mL	25.00mL	
5	KQ2317430-02	LCS		335.4/CN T LL		Liquid	50mL	25.00mL	
6	KQ2317430-02	LCS		335.4/CN T		Liquid	50mL	25.00mL	
7	KQ2317430-02	LCS		SM 4500-CN- E/CN T LL		Liquid	50mL	25.00mL	
8	KQ2317430-02	LCS		SM 4500-CN- E/CN T		Liquid	50mL	25.00mL	
9	KQ2317430-03	DLCS		335.4/CN T LL		Liquid	50mL	25.00mL	
10	KQ2317430-03	DLCS		335.4/CN T		Liquid	50mL	25.00mL	
11	KQ2317430-03	DLCS		SM 4500-CN- E/CN T LL		Liquid	50mL	25.00mL	
12	KQ2317430-03	DLCS		SM 4500-CN- E/CN T		Liquid	50mL	25.00mL	
13	K2310868-001	SKS Effluent	.06	335.4/CN T LL		Water	50mL	25.00mL	
14	K2310823-001	MTF-PP	.11	335.4/CN T		Water	50mL	25.00mL	
15	K2310927-001	23I4055-01	.01	SM 4500-CN- E/CN T LL		Wastewater	50mL	25.00mL	
16	K2310927-002	23I4055-02	.01	SM 4500-CN- E/CN T LL		Wastewater	50mL	25.00mL	
17	K2310873-001	Water	.05	SM 4500-CN- E/CN T		Water	50mL	25.00mL	
18	K2310856-001	002	.02	SM 4500-CN- E/CN T		Water	50mL	25.00mL	
19	K2310937-001	Discharge 01	.01	SM 4500-CN- E/CN T		Water	50mL	25.00mL	
20	K2310908-001	23I3093-02	.01	SM 4500-CN- E/CN T		Ocean Water	50mL	25.00mL	
21	K2310908-002	23I3093-03	.01	SM 4500-CN- E/CN T		Ocean Water	50mL	25.00mL	
22	K2310908-003	23I3093-04	.01	SM 4500-CN- E/CN T		Ocean Water	50mL	25.00mL	
23	K2310908-004	23I3093-05	.01	SM 4500-CN- E/CN T		Ocean Water	50mL	25.00mL	
24	K2310979-002	002 Grab	.08	SM 4500-CN- E/CN T		Wastewater	50mL	25.00mL	
25	K2310972-001	08-17-2023-C31-Elutriate-T	.27	SM 4500-CN- E/CN T		Elutriate, Liquid	50mL	25.00mL	
26	KQ2317430-04	K2310972-001 DUP	.27	SM 4500-CN- E/CN T		Liquid	50mL	25.00mL	
27	KQ2317430-05	K2310972-001 MS	.27	SM 4500-CN- E/CN T		Liquid	50mL	25.00mL	
28	KQ2317430-06	K2310972-001 DMS	.27	SM 4500-CN- E/CN T		Liquid	50mL	25.00mL	

Spiking Solutions

Name: Cyanide Working LCS Total Inventory ID 230784 Logbook Ref: 19-GEN-10-89-H Expires On: 10/09/2023

KQ2317430-02 0.38mL KQ2317430-02 0.38mL KQ2317430-02 0.38mL KQ2317430-02 0.38mL KQ2317430-03 0.38mL KQ2317430-03 0.38mL
KQ2317430-03 0.38mL KQ2317430-03 0.38mL

Preparation Information Benchsheet

Prep Run#: 427618
Team: GenChem/MRICH

Prep WorkFlow: Gen Dist CN
Prep Method:

Status: Prepped
Prep Date/Time: 10/4/23 13:55

Name:	Cyanide Working CCV	Inventory ID	231504	Logbook Ref:	19-GEN-10-90-F	Expires On:	10/27/2023

KQ2317430-05 0.50mL KQ2317430-06 0.50mL

Preparation Steps

Step: Distillation
Started: 10/4/23 13:55
Finished: 10/4/23 15:25
By: MRICH
Comments

Comments: _____

Reviewed By: _____ Date: 10/05/23

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Printed 10/4/23 16:10 MR 10-4-23

Preparation Information Benchsheet

Prep Run#: 427579
Team: GenChem/MRICH
Number of Copies to make: 1

Prep WorkFlow: Gen CN Amen
Prep Method: SM 4500-CN- G

Status: Prepped
Prep Date/Time: 10/4/23 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2317428-01	MB		SM 4500-CN- E/CN Amen		Liquid	50mL	25.00mL	
2	KQ2317428-02	LCS		SM 4500-CN- E/CN Amen		Liquid	50mL	25.00mL	
3	KQ2317428-03	DLCS		SM 4500-CN- E/CN Amen		Liquid	50mL	25.00mL	
4	K2310823-001	MTF-PP	.11	SM 4500-CN- E/CN Amen		Water	50mL	25.00mL	

Spiking Solutions

Name: Cyanide Working LCS Total Inventory ID 230784 Logbook Ref: 19-GEN-10-89-H Expires On: 10/09/2023

KQ2317428-02 0.38mL KQ2317428-03 0.38mL

Preparation Steps

Step: Chlorination
Started: 10/4/23 09:00
Finished: 10/4/23 09:00
By: MRICH
Comments

Step: Distillation
Started: 10/4/23 13:55
Finished: 10/4/23 15:25
By: MRICH
Comments

Comments: _____

Reviewed By: _____ Date: 10/05/23

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Printed 10/4/23 16:28 MR 10-4-23

Calibration Curve Relative Error Evaluation - Inorganics

Method:	335.4 / SM-4500-CN-E
Run Number:	819445
Instrument:	K-FIA-03
Date:	10/04/23

Instructions:

1) Enter slope (a) and intercept (b) from calibration raw data.
2) Enter calibration true values (do not include the origin (0,0) as a clibration point).
3) Enter the measured response for each calibration point.
4) If different than ±10%, update the %RE criteria to the method's CCV criteria.
   (Note that the low point criteria is ± 50% for all methods)
5) Reject the calibration if any standard point "Fail".

Y = aX + b

a =	0.048
b =	0.067

Standard #	True Value	Measured Response	Calculated Concetration	Percent Relative Error (%RE)	%RE Criteria	Pass/Fail
1	10.000	0.511	9.2500	-7.5	50	Pass
2	20.000	1.004	19.5208	-2.4	10	Pass
3	50.000	2.490	50.4792	1.0	10	Pass
4	100.000	4.980	102.3542	2.4	10	Pass
5	150.000	7.397	152.7083	1.8	10	Pass
6	200.000	9.829	203.3750	1.7	10	Pass
7	300	14.475	300.1667	0.1	10	Pass
8					10	

Run #: 819445

Analysis: Total Cyanide

Method: SM 4500-CN-E

LCS ID: 19-GEN-10-89-H	TV = 150 ppb	Exp: 10/9/23
Curve/CCV ID: 19-GEN-10-90-J	TV = 100 ppb	Exp: 10/11/23
ICV ID: 19-GEN-10-90-K	TV = 150 ppb	Exp: 10/11/23
Spike ID: 19-GEN-10-90-F	TV = 200 ppb	Exp: 10/27/23
0.25 NaOH ID: 19-GEN-10-82-I		Exp: 12/24/23
Sulfamic Acid ID: 19-GEN-10-90-E		Exp: 3/28/24
Conc. Sulfuric Acid: 19-GEN-13-92-J		Exp: 1/31/28
MgCl2 ID: 19-GEN-10-87-M		Exp: 2/12/24
Chloramine T ID: 19-GEN-10-90-L		Exp: 10/4/23
Phosphate Buffer ID: 19-GEN-10-84-D		Exp: 1/8/24
Pyridine Barbuturic Acid: 19-GEN-10-90-D		Exp: 3/28/24

Pipette ID: H35458H, 42581184

30 mL Tube: P7613369

Equipment ID#: K-HOTBLOCK-02, K-FIA-03

FIA wavelength: 570 nm

pH Lot: 234921V

Analyzed By: MR	Date Analyzed: 10/4/2023
Reviewed By:	Date Reviewed: 10/05/23

Work Request # K2310823, 941, 79

Date Analyzed: 10-4-23

Analyst: MR Run # B19447

Analysis: CN WAD

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
9.	Are results for methods blanks all ND?	yes/no/NA
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
11.	Are all exceptions explained?	yes/no/NA
12.	Have all applicable service requests been reviewed?	yes/no/NA
13.	Are all samples labeled correctly?	yes/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	yes/no/NA
15.	Are detection limits and units reported correctly?	yes/no/NA
16.	Is the unused space on the benchsheet crossed out?	yes/no/NA
17.	Was analysis turned in by the data due date? (If not record SR#)	yes/no/NA

COMMENTS:

Secondary Approved by: _____ Date: 10/05/23

DQREPORT

Analytical Results Summary

Instrument Name: K-FIA-03 **Analyst:** MRICH **Analysis Lot:** 819447 **Method/Testcode:** SM 4500-CN- E/CN WAD

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K2310823-001	Cyanide, Weak Acid Dissociable (WAD)	N/A		Water	-0.70 µg/L	50 mL	0.020 mg/L U	1	0.0008	0.020			10/4/23 16:53:41	N	II
K2310941-001	Cyanide, Weak Acid Dissociable (WAD)	N/A		Surface Water	6.92 µg/L	50 mL	10 µg/L U	1	0.8	10			10/4/23 16:53:41	N	II
K2310979-002	Cyanide, Weak Acid Dissociable (WAD)	N/A		Wastewater	2.62 µg/L	50 mL	0.001 mg/L J	1	0.0008	0.020			10/4/23 16:53:41	N	IV
KQ2317429-01	Cyanide, Weak Acid Dissociable (WAD)	MB		Water	-1.20 µg/L	50 mL	0.020 mg/L U	1	0.0008	0.020			10/4/23 16:53:41	N	II
KQ2317429-02	Cyanide, Weak Acid Dissociable (WAD)	LCS		Water	159.82 µg/L	50 mL	0.0799 mg/L	1	0.0008	0.020	107		10/4/23 16:53:41	N	II
KQ2317429-03	Cyanide, Weak Acid Dissociable (WAD)	DLCS		Water	164.88 µg/L	50 mL	0.0824 mg/L	1	0.0008	0.020	110	3	10/4/23 16:53:41	N	II
KQ2317521-01	Cyanide, Weak Acid Dissociable (WAD)	CCV		Wastewater	98.06 µg/L	50 mL	98.1 µg/L	1					10/4/23 16:53:41	N	IV
KQ2317521-02	Cyanide, Weak Acid Dissociable (WAD)	CCV		Wastewater	99.32 µg/L	50 mL	99.3 µg/L	1					10/4/23 16:53:41	N	IV
KQ2317521-03	Cyanide, Weak Acid Dissociable (WAD)	CCB		Wastewater	0.80 µg/L	50 mL	0.020 mg/L U	1	0.0008	0.020			10/4/23 16:53:41	N	IV
KQ2317521-04	Cyanide, Weak Acid Dissociable (WAD)	CCB		Wastewater	0.98 µg/L	50 mL	0.020 mg/L U	1	0.0008	0.020			10/4/23 16:53:41	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Author: Omnion User

Date : 10/4/2023

MLE 10-11-23

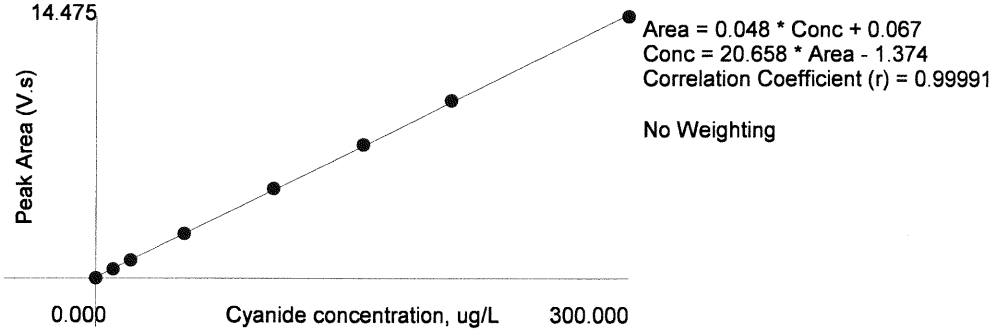
Original Run Filename: OM_10-4-2023_04-53-41PM.OMN created 10/4/2023 4:53:41 PM
Original Run Author's Signature: [Omnion User]
Current Run Filename: OM_10-4-2023_04-53-41PM.OMN last modified 10/4/2023 5:08:28 PM
Current Run Author's Signature: [Omnion User]
Description: 10-107-04-1-C

Sample	Rep.	Channel 2 Cyanide (ug/L)	
ICV	1	147.384	98%
ICB	1	1.697	
Calibration:		Table/Fig. 1	
CCV	1	98.058	98%
Known Conc:		100.000	
CCB	1	0.801	
Known Conc:		0.000	
MB	1	-1.196	
LCS	1	159.824	107%
DLCS	1	164.879	110%
0.1	1	220.061	110%
K2310941-001 WAD	1	6.918	
K2310979-002 WAD	1	2.618	
K2310823-001 WAD	1	-0.703	
CCV	1	99.315	99%
Known Conc:		100.000	
CCB	1	0.982	
Known Conc:		0.000	

Table 1: Cyanide

	Known Conc. (ug/L)	Rep	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc. (ug/L)	Detection Date	Detection Time
1	300.000	1	14.475	0.870	0.0	0.8	297.662	10/4/2023	3:47:39 PM
2	200.000	1	9.829	0.591	0.0	-0.8	201.680	10/4/2023	3:48:30 PM
3	150.000	1	7.397	0.446	0.0	-1.0	151.446	10/4/2023	3:49:21 PM
4	100.000	1	4.980	0.301	0.0	-1.5	101.510	10/4/2023	3:50:13 PM
5	50.000	1	2.490	0.152	0.0	-0.1	50.076	10/4/2023	3:51:06 PM
6	20.000	1	1.004	0.061	0.0	3.1	19.360	10/4/2023	3:51:59 PM
7	10.000	1	0.511	0.032	0.0	7.3	9.185	10/4/2023	3:52:54 PM
8	0.000	1	0.022	2.652e-3			-0.920	10/4/2023	3:53:49 PM

Figure 1: Cyanide



Preparation Information Benchsheet

Prep Run#: 427619
Team: GenChem/MRICH
Number of Copies to make: 3

Prep WorkFlow: GenDistWAD-CN
Prep Method:

Status: Prepped
Prep Date/Time: 10/4/23 13:55

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2317429-01	MB		SM 4500-CN- E/CN WAD		Liquid	50mL	25.00mL	
2	KQ2317429-02	LCS		SM 4500-CN- E/CN WAD		Liquid	50mL	25.00mL	
3	KQ2317429-03	DLCS		SM 4500-CN- E/CN WAD		Liquid	50mL	25.00mL	
4	K2310823-001	MTF-PP	.11	SM 4500-CN- E/CN WAD		Water	50mL	25.00mL	
5	K2310941-001	FKR2DS230927402	.04	SM 4500-CN- E/CN WAD		Surface Water	50mL	25.00mL	
6	K2310979-002	002 Grab	.08	SM 4500-CN- E/CN WAD		Wastewater	50mL	25.00mL	

Spiking Solutions

Name: LCS WAD Inventory ID 231336 Logbook Ref: 19-GEN-10-89-N Expires On: 10/12/2023

KQ2317429-02 0.38mL KQ2317429-03 0.38mL

Preparation Steps

Step: Distillation
Started: 10/4/23 13:55
Finished: 10/4/23 14:55
By: MRICH
Comments

Comments: _____

Reviewed By: _____ Date: 10/05/23

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Printed 10/4/23 16:15 MR 10-4-23

Run #: 819447

Analysis: Cyanide WAD

Method: SM 4500-CN-E / WAD

LCS ID: 19-GEN-10-89-H	TV = 150 ppb	Exp: 10/9/23
Curve/CCV ID: 19-GEN-10-90-J	TV = 100 ppb	Exp: 10/11/23
ICV ID: 19-GEN-10-90-K	TV = 150 ppb	Exp: 10/11/23
Spike ID: 19-GEN-10-90-F	TV = 200 ppb	Exp: 10/27/23
0.25 NaOH ID: 19-GEN-10-82-I		Exp: 12/24/23
Methyl Red: 19-GEN-13-99-D		Exp: 12/2024
Acetate Buffer ID: 19-GEN-10-81-G		Exp: 1/2/24
Zn Acetate ID: 19-GEN-10-81-H		Exp: 1/2/24
Glacial Acetic Acid ID: 19-GEN-13-71-K		Exp: 11/2/23
Chloramine T ID: 19-GEN-10-90-L		Exp: 10/4/23
Phosphate Buffer ID: 19-GEN-10-84-D		Exp: 1/8/24
Pyridine Barbuturic Acid: 19-GEN-10-90-D		Exp: 3/28/24

Pipette ID: H35458H, 42581184

30 mL Tube: P7613369

Equipment ID#: K-HOTBLOCK-02, K-FIA-03

FIA wavelength: 570 nm

pH Lot: 234921V

Analyzed By: MR	Date Analyzed: 10/4/2023
Reviewed By:	Date Reviewed: 10/05/23

Calibration Curve Relative Error Evaluation - Inorganics

Method:	SM-4500-CN-E WAD
Run Number:	819447
Instrument:	K-FIA-03
Date:	10/04/23

Instructions:

1) Enter slope (a) and intercept (b) from calibration raw data.
2) Enter calibration true values (do not include the origin (0,0) as a clibration point).
3) Enter the measured response for each calibration point.
4) If different than ±10%, update the %RE criteria to the method's CCV criteria.
   (Note that the low point criteria is ± 50% for all methods)
5) Reject the calibration if any standard point "Fail".

Y = aX + b

a =	0.048
b =	0.067

Standard #	True Value	Measured Response	Calculated Concetration	Percent Relative Error (%RE)	%RE Criteria	Pass/Fail
1	10.000	0.511	9.2500	-7.5	50	Pass
2	20.000	1.004	19.5208	-2.4	10	Pass
3	50.000	2.490	50.4792	1.0	10	Pass
4	100.000	4.980	102.3542	2.4	10	Pass
5	150.000	7.397	152.7083	1.8	10	Pass
6	200.000	9.829	203.3750	1.7	10	Pass
7	300	14.475	300.1667	0.1	10	Pass
8					10	

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 427437
Team: Metals/ABOYER
Number of Copies to make: 6

Prep WorkFlow: MetDigAqMS
Prep Method: EPA CLP ILM04.0

Status: Prepped
Prep Date/Time: 10/3/23 17:17

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2317266-01	MB		200.8/Metals T		Liquid	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
2	KQ2317266-02	LCS		200.8/Metals T		Liquid	10.0000mL	10.30mL	1% HNO3, 0.2% HCl
3	K2310247-007	MP006 0907	.05	200.8/Metals T		Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
4	K2310642-001	15PN-E	.01	200.8/Metals T		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
5	K2310642-001	15PN-E	.02	200.8/Metals D		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
6	KQ2317266-05	K2310642-001 DUP	.01	200.8/Metals T		Liquid	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
7	KQ2317266-06	K2310642-001 MS	.01	200.8/Metals T		Liquid	10.0000mL	10.30mL	1% HNO3, 0.2% HCl
8	K2310727-001	14PN-G	.01	200.8/Metals T		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
9	K2310727-001	14PN-G	.02	200.8/Metals D		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
10	K2310727-002	15PN-C	.01	200.8/Metals T		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
11	K2310727-002	15PN-C	.02	200.8/Metals D		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
12	K2310734-001	10JD01A	.03	200.8/Metals T		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
13	K2310734-001	10JD01A	.05	200.8/Metals D		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
14	K2310734-002	10JD02	.03	200.8/Metals T		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
15	K2310734-002	10JD02	.05	200.8/Metals D		Ground Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
16	K2310979-003	002 Composite	.13	200.8/Metals T		Wastewater	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
17	KQ2317266-03	K2310979-003 DUP	.13	200.8/Metals T		Liquid	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
18	KQ2317266-04	K2310979-003 MS	.13	200.8/Metals T		Liquid	10.0000mL	10.30mL	1% HNO3, 0.2% HCl
19	K2311042-011	EKC-CR11	.12	200.8/Metals D		Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
20	K2311042-011	EKC-CR11	.13	200.8/Metals T		Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
21	K2311042-012	EKC-CR12	.12	200.8/Metals D		Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
22	K2311042-012	EKC-CR12	.13	200.8/Metals T		Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
23	K2311042-013	EKC-CR03D	.12	200.8/Metals D		Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
24	K2311042-013	EKC-CR03D	.13	200.8/Metals T		Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
25	K2311042-014	EKC-CR11D	.12	200.8/Metals D		Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl
26	K2311042-014	EKC-CR11D	.13	200.8/Metals T		Water	10.0000mL	10.00mL	1% HNO3, 0.2% HCl

Spiking Solutions

Name: k-met 1/100 QCP CICV-1 Inventory ID 226366 Logbook Ref: MET4-38-D Expires On: 12/01/2023

KQ2317266-02 0.10mL KQ2317266-04 0.10mL KQ2317266-06 0.10mL

Name: k-met 1/100 QCP-CICV-3 Inventory ID 227924 Logbook Ref: MET4-41-E Expires On: 03/02/2024

KQ2317266-02 0.10mL KQ2317266-04 0.10mL KQ2317266-06 0.10mL

Preparation Information Benchsheet

Prep Run#: 427437
Team: Metals/ABOYER

Prep WorkFlow: MetDigAqMS
Prep Method: EPA CLP ILM04.0

Status: Prepped
Prep Date/Time: 10/3/23 17:17

Name:	K-MET Mo/U 5ppm	Inventory ID	229694	Logbook Ref:	MET4-47-D	Expires On:	06/27/2024

KQ2317266-02 0.05mL KQ2317266-04 0.05mL KQ2317266-06 0.05mL

Name:	k-met Sb 1ug/mL Sb	Inventory ID	231158	Logbook Ref:	MET4-49-H	Expires On:	11/25/2023

KQ2317266-02 0.10mL KQ2317266-04 0.10mL KQ2317266-06 0.10mL

Preparation Materials

K-MET 16 mL Tube	P7531303 (231480)	K-MET HCL	22L0562005 (229758)	K-MET HNO3	62358 (230966)

Preparation Steps

Step: Digestion
Started: 10/3/23 17:17
Finished: 10/3/23 19:17
By: ABOYER
Comments

Preparation Equipment

K-BlockDigester-20	Digestion	IR Thermometer ID: IR03		K-BlockDigester-20	Digestion	Temperature	95 deg C
K-BlockDigester-20	Digestion	Temperature Check Location	8	K-CR 42986493	Digestion		

Comments: _____

Reviewed By: W Date: 10.5.23 Spike Witness: SSOLADEY Date: _____

ICP-MS LCSW AND SPIKING SOLUTIONS

5.00mL to 500mL Dilution of Inorganics Ventures QCP-CICV-1

k-met 1/100 QCP-CICV-1

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
Al	10000	100
Ag	1250	12.5
Ba	10000	100
Be	250	2.5
Ca	25000	250
Co	2500	25
Cu	1250	12.5
Cr	1000	10
Fe	5000	50
K	25000	250
Mg	25000	250
Mn	2500	25
Na	25000	250
Ni	2500	25
V	2500	25
Zn	2500	25

0.10mL to 100mL Dilution of 1000ppm Sb

k-met 1ug/mL Sb

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
Sb	1000	10

5.00mL to 500mL Dilution of Inorganics Ventures QCP-CICV-3

k-met 1/100 QCP-CICV-3

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
As	5000	50
Pb	5000	50
Se	5000	50
Tl	5000	50
Cd	2500	25

0.5mL to 100mL Dilution of 1,000 ppm Mo and 1,000 ppm U

k-met Mo/U 5ppm

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
Mo	5000	25
U	5000	25

Preparation Information Benchsheet

10/19

Prep Run#: 427437
Team: Metals/SSOLADEY
Number of Copies to make: 6

Prep WorkFlow: MetDigAqMS
Prep Method: EPA CLP ILM04.0

Status: Draft
Prep Date/Time: 10/2/23 07:07

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2317266-01	MB		200.8/Metals T		Liquid	10.0000mL		1% HNO3, 0.2% HCl
2	KQ2317266-02	LCS		200.8/Metals T		Liquid	10.0000mL		1% HNO3, 0.2% HCl
3	K2310247-007	MP006 0907	.05	200.8/Metals T		Water	10.0000mL		1% HNO3, 0.2% HCl
4	K2310642-001	15PN-E	.01	200.8/Metals T		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
5	K2310642-001	15PN-E	.02	200.8/Metals D		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
6	KQ2317266-05	K2310642-001 DUP	.01	200.8/Metals T		Liquid	10.0000mL		1% HNO3, 0.2% HCl
7	KQ2317266-06	K2310642-001 MS	.01	200.8/Metals T		Liquid	10.0000mL		1% HNO3, 0.2% HCl
8	K2310727-001	14PN-G	.01	200.8/Metals T		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
9	K2310727-001	14PN-G	.02	200.8/Metals D		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
10	K2310727-002	15PN-C	.01	200.8/Metals T		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
11	K2310727-002	15PN-C	.02	200.8/Metals D		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
12	K2310734-001	10JD01A	.03	200.8/Metals T		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
13	K2310734-001	10JD01A	.05	200.8/Metals D		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
14	K2310734-002	10JD02	.03	200.8/Metals T		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
15	K2310734-002	10JD02	.05	200.8/Metals D		Ground Water	10.0000mL		1% HNO3, 0.2% HCl
16	K2310979-003	002 Composite	.13	200.8/Metals T		Wastewater	10.0000mL		1% HNO3, 0.2% HCl
17	KQ2317266-03	K2310979-003 DUP	.13	200.8/Metals T		Liquid	10.0000mL		1% HNO3, 0.2% HCl
18	KQ2317266-04	K2310979-003 MS	.13	200.8/Metals T		Liquid	10.0000mL		1% HNO3, 0.2% HCl
19	K2311042-011	EKC-CR11	.12	200.8/Metals D		Water	10.0000mL		1% HNO3, 0.2% HCl
20	K2311042-011	EKC-CR11	.13	200.8/Metals T		Water	10.0000mL		1% HNO3, 0.2% HCl
21	K2311042-012	EKC-CR12	.12	200.8/Metals D		Water	10.0000mL		1% HNO3, 0.2% HCl
22	K2311042-012	EKC-CR12	.13	200.8/Metals T		Water	10.0000mL		1% HNO3, 0.2% HCl
23	K2311042-013	EKC-CR03D	.12	200.8/Metals D		Water	10.0000mL		1% HNO3, 0.2% HCl
24	K2311042-013	EKC-CR03D	.13	200.8/Metals T		Water	10.0000mL		1% HNO3, 0.2% HCl
25	K2311042-014	EKC-CR11D	.12	200.8/Metals D		Water	10.0000mL		1% HNO3, 0.2% HCl
26	K2311042-014	EKC-CR11D	.13	200.8/Metals T		Water	10.0000mL		1% HNO3, 0.2% HCl

Spiking Solutions

Name: k-met 1/100 QCP CICV-1 Inventory ID 226366 Logbook Ref: MET4-38-D Expires On: 12/01/2023

KQ2317266-02 0.10mL KQ2317266-04 0.10mL KQ2317266-06 0.10mL

Name: k-met 1/100 QCP-CICV-3 Inventory ID 227924 Logbook Ref: MET4-41-E Expires On: 03/02/2024

KQ2317266-02 0.10mL KQ2317266-04 0.10mL KQ2317266-06 0.10mL

Preparation Information Benchsheet

Prep Run#: 427437
Team: Metals/SSOLADEY

Prep WorkFlow: MetDigAqMS
Prep Method: EPA CLP ILM04.0

Status: Draft
Prep Date/Time: 10/2/23 07:07

Name:	K-MET Mo/U 5ppm	Inventory ID	229694	Logbook Ref:	MET4-47-D	Expires On:	06/27/2024

KQ2317266-02 0.05mL KQ2317266-04 0.05mL KQ2317266-06 0.05mL

Name:	k-met Sb 1ug/mL Sb	Inventory ID	231158	Logbook Ref:	MET4-49-H	Expires On:	11/25/2023

KQ2317266-02 0.10mL KQ2317266-04 0.10mL KQ2317266-06 0.10mL

Preparation Steps

Step: 10/3/23
Started: 5:17pm
Finished: 7:17pm
By: MB/SS
Comments

B1 20|L8|95°C

Comments: _____

Reviewed By: _____ Date: _____

Service Request #: K2310979,K2310856,K2310868,K2310885,K2310941,K2310988, K2311033,K2311086,K2311103,K2311042,K2311097,K2311099, K2311101,K2310402

MS/MSD with #: K2310979,K2311033,K2311042,K2310402

StarLims Run # : 819504

StarLims Prep # : 427275, 427517, 426737

Prep Date: 10/4/2023, ~~9/24/23~~ 9|20|23

OPR (100ppt) Standard ID:	AF3-6-H	Expiration Date:	11/3/2023
QCS (2.5ppb) Standard ID:	AF3-6-I	Expiration Date:	11/1/2023
Parent OPR ID:	AF2-92-B	Expiration Date:	1/31/2024
Parent QCS ID:	AF3-3-J	Expiration Date:	11/1/2023
NH2OH:	AF3-3-D	Expiration Date:	6/26/2024
SnCl:	AF3-4-G	Expiration Date:	8/10/2024

Pipettors ID: LL 20-200,42781656,LL1000-5000 Calibration Due: 10/10/23

1631 Data Review Form

	Yes	No	NA
1. 20 samples (or less) in batch	X		
2. MS/MSD every 10 samples	X		
3. Current Calibration factor used	X		
4. Calibration data included	X		
5. Method Blank < 0.5 ng/L	X		
6. 3 Bubbler Blanks Ran Avg < 25pg	X		
7. Bubbler Blanks < 50 pg	X		
8. OPR, QCS in control (77-123%)	X		
9. MS/MSD recovery 71-125%	X		
10. Spike RPD within 24%	X		
11. All samples within the linear range	X		
12. All corresponding charts included	X		
13. Dilution factors calculated	X		
14. Bench sheet signed	X		
15. Reagent Blank below 20 pg	X		
16. Water Blank Ran < 0.5 ng/L			X

Comments: K2310402 QCS - AF 3-5-I, used for prep before expiration.

Primary Reviewed by AB Date 10|6|23

Secondary Reviewed by [illegible] Date 10.6.23

Batch Information Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Run Duration:	2.5	Method Blank Type:	Concentration
Heating Duration:	2.5	Integration Mode:	Auto Total Hg
Retention Start Time:	0.4	Integration Type:	Peak Area
Retention Stop Time:	1.3	Result Units:	ng/L
Purge Duration:	6.0		
Drying Duration:	6.0		
Calibration File:	This File		

Analyst Comments:

PMT: 523
OFFSET: 3,163
NOISE: 36
VOA Vial Lot # 112122-3DWZ

Run Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Run	Trap	Type	Name/ID	Method Blank	Peak	Peak Area	Analyzed Result (pg)	Final Result (ng/L)	QA Results	Criteria	Notes
1	X	CCB	RINSE		1	80,103	6.49		6.49	< 50	accept
2	Y	CCB	RINSE		1	21,520	0.714		0.714	< 50	accept
3	X	CB	CB-1		1	13,910	1.37		1.37	< 50	accept
4	Y	CB	CB-2		1	15,672	1.55		1.55	< 50	accept
5	X	CB	CB-3		1	12,669	1.25		1.25	< 50	accept
6	Y	CB	CB-4		1	14,873	1.47		1.47	< 50	accept
7	X	STD	12.5 pg		1	146,943	13.1		105	75-125	accept
8	Y	STD	25 pg		1	270,877	25.3		101	75-125	accept
9	X	STD	100 pg		1	1,047,544	102		102	75-125	accept
10	Y	STD	500 pg		1	5,060,731	498		99.5	75-125	accept
11	X	STD	2500 pg		1	25,336,968	2,500		99.9	75-125	accept
12	~~Y~~	~~STD~~	~~10000 pg~~		~~1~~	~~86,995,451~~	~~8,580~~		~~85.8~~	~~75-125~~	~~reject~~
13	X	STD	10000 pg		1	94,833,194	9,350		93.5	75-125	accept
14	Y	OPR	VER-1		1	1,379,494	135	5.39	108	77-123	accept
15	X	OPR	OPR-1		1	2,647,421	260.	5.19	104	77-123	accept
16	Y	MBA	MB-1		1	107,233	9.17	0.183	0.183	< 0.5	accept
17	X	MBA	MB-2		1	29,113	1.46	0.0293	0.0293	< 0.5	accept
18	Y	QCS	QCS-1		1	2,411,483	236	4.73	94.6	77-123	accept
19	X	S	T2301633-002		1	738,567	71.4	5.55		< HS	accept
20	Y	MS	T2301633-002		1	10,380,856	1,020	80.0	95.1	71-125	accept
21	X	MSD	T2301633-002		1	10,626,966	1,050	85.4	97.9	71-125	accept
22	Y	S	T2301633-001		1	1,242,587	121	9.81		< HS	accept
23	X	S	K2311094-001		1	16,608,894	1,640	504		< HS	accept
24	Y	S	K2311099-003		1	1,973,187	193	20.0		< HS	accept
25	X	MBA	MB-3		1	28,922	1.44	0.0289	0.0289	< 0.5	accept
26	Y	OPR	OPR-2		1	2,555,789	251	5.01	100.	77-123	accept
27	X	OPR	VER/OPR-2		1	1,268,522	124	4.95	99.0	77-123	accept
28	Y	QCS	QCS-1		1	1,236,794	121	4.82	96.4	77-123	accept
29	X	MBA	MB-1		1	43,270	2.86	0.114	0.114	< 0.5	accept
30	X	S	K2310979-003		1	109,916	9.43	0.377		< HS	accept
31	Y	MS	K2310979-003		1	12,122,511	1,190	47.8	94.8	71-125	accept
32	X	MSD	K2310979-003		1	12,584,036	1,240	49.6	98.4	71-125	accept
33	Y	S	K2310856-001		1	2,820,701	277	11.1		< HS	accept

See Peru9 AB 10/6/23

Run Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Run	Trap	Type	Name/ID	Method Blank	Peak	Peak Area	Analyzed Result (pg)	Final Result (ng/L)	QA Results	Criteria	Notes
34	X	S	K2310868-001		1	10,595,446	1,040	209		< HS	accept
35	Y	S	K2310885-001		1	7,674,471	755	30.2		< HS	accept
36	X	S	K2310941-001		1	58,955	4.41	0.176		< HS	accept
37	Y	S	K2310988-001		1	257,884	24.0	0.961		< HS	accept
38	X	S	K2310988-002		1	75,275	6.02	0.241		< HS	accept
39	Y	S	K2310988-003		1	80,030	6.48	0.259		< HS	accept
40	X	S	K2310988-004		1	62,636	4.77	0.191		< HS	accept
41	Y	S	K2311033-001		1	102,108	8.66	0.346		< HS	accept
42	X	MBA	MB-2		1	29,299	1.48	0.0592	0.0592	< 0.5	accept
43	Y	S	K2311033-002		1	85,016	6.98	0.279		< HS	accept
44	X	MS	K2311033-002		1	12,920,442	1,270	50.9	101	71-125	accept
45	Y	MSD	K2311033-002		1	12,717,836	1,250	50.1	99.7	71-125	accept
46	X	S	K2311033-003		1	88,036	7.27	0.291		< HS	accept
47	Y	S	K2311033-004		1	231,528	21.4	0.857		< HS	accept
48	X	S	K2311033-005		1	79,165	6.40	0.256		< HS	accept
49	Y	S	K2311033-006		1	98,572	8.31	0.333		< HS	accept
50	X	S	K2311033-007		1	112,284	9.66	0.387		< HS	accept
51	Y	S	K2311033-008		1	98,282	8.28	0.331		< HS	accept
52	X	S	K2311033-009		1	97,109	8.17	0.327		< HS	accept
53	Y	S	K2311086-001		1	3,188,984	313	12.5		< HS	accept
54	X	S	K2311103-001		1	1,349,857	132	5.27		< HS	accept
55	Y	MBA	MB-3		1	109,144	9.36	0.374	0.374	< 0.5	accept
56	X	OPR	OPR-3		1	1,356,464	132	5.29	106	77-123	accept
57	Y	QCS	QCS-1		1	1,245,206	121	4.86	97.1	77-123	accept
58	X	MBA	MB-1		1	55,699	4.08	0.163	0.163	< 0.5	accept
59	Y	S	K2311042-007		1	229,710	21.2	0.850		< HS	accept
60	X	MS	K2311042-007		1	13,687,226	1,350	53.9	106	71-125	accept
61	Y	MSD	K2311042-007		1	13,260,027	1,310	52.3	103	71-125	accept
62		S	K2311042-001		1	226,537	20.9	0.837		< HS	accept
63		S	K2311042-002		1	313,518	29.5	1.18		< HS	accept
64	X	S	K2311042-003		1	239,744	22.2	0.889		< HS	accept
65	Y	S	K2311042-004		1	218,711	20.2	0.806		< HS	accept
66	X	S	K2311042-005		1	194,475	17.8	0.711		< HS	accept

Run Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Run	Trap	Type	Name/ID	Method Blank	Peak	Peak Area	Analyzed Result (pg)	Final Result (ng/L)	QA Results	Criteria	Notes
67	Y	S	K2311042-006		1	223,302	20.6	0.825		< HS	accept
68	X	S	K2311042-008		1	273,870	25.6	1.02		< HS	accept
69	Y	S	K2311042-009		1	202,681	18.6	0.743		< HS	accept
70	X	S	K2311042-010		1	194,541	17.8	0.711		< HS	accept
71	Y	MBA	MB-2		1	47,898	3.32	0.133	0.133	< 0.5	accept
72	X	S	K2311042-011		1	810,199	78.5	3.14		< HS	accept
73	Y	MS	K2311042-011		1	13,225,832	1,300	52.1	98.0	71-125	accept
74	X	MSD	K2311042-011		1	13,620,318	1,340	53.7	101	71-125	accept
75	Y	S	K2311042-012		1	298,843	28.1	1.12		< HS	accept
76	X	S	K2311042-013		1	270,977	25.3	1.01		< HS	accept
77	Y	S	K2311042-014		1	242,315	22.5	0.900		< HS	accept
78	X	S	K2311097-001		1	728,994	70.5	2.82		< HS	accept
79	Y	S	K2311097-002		1	688,772	66.5	2.66		< HS	accept
80	X	S	K2311097-003		1	72,223	5.71	0.229		< HS	accept
81	Y	S	K2311097-004		1	88,595	7.33	5.86		< HS	accept
82	X	S	K2311099-002		1	98,796	8.33	0.333		< HS	accept
83	Y	S	K2311101-001		1	1,124,058	109	4.38		< HS	accept
84	X	MBA	MB-3		1	24,220	0.980	0.0392	0.0392	< 0.5	accept
85	Y	OPR	OPR-4		1	1,228,626	120.	4.79	95.8	77-123	accept
86	X	QCS	QCS-1		1	1,163,118	113	4.53	90.6	77-123	accept
87	Y	MBA	MB-1		1	70,149	5.51	0.220	0.220	< 0.5	accept
88	X	S	K2310402-001		1	696,865	67.3	13.5		< HS	accept
89	Y	MS	K2310402-001		1	13,089,630	1,290	258	97.8	71-125	accept
90	X	MSD	K2310402-001		1	13,459,345	1,330	265	101	71-125	accept
91	Y	S	K2310402-007		1	1,781,432	174	6.97		< HS	accept
92	X	S	K2310402-008		1	3,328,644	327	65.4		< HS	accept
93	Y	MBA	MB-2		1	89,096	7.38	0.295	0.295	< 0.5	accept
94	X	MBA	MB-3		1	37,554	2.30	0.0918	0.0918	< 0.5	accept
95	Y	OPR	OPR-5		1	1,250,386	122	4.88	97.5	77-123	accept

Run Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Analyst Comments:
PMT: 523 OFFSET: 3,163 NOISE: 36 VOA Vial Lot # 112122-3DWZ

QA Summary Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Bias and Precision

Type	Name/ID	Final Result	Units	Spike Level	Source Result	% REC	% REC Limit	RPD	RPD Limit	Notes
MS	T2301633-002	80.0	ng/L	78.3	5.55	95.1	71-125			accept
	K2310979-003	47.8	ng/L	50.0	0.377	94.8	71-125			accept
	K2311033-002	50.9	ng/L	50.0	0.279	101	71-125			accept
	K2311042-007	53.9	ng/L	50.0	0.850	106	71-125			accept
	K2311042-011	52.1	ng/L	50.0	3.14	98.0	71-125			accept
	K2310402-001	258	ng/L	250	13.5	97.8	71-125			accept
MSD	T2301633-002	85.4	ng/L	81.6	5.55	97.9	71-125	6.54	< 24	accept
	K2310979-003	49.6	ng/L	50.0	0.377	98.4	71-125	3.74	< 24	accept
	K2311033-002	50.1	ng/L	50.0	0.279	99.7	71-125	1.58	< 24	accept
	K2311042-007	52.3	ng/L	50.0	0.850	103	71-125	3.17	< 24	accept
	K2311042-011	53.7	ng/L	50.0	3.14	101	71-125	2.94	< 24	accept
	K2310402-001	265	ng/L	250	13.5	101	71-125			accept
OPR	VER-1	5.39	ng/L	5.0		108	77-123			accept
	OPR-1	5.19	ng/L	5.0		104	77-123			accept
	OPR-2	5.01	ng/L	5.0		100.	77-123			accept
	VER/OPR-2	4.95	ng/L	5.0		99.0	77-123			accept
	OPR-3	5.29	ng/L	5.0		106	77-123			accept
	OPR-4	4.79	ng/L	5.0		95.8	77-123			accept
	OPR-5	4.88	ng/L	5.0		97.5	77-123			accept
QCS	QCS-1	4.73	ng/L	5.0		94.6	77-123			accept
	QCS-1	4.82	ng/L	5.0		96.4	77-123			accept
	QCS-1	4.86	ng/L	5.0		97.1	77-123			accept

QA Summary Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Bias and Precision										
Type	**Name/ID**	**Final Result**	**Units**	**Spike Level**	**Source Result**	**% REC**	**% REC Limit**	**RPD**	**RPD Limit**	**Notes**
QCS	QCS-1	4.53	ng/L	5.0		90.6	77-123			accept

QA Summary Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Calibration									
QA Sample Type	**Name/ID**	**Analyzed Result**	**Units**	**Spike Level**	**% REC**	**% REC Limit**	**RSD**	**RSD Limit**	**Notes**
Calibration	12.5 pg	13.1	pg	12.5	105	75-125			accept
	25 pg	25.3	pg	25	101	75-125			accept
	100 pg	102	pg	100	102	75-125			accept
	500 pg	498	pg	500	99.5	75-125			accept
	2500 pg	2,500	pg	2500	99.9	75-125			accept
	~~10000 pg~~	~~8,580~~	~~pg~~	~~10000~~	~~85.8~~	~~75-125~~			~~reject~~
	10000 pg	9,350	pg	10000	93.5	75-125			accept
Calibration Factor		0.0000986	pg/PA				3.83	< 15	accept
Calibration Date		10/5/23							

AB 10/6/23

1631 Extended Calibration Point Verification

Instruemt:	ASF-04
Date:	10/05/23
Run Number:	819504

	Raw Peak Area	Blank Corrected Peak Area			
CB-1	13,910				
CB-2	15,672				
CB-3	12,669				
CB-4	14,873				
STD 12.5	146,943	132,662	0.0000942		
STD 25	270,877	256,596	0.0000974		
STD 100	1,047,544	1,033,263	0.0000968		
STD 500	5,060,731	5,046,450	0.0000991		
STD 2500	25,336,968	25,322,687	0.0000987	0.0000972	0.5 - 100 ng/L Ave. Cal. Factor
STD 10000	94,833,194	94,818,913	0.0001055	-8.4	% Difference (Limit ± 15%)
			Result:	**PASS**	
	Cal. Factor	0.0000986			

QA Summary Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Blank Summary

QA Sample Type	Name/ID	Analyzed Result	Units	Criteria	StDev	StDev Limit	Notes
CB	CB-1	1.37	pg	< 50			accept
	CB-2	1.55	pg	< 50			accept
	CB-3	1.25	pg	< 50			accept
	CB-4	1.47	pg	< 50			accept
Average		1.41	pg	< 25	0.128	< 10	accept
MBA	MB-1	0.183	ng/L	< 0.5			accept
	MB-2	0.0293	ng/L	< 0.5			accept
	MB-3	0.0289	ng/L	< 0.5			accept
	MB-1	0.114	ng/L	< 0.5			accept
	MB-2	0.0592	ng/L	< 0.5			accept
	MB-3	0.374	ng/L	< 0.5			accept
	MB-1	0.163	ng/L	< 0.5			accept
	MB-2	0.133	ng/L	< 0.5			accept
	MB-3	0.0392	ng/L	< 0.5			accept
	MB-1	0.220	ng/L	< 0.5			accept
	MB-2	0.295	ng/L	< 0.5			accept
	MB-3	0.0918	ng/L	< 0.5			accept
Average		0.144	ng/L		0.109		

QA Summary Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

QA Comments:

Sample Results Summary Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Run	Name/ID	Final Result (ng/L)	Notes
88	K2310402-001	13.5	accept
91	K2310402-007	6.97	accept
92	K2310402-008	65.4	accept
33	K2310856-001	11.1	accept
34	K2310868-001	209	accept
35	K2310885-001	30.2	accept
36	K2310941-001	0.176	accept
30	K2310979-003	0.377	accept
37	K2310988-001	0.961	accept
38	K2310988-002	0.241	accept
39	K2310988-003	0.259	accept
40	K2310988-004	0.191	accept
41	K2311033-001	0.346	accept
43	K2311033-002	0.279	accept
46	K2311033-003	0.291	accept
47	K2311033-004	0.857	accept
48	K2311033-005	0.256	accept
49	K2311033-006	0.333	accept
50	K2311033-007	0.387	accept
51	K2311033-008	0.331	accept
52	K2311033-009	0.327	accept
62	K2311042-001	0.837	accept
63	K2311042-002	1.18	accept
64	K2311042-003	0.889	accept
65	K2311042-004	0.806	accept
66	K2311042-005	0.711	accept
67	K2311042-006	0.825	accept
59	K2311042-007	0.850	accept
68	K2311042-008	1.02	accept

Sample Results Summary Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Run	Name/ID	Final Result (ng/L)	Notes
69	K2311042-009	0.743	accept
70	K2311042-010	0.711	accept
72	K2311042-011	3.14	accept
75	K2311042-012	1.12	accept
76	K2311042-013	1.01	accept
77	K2311042-014	0.900	accept
53	K2311086-001	12.5	accept
23	K2311094-001	504	accept
78	K2311097-001	2.82	accept
79	K2311097-002	2.66	accept
80	K2311097-003	0.229	accept
81	K2311097-004	5.86	accept
82	K2311099-002	0.333	accept
24	K2311099-003	20.0	accept
83	K2311101-001	4.38	accept
54	K2311103-001	5.27	accept
22	T2301633-001	9.81	accept
19	T2301633-002	5.55	accept

Run Information Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Run	Trap	Type	Name/ID	Method Blank	Sample Vol/Wt	Dilution Vol (ml)	Analyzed Vol (ml)	Expected Value	Notes
1	X	CCB	RINSE						
2	Y	CCB	RINSE						
3	X	CB	CB-1						
4	Y	CB	CB-2						
5	X	CB	CB-3						
6	Y	CB	CB-4						
7	X	STD	12.5 pg					12.5	0.125mL AF3-6-H
8	Y	STD	25 pg					25	0.25mL AF3-6-H
9	X	STD	100 pg					100	1.0mL AF3-6-H
10	Y	STD	500 pg					500	0.05mL AF3-6-G
11	X	STD	2500 pg					2500	0.25mL AF3-6-G
12	~~Y~~	~~STD~~	~~10000 pg~~					~~10000~~	~~1.0mL AF3-6-G~~
13	X	STD	10000 pg					10000	1.0mL AF3-6-G
14	Y	OPR	VER-1		25	25	25	5.0	
15	X	OPR	OPR-1		400	40	5.0	5.0	
16	Y	MBA	MB-1		400	40	5.0		
17	X	MBA	MB-2		400	40	5.0		
18	Y	QCS	QCS-1		400	40	5.0	5.0	
19	X	S	T2301633-002		515	40	1.0		
20	Y	MS	T2301633-002		511	40	1.0	78.3	
21	X	MSD	T2301633-002		490	40	1.0	81.6	
22	Y	S	T2301633-001		494	40	1.0		
23	X	S	K2311094-001		130	40	1.0		
24	Y	S	K2311099-003		77.4	40	5.0		
25	X	MBA	MB-3		400	40	5.0		
26	Y	OPR	OPR-2		400	40	5.0	5.0	
27	X	OPR	VER/OPR-2		25	25	25	5.0	
28	Y	QCS	QCS-1		125	125	25	5.0	
29	X	MBA	MB-1		125	125	25		
30	X	S	K2310979-003		125	125	25		
31	Y	MS	K2310979-003		125	125	25	50.0	
32	X	MSD	K2310979-003		125	125	25	50.0	
33	Y	S	K2310856-001		125	125	25		

AB 10/6/23

Run Information Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Run	Trap	Type	Name/ID	Method Blank	Sample Vol/Wt	Dilution Vol (ml)	Analyzed Vol (ml)	Expected Value	Notes
34	X	S	K2310868-001		125	125	5.0		1/5
35	Y	S	K2310885-001		125	125	25		
36	X	S	K2310941-001		125	125	25		
37	Y	S	K2310988-001		125	125	25		
38	X	S	K2310988-002		125	125	25		
39	Y	S	K2310988-003		125	125	25		
40	X	S	K2310988-004		125	125	25		
41	Y	S	K2311033-001		1000	1000	25		
42	X	MBA	MB-2		125	125	25		
43	Y	S	K2311033-002		1000	1000	25		
44	X	MS	K2311033-002		1000	1000	25	50.0	
45	Y	MSD	K2311033-002		1000	1000	25	50.0	
46	X	S	K2311033-003		1000	1000	25		
47	Y	S	K2311033-004		1000	1000	25		
48	X	S	K2311033-005		1000	1000	25		
49	Y	S	K2311033-006		1000	1000	25		
50	X	S	K2311033-007		1000	1000	25		
51	Y	S	K2311033-008		1000	1000	25		
52	X	S	K2311033-009		1000	1000	25		
53	Y	S	K2311086-001		125	125	25		
54	X	S	K2311103-001		125	125	25		
55	Y	MBA	MB-3		125	125	25		
56	X	OPR	OPR-3		25	25	25	5.0	
57	Y	QCS	QCS-1		125	125	25	5.0	
58	X	MBA	MB-1		125	125	25		
59	Y	S	K2311042-007		125	125	25		
60	X	MS	K2311042-007		125	125	25	50.0	
61	Y	MSD	K2311042-007		125	125	25	50.0	
62	X	S	K2311042-001		125	125	25		
63	Y	S	K2311042-002		125	125	25		
64	X	S	K2311042-003		125	125	25		
65	Y	S	K2311042-004		125	125	25		
66	X	S	K2311042-005		125	125	25		

Run Information Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

Run	Trap	Type	Name/ID	Method Blank	Sample Vol/Wt	Dilution Vol (ml)	Analyzed Vol (ml)	Expected Value	Notes
67	Y	S	K2311042-006		125	125	25		
68	X	S	K2311042-008		125	125	25		
69	Y	S	K2311042-009		125	125	25		
70	X	S	K2311042-010		125	125	25		
71	Y	MBA	MB-2		125	125	25		
72	X	S	K2311042-011		125	125	25		
73	Y	MS	K2311042-011		125	125	25	50.0	
74	X	MSD	K2311042-011		125	125	25	50.0	
75	Y	S	K2311042-012		125	125	25		
76	X	S	K2311042-013		125	125	25		
77	Y	S	K2311042-014		125	125	25		
78	X	S	K2311097-001		125	125	25		
79	Y	S	K2311097-002		125	125	25		
80	X	S	K2311097-003		125	125	25		
81	Y	S	K2311097-004		6.25	125	25		1/20
82	X	S	K2311099-002		125	125	25		
83	Y	S	K2311101-001		125	125	25		
84	X	MBA	MB-3		125	125	25		
85	Y	OPR	OPR-4		25	25	25	5.0	
86	X	QCS	QCS-1		125	125	25	5.0	
87	Y	MBA	MB-1		125	125	25		
88	X	S	K2310402-001		125	125	5.0		1/5
89	Y	MS	K2310402-001		125	125	5.0	250	1/5
90	X	MSD	K2310402-001		125	125	5.0	250	1/5
91	Y	S	K2310402-007		125	125	25		
92	X	S	K2310402-008		125	125	5.0		1/5
93	Y	MBA	MB-2		125	125	25		
94	X	MBA	MB-3		125	125	25		
95	Y	OPR	OPR-5		25	25	25	5.0	

AP 10/6/23

Metals Digestion Sheet

Service Requests:

Method : **1631E** Analysis for : **CVAFS**

Sample	StarLims #	Date Prepped	> BrCl	Prepared Initial Vol. (ml)	Prepared Final Vol. (ml)	Analyzed Vol. (ml)	Analyzed Dil. Vol. (ml)	Matrix
Method Blank		10/4/2023	X	125	125	25	25	0.5% BrCl
Method Blank		10/4/2023	X	125	125	25	25	0.5% BrCl
OPR			X	25	25	25	25	0.5% BrCl
QCS		10/4/2023	X	125	125	25	25	0.5% BrCl
K2310979-003	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2310979-003	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2310979-003	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2310856-001	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2310868-001	427275	10/4/2023	X	125	125	5	25	0.5% BrCl
K2310885-001	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2310941-001	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2310988-001	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2310988-002	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2310988-003	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2310988-004	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311033-001	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-002	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-002S	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-002SD	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-003	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-004	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-005	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-006	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-007	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-008	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311033-009	427275	10/4/2023	X	1000	1000	25	25	0.5% BrCl
K2311086-001	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311103-001	427275	10/4/2023	X	125	125	25	25	0.5% BrCl
Method Blank		10/4/2023	X	125	125	25	25	0.5% BrCl
OPR			X	25	25	25	25	0.5% BrCl

AF3-4-D **BrCl**

Oxidation Start Time: 5:01PM 10/4/23

AF3-6-I *(2.5 ng/mL)* ------ **QCS:** 0.25mL

Digestion Completed: 5:01AM 10/5/23

AF3-6-H *(100 ng/L)* ------ **OPR:** 1.25mL

1st MS / DMS: 0.125mL AF3-6-G 10ng/mL

2nd MS / DMS: 0.125mL AF3-6-G 10ng/mL

Comments: K2310868-001 diluted 5x due to sample matrix.

Analyst Anna Bleyer

Metals Digestion Sheet

Service Requests:

Method : **1631E** Analysis for : **CVAFS**

Sample	StarLims #	Date Prepped	> BrCl	Prepared Initial Vol. (ml)	Prepared Final Vol. (ml)	Analyzed Vol. (ml)	Analyzed Dil. Vol. (ml)	Matrix
Method Blank		10/4/2023	X	125	125	25	25	0.5% BrCl
Method Blank		10/4/2023	X	125	125	25	25	0.5% BrCl
OPR			X	25	25	25	25	0.5% BrCl
QCS		10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-007	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-007S	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-007SD	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-001	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-002	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-003	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-004	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-005	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-006	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-008	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-009	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-010	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-011	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-011S	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-011SD	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-012	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-013	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311042-014	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311097-001	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311097-002	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311097-003	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311097-004	427517	10/4/2023	X	6.25	125	25	25	0.5% BrCl
K2311099-002	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
K2311101-001	427517	10/4/2023	X	125	125	25	25	0.5% BrCl
Method Blank		10/4/2023	X	125	125	25	25	0.5% BrCl
OPR			X	25	25	25	25	0.5% BrCl

AF3-4-D **BrCl** **Oxidation Start Time:** 5:06PM 10/4/23

AF3-6-I *(2.5 ng/mL)* ------ **QCS:** 0.25mL **Digestion Completed:** 5:06AM 10/5/23

AF3-6-H *(100 ng/L)* ------ **OPR:** 1.25mL

1st MS / DMS: 0.125mL AF3-6-G 10ng/mL

2nd MS / DMS: 0.125mL AF3-6-G 10ng/mL

Comments: K2311097-004 diluted 20x to oxidize.

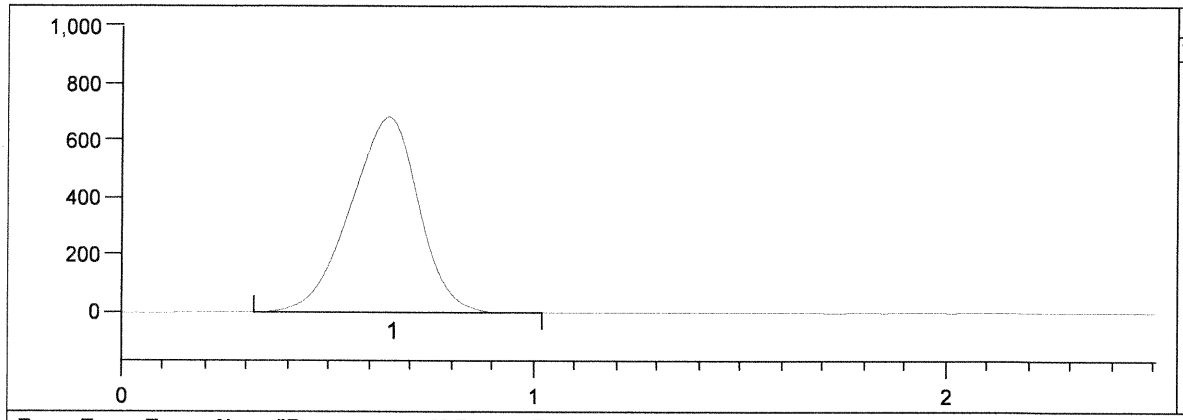
Analyst Anne Beyer

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

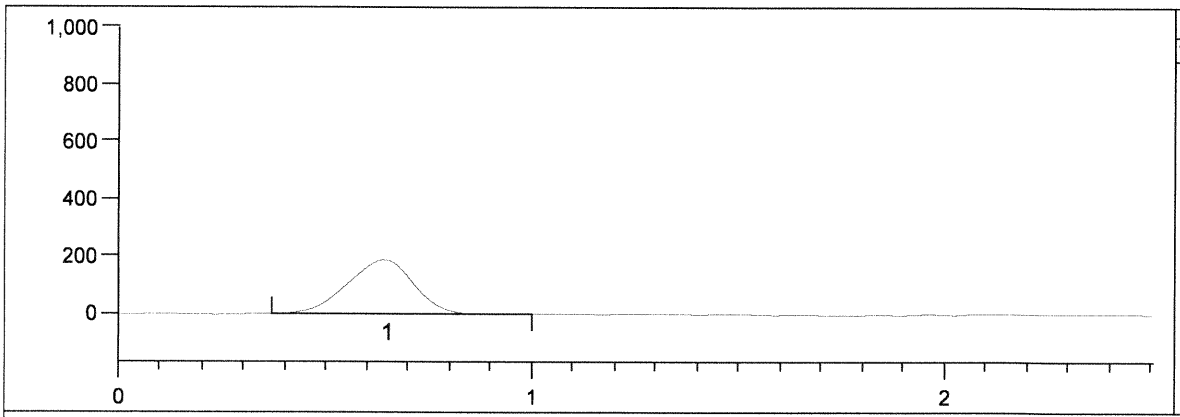


Date: 10/5/23
Time: 8:55 AM

Peak	rt	Area
1	0.64	80,103

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
1	X	CCB	RINSE		1	80,103	6.49		6.49	< 50	accept

Notes

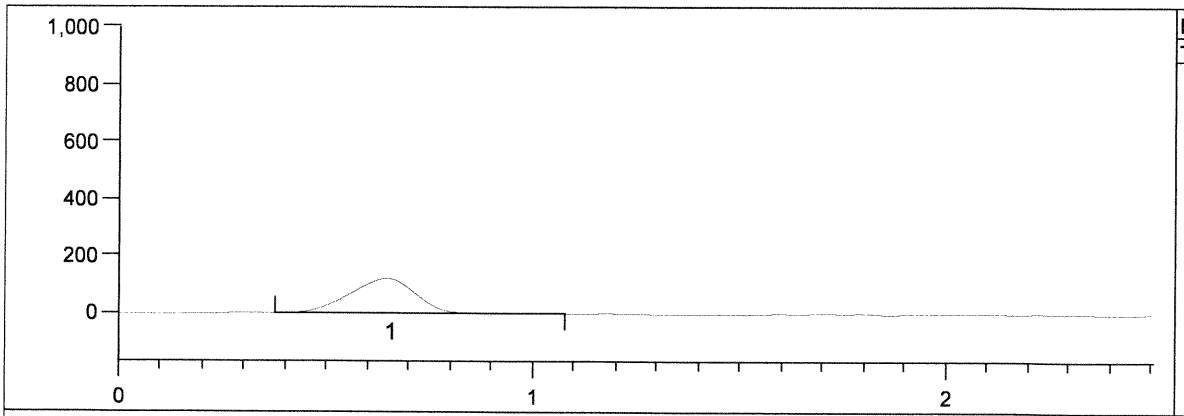


Date: 10/5/23
Time: 9:00 AM

Peak	rt	Area
1	0.64	21,520

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
2	Y	CCB	RINSE		1	21,520	0.714		0.714	< 50	accept

Notes



Date: 10/5/23
Time: 9:05 AM

Peak	rt	Area
1	0.64	13,910

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
3	X	CB	CB-1		1	13,910	1.37		1.37	< 50	accept

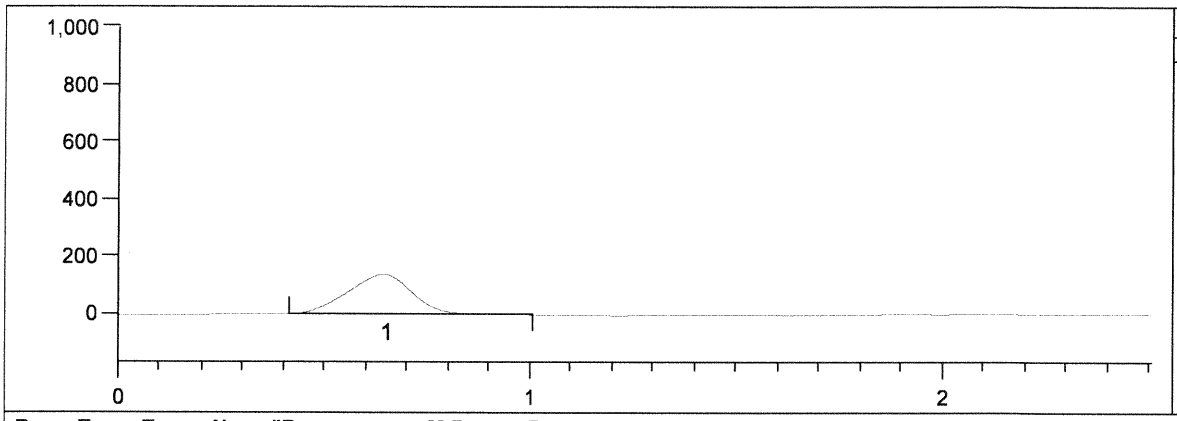
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

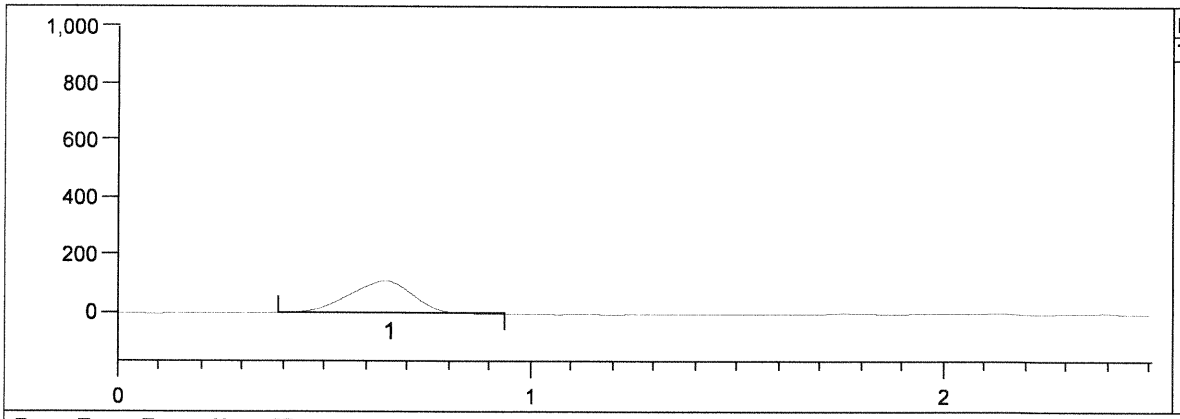


Date:	10/5/23
Time:	9:10 AM

Peak	rt	Area
1	0.64	15,672

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
4	Y	CB	CB-2		1	15,672	1.55		1.55	< 50	accept

Notes

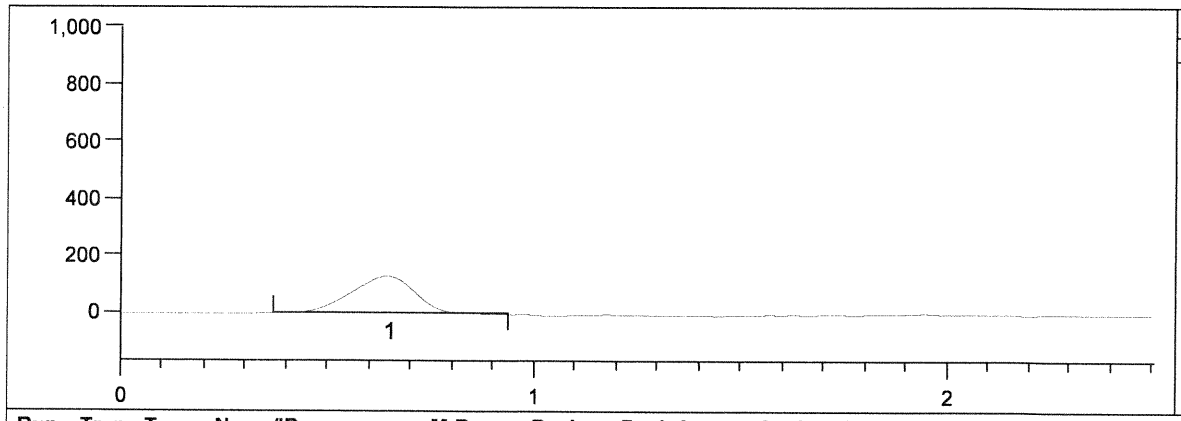


Date:	10/5/23
Time:	9:15 AM

Peak	rt	Area
1	0.64	12,669

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
5	X	CB	CB-3		1	12,669	1.25		1.25	< 50	accept

Notes



Date:	10/5/23
Time:	9:20 AM

Peak	rt	Area
1	0.64	14,873

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
6	Y	CB	CB-4		1	14,873	1.47		1.47	< 50	accept

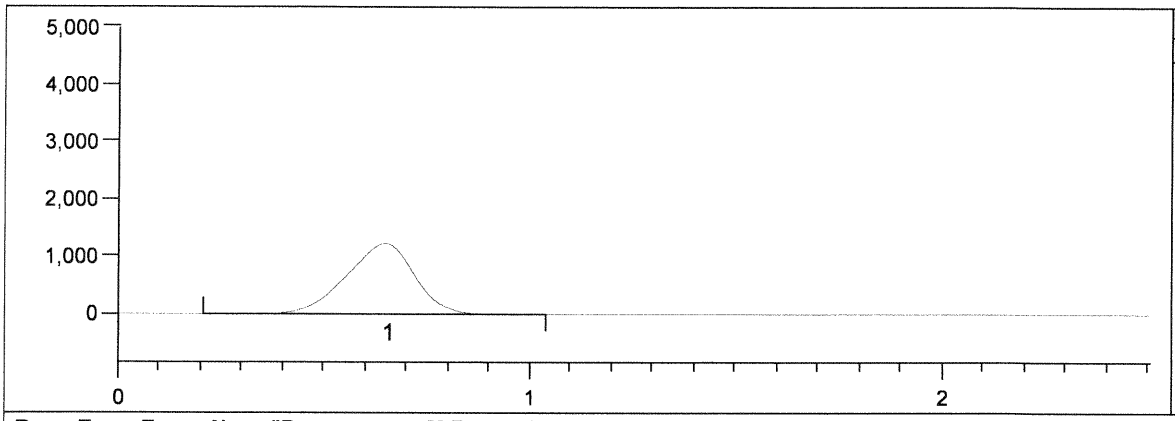
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

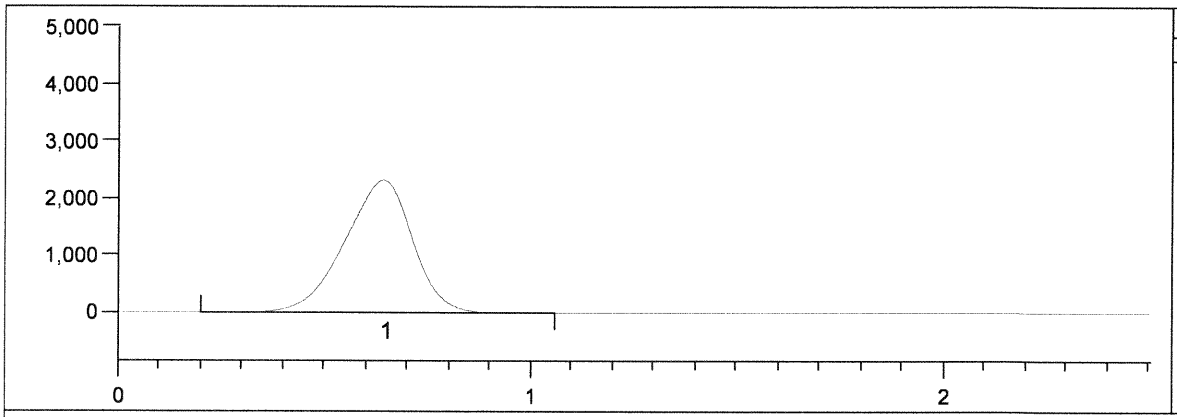


Date:	10/5/23
Time:	9:25 AM

Peak	rt	Area
1	0.64	146,943

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
7	X	STD	12.5 pg		1	146,943	13.1		105	75-125	accept

Notes0.125mL AF3-6-H

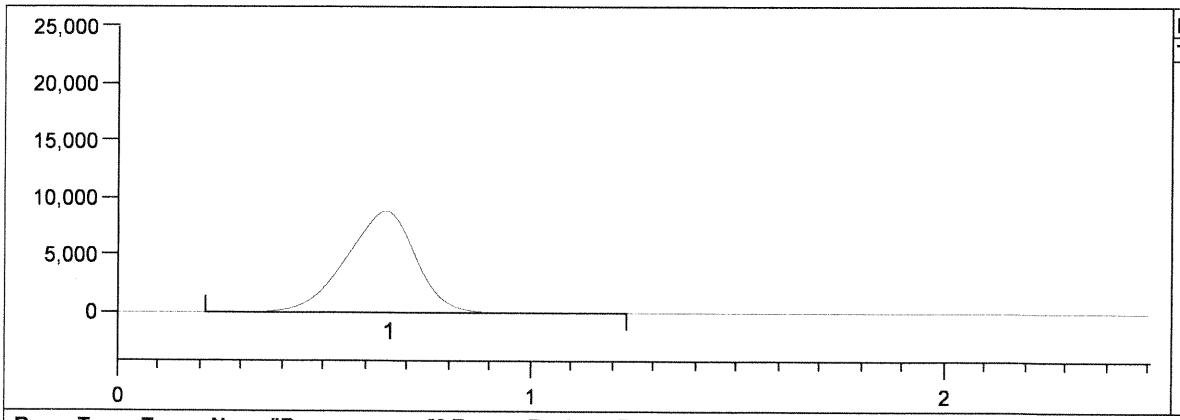


Date:	10/5/23
Time:	9:30 AM

Peak	rt	Area
1	0.64	270,877

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
8	Y	STD	25 pg		1	270,877	25.3		101	75-125	accept

Notes0.25mL AF3-6-H



Date:	10/5/23
Time:	9:35 AM

Peak	rt	Area
1	0.64	1,047,544

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
9	X	STD	100 pg		1	1,047,544	102		102	75-125	accept

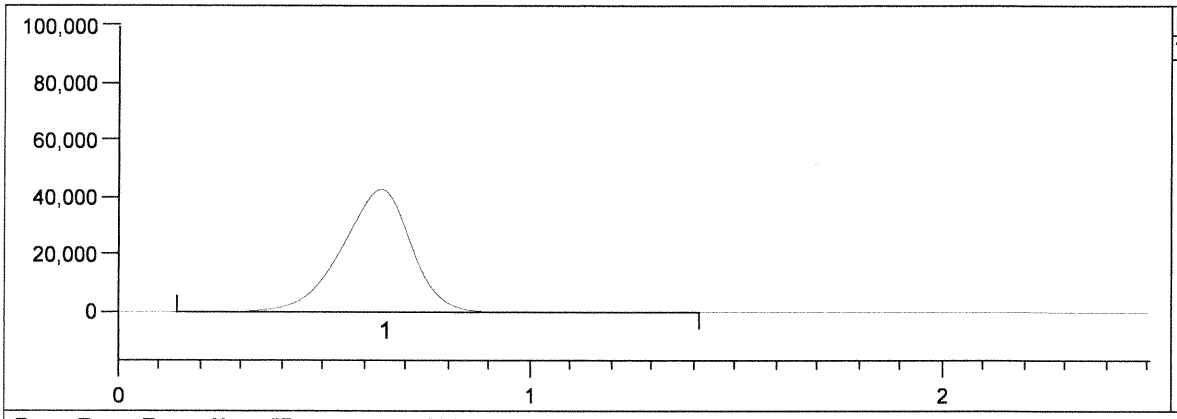
Notes1.0mL AF3-6-H

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

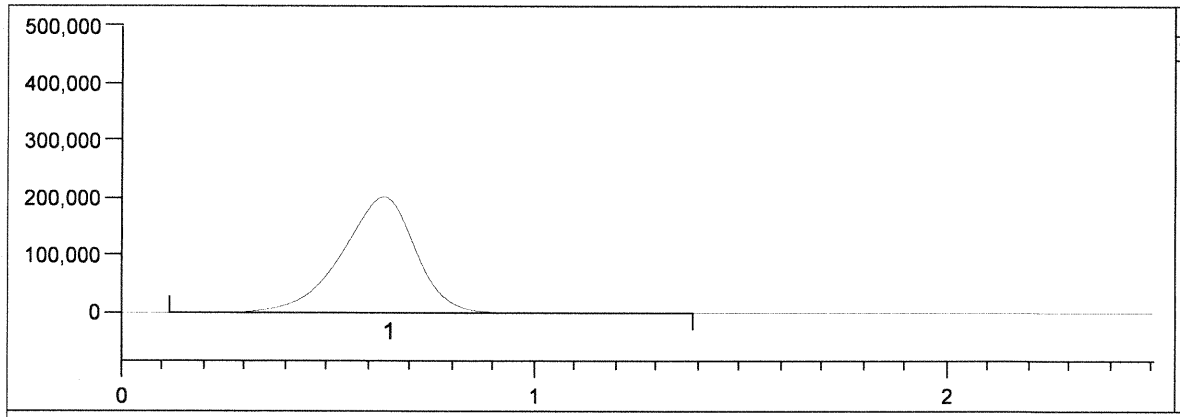


Date:	10/5/23
Time:	9:40 AM

Peak	rt	Area
1	0.64	5,060,731

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
10	Y	STD	500 pg		1	5,060,731	498		99.5	75-125	accept

Notes0.05mL AF3-6-G

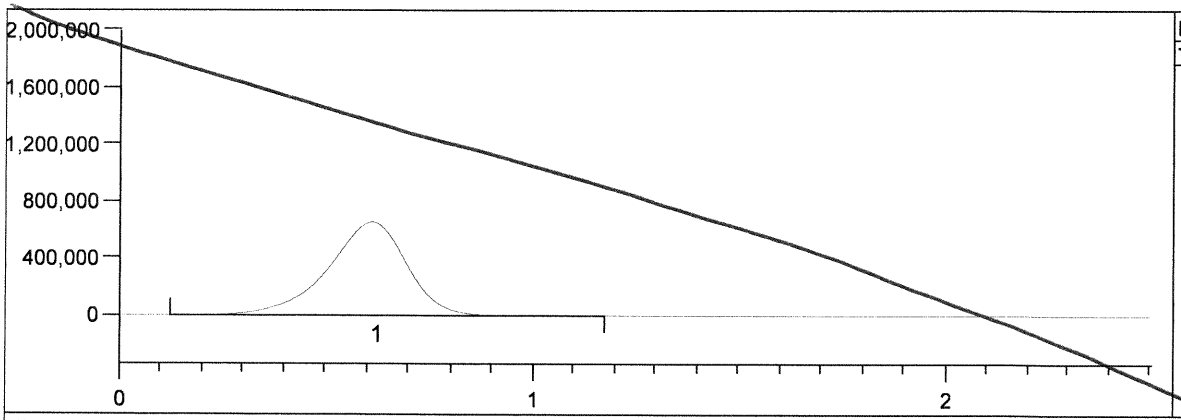


Date:	10/5/23
Time:	9:45 AM

Peak	rt	Area
1	0.63	25,336,968

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
11	X	STD	2500 pg		1	25,336,968	2,500		99.9	75-125	accept

Notes0.25mL AF3-6-G



Date:	10/5/23
Time:	9:50 AM

Peak	rt	Area
1	0.61	86,995,451

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
12	Y	STD	10000 pg		1	86,995,451	8,580		85.8	75-125	reject

Notes1.0mL AF3-6-G

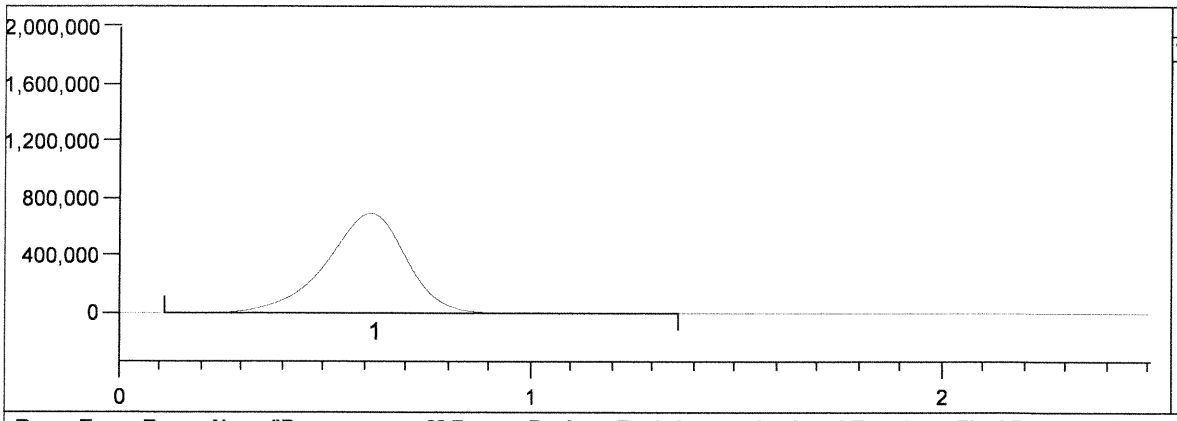
AS 10/6/23

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

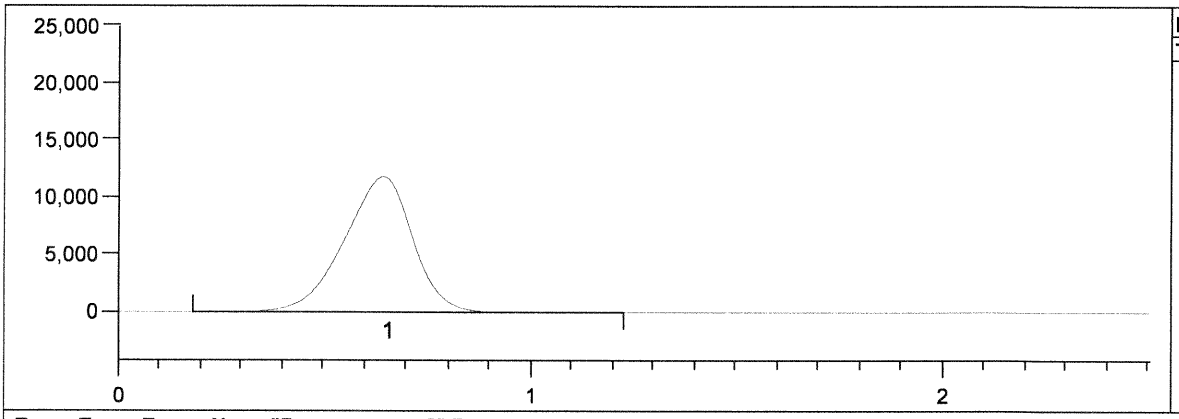
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	10:08 AM

Peak	rt	Area
1	0.61	94,833,194

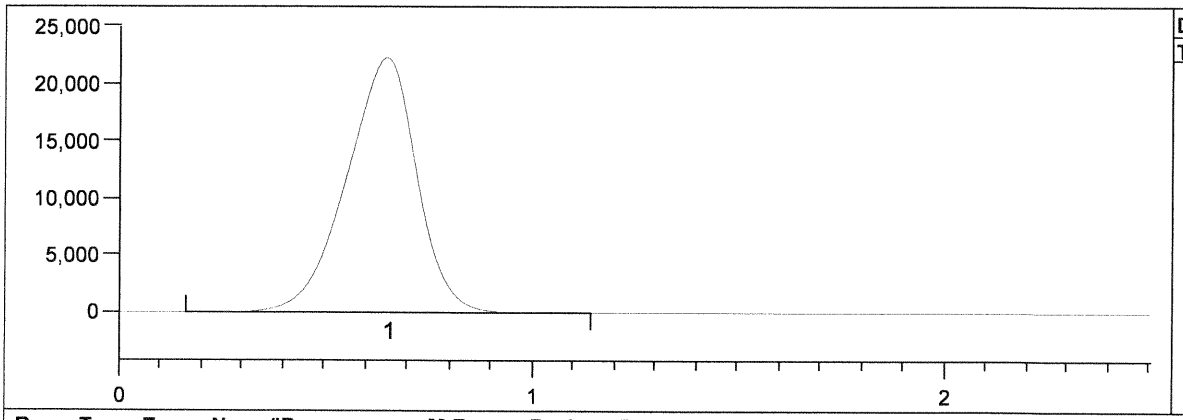
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
13	X	STD	10000 pg		1	94,833,194	9,350		93.5	75-125	accept
Notes1.0mL AF3-6-G											



Date:	10/5/23
Time:	10:13 AM

Peak	rt	Area
1	0.64	1,379,494

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
14	Y	OPR	VER-1		1	1,379,494	135	5.39	108	77-123	accept
Notes											



Date:	10/5/23
Time:	10:18 AM

Peak	rt	Area
1	0.64	2,647,421

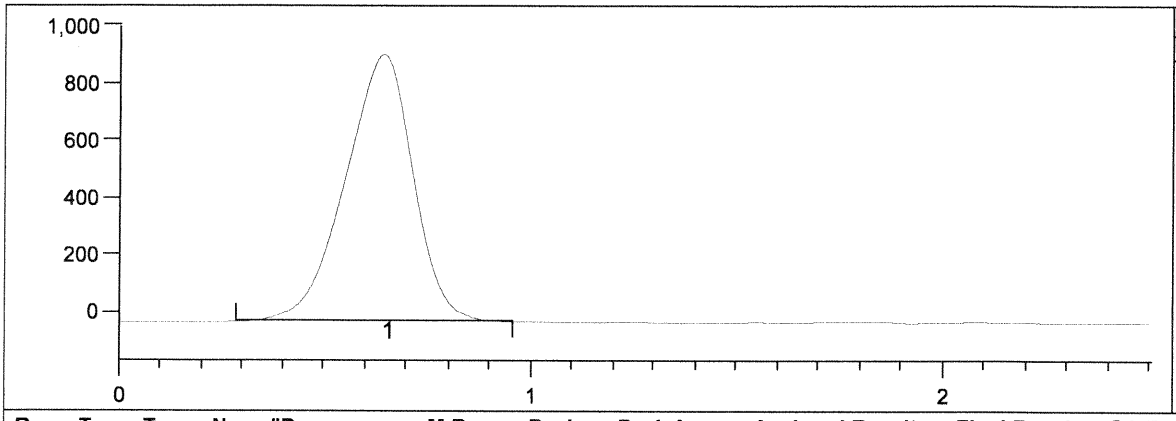
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
15	X	OPR	OPR-1		1	2,647,421	260.	5.19	104	77-123	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

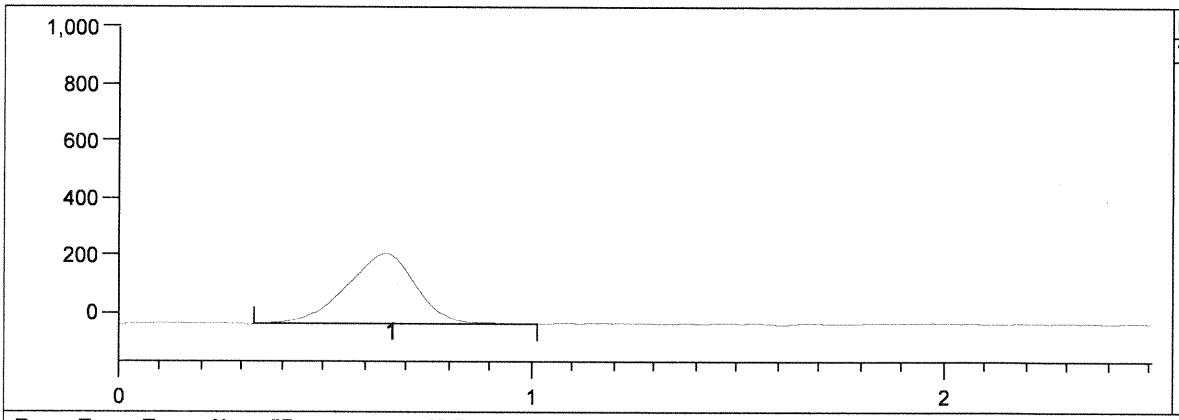


Date:	10/5/23
Time:	10:23 AM

Peak	rt	Area
1	0.64	107,233

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
16	Y	MBA	MB-1		1	107,233	9.17	0.183	0.183	< 0.5	accept

Notes

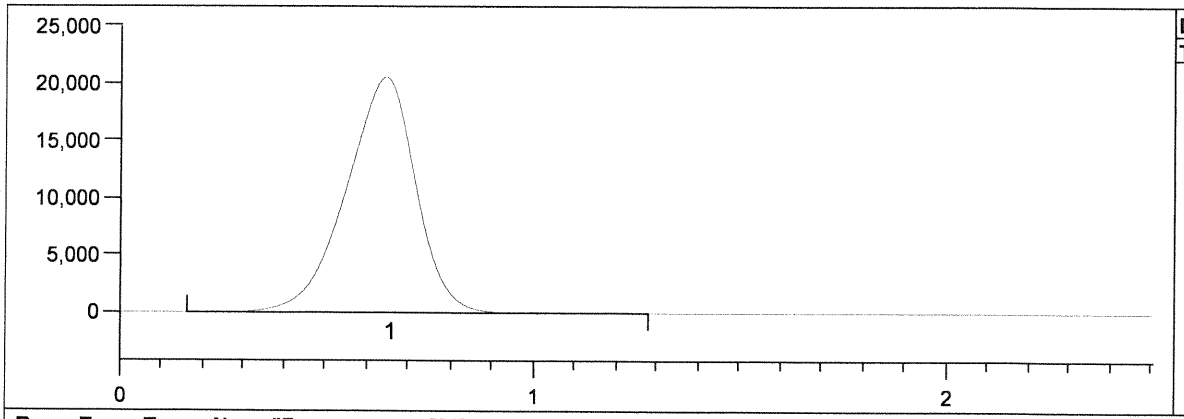


Date:	10/5/23
Time:	10:28 AM

Peak	rt	Area
1	0.65	29,113

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
17	X	MBA	MB-2		1	29,113	1.46	0.0293	0.0293	< 0.5	accept

Notes



Date:	10/5/23
Time:	10:33 AM

Peak	rt	Area
1	0.64	2,411,483

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
18	Y	QCS	QCS-1		1	2,411,483	236	4.73	94.6	77-123	accept

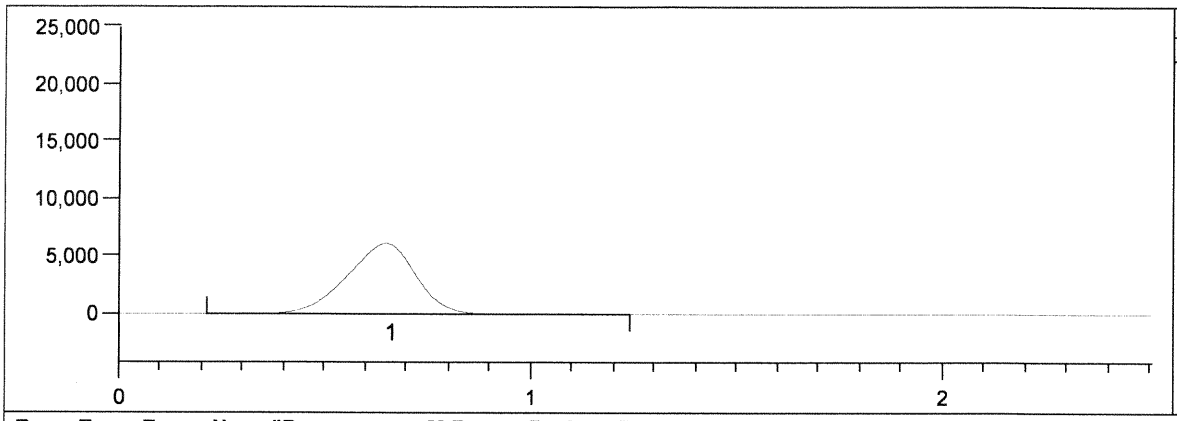
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

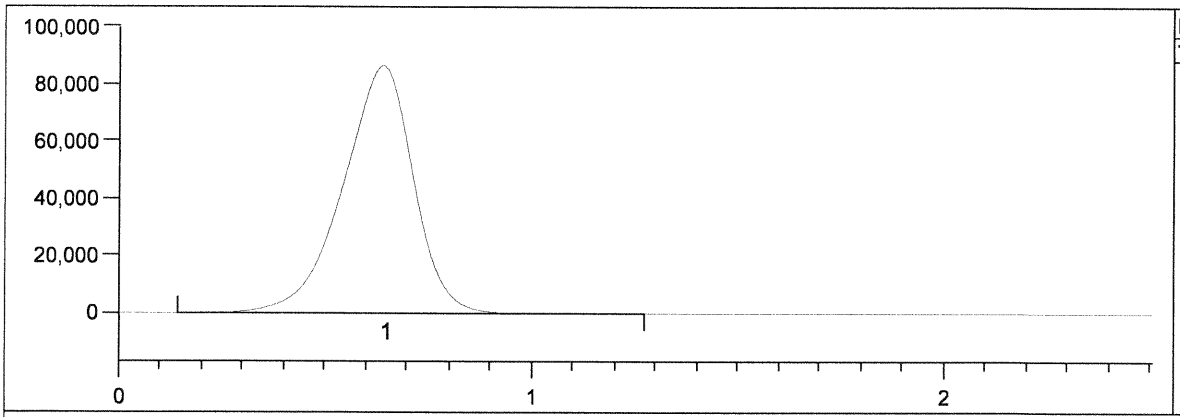


Date:	10/5/23
Time:	10:38 AM

Peak	rt	Area
1	0.65	738,567

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
19	X	S	T2301633-002		1	738,567	71.4	5.55		< HS	accept

Notes

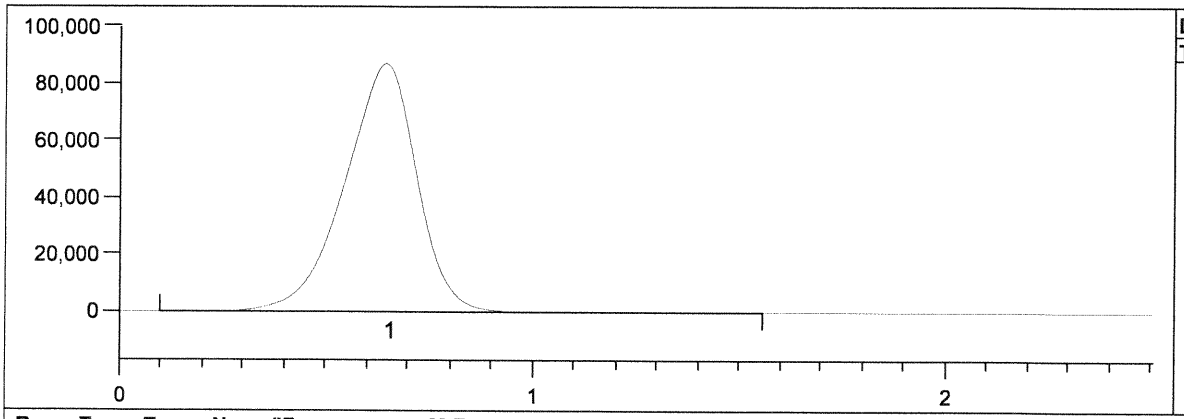


Date:	10/5/23
Time:	10:43 AM

Peak	rt	Area
1	0.64	10,380,856

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
20	Y	MS	T2301633-002		1	10,380,856	1,020	80.0	95.1	71-125	accept

Notes



Date:	10/5/23
Time:	10:48 AM

Peak	rt	Area
1	0.64	10,626,966

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
21	X	MSD	T2301633-002		1	10,626,966	1,050	85.4	97.9	71-125	accept

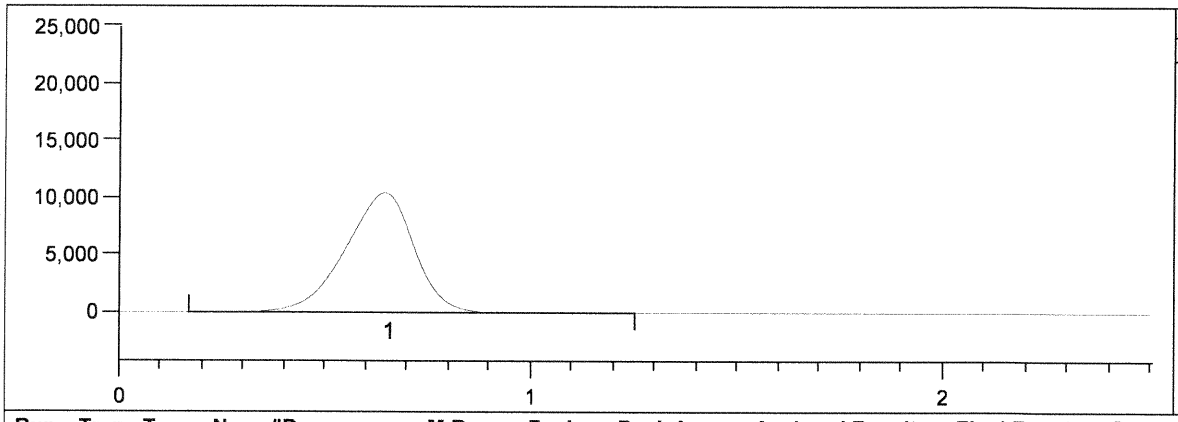
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

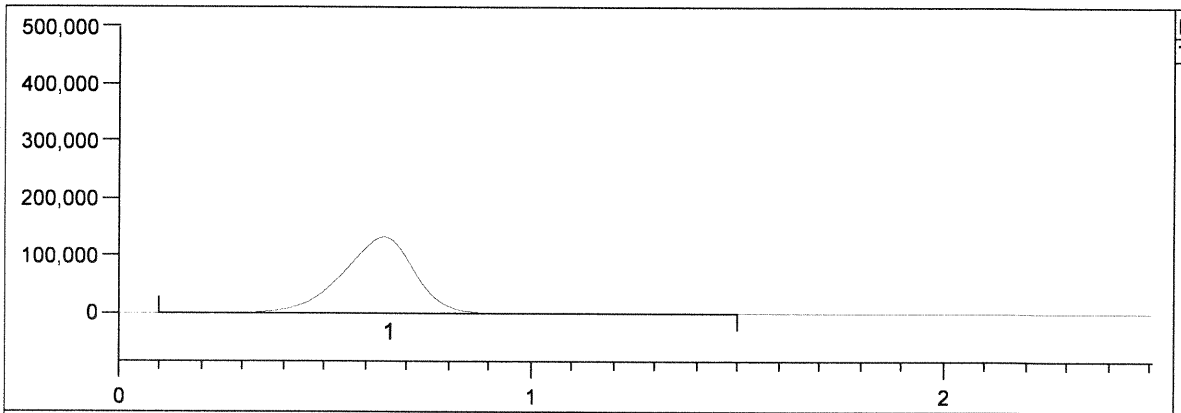


Date:	10/5/23
Time:	10:53 AM

Peak	rt	Area
1	0.64	1,242,587

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
22	Y	S	T2301633-001		1	1,242,587	121	9.81		< HS	accept

Notes

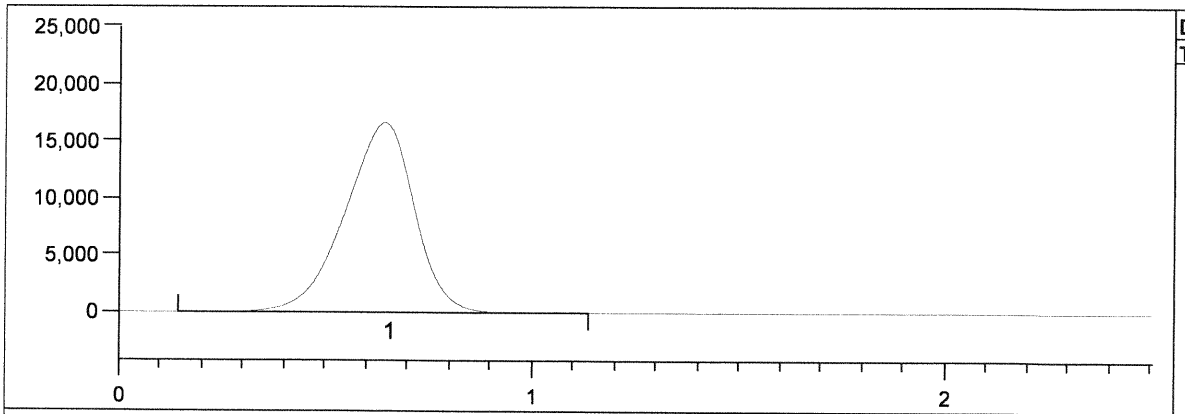


Date:	10/5/23
Time:	10:58 AM

Peak	rt	Area
1	0.64	16,608,894

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
23	X	S	K2311094-001		1	16,608,894	1,640	504		< HS	accept

Notes



Date:	10/5/23
Time:	11:03 AM

Peak	rt	Area
1	0.64	1,973,187

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
24	Y	S	K2311099-003		1	1,973,187	193	20.0		< HS	accept

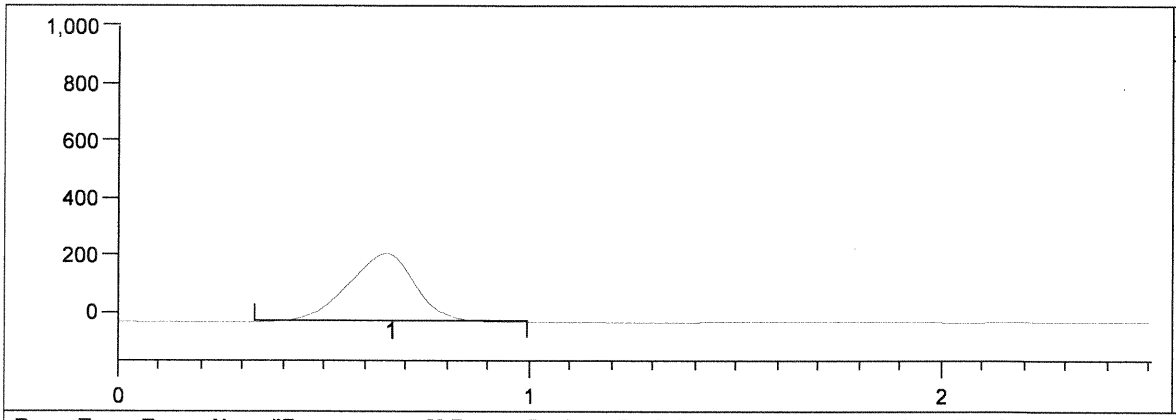
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

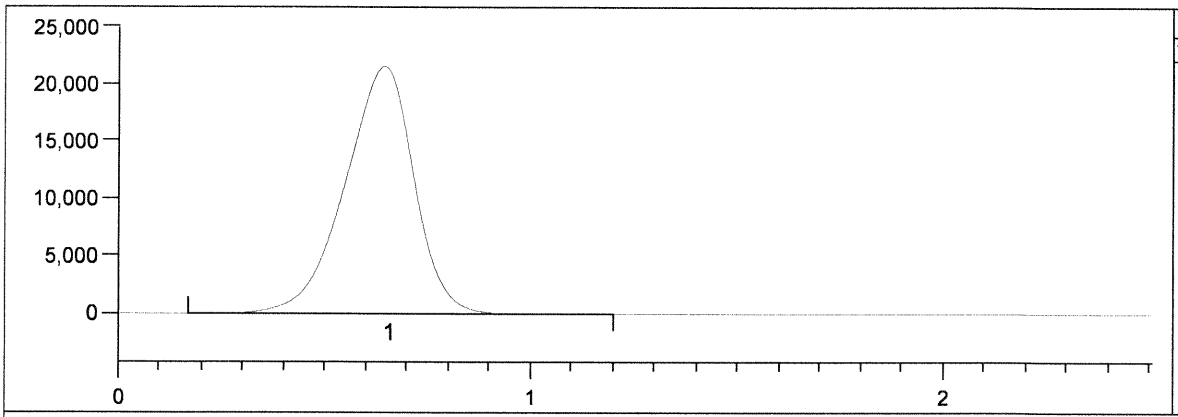


Date:	10/5/23
Time:	11:08 AM

Peak	rt	Area
1	0.65	28,922

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
25	X	MBA	MB-3		1	28,922	1.44	0.0289	0.0289	< 0.5	accept

Notes

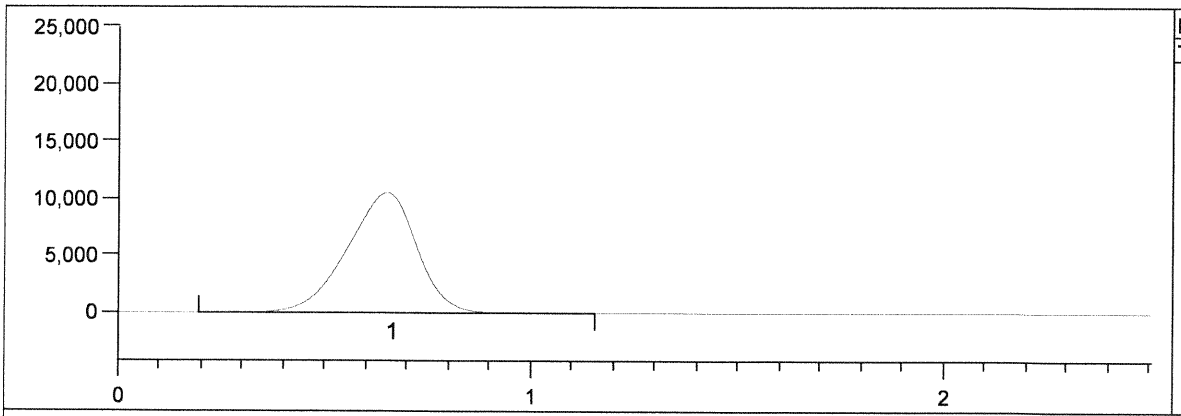


Date:	10/5/23
Time:	11:13 AM

Peak	rt	Area
1	0.64	2,555,789

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
26	Y	OPR	OPR-2		1	2,555,789	251	5.01	100.	77-123	accept

Notes



Date:	10/5/23
Time:	11:18 AM

Peak	rt	Area
1	0.65	1,268,522

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
27	X	OPR	VER/OPR-2		1	1,268,522	124	4.95	99.0	77-123	accept

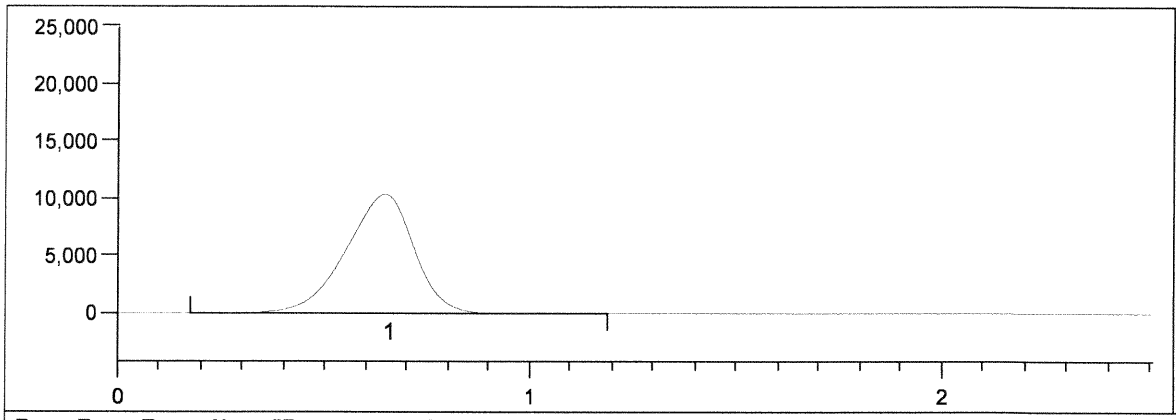
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

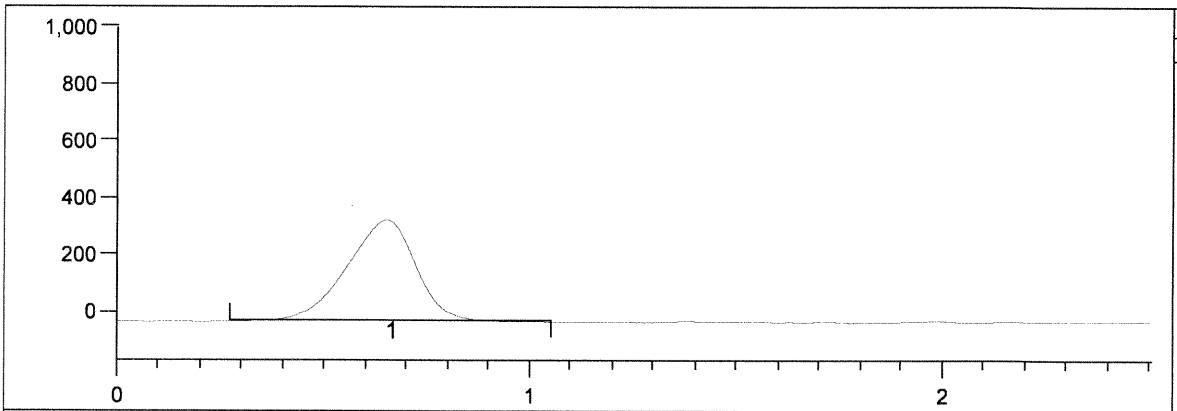


Date:	10/5/23
Time:	11:23 AM

Peak	rt	Area
1	0.64	1,236,794

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
28	Y	QCS	QCS-1		1	1,236,794	121	4.82	96.4	77-123	accept

Notes

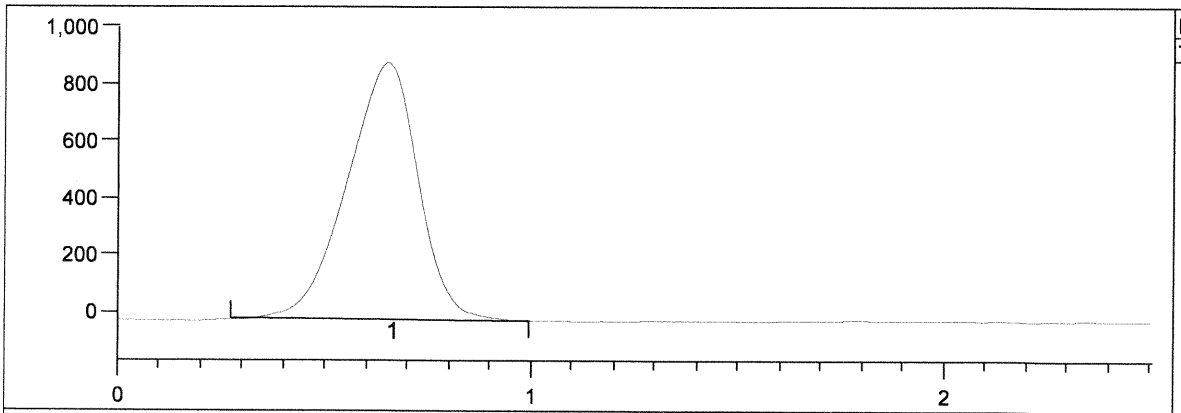


Date:	10/5/23
Time:	11:28 AM

Peak	rt	Area
1	0.65	43,270

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
29	X	MBA	MB-1		1	43,270	2.86	0.114	0.114	< 0.5	accept

Notes



Date:	10/5/23
Time:	1:40 PM

Peak	rt	Area
1	0.65	109,916

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
30	X	S	K2310979-003		1	109,916	9.43	0.377		< HS	accept

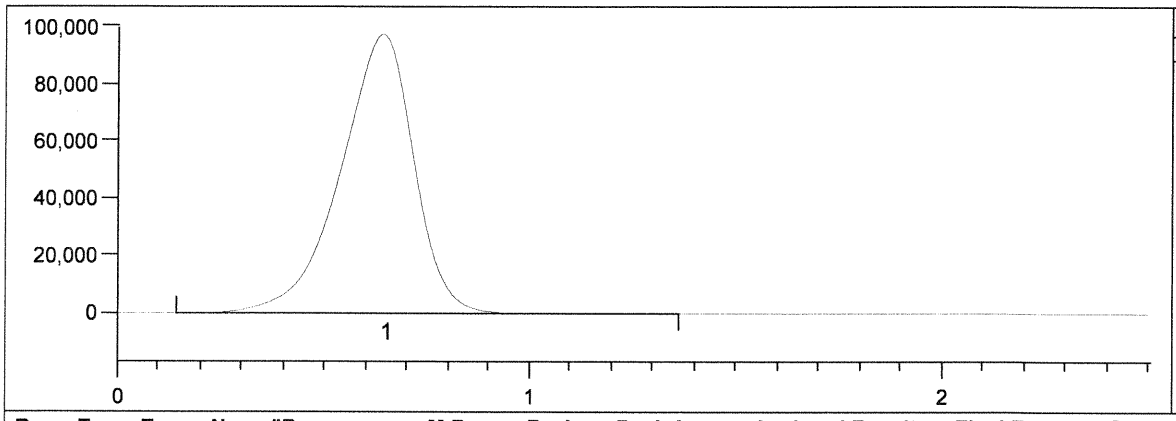
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

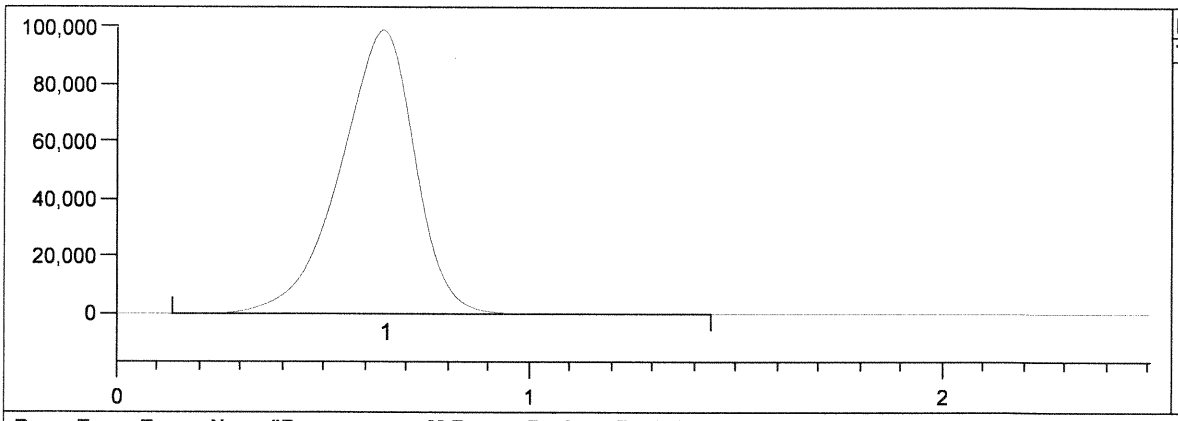
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	1:45 PM

Peak	rt	Area
1	0.64	12,122,511

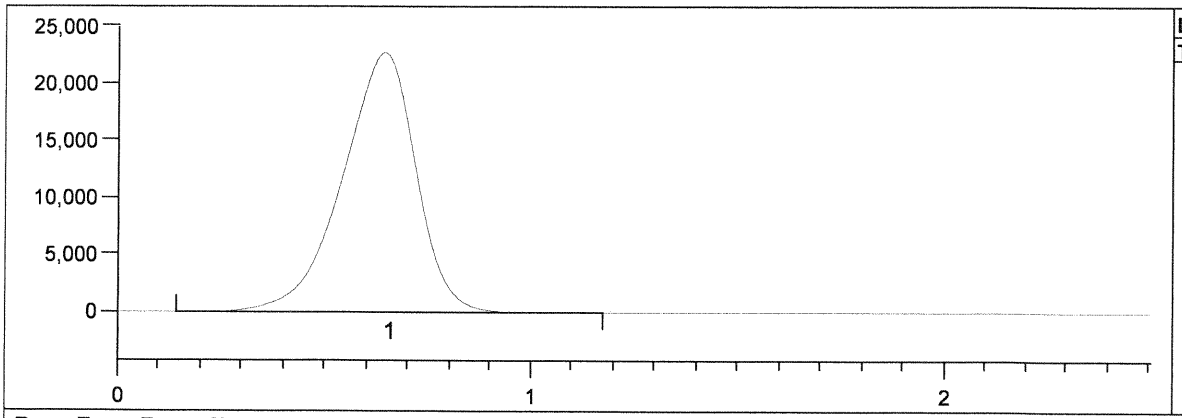
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
31	Y	MS	K2310979-003		1	12,122,511	1,190	47.8	94.8	71-125	accept
Notes											



Date:	10/5/23
Time:	1:50 PM

Peak	rt	Area
1	0.64	12,584,036

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
32	X	MSD	K2310979-003		1	12,584,036	1,240	49.6	98.4	71-125	accept
Notes											



Date:	10/5/23
Time:	1:55 PM

Peak	rt	Area
1	0.64	2,820,701

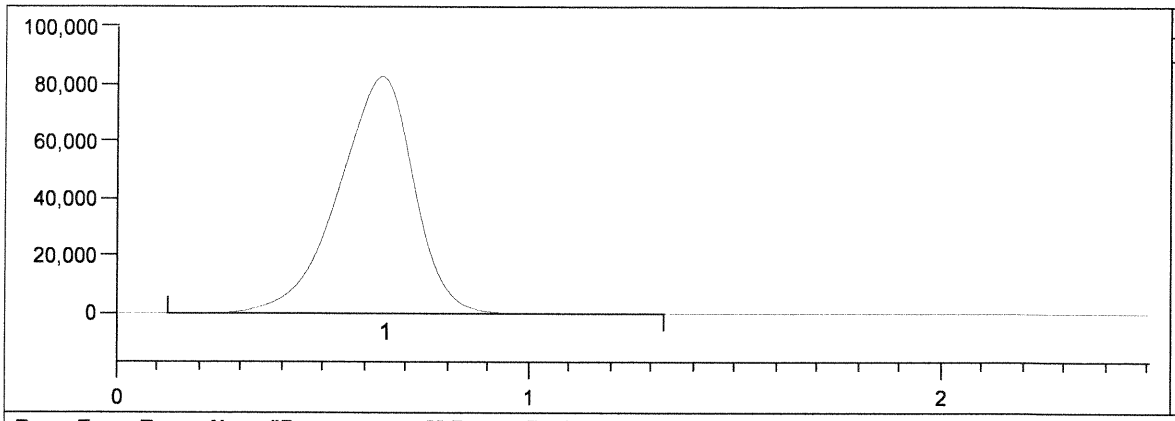
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
33	Y	S	K2310856-001		1	2,820,701	277	11.1		< HS	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

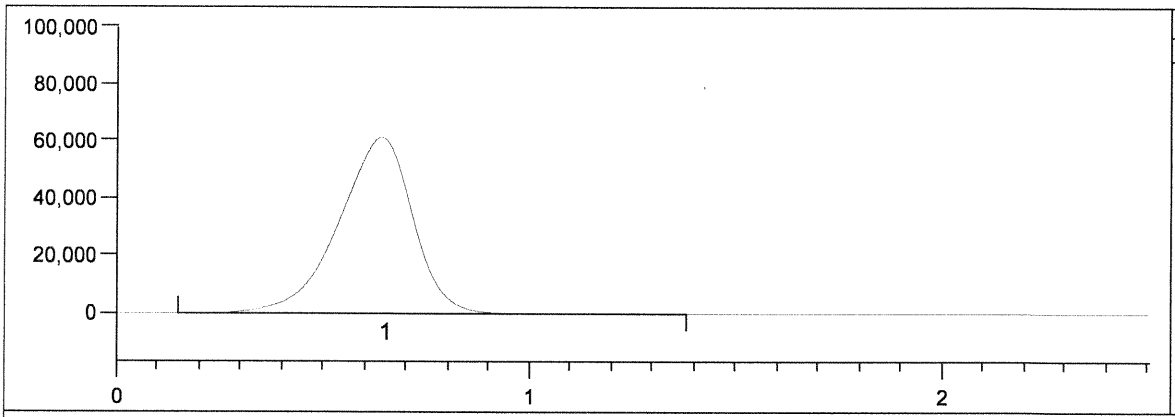
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	2:00 PM

Peak	rt	Area
1	0.64	10,595,446

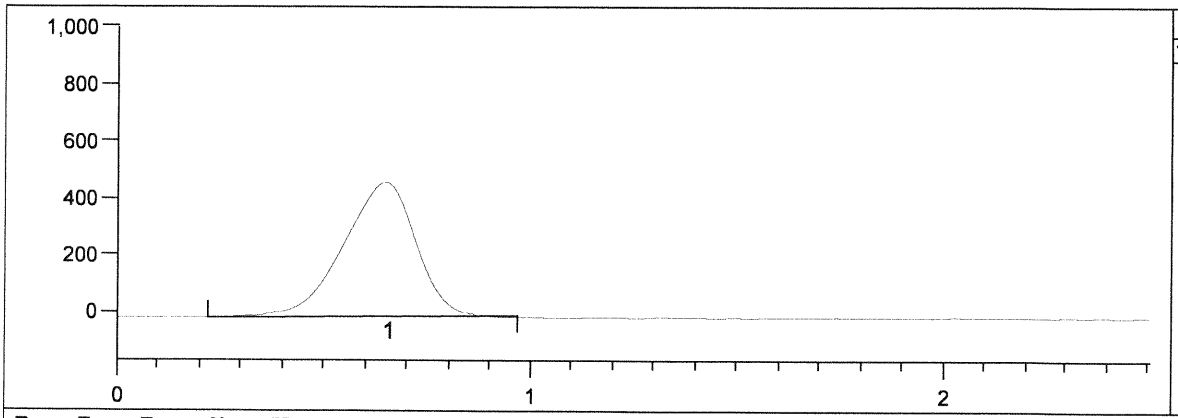
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
34	X	S	K2310868-001		1	10,595,446	1,040	209		< HS	accept
Notes1/5											



Date:	10/5/23
Time:	2:05 PM

Peak	rt	Area
1	0.64	7,674,471

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
35	Y	S	K2310885-001		1	7,674,471	755	30.2		< HS	accept
Notes											



Date:	10/5/23
Time:	2:10 PM

Peak	rt	Area
1	0.64	58,955

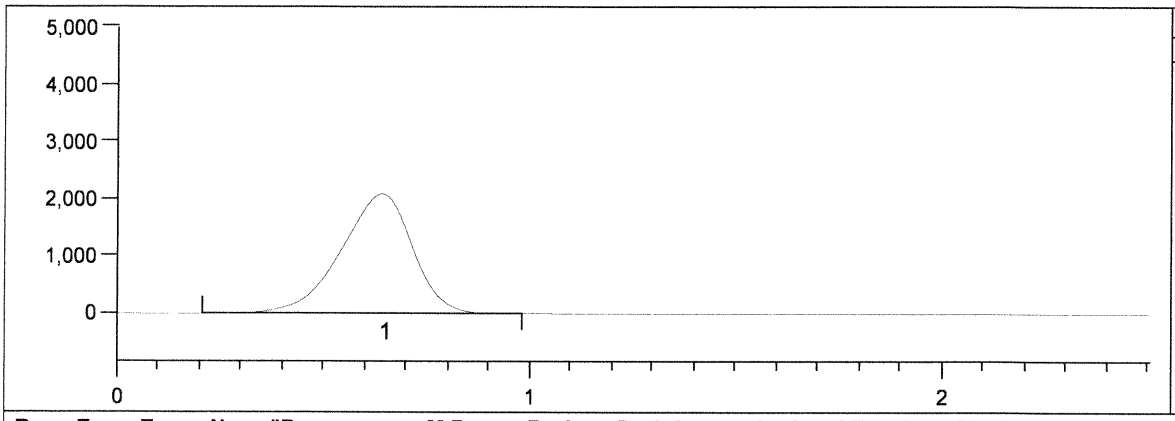
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
36	X	S	K2310941-001		1	58,955	4.41	0.176		< HS	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

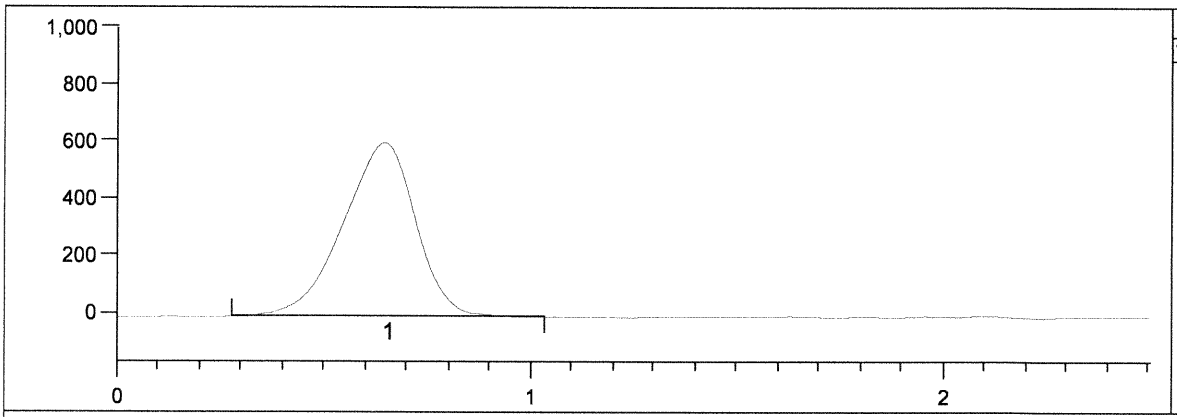
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	2:15 PM

Peak	rt	Area
1	0.64	257,884

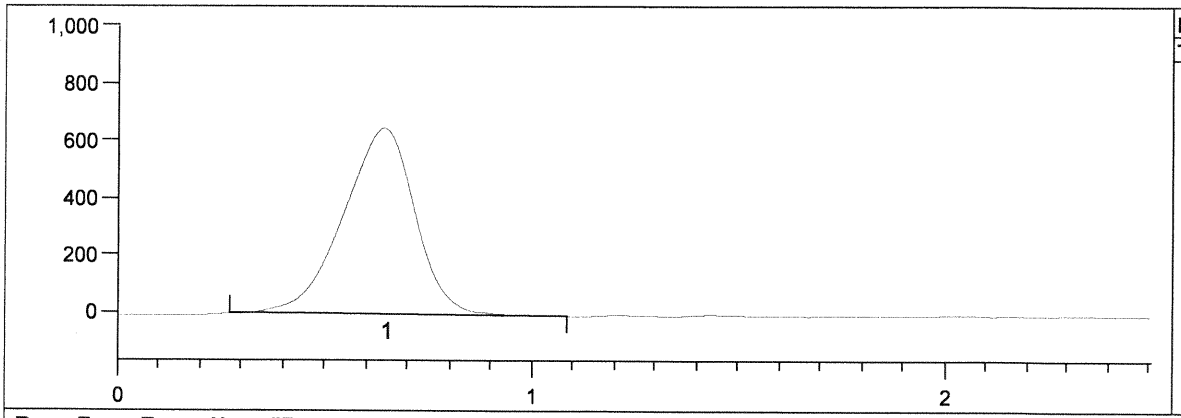
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
37	Y	S	K2310988-001		1	257,884	24.0	0.961		< HS	accept
Notes											



Date:	10/5/23
Time:	2:20 PM

Peak	rt	Area
1	0.64	75,275

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
38	X	S	K2310988-002		1	75,275	6.02	0.241		< HS	accept
Notes											



Date:	10/5/23
Time:	2:25 PM

Peak	rt	Area
1	0.64	80,030

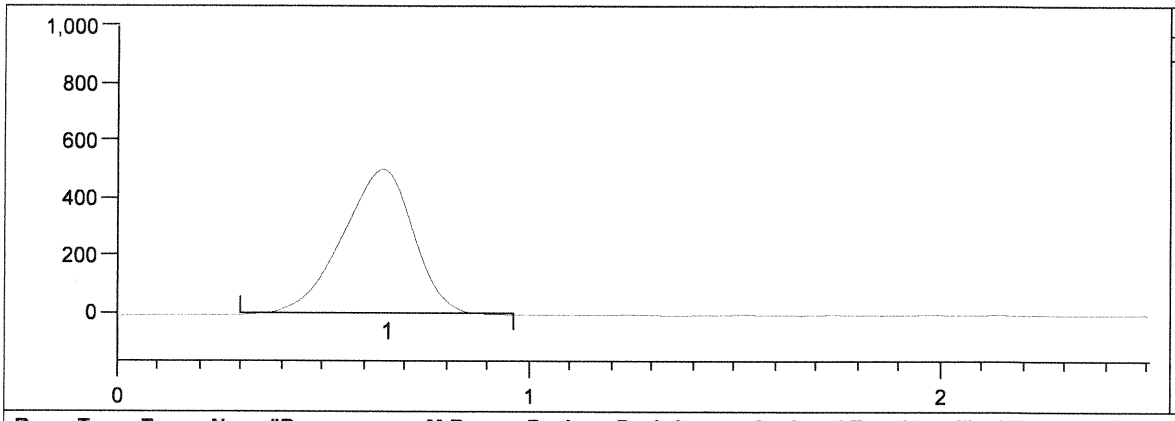
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
39	Y	S	K2310988-003		1	80,030	6.48	0.259		< HS	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

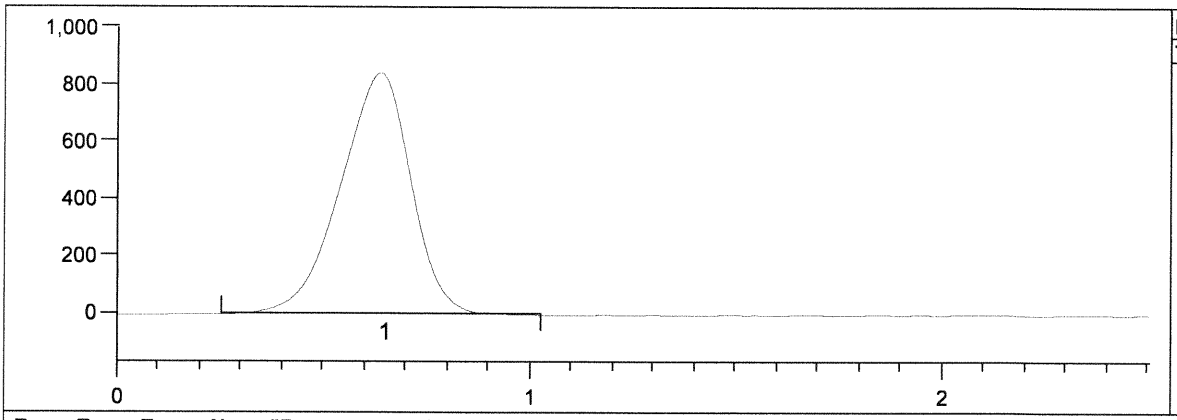
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	2:30 PM

Peak	rt	Area
1	0.64	62,636

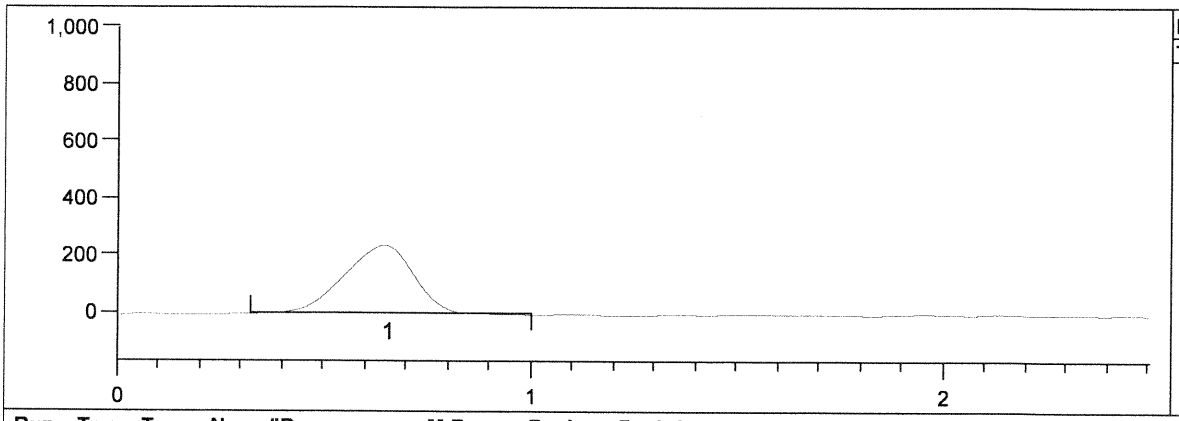
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
40	X	S	K2310988-004		1	62,636	4.77	0.191		< HS	accept
Notes											



Date:	10/5/23
Time:	2:35 PM

Peak	rt	Area
1	0.63	102,108

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
41	Y	S	K2311033-001		1	102,108	8.66	0.346		< HS	accept
Notes											



Date:	10/5/23
Time:	2:40 PM

Peak	rt	Area
1	0.64	29,299

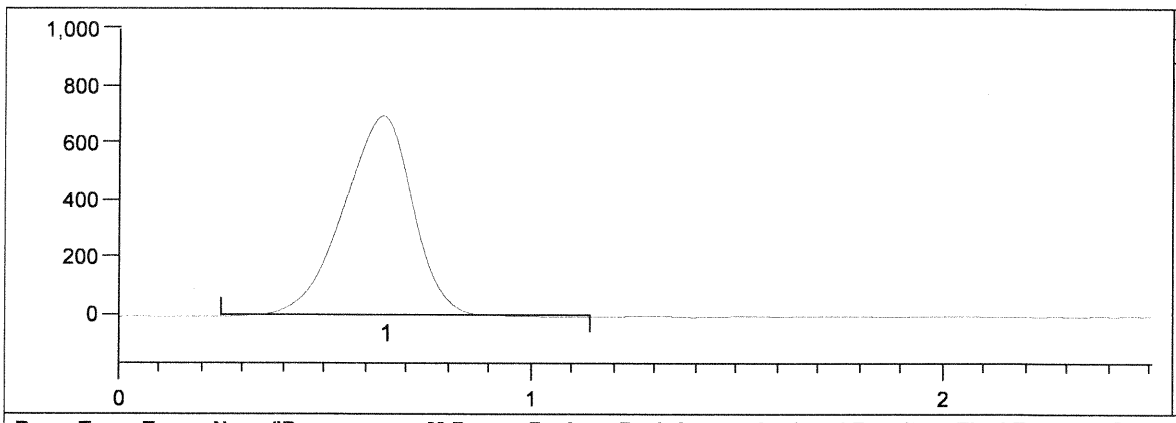
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
42	X	MBA	MB-2		1	29,299	1.48	0.0592	0.0592	< 0.5	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

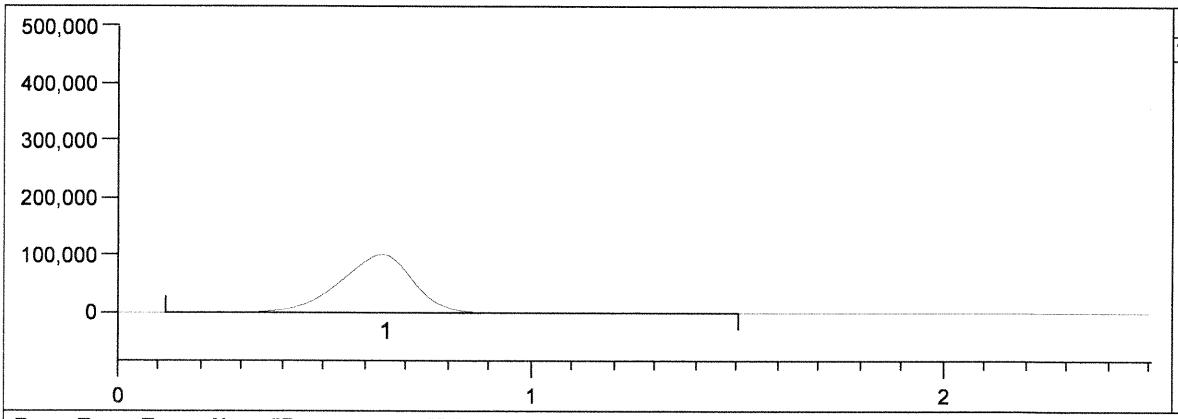


Date: 10/5/23
Time: 2:45 PM

Peak	rt	Area
1	0.64	85,016

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
43	Y	S	K2311033-002		1	85,016	6.98	0.279		< HS	accept

Notes

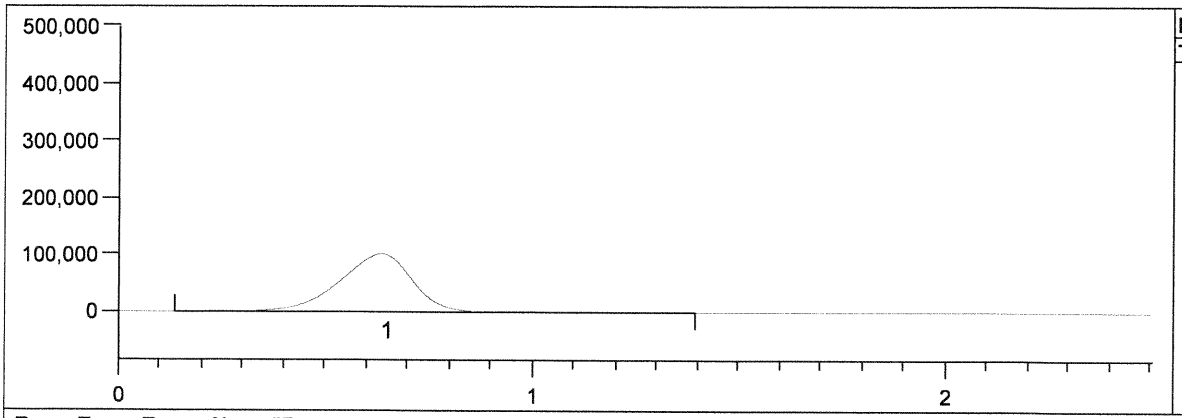


Date: 10/5/23
Time: 2:50 PM

Peak	rt	Area
1	0.64	12,920,442

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
44	X	MS	K2311033-002		1	12,920,442	1,270	50.9	101	71-125	accept

Notes



Date: 10/5/23
Time: 2:55 PM

Peak	rt	Area
1	0.63	12,717,836

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
45	Y	MSD	K2311033-002		1	12,717,836	1,250	50.1	99.7	71-125	accept

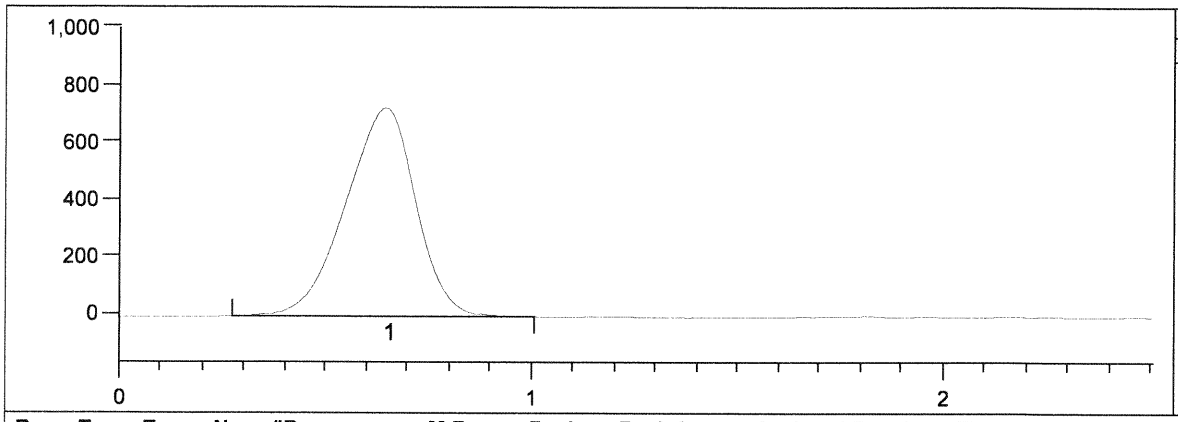
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

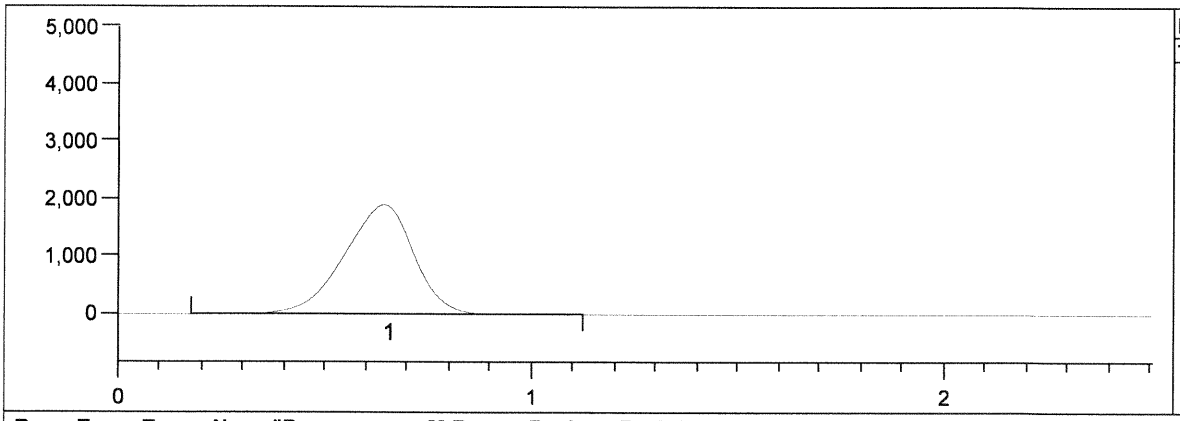


Date:	10/5/23
Time:	3:00 PM

Peak	rt	Area
1	0.64	88,036

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
46	X	S	K2311033-003		1	88,036	7.27	0.291		< HS	accept

Notes

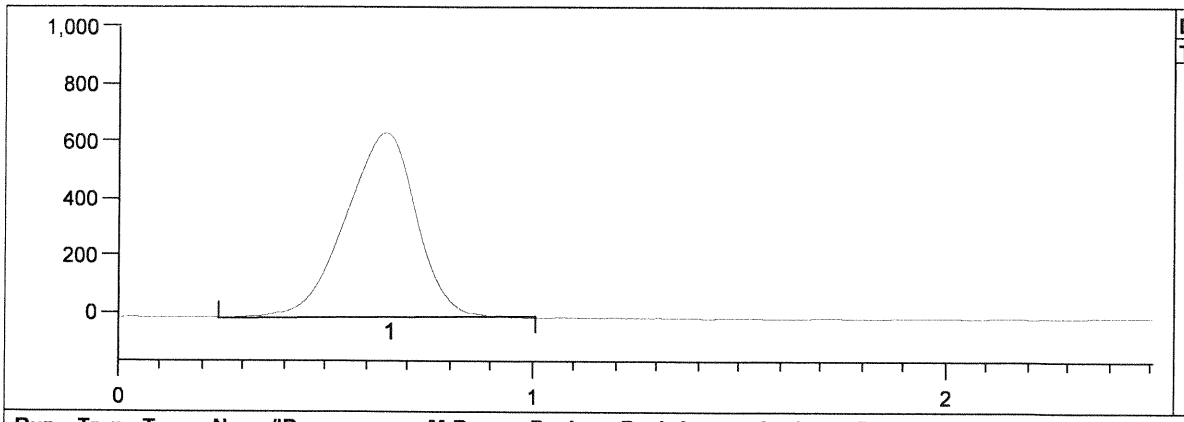


Date:	10/5/23
Time:	3:05 PM

Peak	rt	Area
1	0.64	231,528

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
47	Y	S	K2311033-004		1	231,528	21.4	0.857		< HS	accept

Notes



Date:	10/5/23
Time:	3:10 PM

Peak	rt	Area
1	0.64	79,165

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
48	X	S	K2311033-005		1	79,165	6.40	0.256		< HS	accept

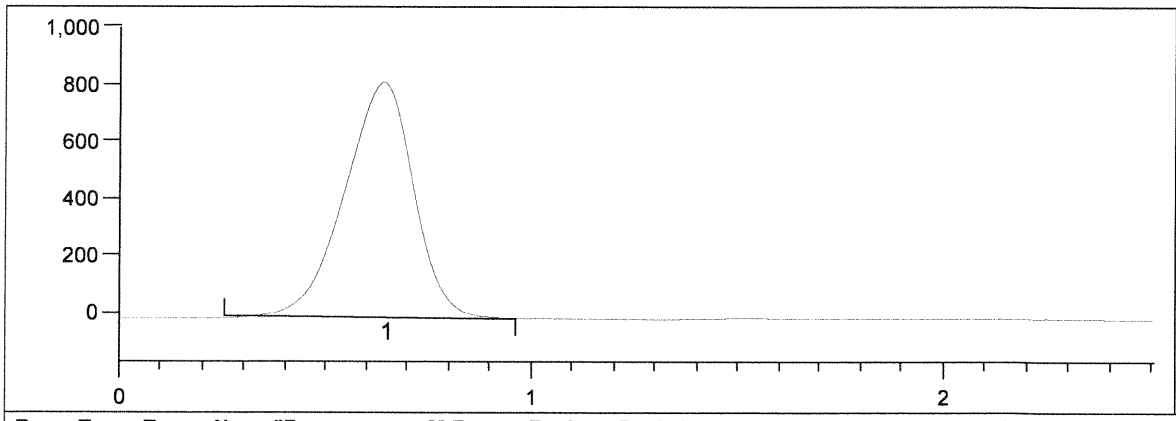
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

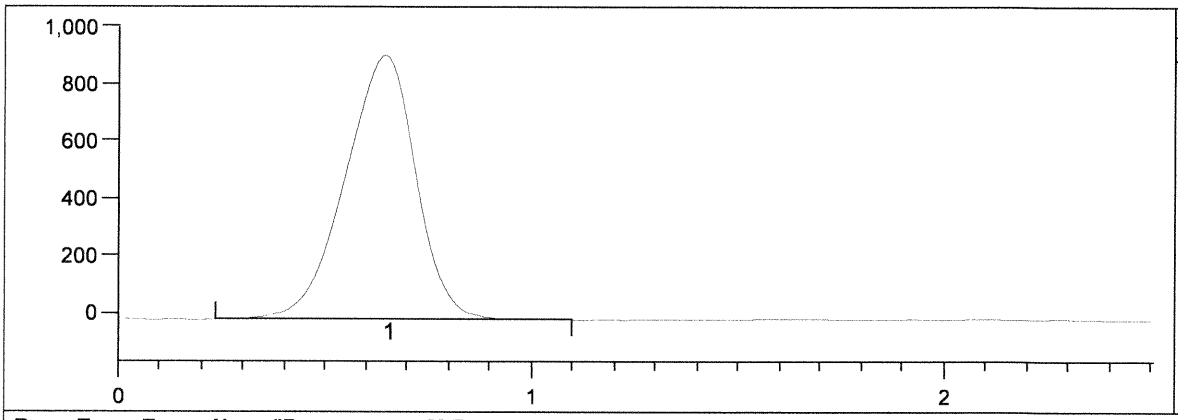
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	3:15 PM

Peak	rt	Area
1	0.64	98,572

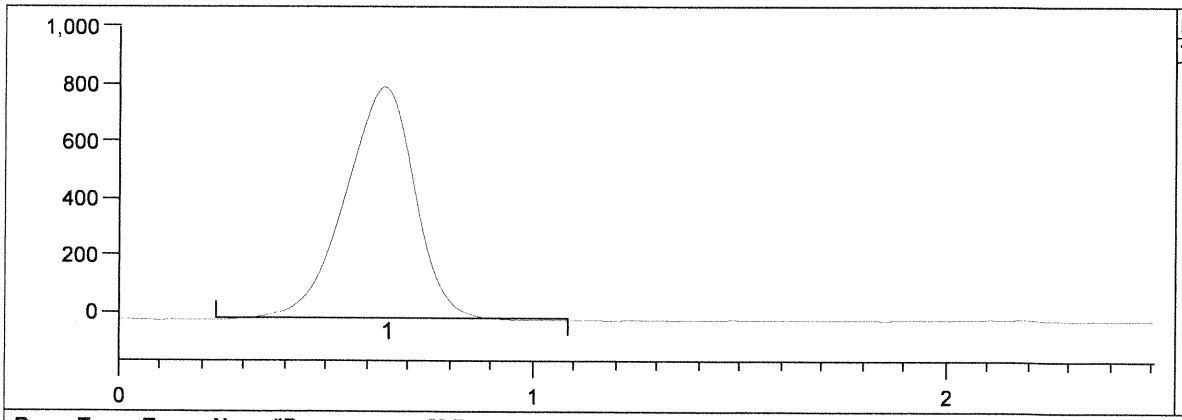
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
49	Y	S	K2311033-006		1	98,572	8.31	0.333		< HS	accept
Notes											



Date:	10/5/23
Time:	3:20 PM

Peak	rt	Area
1	0.64	112,284

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
50	X	S	K2311033-007		1	112,284	9.66	0.387		< HS	accept
Notes											



Date:	10/5/23
Time:	3:25 PM

Peak	rt	Area
1	0.64	98,282

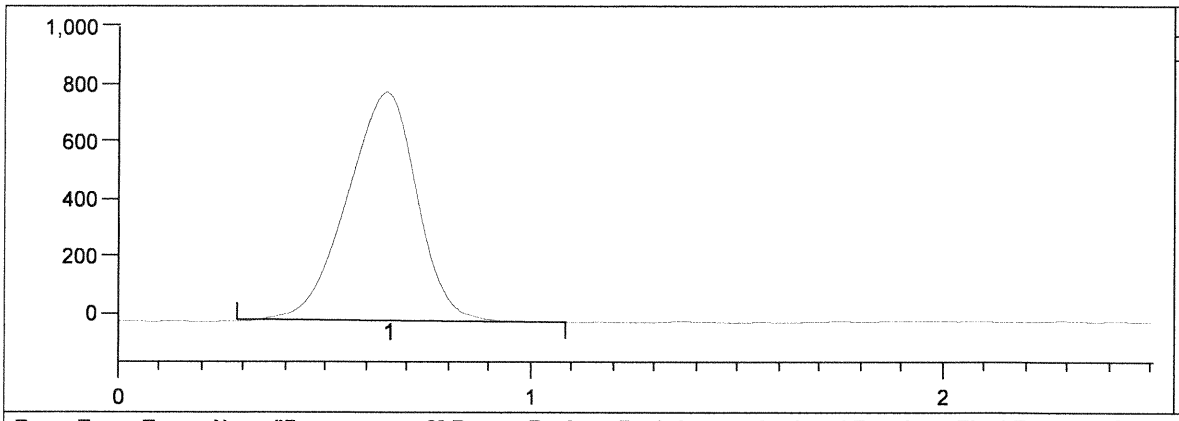
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
51	Y	S	K2311033-008		1	98,282	8.28	0.331		< HS	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

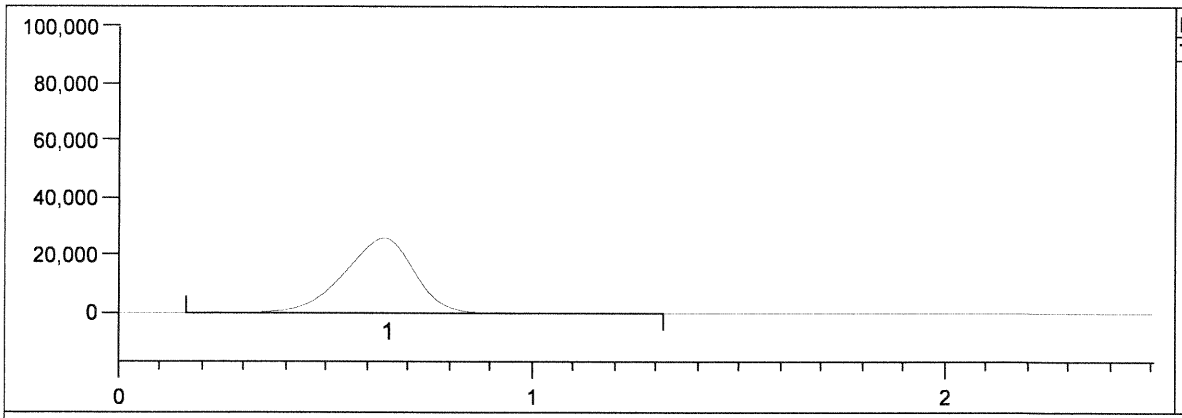


Date:	10/5/23
Time:	3:30 PM

Peak	rt	Area
1	0.64	97,109

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
52	X	S	K2311033-009		1	97,109	8.17	0.327		< HS	accept

Notes

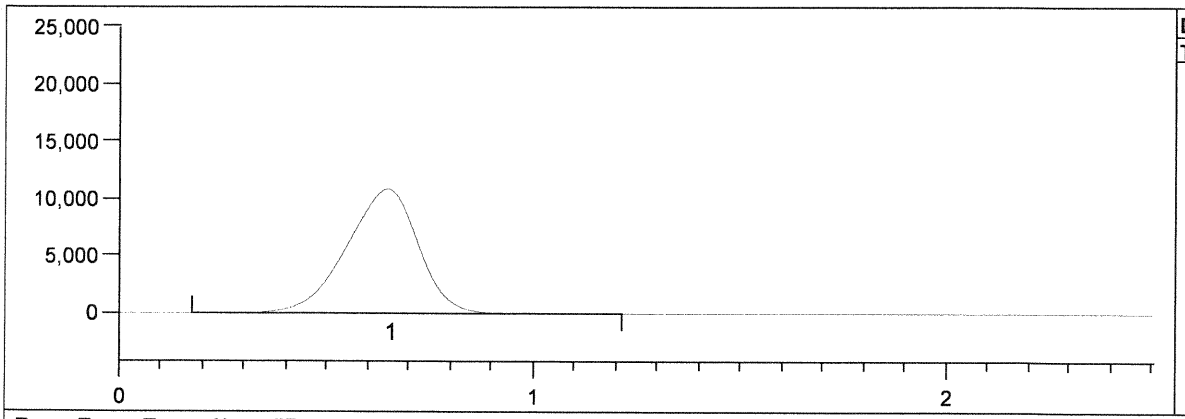


Date:	10/5/23
Time:	3:35 PM

Peak	rt	Area
1	0.64	3,188,984

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
53	Y	S	K2311086-001		1	3,188,984	313	12.5		< HS	accept

Notes



Date:	10/5/23
Time:	3:40 PM

Peak	rt	Area
1	0.64	1,349,857

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
54	X	S	K2311103-001		1	1,349,857	132	5.27		< HS	accept

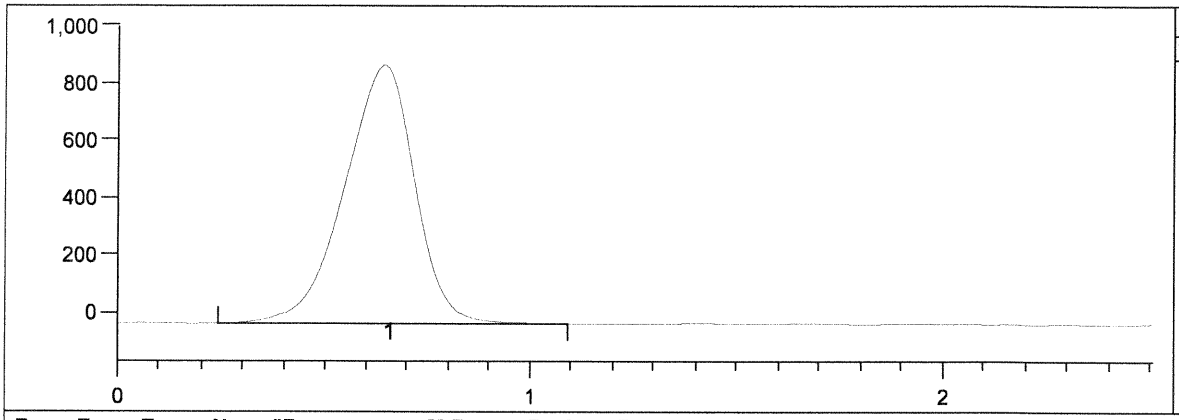
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

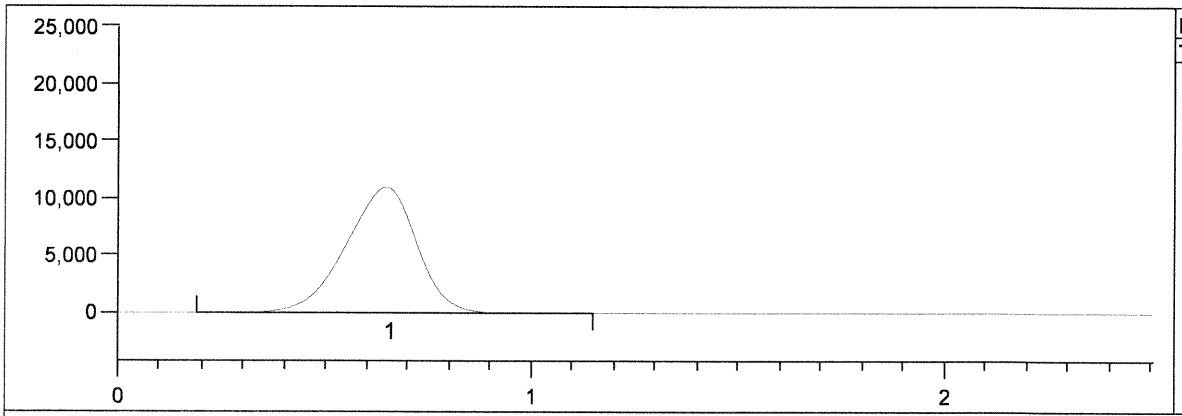


Date:	10/5/23
Time:	3:45 PM

Peak	rt	Area
1	0.64	109,144

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
55	Y	MBA	MB-3		1	109,144	9.36	0.374	0.374	< 0.5	accept

Notes

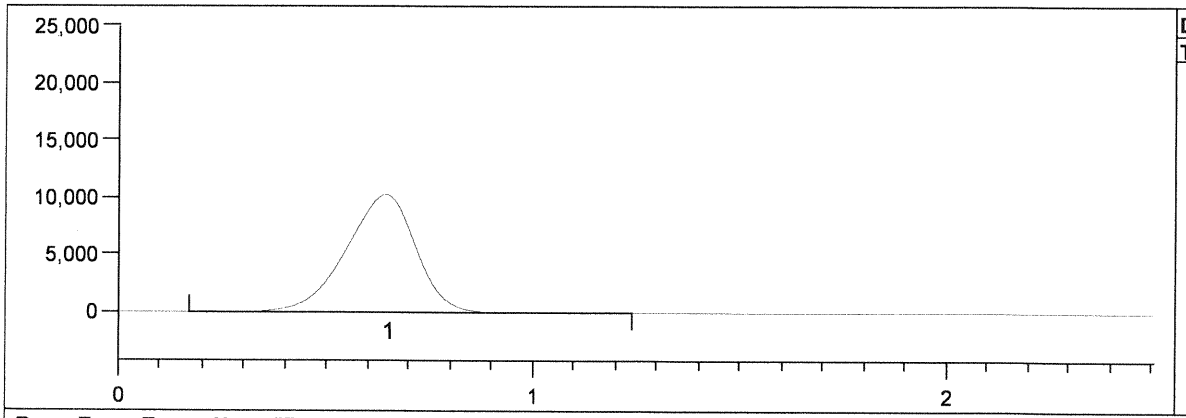


Date:	10/5/23
Time:	3:50 PM

Peak	rt	Area
1	0.64	1,356,464

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
56	X	OPR	OPR-3		1	1,356,464	132	5.29	106	77-123	accept

Notes



Date:	10/5/23
Time:	3:55 PM

Peak	rt	Area
1	0.64	1,245,206

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
57	Y	QCS	QCS-1		1	1,245,206	121	4.86	97.1	77-123	accept

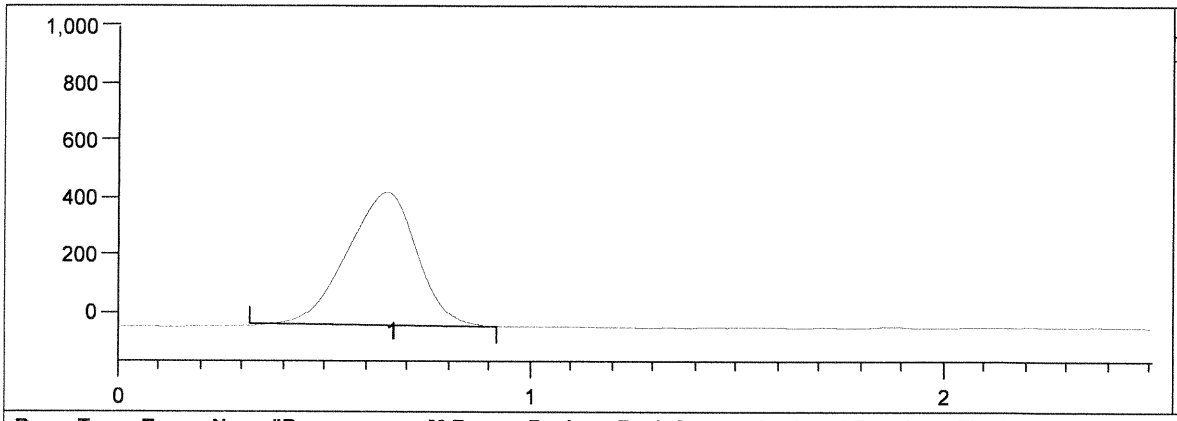
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

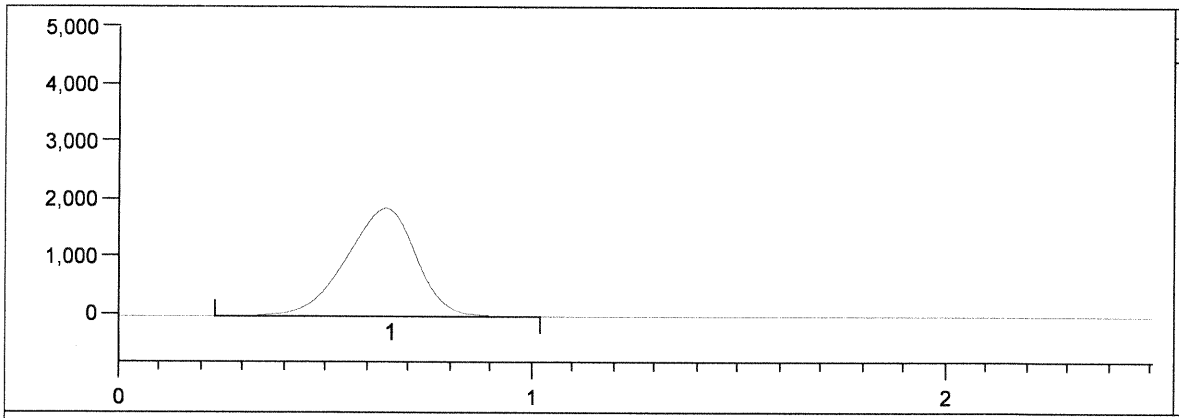


Date:	10/5/23
Time:	4:00 PM

Peak	rt	Area
1	0.65	55,699

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
58	X	MBA	MB-1		1	55,699	4.08	0.163	0.163	< 0.5	accept

Notes

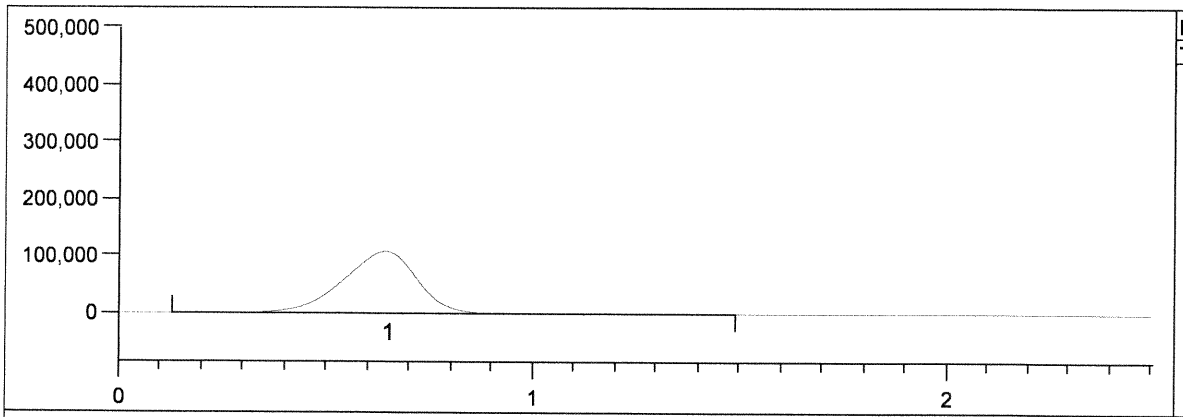


Date:	10/5/23
Time:	4:05 PM

Peak	rt	Area
1	0.64	229,710

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
59	Y	S	K2311042-007		1	229,710	21.2	0.850		< HS	accept

Notes



Date:	10/5/23
Time:	4:10 PM

Peak	rt	Area
1	0.64	13,687,226

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
60	X	MS	K2311042-007		1	13,687,226	1,350	53.9	106	71-125	accept

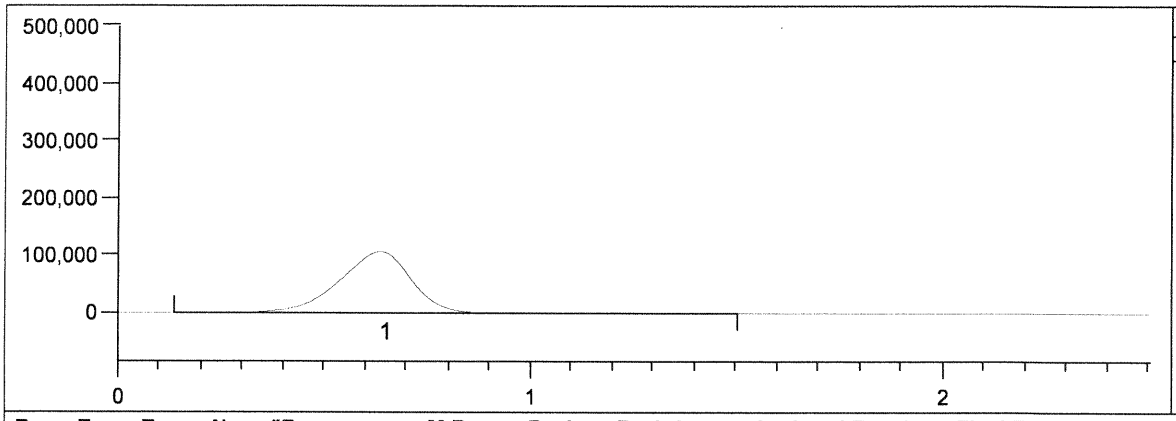
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

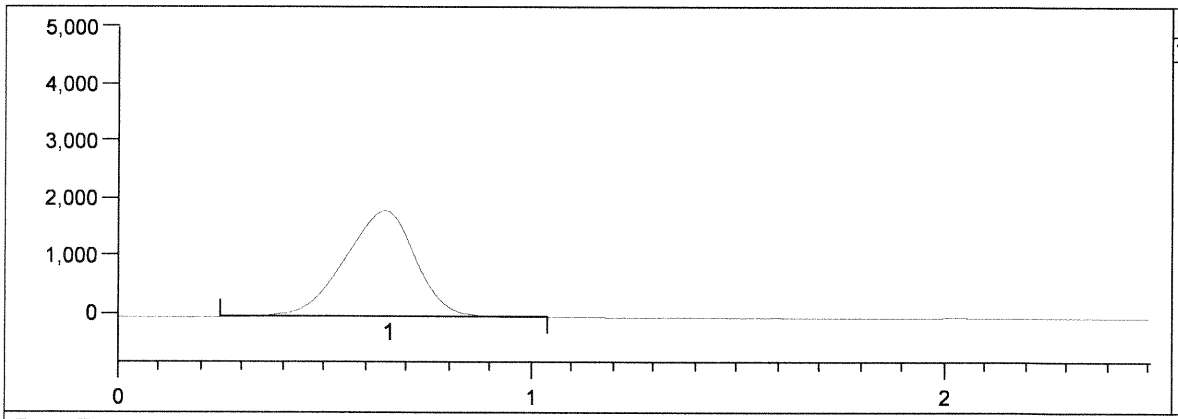
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	4:15 PM

Peak	rt	Area
1	0.63	13,260,027

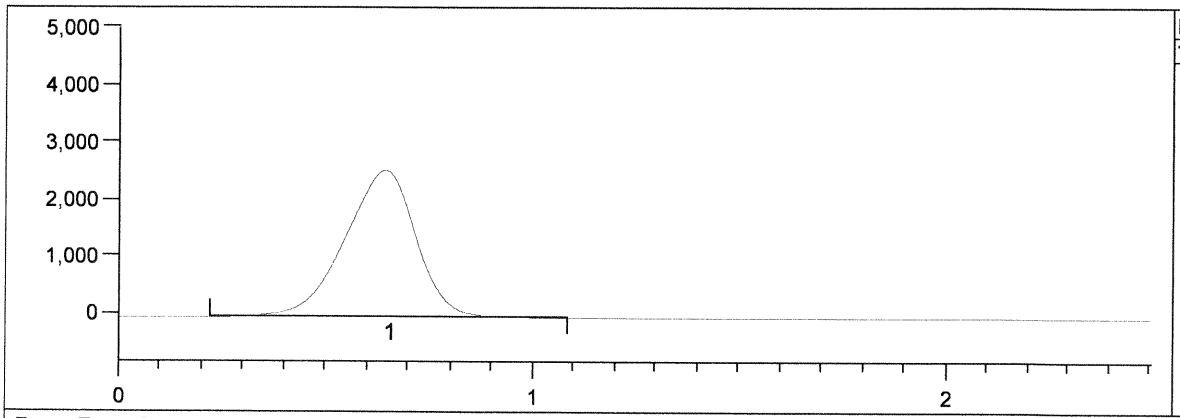
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
61	Y	MSD	K2311042-007		1	13,260,027	1,310	52.3	103	71-125	accept
Notes											



Date:	10/5/23
Time:	4:20 PM

Peak	rt	Area
1	0.64	226,537

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
62		S	K2311042-001		1	226,537	20.9	0.837		< HS	accept
Notes											



Date:	10/5/23
Time:	4:25 PM

Peak	rt	Area
1	0.64	313,518

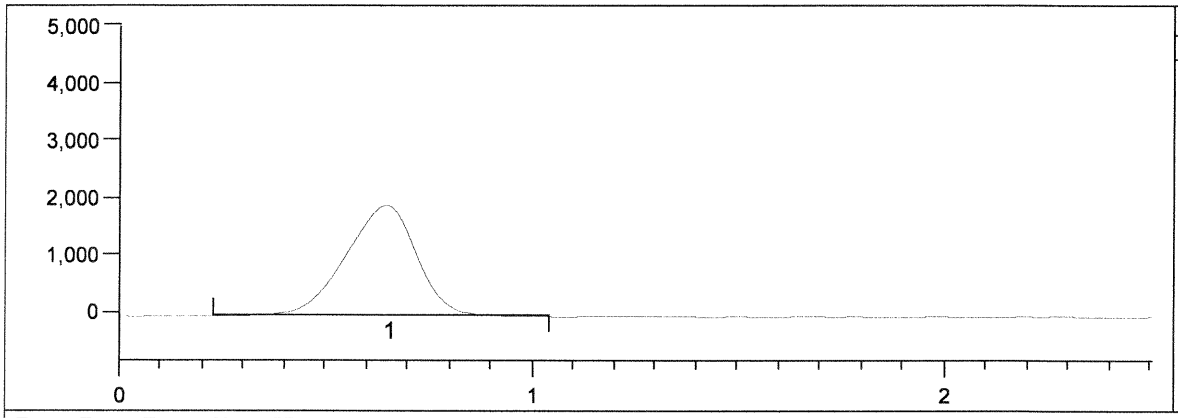
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
63		S	K2311042-002		1	313,518	29.5	1.18		< HS	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

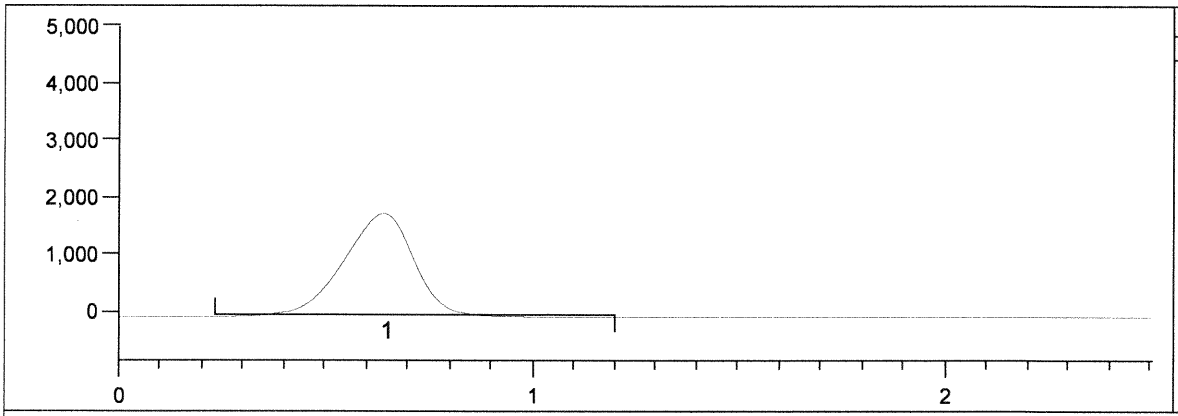
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	4:30 PM

Peak	rt	Area
1	0.64	239,744

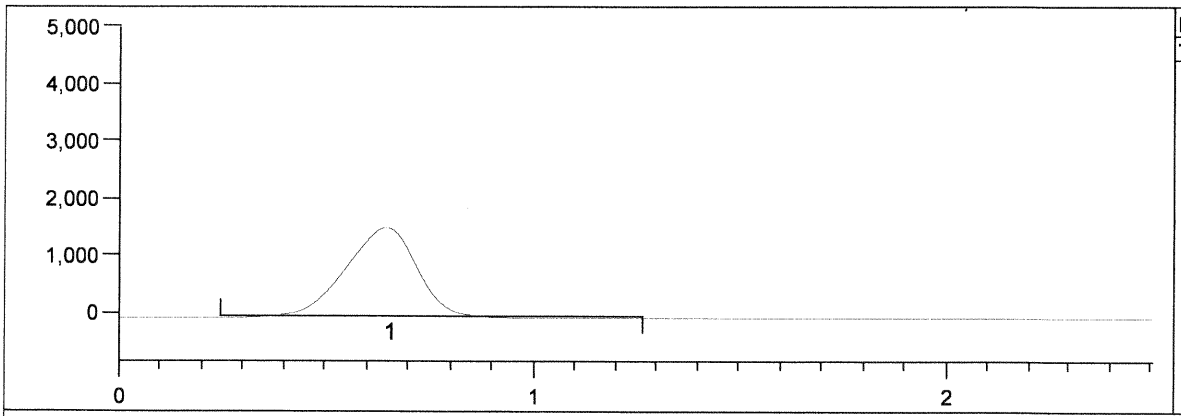
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
64	X	S	K2311042-003		1	239,744	22.2	0.889		< HS	accept
Notes											



Date:	10/5/23
Time:	4:35 PM

Peak	rt	Area
1	0.64	218,711

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
65	Y	S	K2311042-004		1	218,711	20.2	0.806		< HS	accept
Notes											



Date:	10/5/23
Time:	4:40 PM

Peak	rt	Area
1	0.64	194,475

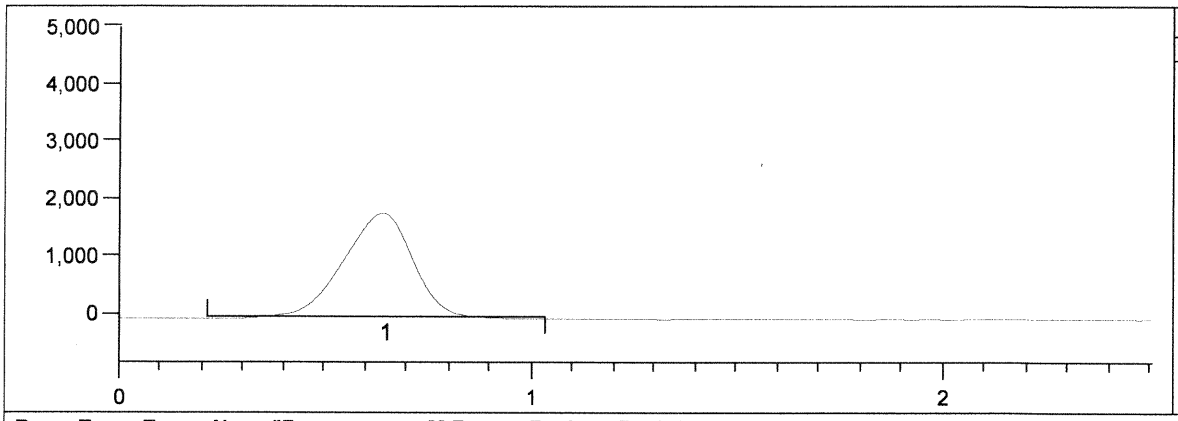
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
66	X	S	K2311042-005		1	194,475	17.8	0.711		< HS	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

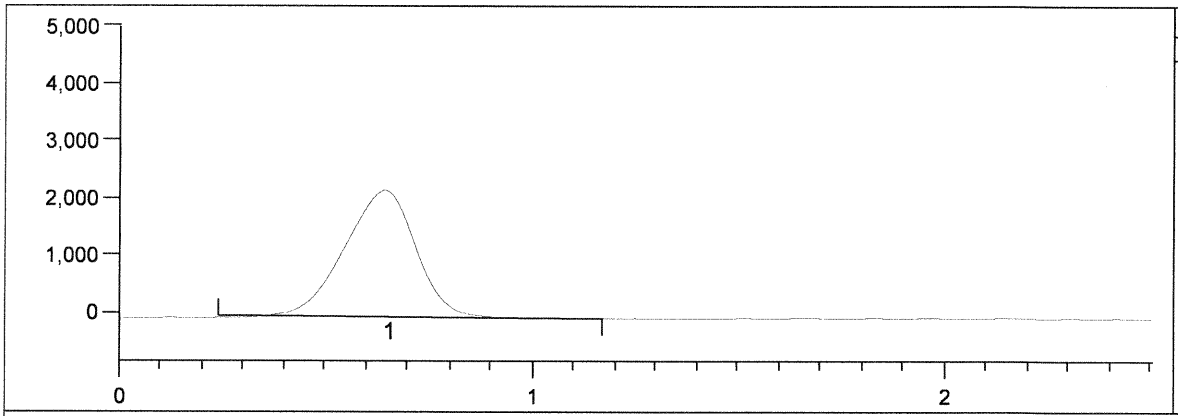


Date:	10/5/23
Time:	4:45 PM

Peak	rt	Area
1	0.64	223,302

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
67	Y	S	K2311042-006		1	223,302	20.6	0.825		< HS	accept

Notes

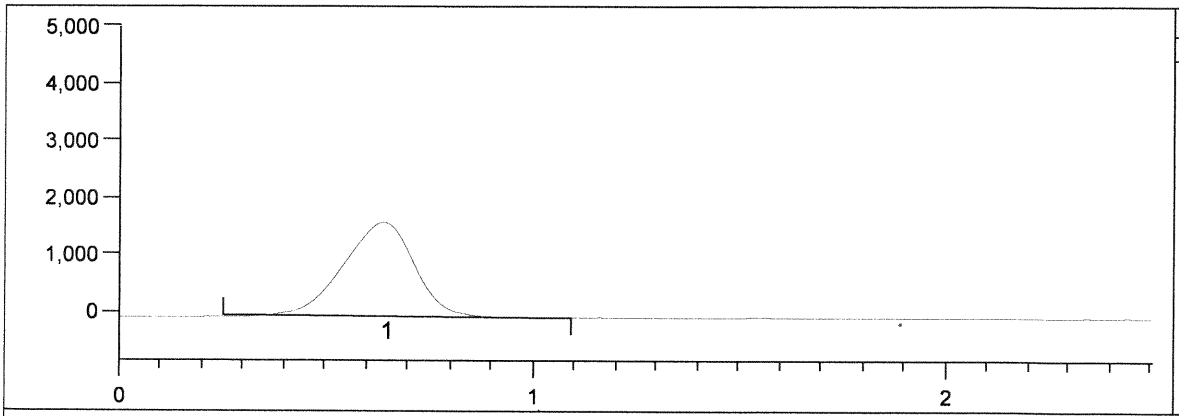


Date:	10/5/23
Time:	4:50 PM

Peak	rt	Area
1	0.64	273,870

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
68	X	S	K2311042-008		1	273,870	25.6	1.02		< HS	accept

Notes



Date:	10/5/23
Time:	4:55 PM

Peak	rt	Area
1	0.64	202,681

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
69	Y	S	K2311042-009		1	202,681	18.6	0.743		< HS	accept

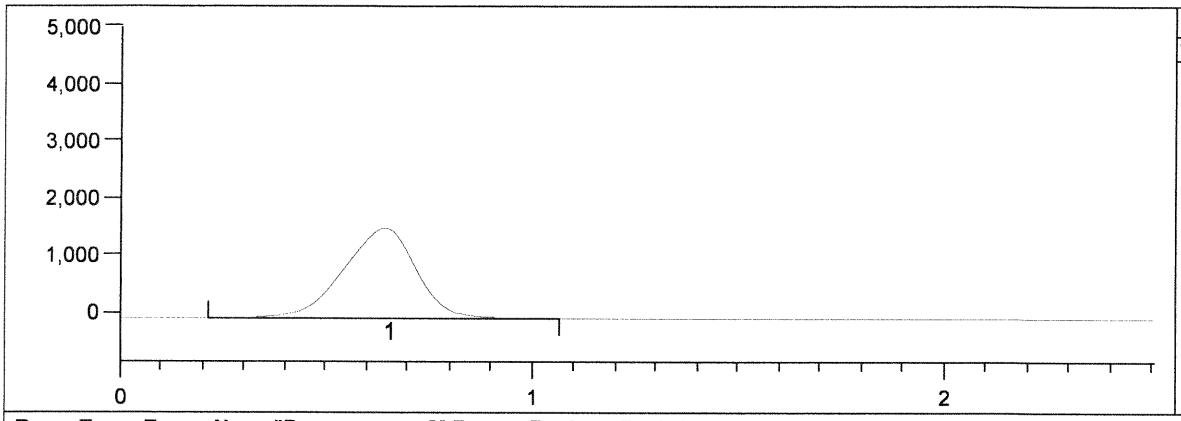
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

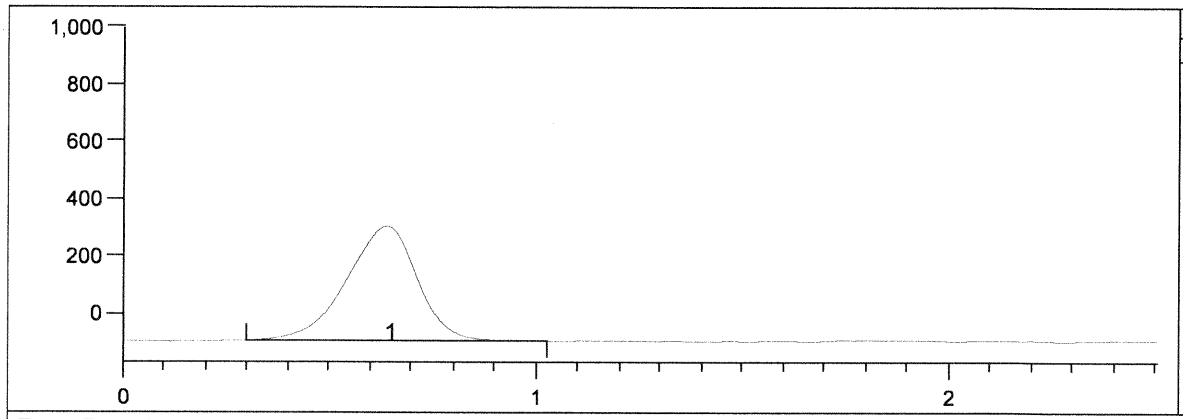


Date: 10/5/23
Time: 5:00 PM

Peak	rt	Area
1	0.64	194,541

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
70	X	S	K2311042-010		1	194,541	17.8	0.711		< HS	accept

Notes

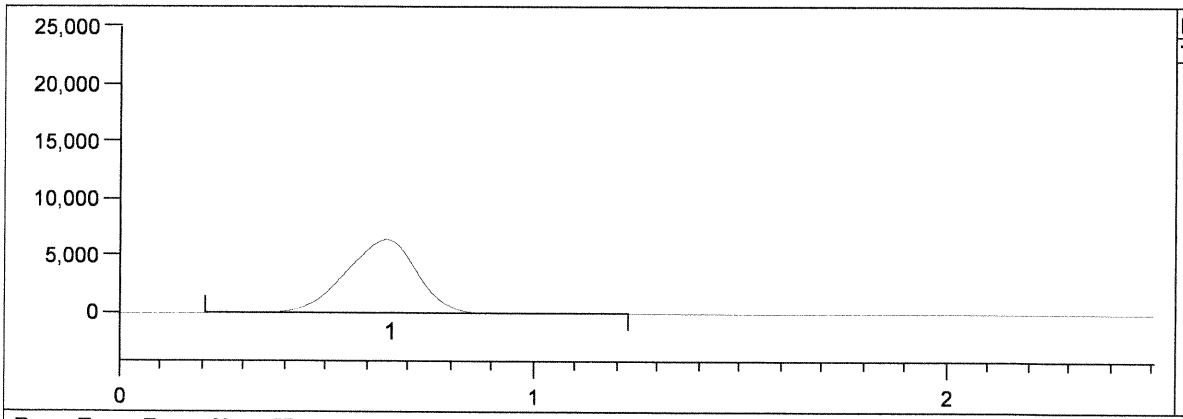


Date: 10/5/23
Time: 5:05 PM

Peak	rt	Area
1	0.64	47,898

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
71	Y	MBA	MB-2		1	47,898	3.32	0.133	0.133	< 0.5	accept

Notes



Date: 10/5/23
Time: 5:10 PM

Peak	rt	Area
1	0.64	810,199

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
72	X	S	K2311042-011		1	810,199	78.5	3.14		< HS	accept

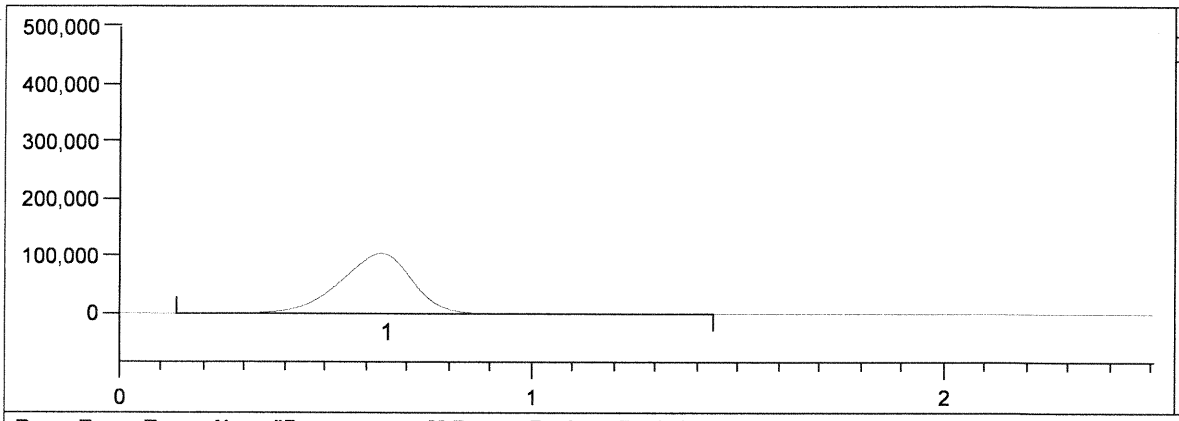
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

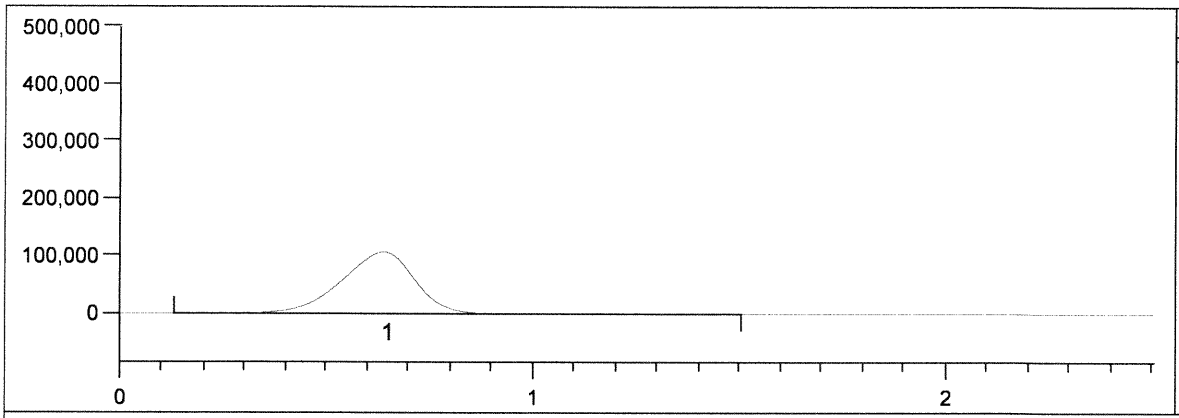
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	5:15 PM

Peak	rt	Area
1	0.63	13,225,832

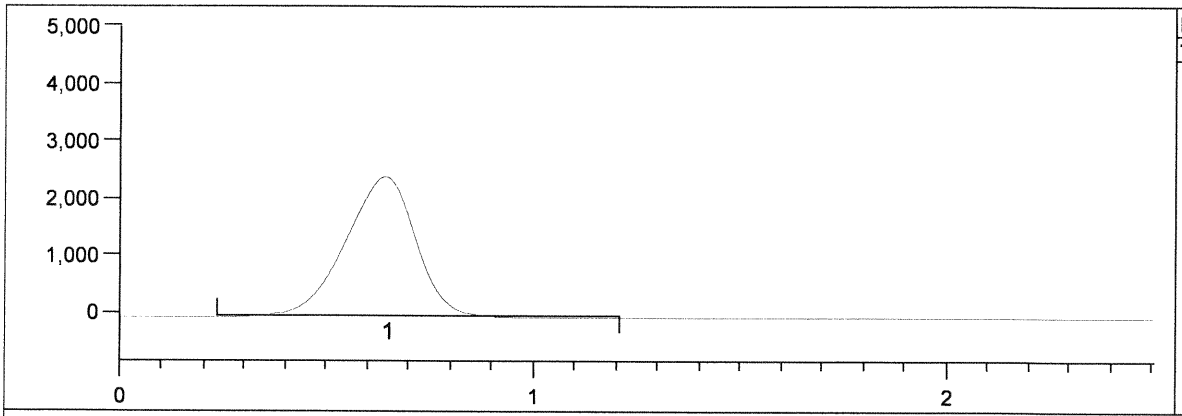
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
73	Y	MS	K2311042-011		1	13,225,832	1,300	52.1	98.0	71-125	accept
Notes											



Date:	10/5/23
Time:	5:20 PM

Peak	rt	Area
1	0.64	13,620,318

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
74	X	MSD	K2311042-011		1	13,620,318	1,340	53.7	101	71-125	accept
Notes											



Date:	10/5/23
Time:	5:25 PM

Peak	rt	Area
1	0.64	298,843

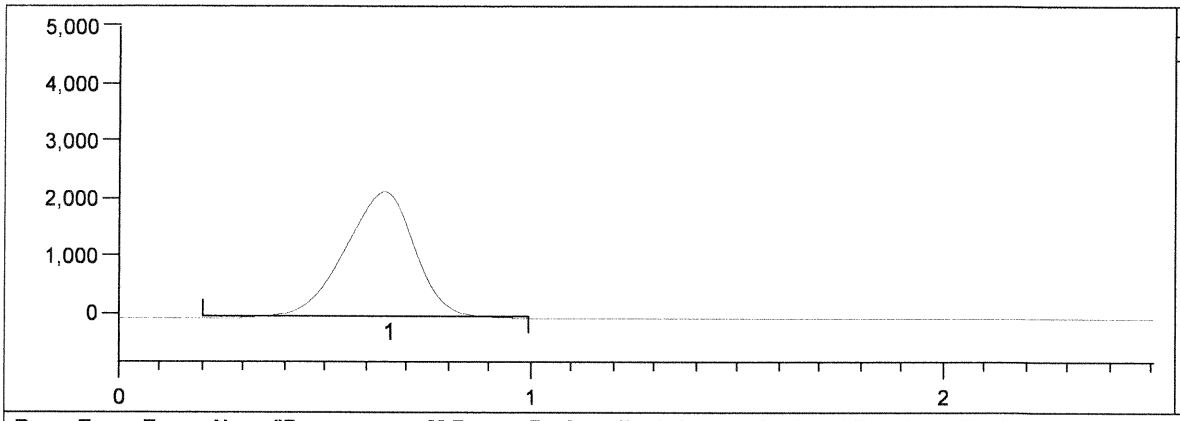
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
75	Y	S	K2311042-012		1	298,843	28.1	1.12		< HS	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

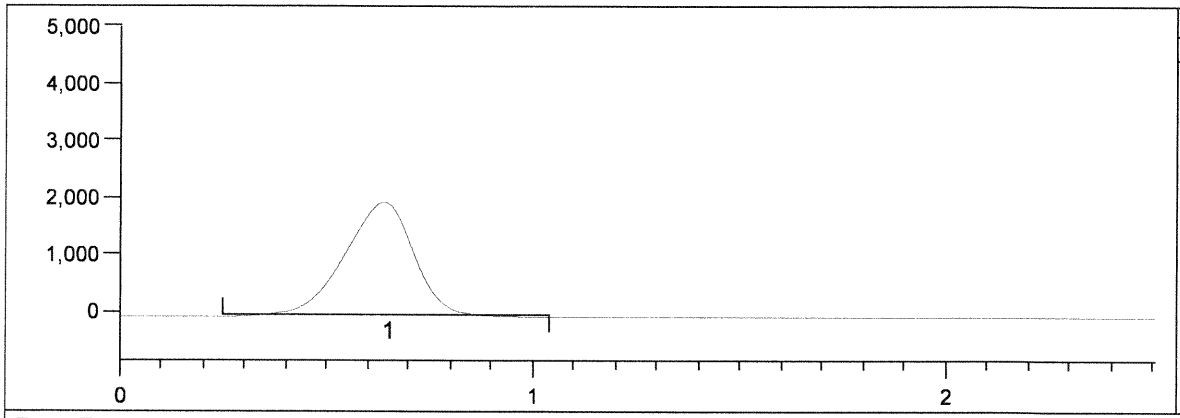


Date:	10/5/23
Time:	5:30 PM

Peak	rt	Area
1	0.64	270,977

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
76	X	S	K2311042-013		1	270,977	25.3	1.01		< HS	accept

Notes

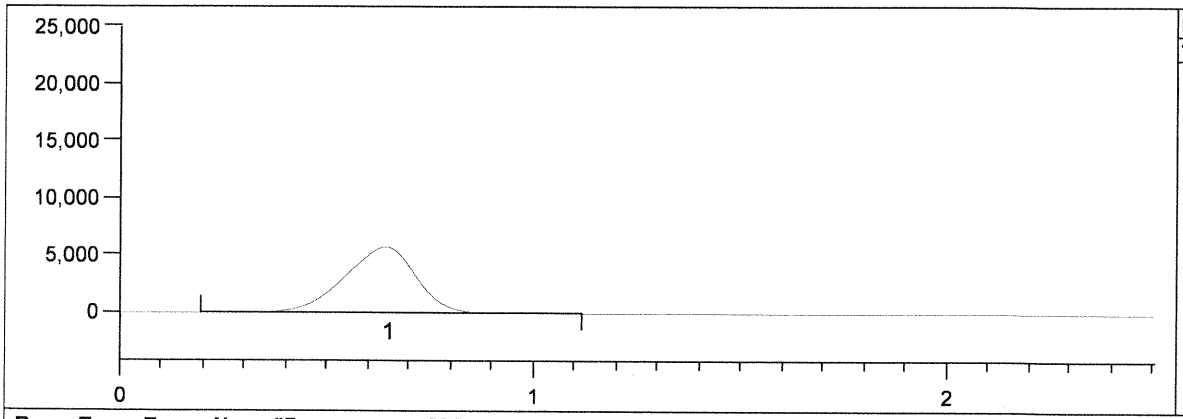


Date:	10/5/23
Time:	5:35 PM

Peak	rt	Area
1	0.63	242,315

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
77	Y	S	K2311042-014		1	242,315	22.5	0.900		< HS	accept

Notes



Date:	10/5/23
Time:	5:40 PM

Peak	rt	Area
1	0.64	728,994

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
78	X	S	K2311097-001		1	728,994	70.5	2.82		< HS	accept

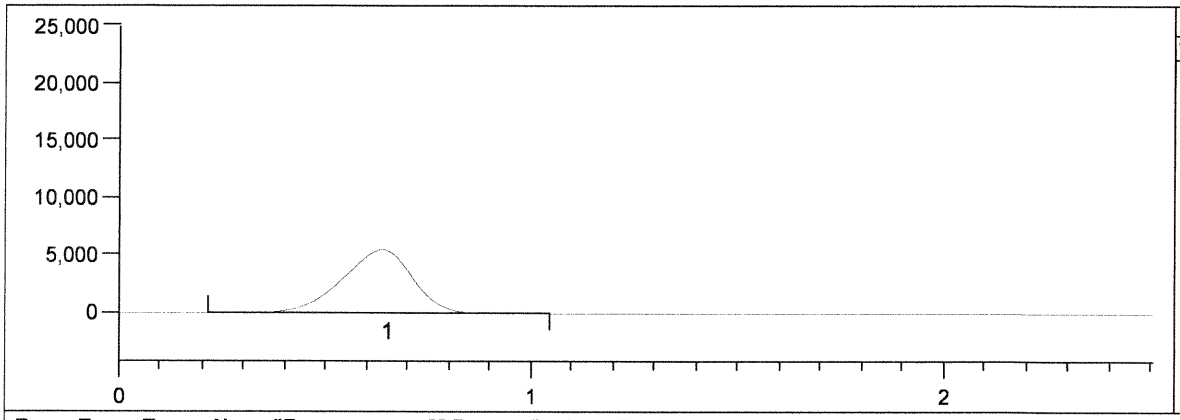
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

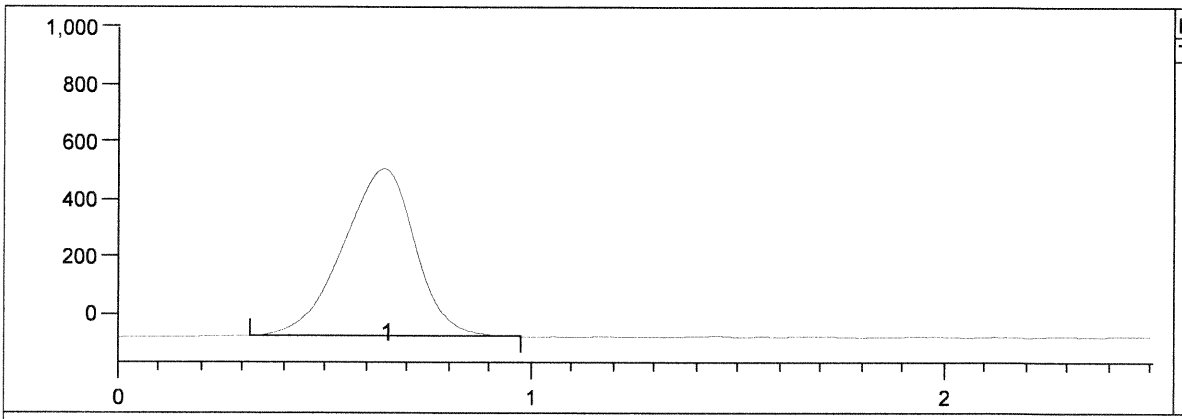


Date:	10/5/23
Time:	5:45 PM

Peak	rt	Area
1	0.63	688,772

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
79	Y	S	K2311097-002		1	688,772	66.5	2.66		< HS	accept

Notes

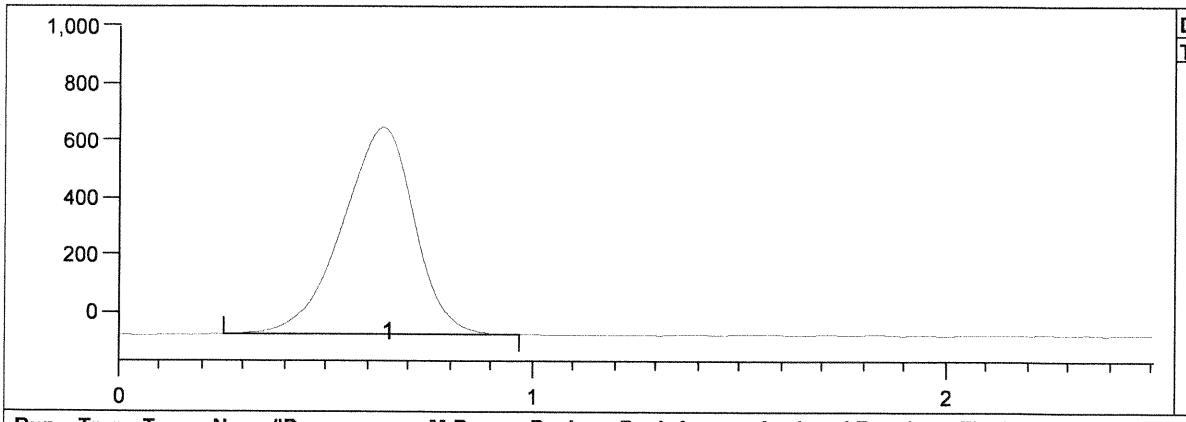


Date:	10/5/23
Time:	5:50 PM

Peak	rt	Area
1	0.64	72,223

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
80	X	S	K2311097-003		1	72,223	5.71	0.229		< HS	accept

Notes



Date:	10/5/23
Time:	5:55 PM

Peak	rt	Area
1	0.63	88,595

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
81	Y	S	K2311097-004		1	88,595	7.33	5.86		< HS	accept

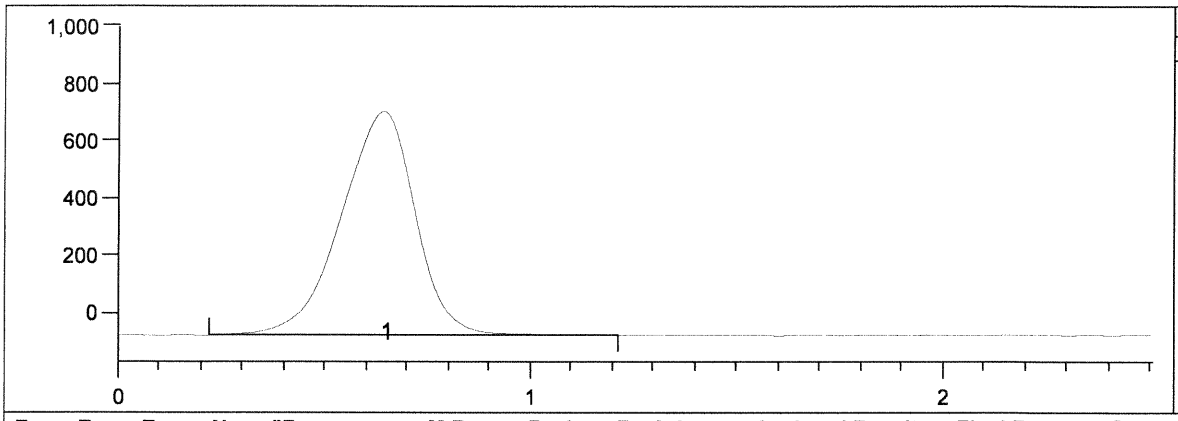
Notes1/20

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

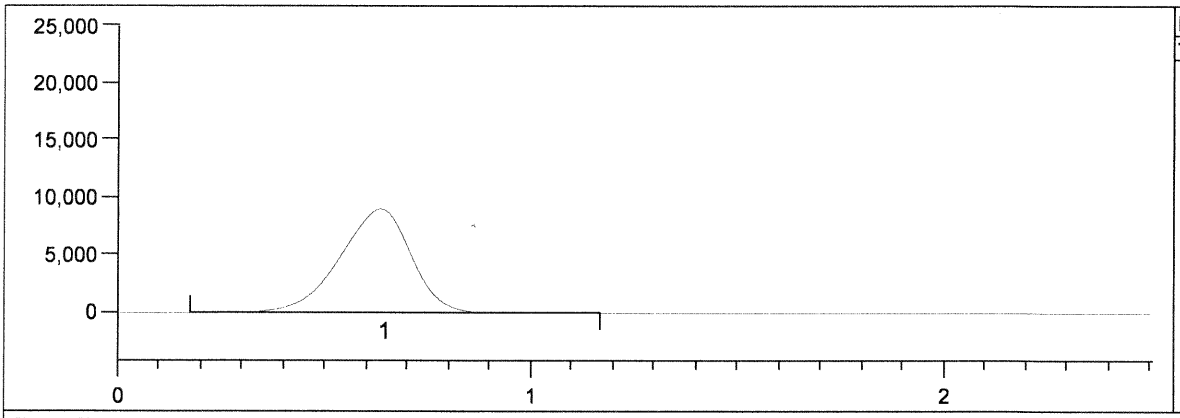
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	6:00 PM

Peak	rt	Area
1	0.64	98,796

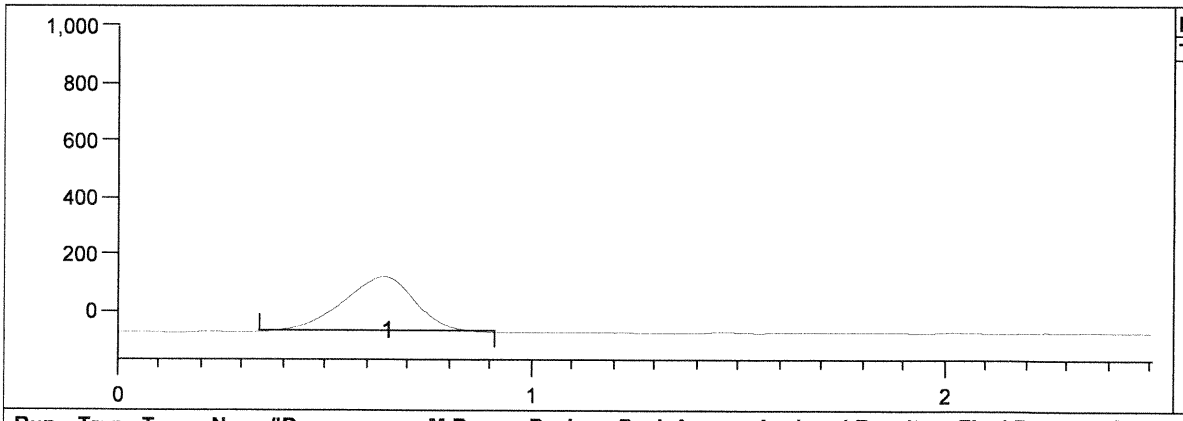
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
82	X	S	K2311099-002		1	98,796	8.33	0.333		< HS	accept
Notes											



Date:	10/5/23
Time:	6:05 PM

Peak	rt	Area
1	0.63	1,124,058

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
83	Y	S	K2311101-001		1	1,124,058	109	4.38		< HS	accept
Notes											



Date:	10/5/23
Time:	6:10 PM

Peak	rt	Area
1	0.64	24,220

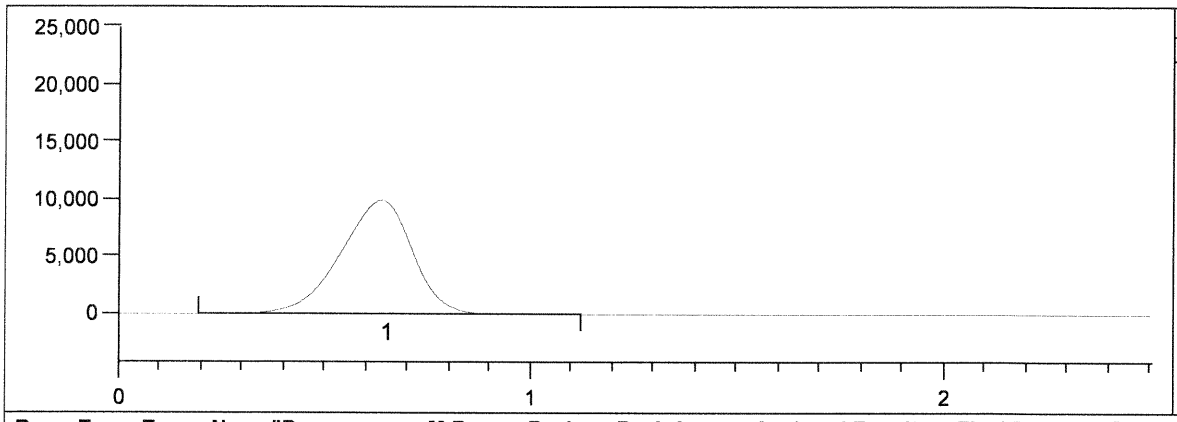
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
84	X	MBA	MB-3		1	24,220	0.980	0.0392	0.0392	< 0.5	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

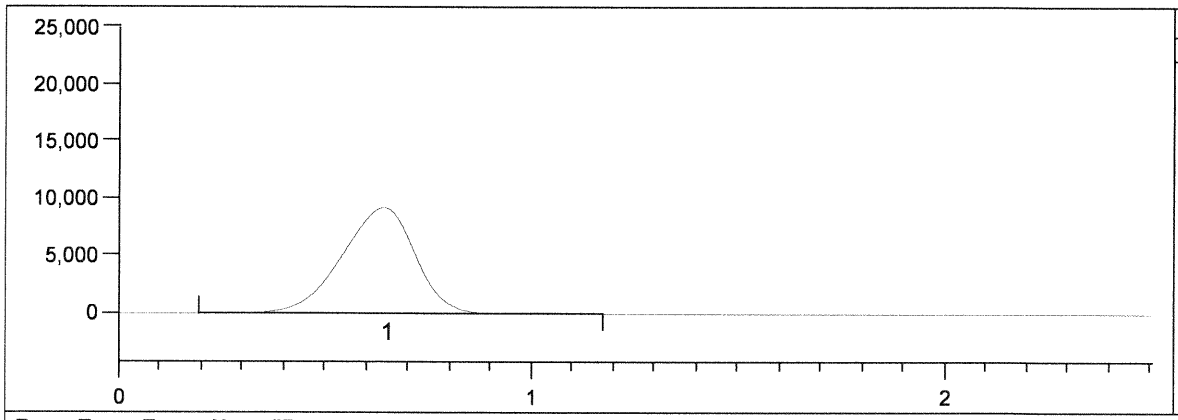
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date:	10/5/23
Time:	6:15 PM

Peak	rt	Area
1	0.63	1,228,626

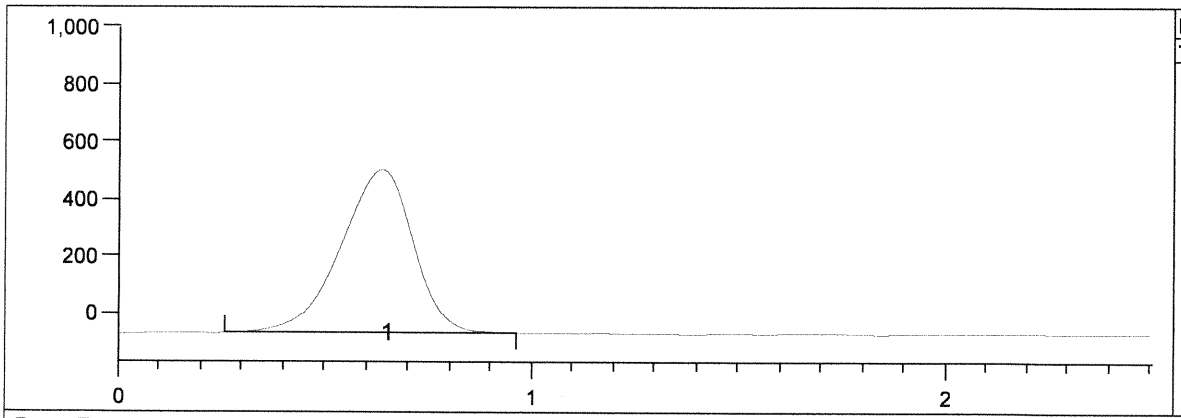
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
85	Y	OPR	OPR-4		1	1,228,626	120.	4.79	95.8	77-123	accept
Notes											



Date:	10/5/23
Time:	6:20 PM

Peak	rt	Area
1	0.64	1,163,118

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
86	X	QCS	QCS-1		1	1,163,118	113	4.53	90.6	77-123	accept
Notes											



Date:	10/5/23
Time:	6:25 PM

Peak	rt	Area
1	0.63	70,149

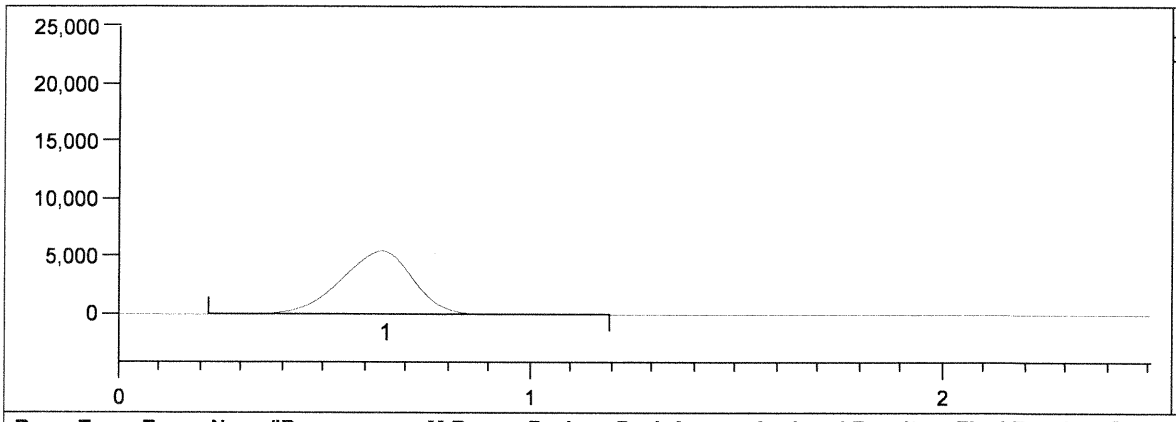
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
87	Y	MBA	MB-1		1	70,149	5.51	0.220	0.220	< 0.5	accept
Notes											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

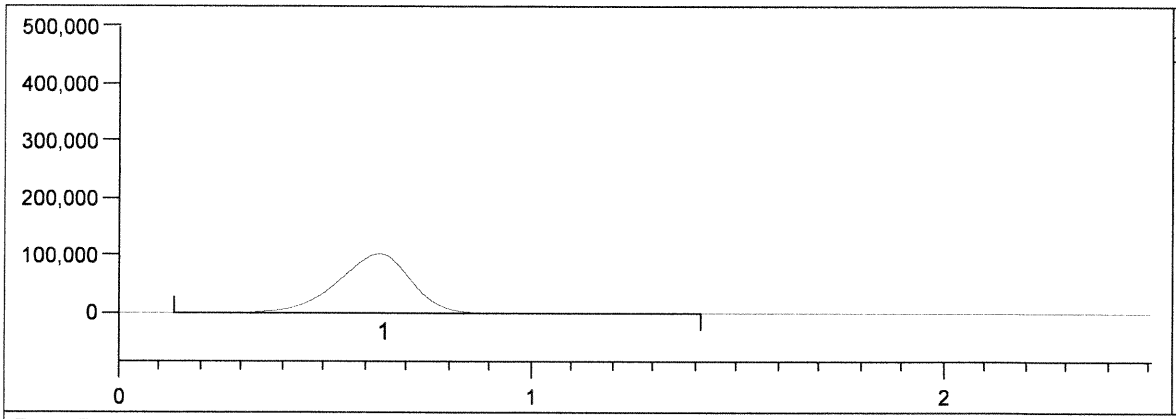
Date Analyzed: 10/5/23
Analyst Name: Anna Boyer



Date: 10/5/23
Time: 6:30 PM

Peak	rt	Area
1	0.64	696,865

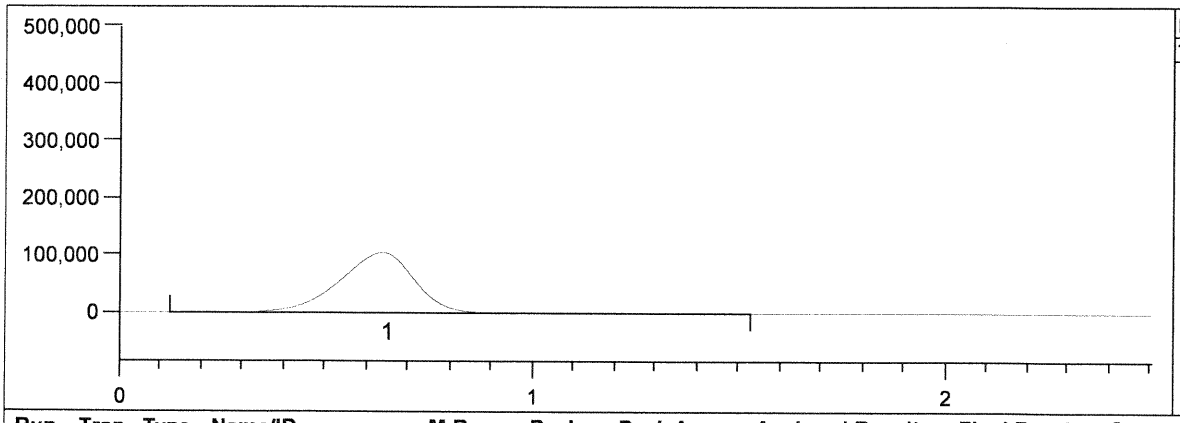
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
88	X	S	K2310402-001		1	696,865	67.3	13.5		< HS	accept
Notes1/5											



Date: 10/5/23
Time: 6:35 PM

Peak	rt	Area
1	0.63	13,089,630

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
89	Y	MS	K2310402-001		1	13,089,630	1,290	258	97.8	71-125	accept
Notes1/											



Date: 10/5/23
Time: 6:40 PM

Peak	rt	Area
1	0.63	13,459,345

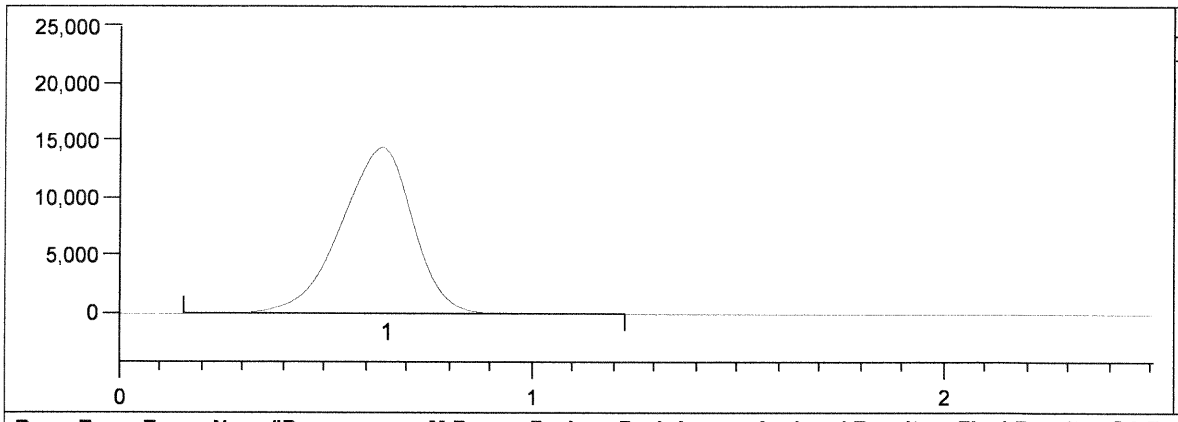
Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
90	X	MSD	K2310402-001		1	13,459,345	1,330	265	101	71-125	accept
Notes1/5											

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

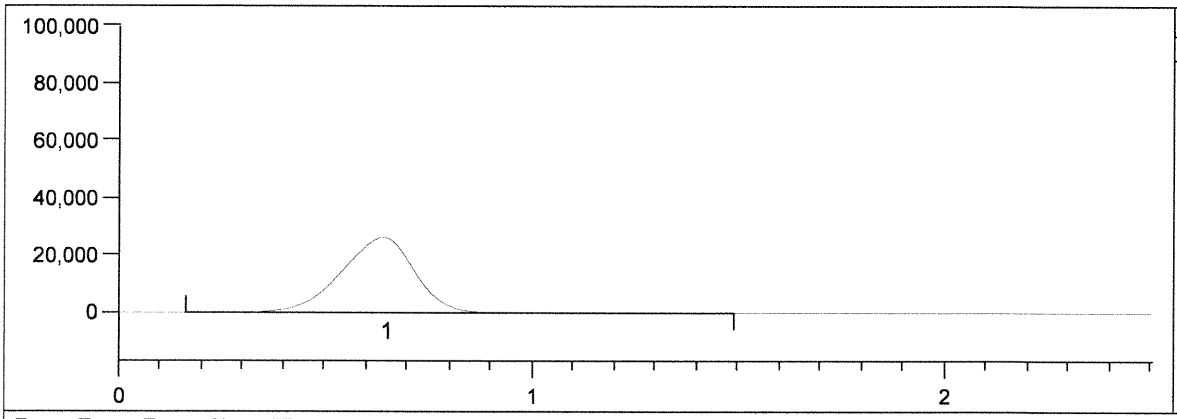


Date:	10/5/23
Time:	6:45 PM

Peak	rt	Area
1	0.63	1,781,432

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
91	Y	S	K2310402-007		1	1,781,432	174	6.97		< HS	accept

Notes

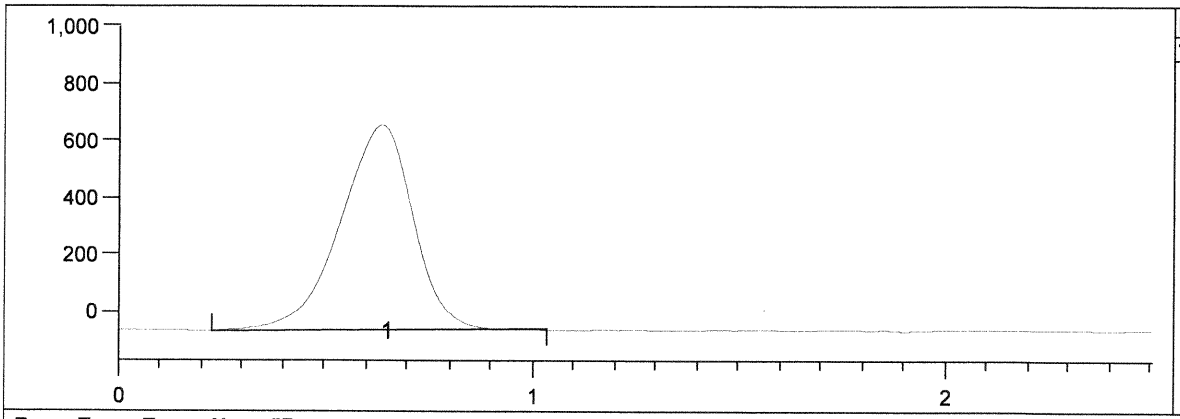


Date:	10/5/23
Time:	6:50 PM

Peak	rt	Area
1	0.64	3,328,644

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
92	X	S	K2310402-008		1	3,328,644	327	65.4		< HS	accept

Notes1/5



Date:	10/5/23
Time:	6:55 PM

Peak	rt	Area
1	0.63	89,096

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
93	Y	MBA	MB-2		1	89,096	7.38	0.295	0.295	< 0.5	accept

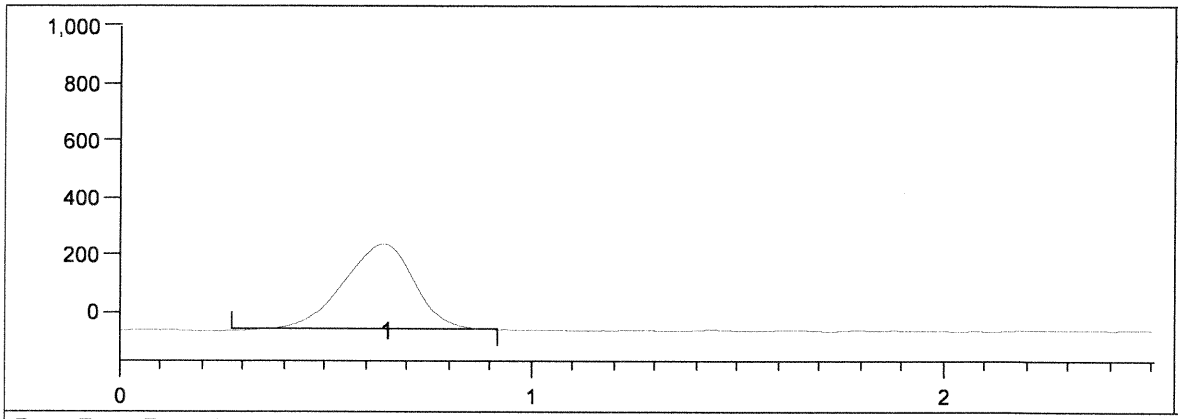
Notes

Peak Report

Batch Number:
Method Number: EPA 1631E

Project Number(s):
Instrument ID: K-AFS-04

Date Analyzed: 10/5/23
Analyst Name: Anna Boyer

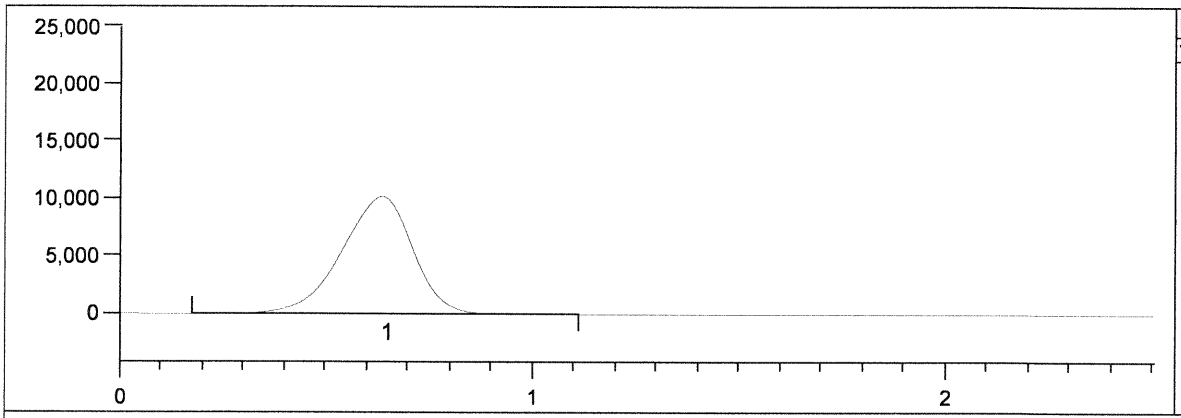


Date:	10/5/23
Time:	7:00 PM

Peak	rt	Area
1	0.64	37,554

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
94	X	MBA	MB-3		1	37,554	2.30	0.0918	0.0918	< 0.5	accept

Notes



Date:	10/5/23
Time:	7:05 PM

Peak	rt	Area
1	0.63	1,250,386

Run	Trap	Type	Name/ID	M B	Peak	Peak Area	Analyzed Result	Final Result	QA Results	Criteria	Notes
95	Y	OPR	OPR-5		1	1,250,386	122	4.88	97.5	77-123	accept

Notes

Service Request# K2310642, K2310727, K2310734, K2310979, K2311042 #11-14 T&D, K2310247; K2311042 #1-10 T&D; K2311354
Calibration: 101323AICPMS06
ALS LIMS Run# 820434
Pipette IDs: 18010244, 19070685, 16006318
Cal Std: MS32-39-A
ICV Std: MS32-39-B
LLICV Std: MS32-39-C
I.S. Solution: MS32-34-B
Tune Std: MS31-81-K
ICSA: MS32-38-G
ICSAB: MS32-38-H

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV in control (+/- 10%)	X		
3. CCV's in control (+/- 10%)	X		
4. ICB/CCB's below MRL	X		
5. LLICV standard analyzed and in control	X		
6. ICS standards within 20% of true value			X
6. All analytes within instrument linear range	X		
7. Adequate rinse out time allowed	X		
8. Internal standards in control	X		
9. Interferences checked	X		
10. Was the run terminated? If so, why.		X	

See Benchsheet exception report for sample batch QC information.
Comments:

Prep Batches: 427437, 427435, 428211

Primary Review by _____ Date 10/13/23

Secondary Review by _____ Date 10/13/23

R:\ICP\MISC\Document Control\K-ICPMS-06 Review Sheet.doc

Data Review Form

Instrument ID#: **K-ICP-MS-06**
DataFile Name: **R:\ICP\WIP\DATA\K-ICP-MS-06 (Agilent 7800)\101323A.csv**
RUNNO: **820434**

K2310247

No exceptions to report.

K2310642

No exceptions to report.

K2310727

No exceptions to report.

K2310734

No exceptions to report.

K2310979 Sample diluted due to sample matrix interferences.

No exceptions to report.

K2311042

No exceptions to report.

K2311354

No exceptions to report.

Primary Approver: 10/13/23
Secondary Approver: 10/13/23

US EPA Tune Check Report

Operator Name	ALKLS NoUser
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323.b
Acq. Date-Time	2023-10-13 10:21:28 AM
Report Comment	---
Instrument Name	G8421A JP16310358

[No Gas]

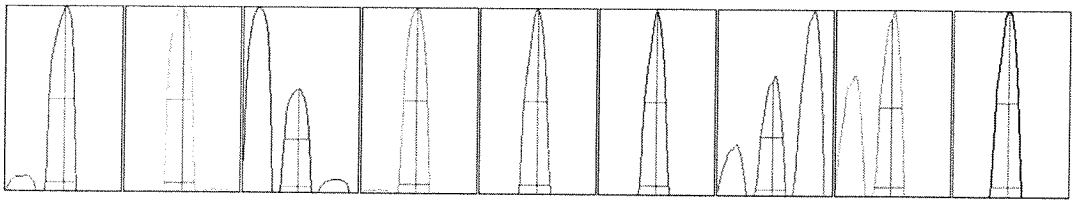
Sensitivity

Mass	CPS	RSD%	RSD% (Required)	RSD% (Flag)
7	94688.42	0.563	5.000	
9	21861.93	0.654	5.000	
24	93946.78	0.765	5.000	
59	181204.46	0.473	5.000	
115	326397.74	0.935	5.000	
140	319504.00	1.055	5.000	
208	150057.80	1.105	5.000	
209	232017.48	0.819	5.000	
238	281207.35	1.179	5.000	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
7	9442	9531	9454	9515	9402
9	2164	2202	2182	2194	2190
24	9277	9432	9462	9381	9420
59	18003	18095	18109	18160	18235
115	32189	32681	32606	32677	33046
140	31428	31912	32002	32050	32360
208	14773	14909	15032	15157	15157
209	22912	23148	23229	23419	23300
238	27604	28013	28208	28455	28324

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)	W-5%	W-5% (Flag)	W-5% (Required)
7	16090.05	7.05	6.90 - 7.10		0.778		0.900
9	3548.54	9.00	8.90 - 9.10		0.782		0.900
24	15099.37	23.95	23.90 - 24.10		0.787		0.900

US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)	W-5%	W-5% (Flag)	W-5% (Required)
59	31094.39	58.95	58.90 - 59.10		0.781		0.900
115	61647.11	115.00	114.90 - 115.10		0.773		0.900
140	63338.46	140.00	139.90 - 140.10		0.768		0.900
208	27085.28	207.95	207.90 - 208.10		0.773		0.900
209	41795.70	208.95	208.90 - 209.10		0.771		0.900
238	51624.57	237.95	237.90 - 238.10		0.779		0.900

Integration Time [sec]	0.1
Acquisition Time [sec]	268.4
Y Axis	Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.59 L/min	Dilution Gas	0.50 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.60 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	15.0 V
Extract 2	-155.0 V	Cell Entrance	-30 V	Plate Bias	-55 V
Omega Bias	-80 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	170 V		

QP Parameters

Mass Gain	127	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.0 mm		

EM

Discriminator	4.4 mV	Analog HV	2310 V	Pulse HV	1396 V

Calibration Blank Report

Sample Name Blank

File Name 003CALB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:05:49 AM

Sample Type CalBlk

Comment ---

ISTD Ref FileName 003CALB.d

Operator **ALKLS**
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	6	No Gas	18	8.3
Al	27	6	No Gas	1270	10.2
Ca	43	6	No Gas	87	40.5
Se	77	72	H2	113	31.0
Se	78	72	H2	4	90.1
Mg	24	45	He	77	19.9
V	51	72	He	8	69.3
Cr	52	72	He	63	39.7
Cr	53	72	He	10	100.0
Mn	55	72	He	27	57.3
Fe	56	72	He	480	18.5
Co	59	72	He	12	41.7
Ni	60	72	He	61	6.3
Cu	63	72	He	30	33.3
Cu	65	72	He	25	52.9
Zn	66	72	He	40	43.3
As	75	72	He	4	35.3
Mo	95	115	He	2	86.6
Mo	98	115	He	8	24.7
Ag	107	115	He	7	114.6
Ag	109	115	He	13	21.7
Cd	111	115	He	1	34.6
Sb	121	115	He	40	21.7
Sb	123	115	He	36	21.3
Ba	138	115	He	27	57.3
Tl	203	175	He	28	20.4
Tl	205	175	He	45	29.4
[Pb]	206	175	He	53	16.5
[Pb]	207	175	He	53	10.8
Pb	208	175	He	196	12.8
U	238	232	He	10	100.0

AM
10/13/23

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Li	6	No Gas	473640	1.0
Ge	72	H2	353084	0.7

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	He	62804	1.8
Ge	72	He	62518	0.4
In	115	He	639652	0.4
Lu	175	He	1767104	1.0
Th	232	He	2900257	1.3

Calibration Standard Report

Sample Name 25ppb

File Name 004CALS.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:08:11 AM

Sample Type CalStd

Comment ---

ISTD Ref FileName 003CALB.d

Operator **ALKLS**
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	6	No Gas	81122	1.3
Al	27	6	No Gas	3845761	0.6
Ca	43	6	No Gas	79314	0.7
Se	77	72	H2	3250	12.3
Se	78	72	H2	10205	1.0
Mg	24	45	He	282188	1.3
V	51	72	He	48975	0.9
Cr	52	72	He	65854	0.3
Cr	53	72	He	8446	4.2
Mn	55	72	He	27847	0.8
Fe	56	72	He	525881	0.6
Co	59	72	He	130124	0.8
Ni	60	72	He	36370	0.3
Cu	63	72	He	105562	1.4
Cu	65	72	He	52998	1.2
Zn	66	72	He	12786	1.0
As	75	72	He	7228	0.2
Mo	95	115	He	28148	0.3
Mo	98	115	He	49470	1.5
Ag	107	115	He	109312	0.3
Ag	109	115	He	105273	1.6
Cd	111	115	He	24523	0.2
Sb	121	115	He	25709	0.1
Sb	123	115	He	21140	1.2
Ba	138	115	He	133557	1.3
Tl	203	175	He	194687	0.9
Tl	205	175	He	468112	0.8
[Pb]	206	175	He	148507	1.2
[Pb]	207	175	He	136428	0.6
Pb	208	175	He	611389	0.2
U	238	232	He	631084	1.1

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	469651	1.6	473640.17	99.16	
Ge	72	H2	353289	2.0	353084.2	100.06	
Sc	45	He	62452	0.4	62803.57	99.44	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	61105	0.9	62517.89	97.74	
In	115	He	631024	0.7	639651.89	98.65	
Lu	175	He	1775650	1.0	1767103.88	100.48	
Th	232	He	2872964	1.3	2900257.25	99.06	

Initial Calibration Verification (ICV) Report

Sample Name	ICV
File Name	005_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 11:10:35 AM
Sample Type	ICV
Comment	---
ISTD Ref FileName	003CALB.d
Operator	ALKLS NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	2.38970	ug/l	1.0	7713	95.59	
Al	27	6	No Gas	97.48189	ug/l	2.7	1489524	97.48	
Ca	43	6	No Gas	244.81077	ug/l	4.1	9710	97.92	
Se	77	72	H2	24.82108	ug/l	3.7	3174	99.28	
Se	78	72	H2	24.98474	ug/l	0.8	10032	99.94	
Mg	24	45	He	240.76620	ug/l	1.1	33960	96.31	
V	51	72	He	24.38485	ug/l	1.3	47448	97.54	
Cr	52	72	He	10.64082	ug/l	2.6	27872	106.41	
Cr	53	72	He	10.35688	ug/l	0.7	3480	103.57	
Mn	55	72	He	25.54791	ug/l	3.7	28262	102.19	
Fe	56	72	He	51.61701	ug/l	3.3	108197	103.23	
Co	59	72	He	24.38075	ug/l	1.2	126047	97.52	
Ni	60	72	He	24.54754	ug/l	2.2	35468	98.19	
Cu	63	72	He	12.29466	ug/l	2.6	51577	98.36	
Cu	65	72	He	12.21095	ug/l	1.7	25722	97.69	
Zn	66	72	He	24.40369	ug/l	1.5	12399	97.61	
As	75	72	He	23.98903	ug/l	2.2	6888	95.96	
Mo	95	115	He	24.36449	ug/l	1.1	54494	97.46	
Mo	98	115	He	24.04074	ug/l	0.5	94489	96.16	
Ag	107	115	He	11.99925	ug/l	1.5	104219	95.99	
Ag	109	115	He	12.15513	ug/l	2.0	101675	97.24	
Cd	111	115	He	12.36843	ug/l	1.7	12050	98.95	
Sb	121	115	He	12.25601	ug/l	1.4	25039	98.05	
Sb	123	115	He	12.11047	ug/l	1.4	20342	96.88	
Ba	138	115	He	96.02914	ug/l	1.1	509452	96.03	
Tl	203	175	He	25.01425	ug/l	1.1	190559	100.06	
Tl	205	175	He	24.61744	ug/l	0.6	450947	98.47	
Pb	208	175	He	24.97572	ug/l	0.7	597547	99.9	
U	238	232	He	24.63384	ug/l	1.0	615335	98.54	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	466116	1.2	473640.17	98.41	
Ge	72	H2	347452	0.9	353084.2	98.4	
Sc	45	He	62305	1.2	62803.57	99.21	
Ge	72	He	60693	1.2	62517.89	97.08	
In	115	He	626759	0.7	639651.89	97.98	

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1737065	0.6	1767103.88	98.3	
Th	232	He	2843057	1.0	2900257.25	98.03	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	006_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 11:12:57 AM
Sample Type	CCV
Comment	---
ISTD Ref FileName	003CALB.d
Operator	ALKLS NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	24.73647	ug/l	0.7	79168	98.95	
Al	27	6	No Gas	249.39518	ug/l	1.4	3783700	99.76	
Ca	43	6	No Gas	1954.31574	ug/l	1.2	76445	97.72	
Se	77	72	H2	25.67482	ug/l	4.2	3230	102.7	
Se	78	72	H2	25.17292	ug/l	1.7	9958	100.69	
Mg	24	45	He	2003.27774	ug/l	1.0	277090	100.16	
V	51	72	He	24.83762	ug/l	1.5	48391	99.35	
Cr	52	72	He	25.11412	ug/l	1.7	65785	100.46	
Cr	53	72	He	24.52495	ug/l	2.2	8239	98.1	
Mn	55	72	He	25.38934	ug/l	1.5	28125	101.56	
Fe	56	72	He	249.61067	ug/l	1.1	522202	99.84	
Co	59	72	He	25.00998	ug/l	0.7	129462	100.04	
Ni	60	72	He	24.64742	ug/l	0.6	35662	98.59	
Cu	63	72	He	24.54976	ug/l	1.0	103095	98.2	
Cu	65	72	He	24.58289	ug/l	0.4	51826	98.33	
Zn	66	72	He	25.66784	ug/l	3.3	13056	102.67	
As	75	72	He	24.65960	ug/l	2.3	7090	98.64	
Mo	95	115	He	12.46913	ug/l	0.4	27661	99.75	
Mo	98	115	He	12.32776	ug/l	1.0	48061	98.62	
Ag	107	115	He	12.40873	ug/l	0.8	106901	99.27	
Ag	109	115	He	12.57053	ug/l	1.6	104279	100.56	
Cd	111	115	He	25.11668	ug/l	0.4	24271	100.47	
Sb	121	115	He	12.61050	ug/l	1.0	25550	100.88	
Sb	123	115	He	12.45979	ug/l	1.3	20757	99.68	
Ba	138	115	He	24.83114	ug/l	0.9	130681	99.32	
Tl	203	175	He	25.68524	ug/l	0.7	193507	102.74	
Tl	205	175	He	25.62813	ug/l	0.7	464255	102.51	
Pb	208	175	He	25.73802	ug/l	0.6	608956	102.95	
U	238	232	He	24.80004	ug/l	1.7	624248	99.2	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	463150	0.6	473640.17	97.79	
Ge	72	H2	342385	1.9	353084.2	96.97	
Sc	45	He	61223	0.5	62803.57	97.48	
Ge	72	He	60767	1.0	62517.89	97.2	
In	115	He	621613	0.8	639651.89	97.18	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1717792	0.3	1767103.88	97.21	
Th	232	He	2865295	2.1	2900257.25	98.79	

Initial Calibration Blank (ICB) Report

Sample Name ICB

File Name 007_ICB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:15:19 AM

Sample Type ICB

Comment ---

ISTD Ref FileName 003CALB.d

Operator **ALKLS**
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00680	ug/l	47.9	40	
Al	27	6	No Gas	0.03024	ug/l	28.7	1700	
Ca	43	6	No Gas	0.73214	ug/l	84.4	113	
Se	77	72	H2	0.28003	ug/l	108.2	143	
Se	78	72	H2	0.00028	ug/l	1578.2	4	
Mg	24	45	He	0.05060	ug/l	147.3	80	
V	51	72	He	0.00022	ug/l	683.0	8	
Cr	52	72	He	0.00069	ug/l	1712.8	62	
Cr	53	72	He	0.00195	ug/l	2739.0	10	
Mn	55	72	He	0.01358	ug/l	70.6	40	
Fe	56	72	He	0.00048	ug/l	884.7	457	
Co	59	72	He	0.00187	ug/l	51.5	21	
Ni	60	72	He	-0.00491	ug/l	N/A	51	
Cu	63	72	He	0.00358	ug/l	215.9	43	
Cu	65	72	He	-0.00428	ug/l	N/A	15	
Zn	66	72	He	0.05092	ug/l	80.1	63	
As	75	72	He	0.00075	ug/l	255.5	4	
Mo	95	115	He	0.00608	ug/l	38.7	16	
Mo	98	115	He	0.00609	ug/l	57.9	31	
Ag	107	115	He	0.00352	ug/l	34.7	37	
Ag	109	115	He	0.00065	ug/l	104.8	18	
Cd	111	115	He	0.00263	ug/l	50.7	3	
Sb	121	115	He	0.01429	ug/l	46.2	68	
Sb	123	115	He	0.01378	ug/l	104.0	58	
Ba	138	115	He	0.00336	ug/l	164.5	43	
Tl	203	175	He	0.00455	ug/l	35.5	62	
Tl	205	175	He	0.00450	ug/l	43.6	125	
Pb	208	175	He	0.00393	ug/l	30.1	282	
U	238	232	He	0.00364	ug/l	38.8	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	463366	1.0	473640.17	97.83	
Ge	72	H2	342798	3.1	353084.2	97.09	
Sc	45	He	60045	0.8	62803.57	95.61	
Ge	72	He	59382	1.1	62517.89	94.98	
In	115	He	619191	0.9	639651.89	96.8	

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1712254	1.0	1767103.88	96.9	
Th	232	He	2821950	0.6	2900257.25	97.3	

Continuing Calibration Blank (CCB) Report

Sample Name CCB

File Name 008_CCB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:17:41 AM

Sample Type CCB

Comment ---

ISTD Ref FileName 003CALB.d

Operator **ALKLS**
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00017	ug/l	1424.8	18	
Al	27	6	No Gas	-0.00202	ug/l	N/A	1200	
Ca	43	6	No Gas	-0.69913	ug/l	N/A	57	
Se	77	72	H2	0.20502	ug/l	129.0	133	
Se	78	72	H2	0.00040	ug/l	1122.6	4	
Mg	24	45	He	-0.15876	ug/l	N/A	53	
V	51	72	He	0.00284	ug/l	267.0	13	
Cr	52	72	He	0.00117	ug/l	430.1	63	
Cr	53	72	He	0.02178	ug/l	291.8	17	
Mn	55	72	He	0.01338	ug/l	69.2	40	
Fe	56	72	He	0.01731	ug/l	134.3	493	
Co	59	72	He	0.00098	ug/l	114.7	17	
Ni	60	72	He	-0.00191	ug/l	N/A	56	
Cu	63	72	He	-0.00209	ug/l	N/A	20	
Cu	65	72	He	-0.00671	ug/l	N/A	10	
Zn	66	72	He	0.03736	ug/l	33.2	57	
As	75	72	He	0.00072	ug/l	762.4	4	
Mo	95	115	He	0.00351	ug/l	112.3	10	
Mo	98	115	He	0.00005	ug/l	966.7	8	
Ag	107	115	He	0.00272	ug/l	36.3	30	
Ag	109	115	He	0.00063	ug/l	286.0	18	
Cd	111	115	He	0.00158	ug/l	83.5	2	
Sb	121	115	He	0.01610	ug/l	26.0	72	
Sb	123	115	He	0.00110	ug/l	528.7	37	
Ba	138	115	He	0.00267	ug/l	3.6	40	
Tl	203	175	He	0.00013	ug/l	794.7	28	
Tl	205	175	He	0.00313	ug/l	45.8	100	
Pb	208	175	He	0.00257	ug/l	59.4	249	
U	238	232	He	0.00176	ug/l	48.7	53	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	459253	0.6	473640.17	96.96	
Ge	72	H2	338596	0.3	353084.2	95.9	
Sc	45	He	62197	1.7	62803.57	99.03	
Ge	72	He	59626	0.7	62517.89	95.37	
In	115	He	622697	1.3	639651.89	97.35	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1705948	2.3	1767103.88	96.54	
Th	232	He	2829665	1.0	2900257.25	97.57	

Low Level Initial Calibration Verification (LLICV) Report

Sample Name LLICVW

File Name 009LICV.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:20:03 AM

Sample Type LLICV

Comment ---

ISTD Ref FileName 003CALB.d

Operator **ALKLS**
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc.RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	0.01918	ug/l	4.7	78	95.9	
Al	27	6	No Gas	3.84947	ug/l	1.0	58642	96.24	
Ca	43	6	No Gas	19.35378	ug/l	9.9	827	96.77	
Se	77	72	H2	1.03231	ug/l	10.5	237	-103.23	
Se	78	72	H2	0.96346	ug/l	2.8	387	96.35	
Mg	24	45	He	11.31251	ug/l	17.1	1657	113.13	
V	51	72	He	0.18664	ug/l	5.3	367	93.32	
Cr	52	72	He	0.19416	ug/l	5.0	562	97.08	
Cr	53	72	He	0.19242	ug/l	23.0	73	96.21	
Mn	55	72	He	0.25057	ug/l	35.8	300	125.28	
Fe	56	72	He	1.99620	ug/l	7.9	4574	99.81	
Co	59	72	He	0.01881	ug/l	19.4	108	94.05	
Ni	60	72	He	0.19603	ug/l	5.2	338	98.02	
Cu	63	72	He	0.09826	ug/l	26.6	437	98.26	
Cu	65	72	He	0.10152	ug/l	10.0	235	101.52	
Zn	66	72	He	1.96811	ug/l	7.8	1023	98.41	
As	75	72	He	0.48556	ug/l	8.7	142	97.11	
Mo	95	115	He	0.09606	ug/l	10.2	214	96.06	
Mo	98	115	He	0.09499	ug/l	13.6	377	94.99	
Ag	107	115	He	0.01537	ug/l	12.1	138	76.85	
Ag	109	115	He	0.01818	ug/l	8.4	163	90.9	
Cd	111	115	He	0.02080	ug/l	5.0	21	104	
Sb	121	115	He	0.04442	ug/l	16.3	128	88.84	
Sb	123	115	He	0.05910	ug/l	25.9	133	118.2	
Ba	138	115	He	0.05297	ug/l	17.9	303	105.94	
Tl	203	175	He	0.01622	ug/l	10.3	150	81.1	
Tl	205	175	He	0.02048	ug/l	12.7	415	102.4	
[Pb]	206	175	He	0.01994	ug/l	10.0	167	99.7	
[Pb]	207	175	He	0.01603	ug/l	43.9	137	80.15	
Pb	208	175	He	0.01851	ug/l	15.8	629	92.55	
U	238	232	He	0.01865	ug/l	6.6	473	93.25	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	455515	0.5	473640.17	96.17	
Ge	72	H2	344232	1.0	353084.2	97.49	
Sc	45	He	62013	1.9	62803.57	98.74	

Low Level Initial Calibration Verification (LLICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	59934	1.4	62517.89	95.87	
In	115	He	619677	1.2	639651.89	96.88	
Lu	175	He	1719890	0.5	1767103.88	97.33	
Th	232	He	2827470	1.9	2900257.25	97.49	

Sample Report

Sample Name MO STD

File Name 010SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:22:25 AM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator **ALKLS**
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00044	ug/l	194.7	19	
Al	27	6	No Gas	0.68034	ug/l	3.7	11349	
Ca	43	6	No Gas	-0.33663	ug/l	N/A	70	
Se	77	72	H2	0.34051	ug/l	145.2	150	
Se	78	72	H2	-0.00133	ug/l	N/A	3	
Mg	24	45	He	0.18776	ug/l	160.8	100	
V	51	72	He	-0.00152	ug/l	N/A	5	
Cr	52	72	He	0.04430	ug/l	36.8	175	
Cr	53	72	He	0.03078	ug/l	164.6	20	
Mn	55	72	He	-0.00205	ug/l	N/A	23	
Fe	56	72	He	0.16059	ug/l	33.6	793	
Co	59	72	He	-0.00034	ug/l	N/A	10	
Ni	60	72	He	-0.00053	ug/l	N/A	58	
Cu	63	72	He	-0.00217	ug/l	N/A	20	
Cu	65	72	He	-0.00437	ug/l	N/A	15	
Zn	66	72	He	0.09552	ug/l	81.1	87	
As	75	72	He	-0.00059	ug/l	N/A	4	
Mo	95	115	He	48.88784	ug/l	1.0	107329	
Mo	98	115	He	49.00434	ug/l	1.3	189053	
Ag	107	115	He	0.00081	ug/l	150.1	13	
Ag	109	115	He	-0.00055	ug/l	N/A	8	
Cd	111	115	He	0.00300	ug/l	44.5	4	
Sb	121	115	He	0.05656	ug/l	24.2	152	
Sb	123	115	He	0.04283	ug/l	25.0	105	
Ba	138	115	He	0.00853	ug/l	23.3	70	
Tl	203	175	He	0.01068	ug/l	27.4	107	
Tl	205	175	He	0.01089	ug/l	17.4	238	
Pb	208	175	He	0.00151	ug/l	38.2	223	
U	238	232	He	0.00202	ug/l	18.6	60	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	454787	0.6	473640.17	96.02	
Ge	72	H2	339007	1.3	353084.2	96.01	
Sc	45	He	60588	2.0	62803.57	96.47	
Ge	72	He	60081	1.8	62517.89	96.1	
In	115	He	615234	0.5	639651.89	96.18	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1697935	1.2	1767103.88	96.09	
Th	232	He	2819485	1.9	2900257.25	97.21	

Prep Blank (PB) Report

Sample Name	KQ2317266-01
File Name	011_PB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 11:24:48 AM
Sample Type	PB
Comment	---
ISTD Ref FileName	003CALB.d
Operator	**ALKLS** **NoUser**

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00138	ug/l	N/A	13	
Al	27	6	No Gas	1.29928	ug/l	3.3	20680	
Ca	43	6	No Gas	2.84255	ug/l	17.4	193	
Se	77	72	H2	0.31924	ug/l	149.4	150	
Se	78	72	H2	-0.00224	ug/l	N/A	3	
Mg	24	45	He	-0.11707	ug/l	N/A	60	
V	51	72	He	0.00105	ug/l	499.3	10	
Cr	52	72	He	0.00475	ug/l	25.1	73	
Cr	53	72	He	0.03109	ug/l	95.9	20	
Mn	55	72	He	0.01597	ug/l	85.6	43	
Fe	56	72	He	0.06805	ug/l	22.5	603	
Co	59	72	He	-0.00100	ug/l	N/A	7	
Ni	60	72	He	0.00152	ug/l	1073.1	61	
Cu	63	72	He	0.00585	ug/l	46.1	53	
Cu	65	72	He	-0.00118	ug/l	N/A	22	
Zn	66	72	He	0.04943	ug/l	25.1	63	
As	75	72	He	-0.00412	ug/l	N/A	3	
Mo	95	115	He	0.00798	ug/l	19.2	20	
Mo	98	115	He	0.00936	ug/l	33.8	44	
Ag	107	115	He	0.00001	ug/l	7228.5	7	
Ag	109	115	He	-0.00097	ug/l	N/A	5	
Cd	111	115	He	-0.00033	ug/l	N/A	1	
Sb	121	115	He	0.00245	ug/l	164.6	44	
Sb	123	115	He	-0.00404	ug/l	N/A	28	
Ba	138	115	He	0.00325	ug/l	33.8	43	
Tl	203	175	He	-0.00194	ug/l	N/A	13	
Tl	205	175	He	-0.00061	ug/l	N/A	33	
[Pb]	206	175	He	-0.00185	ug/l	N/A	42	
[Pb]	207	175	He	-0.00426	ug/l	N/A	30	
Pb	208	175	He	-0.00174	ug/l	N/A	152	
U	238	232	He	0.00106	ug/l	58.8	37	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	457218	2.0	473640.17	96.53	
Ge	72	H2	343098	3.3	353084.2	97.17	
Sc	45	He	62706	1.9	62803.57	99.84	

Prep Blank (PB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	60252	0.7	62517.89	96.37	
In	115	He	626454	0.5	639651.89	97.94	
Lu	175	He	1754934	1.1	1767103.88	99.31	
Th	232	He	2881854	1.6	2900257.25	99.37	

Laboratory Control Sample (LCS) Report

Sample Name KQ2317266-02

File Name 012_LCS.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:27:11 AM

Sample Type LCS

Comment ---

ISTD Ref FileName 003CALB.d

Operator **ALKLS**
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	QC Flag
Be	9	6	No Gas	2.30259	ug/l	2.7	7244	2.5	92.1	
Al	27	6	No Gas	96.90500	ug/l	1.6	1442830	100	96.9	
Ca	43	6	No Gas	240.24123	ug/l	3.1	9290	250	96.1	
Se	77	72	H2	51.25308	ug/l	2.9	6292	50	102.51	
Se	78	72	H2	48.59331	ug/l	0.7	19080	50	97.19	
Mg	24	45	He	232.55111	ug/l	1.0	32490	250	93.02	
V	51	72	He	23.28216	ug/l	4.2	45662	25	93.13	
Cr	52	72	He	9.22303	ug/l	3.4	24366	10	92.23	
Cr	53	72	He	9.13008	ug/l	5.1	3094	10	91.3	
Mn	55	72	He	23.74633	ug/l	3.1	26488	25	94.99	
Fe	56	72	He	45.83253	ug/l	3.9	96913	50	91.67	
Co	59	72	He	22.90685	ug/l	3.2	119395	25	91.63	
Ni	60	72	He	23.23705	ug/l	3.8	33850	25	92.95	
Cu	63	72	He	11.58625	ug/l	1.6	49031	12.5	92.69	
Cu	65	72	He	11.61997	ug/l	4.0	24676	12.5	92.96	
Zn	66	72	He	23.29206	ug/l	0.9	11942	25	93.17	
As	75	72	He	45.05649	ug/l	4.1	13038	50	90.11	
Mo	95	115	He	22.24583	ug/l	0.9	50189	25	88.98	
Mo	98	115	He	22.15195	ug/l	1.1	87823	25	88.61	
Ag	107	115	He	11.49829	ug/l	1.5	100737	12.5	91.99	
Ag	109	115	He	11.62600	ug/l	2.0	98087	12.5	93.01	
Cd	111	115	He	23.32473	ug/l	1.3	22922	25	93.3	
Sb	121	115	He	8.80700	ug/l	3.3	18157	10	88.07	
Sb	123	115	He	8.84796	ug/l	2.7	14999	10	88.48	
Ba	138	115	He	90.70451	ug/l	1.6	485381	100	90.7	
Tl	203	175	He	47.99552	ug/l	0.8	367699	50	95.99	
Tl	205	175	He	47.93816	ug/l	0.7	883105	50	95.88	
[Pb]	206	175	He	47.80462	ug/l	1.1	279352	50	95.61	
[Pb]	207	175	He	47.86013	ug/l	0.2	256918	50	95.72	
Pb	208	175	He	47.79021	ug/l	0.5	1149749	50	95.58	
U	238	232	He	22.64319	ug/l	0.6	578941	25	90.57	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	454273	0.6	473640.17	95.91	
Ge	72	H2	339836	1.4	353084.2	96.25	
Sc	45	He	61712	1.9	62803.57	98.26	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	61236	3.9	62517.89	97.95	
In	115	He	632242	1.2	639651.89	98.84	
Lu	175	He	1746980	0.4	1767103.88	98.86	
Th	232	He	2910030	1.6	2900257.25	100.34	

Reference Sample Report

Sample Name	K2310642-001
File Name	013_ARF.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 11:29:32 AM
Sample Type	AllRef
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**ALKLS** **NoUser**

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00521	ug/l	48.7	33	
Al	27	6	No Gas	4.87441	ug/l	1.3	71650	
Ca	43	6	No Gas	166687.74396	ug/l	1.1	6207775	
Se	77	72	H2	0.27880	ug/l	58.8	140	
Se	78	72	H2	0.07237	ug/l	16.2	32	
Mg	24	45	He	81118.24734	ug/l	1.3	11179227	
V	51	72	He	0.04200	ug/l	13.2	85	
Cr	52	72	He	0.41479	ug/l	6.8	1087	
Cr	53	72	He	0.43987	ug/l	39.9	150	
Mn	55	72	He	278.09601	ug/l	2.9	291346	
Fe	56	72	He	1725.95330	ug/l	2.8	3415055	
Co	59	72	He	0.14445	ug/l	3.9	719	
Ni	60	72	He	0.40339	ug/l	14.6	607	
Cu	63	72	He	0.03819	ug/l	20.3	180	
Cu	65	72	He	0.06371	ug/l	12.1	150	
Zn	66	72	He	0.54846	ug/l	8.2	300	
As	75	72	He	2.15973	ug/l	4.0	591	
Mo	95	115	He	0.86899	ug/l	0.4	1838	
Mo	98	115	He	0.86883	ug/l	2.1	3233	
Ag	107	115	He	0.00352	ug/l	46.3	35	
Ag	109	115	He	0.00159	ug/l	117.5	25	
Cd	111	115	He	0.00223	ug/l	60.0	3	
Sb	121	115	He	0.02230	ug/l	2.0	80	
Sb	123	115	He	0.02800	ug/l	5.3	78	
Ba	138	115	He	44.24824	ug/l	0.8	221752	
Tl	203	175	He	0.01363	ug/l	3.5	132	
Tl	205	175	He	0.01315	ug/l	12.2	285	
Pb	208	175	He	0.01510	ug/l	17.1	553	
U	238	232	He	0.15215	ug/l	5.4	3824	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	441445	0.4	473640.17	93.2	
Ge	72	H2	333986	1.7	353084.2	94.59	
Sc	45	He	61019	0.9	62803.57	97.16	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	57544	2.8	62517.89	92.04	
In	115	He	592039	1.1	639651.89	92.56	
Lu	175	He	1737066	0.6	1767103.88	98.3	
Th	232	He	2851484	2.3	2900257.25	98.32	

Duplicate Sample Report

Sample Name	KQ2317266-05
File Name	014_Dup.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 11:31:54 AM
Sample Type	Dup
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD Ref FileName	Pass
QC Ref File Name	013_
Default Text	ARF ACRLS NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	RPD	Flag
Be	9	6	No Gas	0.00270	ug/l	54.2	25		<5x MRL
Al	27	6	No Gas	5.11802	ug/l	1.0	74171		<5x MRL
Ca	43	6	No Gas	171508.89379	ug/l	1.3	6301741	2.85	
Se	77	72	H2	0.20040	ug/l	275.2	130		<5x MRL
Se	78	72	H2	0.06607	ug/l	8.0	29		<5x MRL
Mg	24	45	He	82167.71295	ug/l	1.3	11300710	1.29	
V	51	72	He	0.06321	ug/l	11.7	127		<5x MRL
Cr	52	72	He	0.40818	ug/l	10.2	1090		<5x MRL
Cr	53	72	He	0.52725	ug/l	16.0	180		<5x MRL
Mn	55	72	He	276.54784	ug/l	0.9	295365	0.56	
Fe	56	72	He	1714.80163	ug/l	1.5	3458964	0.65	
Co	59	72	He	0.14363	ug/l	2.2	729	0.57	
Ni	60	72	He	0.39501	ug/l	5.6	608		<5x MRL
Cu	63	72	He	0.04984	ug/l	10.5	230		<5x MRL
Cu	65	72	He	0.04669	ug/l	45.1	118		<5x MRL
Zn	66	72	He	0.35273	ug/l	15.8	210		<5x MRL
As	75	72	He	2.16147	ug/l	4.8	603		<5x MRL
Mo	95	115	He	0.86256	ug/l	4.0	1786	0.74	
Mo	98	115	He	0.84565	ug/l	2.8	3079	2.7	
Ag	107	115	He	0.00423	ug/l	39.4	40		<5x MRL
Ag	109	115	He	0.00318	ug/l	50.5	37		<5x MRL
Cd	111	115	He	0.00082	ug/l	133.7	2		<5x MRL
Sb	121	115	He	0.02275	ug/l	44.9	79		<5x MRL
Sb	123	115	He	0.02691	ug/l	24.0	74		<5x MRL
Ba	138	115	He	45.62000	ug/l	0.6	223768	3.05	
Tl	203	175	He	0.00541	ug/l	7.7	67		<5x MRL
Tl	205	175	He	0.00550	ug/l	23.5	140		<5x MRL
[Pb]	206	175	He	0.01196	ug/l	23.8	118		<5x MRL
[Pb]	207	175	He	0.00463	ug/l	63.5	74		<5x MRL
Pb	208	175	He	0.00894	ug/l	23.3	392		<5x MRL
U	238	232	He	0.15280	ug/l	0.2	3721	0.43	

QC ISTD Table

Duplicate Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	435576	1.3	473640.17	91.96	
Ge	72	H2	330868	1.0	353084.2	93.71	
Sc	45	He	60889	0.2	62803.57	96.95	
Ge	72	He	58638	0.5	62517.89	93.79	
In	115	He	579412	0.5	639651.89	90.58	
Lu	175	He	1677091	0.4	1767103.88	94.91	
Th	232	He	2764128	1.0	2900257.25	95.31	

Matrix Spike Sample (MS) Report

Sample Name	KQ2317266-06
File Name	015_SPK.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 11:34:14 AM
Sample Type	Spike
Comment	---
ISTD Ref FileName	003CALB.d
QC Ref File Name	013_ ARF.
Default Text	ÁLKLS NoUser

QC Analyte Table

Name	Mass	Tune	Conc.	Units	Conc. RSD	CPS	Spk Amt	% Rec	Flag
Be	9	No Gas	2.33601	ug/l	1.0	7094	2.5	93.23	
Al	27	No Gas	104.04278	ug/l	1.5	1495380	100	99.17	
Ca	43	No Gas	165617.44820	ug/l	1.1	6127321	250	-428.12	Spike Failed
Se	77	H2	45.89014	ug/l	4.4	5391	50	91.22	
Se	78	H2	46.08952	ug/l	1.2	17277	50	92.03	
Mg	24	He	80536.24305	ug/l	2.2	10957129	250	-232.8	Spike Failed
V	51	He	24.88745	ug/l	1.6	45629	25	99.38	
Cr	52	He	10.14453	ug/l	1.6	25050	10	97.3	
Cr	53	He	10.49254	ug/l	7.6	3320	10	100.53	
Mn	55	He	297.49304	ug/l	1.2	309861	25	77.59	
Fe	56	He	1767.95722	ug/l	0.7	3478220	50	84.01	
Co	59	He	23.34417	ug/l	1.5	113726	25	92.8	
Ni	60	He	22.75127	ug/l	1.1	30984	25	89.39	
Cu	63	He	11.31124	ug/l	1.3	44731	12.5	90.18	
Cu	65	He	11.50891	ug/l	1.0	22848	12.5	91.56	
Zn	66	He	22.70183	ug/l	3.2	10878	25	88.61	
As	75	He	48.87058	ug/l	1.1	13221	50	93.42	
Mo	95	He	25.00238	ug/l	1.0	52659	25	96.53	
Mo	98	He	24.98419	ug/l	0.9	92471	25	96.46	
Ag	107	He	11.29602	ug/l	2.2	92395	12.5	90.34	
Ag	109	He	11.41414	ug/l	2.2	89914	12.5	91.3	
Cd	111	He	22.68499	ug/l	1.3	20814	25	90.73	
Sb	121	He	9.51242	ug/l	2.2	18309	10	94.9	
Sb	123	He	9.37860	ug/l	0.6	14842	10	93.51	
Ba	138	He	139.09564	ug/l	2.2	694928	100	94.85	
Tl	203	He	47.02603	ug/l	0.3	349525	50	94.02	
Tl	205	He	46.87607	ug/l	0.7	837789	50	93.73	
[Pb]	206	He	46.14034	ug/l	1.2	261553	50	92.25	
[Pb]	207	He	46.23445	ug/l	1.6	240740	50	92.44	
Pb	208	He	46.22551	ug/l	0.9	1078819	50	92.42	
U	238	He	23.33636	ug/l	1.0	576581	25	92.74	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	438507	1.6	473640.17	92.58	
Ge	72	H2	324467	1.8	353084.2	91.9	

Matrix Spike Sample (MS) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Sc	45	He	60263	3.3	62803.57	95.95	
Ge	72	He	57195	2.3	62517.89	91.49	
In	115	He	590189	0.5	639651.89	92.27	
Lu	175	He	1694865	2.1	1767103.88	95.91	
Th	232	He	2811974	0.4	2900257.25	96.96	

Sample Report

Sample Name K2310642-001

File Name 016SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:36:33 AM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00266	ug/l	34.3	25	
Al	27	6	No Gas	5.31908	ug/l	2.0	77451	
Ca	43	6	No Gas	172102.18021	ug/l	1.5	6357819	
Se	77	72	H2	0.14718	ug/l	442.7	123	
Se	78	72	H2	0.07053	ug/l	10.5	31	
Mg	24	45	He	80911.60587	ug/l	0.4	11339611	
V	51	72	He	0.05338	ug/l	13.8	110	
Cr	52	72	He	0.35712	ug/l	0.9	978	
Cr	53	72	He	0.46634	ug/l	15.4	163	
Mn	55	72	He	275.16315	ug/l	0.9	299109	
Fe	56	72	He	1693.49425	ug/l	0.9	3476805	
Co	59	72	He	0.23141	ug/l	3.3	1188	
Ni	60	72	He	0.44518	ug/l	5.3	690	
Cu	63	72	He	0.10067	ug/l	21.3	443	
Cu	65	72	He	0.08913	ug/l	3.9	208	
Zn	66	72	He	4.68551	ug/l	10.4	2370	
As	75	72	He	2.09749	ug/l	3.4	596	
Mo	95	115	He	0.81765	ug/l	5.5	1749	
Mo	98	115	He	0.83331	ug/l	0.9	3135	
Ag	107	115	He	0.00529	ug/l	50.4	50	
Ag	109	115	He	0.00448	ug/l	27.7	48	
Cd	111	115	He	0.00650	ug/l	16.4	7	
Sb	121	115	He	0.03227	ug/l	43.2	100	
Sb	123	115	He	0.03369	ug/l	6.8	88	
Ba	138	115	He	44.82353	ug/l	1.4	227059	
Tl	203	175	He	0.01231	ug/l	15.5	120	
Tl	205	175	He	0.01873	ug/l	12.1	382	
Pb	208	175	He	0.01971	ug/l	7.9	654	
U	238	232	He	0.16103	ug/l	1.2	4087	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	437935	0.9	473640.17	92.46	
Ge	72	H2	330169	0.8	353084.2	93.51	
Sc	45	He	62047	0.6	62803.57	98.8	
Ge	72	He	59682	1.0	62517.89	95.46	
In	115	He	598475	1.6	639651.89	93.56	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1712944	0.9	1767103.88	96.94	
Th	232	He	2881684	0.4	2900257.25	99.36	

Sample Report

Sample Name K2310727-001

File Name 017SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:38:53 AM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.03849	ug/l	10.2	140	
Al	27	6	No Gas	7.91512	ug/l	1.6	120715	
Ca	43	6	No Gas	37607.85144	ug/l	1.9	1462482	
Se	77	72	H2	0.34601	ug/l	97.9	153	
Se	78	72	H2	0.20961	ug/l	18.0	88	
Mg	24	45	He	19815.85807	ug/l	1.6	2807987	
V	51	72	He	0.19836	ug/l	7.6	398	
Cr	52	72	He	0.17503	ug/l	16.6	525	
Cr	53	72	He	0.12897	ug/l	54.5	53	
Mn	55	72	He	159.27781	ug/l	0.1	178043	
Fe	56	72	He	3503.83491	ug/l	0.5	7396228	
Co	59	72	He	11.82332	ug/l	1.0	61810	
Ni	60	72	He	51.08223	ug/l	1.7	74563	
Cu	63	72	He	0.34637	ug/l	11.1	1497	
Cu	65	72	He	0.35354	ug/l	4.4	777	
Zn	66	72	He	13.12667	ug/l	2.1	6762	
As	75	72	He	3.13761	ug/l	3.0	915	
Mo	95	115	He	0.28706	ug/l	0.5	649	
Mo	98	115	He	0.29023	ug/l	4.5	1157	
Ag	107	115	He	0.00173	ug/l	51.2	22	
Ag	109	115	He	0.00320	ug/l	65.4	40	
Cd	111	115	He	0.00121	ug/l	147.9	2	
Sb	121	115	He	0.08618	ug/l	17.2	217	
Sb	123	115	He	0.09150	ug/l	12.2	190	
Ba	138	115	He	54.12870	ug/l	1.6	289243	
Tl	203	175	He	0.00535	ug/l	46.5	70	
Tl	205	175	He	0.00692	ug/l	5.9	175	
Pb	208	175	He	0.05188	ug/l	6.6	1468	
U	238	232	He	0.02621	ug/l	7.9	693	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	461032	1.6	473640.17	97.34	
Ge	72	H2	346146	0.9	353084.2	98.03	
Sc	45	He	62743	1.2	62803.57	99.9	
Ge	72	He	61366	1.2	62517.89	98.16	
In	115	He	631307	1.0	639651.89	98.7	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1777648	1.8	1767103.88	100.6	
Th	232	He	2970409	2.6	2900257.25	102.42	

Sample Report

Sample Name K2310727-002

File Name 018SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:41:15 AM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00476	ug/l	16.7	31	
Al	27	6	No Gas	28.08271	ug/l	0.3	398899	
Ca	43	6	No Gas	132547.57903	ug/l	1.3	4835893	
Se	77	72	H2	0.27482	ug/l	82.9	137	
Se	78	72	H2	0.55636	ug/l	8.9	214	
Mg	24	45	He	36734.25257	ug/l	2.4	4991715	
V	51	72	He	0.95917	ug/l	5.5	1810	
Cr	52	72	He	0.67236	ug/l	5.3	1758	
Cr	53	72	He	0.64409	ug/l	45.5	217	
Mn	55	72	He	668.94964	ug/l	2.5	714351	
Fe	56	72	He	7057.62630	ug/l	1.6	14233970	
Co	59	72	He	1.43993	ug/l	0.4	7204	
Ni	60	72	He	2.34262	ug/l	1.9	3323	
Cu	63	72	He	0.68297	ug/l	4.4	2797	
Cu	65	72	He	0.69827	ug/l	0.2	1443	
Zn	66	72	He	2.61535	ug/l	3.6	1317	
As	75	72	He	7.73387	ug/l	2.1	2148	
Mo	95	115	He	1.20913	ug/l	6.0	2612	
Mo	98	115	He	1.14620	ug/l	2.9	4355	
Ag	107	115	He	0.01059	ug/l	17.7	95	
Ag	109	115	He	0.00819	ug/l	70.5	78	
Cd	111	115	He	0.00910	ug/l	28.2	9	
Sb	121	115	He	0.18611	ug/l	2.0	404	
Sb	123	115	He	0.17589	ug/l	7.8	318	
Ba	138	115	He	261.18754	ug/l	1.6	1337491	
Tl	203	175	He	0.00535	ug/l	61.2	70	
Tl	205	175	He	0.00806	ug/l	4.7	195	
Pb	208	175	He	0.07450	ug/l	2.3	2008	
U	238	232	He	0.11199	ug/l	4.3	2927	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	432495	1.0	473640.17	91.31	
Ge	72	H2	327080	1.2	353084.2	92.64	
Sc	45	He	60182	2.5	62803.57	95.83	
Ge	72	He	58641	2.1	62517.89	93.8	
In	115	He	604937	1.5	639651.89	94.57	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1766914	2.5	1767103.88	99.99	
Th	232	He	2964821	0.9	2900257.25	102.23	

Sample Report

Sample Name K2310727-001

File Name 019SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:43:35 AM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.03854	ug/l	12.7	138	
Al	27	6	No Gas	6.35731	ug/l	0.5	95466	
Ca	43	6	No Gas	38389.33112	ug/l	0.7	1466348	
Se	77	72	H2	0.16111	ug/l	186.7	133	
Se	78	72	H2	0.21199	ug/l	5.5	90	
Mg	24	45	He	19989.23712	ug/l	0.9	2767896	
V	51	72	He	0.20020	ug/l	4.7	407	
Cr	52	72	He	0.20011	ug/l	3.7	598	
Cr	53	72	He	0.32001	ug/l	30.1	120	
Mn	55	72	He	156.48633	ug/l	0.4	177024	
Fe	56	72	He	3410.58685	ug/l	1.9	7284797	
Co	59	72	He	11.78015	ug/l	0.9	62329	
Ni	60	72	He	50.85996	ug/l	2.1	75122	
Cu	63	72	He	0.56815	ug/l	3.7	2467	
Cu	65	72	He	0.61585	ug/l	6.6	1352	
Zn	66	72	He	14.65687	ug/l	2.6	7635	
As	75	72	He	2.95875	ug/l	2.1	873	
Mo	95	115	He	0.32372	ug/l	5.6	729	
Mo	98	115	He	0.29910	ug/l	8.7	1188	
Ag	107	115	He	0.00058	ug/l	113.0	12	
Ag	109	115	He	0.00340	ug/l	56.7	42	
Cd	111	115	He	0.00666	ug/l	22.5	7	
Sb	121	115	He	0.12684	ug/l	9.1	299	
Sb	123	115	He	0.11964	ug/l	8.8	237	
Ba	138	115	He	53.90594	ug/l	1.0	287118	
Tl	203	175	He	0.00321	ug/l	115.7	55	
Tl	205	175	He	0.00263	ug/l	59.6	97	
Pb	208	175	He	0.04250	ug/l	6.7	1269	
U	238	232	He	0.02376	ug/l	4.5	630	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	452739	0.8	473640.17	95.59	
Ge	72	H2	351521	2.6	353084.2	99.56	
Sc	45	He	61307	1.4	62803.57	97.62	
Ge	72	He	62103	1.6	62517.89	99.34	
In	115	He	629180	0.5	639651.89	98.36	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1823264	1.1	1767103.88	103.18	
Th	232	He	2968531	0.2	2900257.25	102.35	

Sample Report

Sample Name K2310727-002

File Name 020SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:45:56 AM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00298	ug/l	46.2	26	
Al	27	6	No Gas	26.49759	ug/l	1.2	381500	
Ca	43	6	No Gas	133693.18192	ug/l	1.0	4943571	
Se	77	72	H2	1.00081	ug/l	26.5	223	
Se	78	72	H2	0.44577	ug/l	3.6	174	
Mg	24	45	He	37158.91451	ug/l	0.4	5070196	
V	51	72	He	0.89424	ug/l	3.2	1713	
Cr	52	72	He	0.75573	ug/l	6.0	1997	
Cr	53	72	He	0.63082	ug/l	22.9	217	
Mn	55	72	He	670.54722	ug/l	0.5	726561	
Fe	56	72	He	7051.66065	ug/l	0.1	14430343	
Co	59	72	He	1.71938	ug/l	3.5	8724	
Ni	60	72	He	2.52088	ug/l	2.7	3623	
Cu	63	72	He	0.81222	ug/l	7.4	3367	
Cu	65	72	He	0.83348	ug/l	3.5	1743	
Zn	66	72	He	4.30799	ug/l	5.0	2177	
As	75	72	He	7.56185	ug/l	0.7	2131	
Mo	95	115	He	1.18839	ug/l	4.8	2625	
Mo	98	115	He	1.14171	ug/l	3.4	4434	
Ag	107	115	He	0.00488	ug/l	29.6	48	
Ag	109	115	He	0.00410	ug/l	62.6	47	
Cd	111	115	He	0.00974	ug/l	14.0	10	
Sb	121	115	He	0.15967	ug/l	3.1	360	
Sb	123	115	He	0.16393	ug/l	1.4	306	
Ba	138	115	He	263.72288	ug/l	1.0	1380396	
Tl	203	175	He	0.00116	ug/l	190.7	38	
Tl	205	175	He	0.00369	ug/l	26.5	117	
Pb	208	175	He	0.05423	ug/l	6.3	1554	
U	238	232	He	0.11328	ug/l	3.9	3014	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	438342	1.2	473640.17	92.55	
Ge	72	H2	330652	1.2	353084.2	93.65	
Sc	45	He	60410	1.4	62803.57	96.19	
Ge	72	He	59491	0.4	62517.89	95.16	
In	115	He	618400	0.8	639651.89	96.68	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1812602	0.6	1767103.88	102.57	
Th	232	He	3018707	1.6	2900257.25	104.08	

Continuing Calibration Verification (CCV) Report

Sample Name CCV

File Name 021_CCV.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:48:18 AM

Sample Type CCV

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	24.91734	ug/l	1.4	78962	99.67	
Al	27	6	No Gas	257.43794	ug/l	1.2	3867296	102.98	
Ca	43	6	No Gas	2095.53409	ug/l	2.0	81154	104.78	
Se	77	72	H2	27.25618	ug/l	9.1	3497	109.02	
Se	78	72	H2	25.86891	ug/l	1.1	10461	103.48	
Mg	24	45	He	2027.44305	ug/l	2.1	284616	101.37	
V	51	72	He	24.75779	ug/l	3.2	49418	99.03	
Cr	52	72	He	25.24638	ug/l	1.4	67769	100.99	
Cr	53	72	He	24.37857	ug/l	5.6	8389	97.51	
Mn	55	72	He	25.55214	ug/l	1.5	29003	102.21	
Fe	56	72	He	251.44961	ug/l	0.9	539024	100.58	
Co	59	72	He	25.19606	ug/l	2.0	133634	100.78	
Ni	60	72	He	25.10538	ug/l	2.2	37214	100.42	
Cu	63	72	He	24.96926	ug/l	0.7	107450	99.88	
Cu	65	72	He	25.28700	ug/l	1.9	54621	101.15	
Zn	66	72	He	25.00919	ug/l	3.8	13033	100.04	
As	75	72	He	24.96566	ug/l	2.0	7355	99.86	
Mo	95	115	He	12.53544	ug/l	2.2	28941	100.28	
Mo	98	115	He	12.56337	ug/l	1.4	50969	100.51	
Ag	107	115	He	12.66530	ug/l	1.5	113545	101.32	
Ag	109	115	He	12.81518	ug/l	2.4	110629	102.52	
Cd	111	115	He	25.58915	ug/l	2.1	25731	102.36	
Sb	121	115	He	12.66770	ug/l	2.0	26708	101.34	
Sb	123	115	He	12.68790	ug/l	2.8	21993	101.5	
Ba	138	115	He	25.43531	ug/l	2.0	139289	101.74	
Tl	203	175	He	26.19481	ug/l	1.6	208604	104.78	
Tl	205	175	He	26.24693	ug/l	2.8	502518	104.99	
Pb	208	175	He	26.11192	ug/l	2.1	653015	104.45	
U	238	232	He	25.19042	ug/l	1.4	660511	100.76	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	458610	0.6	473640.17	96.83	
Ge	72	H2	349948	0.6	353084.2	99.11	
Sc	45	He	62151	2.1	62803.57	98.96	
Ge	72	He	62270	1.2	62517.89	99.6	
In	115	He	646962	1.4	639651.89	101.14	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1816090	1.7	1767103.88	102.77	
Th	232	He	2984582	1.6	2900257.25	102.91	

Continuing Calibration Blank (CCB) Report

Sample Name CCB

File Name 022_CCB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:50:40 AM

Sample Type CCB

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00616	ug/l	33.2	38	
Al	27	6	No Gas	0.06555	ug/l	4.2	2237	
Ca	43	6	No Gas	10.68473	ug/l	27.2	503	
Se	77	72	H2	0.26176	ug/l	201.4	147	
Se	78	72	H2	0.00229	ug/l	316.5	5	
Mg	24	45	He	2.30528	ug/l	4.5	413	
V	51	72	He	-0.00086	ug/l	N/A	7	
Cr	52	72	He	0.00255	ug/l	330.7	72	
Cr	53	72	He	-0.00074	ug/l	N/A	10	
Mn	55	72	He	0.01948	ug/l	3.1	50	
Fe	56	72	He	0.41850	ug/l	17.0	1410	
Co	59	72	He	-0.00066	ug/l	N/A	9	
Ni	60	72	He	-0.00242	ug/l	N/A	59	
Cu	63	72	He	0.00589	ug/l	98.4	57	
Cu	65	72	He	0.00348	ug/l	134.3	33	
Zn	66	72	He	-0.00804	ug/l	N/A	37	
As	75	72	He	0.00747	ug/l	139.6	7	
Mo	95	115	He	0.00416	ug/l	135.5	12	
Mo	98	115	He	0.00311	ug/l	40.3	21	
Ag	107	115	He	0.00304	ug/l	31.3	35	
Ag	109	115	He	0.00144	ug/l	82.3	27	
Cd	111	115	He	0.00351	ug/l	63.6	5	
Sb	121	115	He	0.01800	ug/l	26.0	81	
Sb	123	115	He	0.01033	ug/l	136.2	56	
Ba	138	115	He	0.01281	ug/l	99.7	100	
Tl	203	175	He	0.00314	ug/l	33.7	55	
Tl	205	175	He	0.00487	ug/l	33.3	142	
Pb	208	175	He	0.00119	ug/l	101.4	234	
U	238	232	He	0.00263	ug/l	43.5	80	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	463486	1.4	473640.17	97.86	
Ge	72	H2	355751	1.4	353084.2	100.76	
Sc	45	He	64334	1.1	62803.57	102.44	
Ge	72	He	63948	1.4	62517.89	102.29	
In	115	He	667145	0.7	639651.89	104.3	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1843526	0.5	1767103.88	104.32	
Th	232	He	3015970	0.4	2900257.25	103.99	

Sample Report

Sample Name K2310734-001

File Name 023SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:53:03 AM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.01753	ug/l	15.1	71	
Al	27	6	No Gas	6.23944	ug/l	3.5	91489	
Ca	43	6	No Gas	58937.25183	ug/l	0.8	2197424	
Se	77	72	H2	0.25435	ug/l	81.1	140	
Se	78	72	H2	0.02834	ug/l	2.6	15	
Mg	24	45	He	26035.50787	ug/l	1.6	3596547	
V	51	72	He	0.12335	ug/l	7.1	247	
Cr	52	72	He	0.37916	ug/l	4.3	1047	
Cr	53	72	He	0.34158	ug/l	39.9	123	
Mn	55	72	He	825.69243	ug/l	2.6	907727	
Fe	56	72	He	6303.45537	ug/l	1.9	13088091	
Co	59	72	He	0.25406	ug/l	4.4	1318	
Ni	60	72	He	0.97254	ug/l	2.8	1455	
Cu	63	72	He	0.09398	ug/l	30.2	420	
Cu	65	72	He	0.12994	ug/l	18.8	297	
Zn	66	72	He	1.03562	ug/l	10.6	560	
As	75	72	He	2.37197	ug/l	0.5	681	
Mo	95	115	He	0.02520	ug/l	17.8	59	
Mo	98	115	He	0.02617	ug/l	18.5	111	
Ag	107	115	He	0.00287	ug/l	49.8	32	
Ag	109	115	He	0.00280	ug/l	105.4	37	
Cd	111	115	He	0.00171	ug/l	30.2	3	
Sb	121	115	He	0.02017	ug/l	29.7	81	
Sb	123	115	He	0.01665	ug/l	70.1	63	
Ba	138	115	He	475.91370	ug/l	1.1	2539596	
Tl	203	175	He	-0.00049	ug/l	N/A	25	
Tl	205	175	He	0.00259	ug/l	20.0	95	
Pb	208	175	He	0.03233	ug/l	5.3	1001	
U	238	232	He	0.00710	ug/l	12.6	197	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	441935	0.6	473640.17	93.31	
Ge	72	H2	340181	1.9	353084.2	96.35	
Sc	45	He	61167	1.3	62803.57	97.39	
Ge	72	He	60372	1.4	62517.89	96.57	
In	115	He	630423	0.4	639651.89	98.56	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1800737	0.5	1767103.88	101.9	
Th	232	He	2986912	0.5	2900257.25	102.99	

Sample Report

Sample Name K2310734-002

File Name 024SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:55:26 AM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator **ALKLS**
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00147	ug/l	102.9	21	
Al	27	6	No Gas	5.73872	ug/l	2.3	81891	
Ca	43	6	No Gas	90334.56414	ug/l	1.2	3274328	
Se	77	72	H2	-0.13333	ug/l	N/A	93	
Se	78	72	H2	0.03311	ug/l	75.3	17	
Mg	24	45	He	40024.15709	ug/l	0.2	5562057	
V	51	72	He	0.06747	ug/l	18.9	142	
Cr	52	72	He	0.68980	ug/l	8.4	1895	
Cr	53	72	He	0.65616	ug/l	13.5	233	
Mn	55	72	He	843.16047	ug/l	0.6	947160	
Fe	56	72	He	3956.55042	ug/l	1.3	8394326	
Co	59	72	He	0.03472	ug/l	19.3	194	
Ni	60	72	He	0.43173	ug/l	10.2	693	
Cu	63	72	He	0.05015	ug/l	23.1	243	
Cu	65	72	He	0.11314	ug/l	18.5	267	
Zn	66	72	He	0.82991	ug/l	13.3	467	
As	75	72	He	0.12706	ug/l	6.5	41	
Mo	95	115	He	0.02157	ug/l	13.7	51	
Mo	98	115	He	0.01734	ug/l	27.9	77	
Ag	107	115	He	0.00039	ug/l	149.5	10	
Ag	109	115	He	0.00060	ug/l	59.6	18	
Cd	111	115	He	0.00001	ug/l	5429.2	1	
Sb	121	115	He	0.03678	ug/l	16.6	116	
Sb	123	115	He	0.02613	ug/l	34.5	80	
Ba	138	115	He	708.89625	ug/l	0.8	3810488	
Tl	203	175	He	0.00050	ug/l	375.4	33	
Tl	205	175	He	0.00175	ug/l	30.9	80	
Pb	208	175	He	0.00648	ug/l	5.7	364	
U	238	232	He	0.00402	ug/l	31.8	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	429670	0.6	473640.17	90.72	
Ge	72	H2	339005	2.4	353084.2	96.01	
Sc	45	He	61525	0.5	62803.57	97.96	
Ge	72	He	61678	0.3	62517.89	98.66	
In	115	He	635058	1.0	639651.89	99.28	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1823231	0.7	1767103.88	103.18	
Th	232	He	3087547	1.1	2900257.25	106.46	

Sample Report

Sample Name K2310734-001

File Name 025SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 11:57:48 AM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.01172	ug/l	8.7	53	
Al	27	6	No Gas	5.06498	ug/l	1.2	74179	
Ca	43	6	No Gas	59867.43895	ug/l	1.1	2222792	
Se	77	72	H2	0.07364	ug/l	394.0	117	
Se	78	72	H2	0.01594	ug/l	27.9	10	
Mg	24	45	He	26458.85575	ug/l	1.9	3580984	
V	51	72	He	0.08977	ug/l	6.3	182	
Cr	52	72	He	0.35773	ug/l	7.8	990	
Cr	53	72	He	0.29089	ug/l	20.1	107	
Mn	55	72	He	829.12789	ug/l	1.6	910679	
Fe	56	72	He	5552.25655	ug/l	1.1	11518214	
Co	59	72	He	0.32029	ug/l	5.7	1657	
Ni	60	72	He	0.90753	ug/l	0.8	1360	
Cu	63	72	He	0.04900	ug/l	8.5	233	
Cu	65	72	He	0.06827	ug/l	19.2	167	
Zn	66	72	He	1.22310	ug/l	16.0	653	
As	75	72	He	1.76571	ug/l	2.8	508	
Mo	95	115	He	0.01490	ug/l	27.4	36	
Mo	98	115	He	0.01418	ug/l	37.4	63	
Ag	107	115	He	0.00039	ug/l	249.9	10	
Ag	109	115	He	-0.00057	ug/l	N/A	8	
Cd	111	115	He	0.00173	ug/l	30.2	3	
Sb	121	115	He	0.04325	ug/l	20.2	128	
Sb	123	115	He	0.04267	ug/l	21.3	107	
Ba	138	115	He	474.66607	ug/l	0.6	2516465	
Tl	203	175	He	-0.00177	ug/l	N/A	15	
Tl	205	175	He	-0.00033	ug/l	N/A	40	
Pb	208	175	He	0.00693	ug/l	22.1	377	
U	238	232	He	0.00435	ug/l	7.9	127	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	440135	1.2	473640.17	92.93	
Ge	72	H2	335778	1.5	353084.2	95.1	
Sc	45	He	59921	0.3	62803.57	95.41	
Ge	72	He	60315	1.5	62517.89	96.48	
In	115	He	626354	1.3	639651.89	97.92	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1828706	2.6	1767103.88	103.49	
Th	232	He	3034995	1.9	2900257.25	104.65	

Sample Report

Sample Name K2310734-002

File Name 026SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 12:00:09 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00155	ug/l	74.5	21	
Al	27	6	No Gas	6.06423	ug/l	1.1	86802	
Ca	43	6	No Gas	90857.75235	ug/l	1.0	3305612	
Se	77	72	H2	-0.01804	ug/l	N/A	107	
Se	78	72	H2	0.02724	ug/l	62.0	14	
Mg	24	45	He	40549.53419	ug/l	1.2	5453508	
V	51	72	He	0.04851	ug/l	41.8	100	
Cr	52	72	He	0.65575	ug/l	1.6	1737	
Cr	53	72	He	0.49005	ug/l	43.6	170	
Mn	55	72	He	882.41579	ug/l	1.0	953977	
Fe	56	72	He	4051.43312	ug/l	0.4	8272597	
Co	59	72	He	0.24884	ug/l	12.6	1269	
Ni	60	72	He	0.53620	ug/l	3.9	814	
Cu	63	72	He	0.07508	ug/l	17.1	337	
Cu	65	72	He	0.14248	ug/l	21.7	317	
Zn	66	72	He	1.96890	ug/l	5.9	1013	
As	75	72	He	0.13379	ug/l	15.7	42	
Mo	95	115	He	0.00844	ug/l	55.9	21	
Mo	98	115	He	0.01162	ug/l	6.5	53	
Ag	107	115	He	0.00174	ug/l	69.5	22	
Ag	109	115	He	0.00063	ug/l	196.7	18	
Cd	111	115	He	0.00292	ug/l	26.3	4	
Sb	121	115	He	0.07148	ug/l	23.4	185	
Sb	123	115	He	0.06941	ug/l	13.4	152	
Ba	138	115	He	708.36547	ug/l	1.2	3760485	
Tl	203	175	He	-0.00160	ug/l	N/A	17	
Tl	205	175	He	-0.00019	ug/l	N/A	43	
Pb	208	175	He	0.00920	ug/l	11.0	438	
U	238	232	He	0.00535	ug/l	3.8	157	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	431261	0.6	473640.17	91.05	
Ge	72	H2	337957	3.6	353084.2	95.72	
Sc	45	He	59543	1.1	62803.57	94.81	
Ge	72	He	59361	0.9	62517.89	94.95	
In	115	He	627203	0.8	639651.89	98.05	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1844656	1.1	1767103.88	104.39	
Th	232	He	3101188	0.4	2900257.25	106.93	

Reference Sample Report

Sample Name	K2310979-003
File Name	027_ARF.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 12:02:31 PM
Sample Type	AlRef
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**ALKLS** **NoUser**

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00207	ug/l	N/A	11	
Al	27	6	No Gas	7.66278	ug/l	0.9	117879	
Ca	43	6	No Gas	12255.52390	ug/l	1.2	480627	
Se	77	72	H2	0.30802	ug/l	142.3	157	
Se	78	72	H2	0.02965	ug/l	13.5	17	
Mg	24	45	He	5861.58105	ug/l	0.7	982087	
V	51	72	He	7.58589	ug/l	1.5	17049	
Cr	52	72	He	0.24928	ug/l	4.6	823	
Cr	53	72	He	0.26439	ug/l	25.3	113	
Mn	55	72	He	1.32405	ug/l	7.4	1720	
Fe	56	72	He	78.95572	ug/l	0.5	190856	
Co	59	72	He	59.69929	ug/l	1.5	356319	
Ni	60	72	He	17.68601	ug/l	1.8	29523	
Cu	63	72	He	1.82675	ug/l	2.7	8876	
Cu	65	72	He	1.77913	ug/l	4.3	4349	
Zn	66	72	He	21.47248	ug/l	2.6	12602	
As	75	72	He	0.50134	ug/l	4.9	171	
Mo	95	115	He	0.04005	ug/l	10.9	101	
Mo	98	115	He	0.03503	ug/l	10.2	160	
Ag	107	115	He	0.00325	ug/l	36.6	38	
Ag	109	115	He	0.00116	ug/l	286.0	25	
Cd	111	115	He	0.00336	ug/l	27.7	5	
Sb	121	115	He	0.09281	ug/l	4.9	252	
Sb	123	115	He	0.07380	ug/l	7.4	175	
Ba	138	115	He	6.21239	ug/l	3.0	36322	
Tl	203	175	He	-0.00054	ug/l	N/A	27	
Tl	205	175	He	0.00026	ug/l	242.6	55	
Pb	208	175	He	0.01054	ug/l	1.9	499	
U	238	232	He	0.02781	ug/l	25.9	763	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	464810	1.1	473640.17	98.14	
Ge	72	H2	364784	2.3	353084.2	103.31	
Sc	45	He	74171	1.5	62803.57	118.1	

see 5X
am 10/13/23

Reference Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	70083	2.3	62517.89	112.1	
In	115	He	690280	0.9	639651.89	107.91	
Lu	175	He	1949688	0.9	1767103.88	110.33	
Th	232	He	3082909	1.4	2900257.25	106.3	

see 5X
am 10/13/23

Duplicate Sample Report

Sample Name	KQ2317266-03
File Name	028_Dup.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 12:04:52 PM
Sample Type	Dup
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD Ref FileName	Fail
QC Ref File Name	027_
Default Text	ARL ALKLS NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	RPD	Flag
Be	9	6	No Gas	-0.00182	ug/l	N/A	15		<5x MRL
Al	27	6	No Gas	7.48906	ug/l	0.5	142213		<5x MRL
Ca	43	6	No Gas	11646.91938	ug/l	1.1	563723	5.09	
Se	77	72	H2	0.00674	ug/l	3452.1	137		<5x MRL
Se	78	72	H2	0.03108	ug/l	22.0	20		<5x MRL
Mg	24	45	He	5835.75420	ug/l	1.1	1063269	0.44	
V	51	72	He	7.79477	ug/l	1.6	18178	2.72	
Cr	52	72	He	0.22391	ug/l	13.8	773		<5x MRL
Cr	53	72	He	0.19542	ug/l	13.7	90		<5x MRL
Mn	55	72	He	1.25902	ug/l	7.1	1697	5.03	
Fe	56	72	He	78.51739	ug/l	2.0	196931	0.56	
Co	59	72	He	59.64285	ug/l	1.9	369380	0.09	
Ni	60	72	He	17.89897	ug/l	2.6	31000	1.2	
Cu	63	72	He	1.75062	ug/l	2.0	8830	4.26	
Cu	65	72	He	1.81759	ug/l	1.1	4612	2.14	
Zn	66	72	He	20.78595	ug/l	0.6	12662	3.25	
As	75	72	He	0.52324	ug/l	11.1	185		<5x MRL
Mo	95	115	He	0.03959	ug/l	28.7	101		<5x MRL
Mo	98	115	He	0.03352	ug/l	5.3	156		<5x MRL
Ag	107	115	He	0.00113	ug/l	129.8	18		<5x MRL
Ag	109	115	He	0.00236	ug/l	55.8	37		<5x MRL
Cd	111	115	He	0.00408	ug/l	47.9	5		<5x MRL
Sb	121	115	He	0.06387	ug/l	7.0	189		<5x MRL
Sb	123	115	He	0.08368	ug/l	18.4	196		<5x MRL
Ba	138	115	He	5.80375	ug/l	0.9	34394	6.8	
Tl	203	175	He	0.00219	ug/l	45.7	48		<5x MRL
Tl	205	175	He	0.00185	ug/l	78.4	85		<5x MRL
[Pb]	206	175	He	0.00701	ug/l	24.9	101		<5x MRL
[Pb]	207	175	He	0.00533	ug/l	3.7	88		<5x MRL
Pb	208	175	He	0.00941	ug/l	7.1	453		<5x MRL
U	238	232	He	0.02751	ug/l	8.1	720		<5x MRL

see 5X
am 10/13/23

QC ISTD Table

Duplicate Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	573614	0.4	473640.17	121.11	
Ge	72	H2	422582	1.4	353084.2	119.68	
Sc	45	He	80655	1.2	62803.57	128.42	IS out of 70-125%
Ge	72	He	72730	2.7	62517.89	116.33	
In	115	He	699558	0.9	639651.89	109.37	
Lu	175	He	1885569	1.4	1767103.88	106.7	
Th	232	He	2936487	0.5	2900257.25	101.25	

See 5X
AM 10/13/23

Matrix Spike Sample (MS) Report

Sample Name KQ2317266-04

File Name 029_SPK.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 12:07:14 PM

Sample Type Spike

Comment ---

ISTD Ref FileName 003CALB.d

QC Ref File Name 027_
ARF.

Default Text ALKLS
NoUser

QC Analyte Table

Name	Mass	Tune	Conc.	Units	Conc. RSD	CPS	Spk Amt	% Rec	Flag
Be	9	No Gas	2.26411	ug/l	1.2	9891	2.5	90.65	
Al	27	No Gas	102.03415	ug/l	1.3	2108912	100	94.37	
Ca	43	No Gas	10883.41057	ug/l	0.2	579234	250	-548.85	Spike Failed
Se	77	H2	41.82026	ug/l	7.4	6582	50	83.02	
Se	78	H2	43.29880	ug/l	1.0	21698	50	86.54	
Mg	24	He	6005.89049	ug/l	1.7	1200187	250	57.72	Spike Failed
V	51	He	34.08238	ug/l	2.6	86542	25	105.99	
Cr	52	He	10.42886	ug/l	2.1	35654	10	101.8	
Cr	53	He	9.96686	ug/l	2.3	4371	10	97.02	
Mn	55	He	27.32371	ug/l	3.1	39448	25	104	
Fe	56	He	127.65609	ug/l	1.9	348367	50	97.4	
Co	59	He	80.97652	ug/l	1.5	546287	25	85.11	
Ni	60	He	40.26924	ug/l	2.2	75885	25	90.33	
Cu	63	He	13.12682	ug/l	1.3	71864	12.5	90.4	
Cu	65	He	13.12868	ug/l	1.7	36087	12.5	90.8	
Zn	66	He	42.53343	ug/l	0.7	28161	25	84.24	
As	75	He	47.19307	ug/l	2.4	17680	50	93.38	
Mo	95	He	25.12528	ug/l	1.2	67832	25	100.34	
Mo	98	He	24.67933	ug/l	0.3	117091	25	98.58	
Ag	107	He	10.87282	ug/l	0.4	113994	12.5	86.96	
Ag	109	He	10.97943	ug/l	0.9	110863	12.5	87.83	
Cd	111	He	22.24509	ug/l	0.2	26162	25	88.97	
Sb	121	He	9.21140	ug/l	0.8	22725	10	91.19	
Sb	123	He	9.02080	ug/l	2.8	18298	10	89.47	
Ba	138	He	100.52307	ug/l	1.1	643724	100	94.31	
Tl	203	He	44.35652	ug/l	0.7	393989	50	88.71	
Tl	205	He	44.60322	ug/l	1.5	952636	50	89.21	
[Pb]	206	He	44.71851	ug/l	0.6	302974	50	89.42	
[Pb]	207	He	43.53224	ug/l	0.6	270937	50	87.05	
Pb	208	He	44.21044	ug/l	0.7	1233184	50	88.4	
U	238	He	24.08043	ug/l	1.2	644814	25	96.21	

see 5X
@m 10/13/23

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	630740	1.8	473640.17	133.17	IS out of 70-125%
Ge	72	H2	433688	1.2	353084.2	122.83	

Matrix Spike Sample (MS) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Sc	45	He	88475	1.2	62803.57	140.87	IS out of 70-125%
Ge	72	He	79197	0.3	62517.89	126.68	IS out of 70-125%
In	115	He	756545	1.8	639651.89	118.27	
Lu	175	He	2025401	0.6	1767103.88	114.62	
Th	232	He	3048071	2.7	2900257.25	105.1	

see 5X
am 10/13/23

Sample Report

Sample Name K2311042-011
File Name 030SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time 2023-10-13 12:18:54 PM
Sample Type Sample
Comment ---
ISTD Ref FileName 003CALB.d
Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00071	ug/l	N/A	23	
Al	27	6	No Gas	45.83698	ug/l	0.4	1006831	
Ca	43	6	No Gas	14034.12444	ug/l	2.1	792747	
Se	77	72	H2	0.15029	ug/l	97.5	170	
Se	78	72	H2	0.13887	ug/l	9.3	78	
Mg	24	45	He	4607.06437	ug/l	2.8	869692	
V	51	72	He	1.90831	ug/l	2.5	4913	
Cr	52	72	He	0.25988	ug/l	8.5	978	
Cr	53	72	He	0.19766	ug/l	50.6	100	
Mn	55	72	He	7.35655	ug/l	3.2	10771	
Fe	56	72	He	60.68151	ug/l	1.3	167840	
Co	59	72	He	0.04181	ug/l	8.9	301	
Ni	60	72	He	0.22537	ug/l	10.4	508	
Cu	63	72	He	0.66231	ug/l	8.1	3704	
Cu	65	72	He	0.63140	ug/l	4.3	1787	
Zn	66	72	He	1.09001	ug/l	10.9	780	
As	75	72	He	0.96874	ug/l	6.7	373	
Mo	95	115	He	0.70300	ug/l	7.8	2038	
Mo	98	115	He	0.69682	ug/l	1.1	3554	
Ag	107	115	He	0.00074	ug/l	142.2	17	
Ag	109	115	He	-0.00048	ug/l	N/A	12	
Cd	111	115	He	0.00829	ug/l	24.6	12	
Sb	121	115	He	0.09264	ug/l	16.4	295	
Sb	123	115	He	0.08732	ug/l	9.4	235	
Ba	138	115	He	20.77314	ug/l	0.6	142659	
Tl	203	175	He	0.00634	ug/l	40.1	93	
Tl	205	175	He	0.00801	ug/l	19.4	233	
Pb	208	175	He	0.04929	ug/l	7.1	1676	
U	238	232	He	0.52495	ug/l	3.1	15059	

see rerun am 10/13/23

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	669583	1.4	473640.17	141.37	IS out of 70-125%
Ge	72	H2	453697	2.0	353084.2	128.5	IS out of 70-125%
Sc	45	He	83575	0.9	62803.57	133.07	IS out of 70-125%
Ge	72	He	80122	0.8	62517.89	128.16	IS out of 70-125%
In	115	He	811129	1.1	639651.89	126.81	IS out of 70-125%

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2123594	1.2	1767103.88	120.17	
Th	232	He	3262891	1.7	2900257.25	112.5	

see rerun
am 10/13/23

Sample Report

Sample Name K2311042-012
File Name 031SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time 2023-10-13 12:21:15 PM
Sample Type Sample
Comment ---
ISTD Ref FileName 003CALB.d
Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00204	ug/l	67.6	33	
Al	27	6	No Gas	69.09798	ug/l	3.3	1400088	
Ca	43	6	No Gas	14281.06500	ug/l	0.8	744783	
Se	77	72	H2	0.30337	ug/l	54.2	190	
Se	78	72	H2	0.12282	ug/l	11.2	68	
Mg	24	45	He	4471.91722	ug/l	1.4	819228	
V	51	72	He	2.12483	ug/l	1.8	5369	
Cr	52	72	He	0.24922	ug/l	11.5	923	
Cr	53	72	He	0.28603	ug/l	17.6	137	
Mn	55	72	He	9.13849	ug/l	2.4	13123	
Fe	56	72	He	88.19519	ug/l	1.6	239202	
Co	59	72	He	0.06090	ug/l	2.3	423	
Ni	60	72	He	0.29637	ug/l	7.0	631	
Cu	63	72	He	0.70330	ug/l	4.1	3861	
Cu	65	72	He	0.71397	ug/l	7.9	1980	
Zn	66	72	He	1.10647	ug/l	1.4	777	
As	75	72	He	0.96417	ug/l	3.8	364	
Mo	95	115	He	0.67738	ug/l	4.2	1913	
Mo	98	115	He	0.71907	ug/l	2.0	3575	
Ag	107	115	He	0.00122	ug/l	78.1	22	
Ag	109	115	He	-0.00030	ug/l	N/A	13	
Cd	111	115	He	0.00660	ug/l	34.6	9	
Sb	121	115	He	0.09712	ug/l	10.5	299	
Sb	123	115	He	0.08696	ug/l	10.5	228	
Ba	138	115	He	20.75868	ug/l	0.5	138956	
Tl	203	175	He	0.00529	ug/l	25.1	83	
Tl	205	175	He	0.00899	ug/l	13.5	255	
Pb	208	175	He	0.06875	ug/l	2.2	2239	
U	238	232	He	0.51341	ug/l	4.0	14585	

see rerun on 10/13/23

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	618123	0.9	473640.17	130.5	IS out of 70-125%
Ge	72	H2	443308	1.4	353084.2	125.55	IS out of 70-125%
Sc	45	He	81101	0.8	62803.57	129.13	IS out of 70-125%
Ge	72	He	78661	1.4	62517.89	125.82	IS out of 70-125%
In	115	He	790668	1.2	639651.89	123.61	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2117897	2.5	1767103.88	119.85	
Th	232	He	3232091	1.8	2900257.25	111.44	

see rerun am 10/13/23

Sample Report

Sample Name K2311042-013

File Name 032SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:03:35 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00074	ug/l	N/A	16	
Al	27	6	No Gas	57.59806	ug/l	2.5	879121	
Ca	43	6	No Gas	15811.49335	ug/l	1.0	620958	
Se	77	72	H2	0.57922	ug/l	42.3	197	
Se	78	72	H2	0.11733	ug/l	15.0	55	
Mg	24	45	He	4496.17456	ug/l	8.2	645220	
V	51	72	He	1.99789	ug/l	3.7	4046	
Cr	52	72	He	0.15687	ug/l	7.9	490	
Cr	53	72	He	0.23690	ug/l	45.5	93	
Mn	55	72	He	7.98521	ug/l	8.1	9186	
Fe	56	72	He	69.00394	ug/l	4.2	150070	
Co	59	72	He	0.04215	ug/l	4.5	239	
Ni	60	72	He	0.25541	ug/l	5.1	444	
Cu	63	72	He	0.65198	ug/l	6.3	2870	
Cu	65	72	He	0.64553	ug/l	3.0	1437	
Zn	66	72	He	0.96491	ug/l	12.5	550	
As	75	72	He	1.02225	ug/l	12.3	309	
Mo	95	115	He	0.70112	ug/l	9.2	1717	
Mo	98	115	He	0.66064	ug/l	2.5	2853	
Ag	107	115	He	0.00067	ug/l	168.8	13	
Ag	109	115	He	-0.00063	ug/l	N/A	8	
Cd	111	115	He	0.00563	ug/l	34.4	7	
Sb	121	115	He	0.09892	ug/l	10.8	263	
Sb	123	115	He	0.08608	ug/l	18.1	197	
Ba	138	115	He	21.17066	ug/l	4.0	122971	
Tl	203	175	He	0.00676	ug/l	32.5	87	
Tl	205	175	He	0.00544	ug/l	22.4	158	
Pb	208	175	He	0.05258	ug/l	9.1	1579	
U	238	232	He	0.56697	ug/l	2.7	15450	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	465480	0.7	473640.17	98.28	
Ge	72	H2	373774	4.8	353084.2	105.86	
Sc	45	He	63792	7.7	62803.57	101.57	
Ge	72	He	63091	3.9	62517.89	100.92	
In	115	He	686991	5.2	639651.89	107.4	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1897620	7.5	1767103.88	107.39	
Th	232	He	3101267	4.4	2900257.25	106.93	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	033_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 1:05:57 PM
Sample Type	CCV
Comment	—
ISTD Ref FileName	003CALB.d
Operator	**ALKLS** **NoUser**

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	24.88812	ug/l	0.7	82484	99.55	
Al	27	6	No Gas	252.59669	ug/l	0.5	3968475	101.04	
Ca	43	6	No Gas	2010.67670	ug/l	0.4	81439	100.53	
Se	77	72	H2	25.71067	ug/l	9.0	3450	102.84	
Se	78	72	H2	25.55956	ug/l	1.7	10793	102.24	
Mg	24	45	He	1982.98044	ug/l	1.4	294811	99.15	
V	51	72	He	24.75745	ug/l	0.9	51862	99.03	
Cr	52	72	He	24.94418	ug/l	3.2	70233	99.78	
Cr	53	72	He	24.88046	ug/l	5.2	8980	99.52	
Mn	55	72	He	25.73393	ug/l	3.5	30636	102.94	
Fe	56	72	He	249.27526	ug/l	2.3	560571	99.71	
Co	59	72	He	24.71744	ug/l	2.5	137534	98.87	
Ni	60	72	He	24.53657	ug/l	3.6	38154	98.15	
Cu	63	72	He	24.40524	ug/l	1.4	110190	97.62	
Cu	65	72	He	24.58467	ug/l	2.8	55709	98.34	
Zn	66	72	He	24.80004	ug/l	4.1	13557	99.2	
As	75	72	He	24.73791	ug/l	2.4	7646	98.95	
Mo	95	115	He	11.94158	ug/l	0.8	30387	95.53	
Mo	98	115	He	11.84293	ug/l	1.2	52959	94.74	
Ag	107	115	He	12.11643	ug/l	1.3	119727	96.93	
Ag	109	115	He	12.26599	ug/l	0.2	116727	98.13	
Cd	111	115	He	24.94223	ug/l	0.5	27646	99.77	
Sb	121	115	He	12.58897	ug/l	1.7	29259	100.71	
Sb	123	115	He	12.23645	ug/l	0.4	23383	97.89	
Ba	138	115	He	23.40948	ug/l	1.0	141314	93.64	
Tl	203	175	He	25.67233	ug/l	0.8	223573	102.69	
Tl	205	175	He	26.04250	ug/l	0.3	545326	104.17	
Pb	208	175	He	25.41761	ug/l	0.5	695152	101.67	
U	238	232	He	26.15550	ug/l	1.7	744555	104.62	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	479609	0.6	473640.17	101.26	
Ge	72	H2	365413	1.0	353084.2	103.49	
Sc	45	He	65807	0.8	62803.57	104.78	
Ge	72	He	65344	2.4	62517.89	104.52	
In	115	He	713029	0.6	639651.89	111.47	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1985686	0.9	1767103.88	112.37	
Th	232	He	3239884	0.6	2900257.25	111.71	

Continuing Calibration Blank (CCB) Report

Sample Name CCB

File Name 034_CCB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:08:18 PM

Sample Type CCB

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00389	ug/l	27.0	31	
Al	27	6	No Gas	0.02810	ug/l	34.9	1702	
Ca	43	6	No Gas	1.02088	ug/l	88.7	127	
Se	77	72	H2	0.02794	ug/l	257.1	123	
Se	78	72	H2	0.00022	ug/l	532.7	4	
Mg	24	45	He	0.31259	ug/l	59.2	127	
V	51	72	He	0.00376	ug/l	31.8	17	
Cr	52	72	He	0.00313	ug/l	294.3	75	
Cr	53	72	He	0.02664	ug/l	107.2	20	
Mn	55	72	He	-0.01228	ug/l	N/A	13	
Fe	56	72	He	-0.00983	ug/l	N/A	480	
Co	59	72	He	-0.00051	ug/l	N/A	10	
Ni	60	72	He	-0.00550	ug/l	N/A	56	
Cu	63	72	He	0.00182	ug/l	197.5	40	
Cu	65	72	He	-0.00193	ug/l	N/A	22	
Zn	66	72	He	-0.02820	ug/l	N/A	27	
As	75	72	He	0.00142	ug/l	386.7	5	
Mo	95	115	He	0.00163	ug/l	81.0	7	
Mo	98	115	He	0.00051	ug/l	360.3	11	
Ag	107	115	He	0.00141	ug/l	101.8	22	
Ag	109	115	He	0.00035	ug/l	177.1	18	
Cd	111	115	He	0.00125	ug/l	19.5	2	
Sb	121	115	He	0.01061	ug/l	68.6	70	
Sb	123	115	He	-0.00017	ug/l	N/A	40	
Ba	138	115	He	-0.00001	ug/l	N/A	30	
Tl	203	175	He	0.00230	ug/l	9.0	52	
Tl	205	175	He	0.00174	ug/l	14.4	87	
Pb	208	175	He	0.00005	ug/l	1730.9	220	
U	238	232	He	0.00149	ug/l	50.2	53	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	472383	1.3	473640.17	99.73	
Ge	72	H2	372555	2.0	353084.2	105.51	
Sc	45	He	66058	3.2	62803.57	105.18	
Ge	72	He	65618	2.1	62517.89	104.96	
In	115	He	720164	0.8	639651.89	112.59	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1977046	2.1	1767103.88	111.88	
Th	232	He	3229014	1.5	2900257.25	111.34	

Sample Report

Sample Name K2311042-011

File Name 035SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:10:42 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00447	ug/l	52.8	32	
Al	27	6	No Gas	48.10795	ug/l	0.6	733097	
Ca	43	6	No Gas	15571.04840	ug/l	0.8	610314	
Se	77	72	H2	0.15877	ug/l	217.5	137	
Se	78	72	H2	0.14532	ug/l	19.7	65	
Mg	24	45	He	4430.49666	ug/l	1.1	643381	
V	51	72	He	2.00214	ug/l	3.1	4101	
Cr	52	72	He	0.23262	ug/l	9.8	703	
Cr	53	72	He	0.29291	ug/l	29.5	113	
Mn	55	72	He	7.11497	ug/l	0.8	8289	
Fe	56	72	He	59.53777	ug/l	0.3	131057	
Co	59	72	He	0.04519	ug/l	22.1	258	
Ni	60	72	He	0.26462	ug/l	8.0	463	
Cu	63	72	He	0.64994	ug/l	0.4	2894	
Cu	65	72	He	0.65333	ug/l	3.0	1470	
Zn	66	72	He	1.04494	ug/l	6.5	597	
As	75	72	He	0.97477	ug/l	4.1	298	
Mo	95	115	He	0.69493	ug/l	5.5	1730	
Mo	98	115	He	0.66219	ug/l	6.4	2899	
Ag	107	115	He	0.00114	ug/l	92.6	18	
Ag	109	115	He	0.00042	ug/l	326.1	18	
Cd	111	115	He	0.00639	ug/l	35.2	8	
Sb	121	115	He	0.10063	ug/l	19.6	272	
Sb	123	115	He	0.10021	ug/l	12.6	226	
Ba	138	115	He	20.35584	ug/l	2.0	120018	
Tl	203	175	He	0.00722	ug/l	13.7	93	
Tl	205	175	He	0.00880	ug/l	29.5	232	
Pb	208	175	He	0.04967	ug/l	2.8	1556	
U	238	232	He	0.53792	ug/l	4.0	15096	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	464549	0.0	473640.17	98.08	
Ge	72	H2	361417	1.4	353084.2	102.36	
Sc	45	He	64290	1.3	62803.57	102.37	
Ge	72	He	63757	0.3	62517.89	101.98	
In	115	He	696472	1.0	639651.89	108.88	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1957833	0.9	1767103.88	110.79	
Th	232	He	3191643	1.9	2900257.25	110.05	

Sample Report

Sample Name K2311042-012

File Name 036SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:13:04 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00226	ug/l	87.1	25	
Al	27	6	No Gas	70.86905	ug/l	0.4	1083162	
Ca	43	6	No Gas	14865.15052	ug/l	0.1	584707	
Se	77	72	H2	0.44693	ug/l	54.5	173	
Se	78	72	H2	0.13387	ug/l	15.6	60	
Mg	24	45	He	4386.10863	ug/l	1.0	634642	
V	51	72	He	2.10598	ug/l	3.0	4291	
Cr	52	72	He	0.26075	ug/l	8.6	777	
Cr	53	72	He	0.34950	ug/l	53.0	133	
Mn	55	72	He	9.26480	ug/l	0.6	10734	
Fe	56	72	He	88.10021	ug/l	2.0	192718	
Co	59	72	He	0.06180	ug/l	17.7	346	
Ni	60	72	He	0.25613	ug/l	9.8	448	
Cu	63	72	He	0.73003	ug/l	9.4	3234	
Cu	65	72	He	0.74724	ug/l	11.9	1667	
Zn	66	72	He	1.10516	ug/l	11.6	627	
As	75	72	He	0.94130	ug/l	6.2	287	
Mo	95	115	He	0.67622	ug/l	8.7	1693	
Mo	98	115	He	0.63537	ug/l	4.7	2800	
Ag	107	115	He	0.00045	ug/l	265.4	12	
Ag	109	115	He	0.00004	ug/l	2192.6	15	
Cd	111	115	He	0.00804	ug/l	24.0	10	
Sb	121	115	He	0.10648	ug/l	9.8	287	
Sb	123	115	He	0.10043	ug/l	10.8	228	
Ba	138	115	He	20.13799	ug/l	1.3	119479	
Tl	203	175	He	0.00388	ug/l	7.5	63	
Tl	205	175	He	0.00906	ug/l	9.8	232	
Pb	208	175	He	0.06940	ug/l	4.8	2042	
U	238	232	He	0.51134	ug/l	2.9	14388	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	466188	0.1	473640.17	98.43	
Ge	72	H2	361281	0.5	353084.2	102.32	
Sc	45	He	64056	0.7	62803.57	101.99	
Ge	72	He	63452	2.2	62517.89	101.49	
In	115	He	700755	0.2	639651.89	109.55	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1916013	1.4	1767103.88	108.43	
Th	232	He	3200782	1.4	2900257.25	110.36	

Sample Report

Sample Name K2311042-014

File Name 037SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:15:25 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00123	ug/l	139.5	22	
Al	27	6	No Gas	41.73323	ug/l	1.0	637698	
Ca	43	6	No Gas	15446.02272	ug/l	1.2	606899	
Se	77	72	H2	0.30625	ug/l	63.9	153	
Se	78	72	H2	0.13241	ug/l	14.8	59	
Mg	24	45	He	4337.28914	ug/l	1.1	638016	
V	51	72	He	1.92737	ug/l	2.4	3964	
Cr	52	72	He	0.18504	ug/l	3.9	575	
Cr	53	72	He	0.16918	ug/l	17.1	70	
Mn	55	72	He	6.89249	ug/l	5.8	8062	
Fe	56	72	He	53.77870	ug/l	2.3	118900	
Co	59	72	He	0.06109	ug/l	11.9	346	
Ni	60	72	He	0.24799	ug/l	7.9	440	
Cu	63	72	He	0.67220	ug/l	3.3	3004	
Cu	65	72	He	0.65675	ug/l	3.2	1483	
Zn	66	72	He	0.89081	ug/l	22.7	517	
As	75	72	He	0.93438	ug/l	4.4	287	
Mo	95	115	He	0.68548	ug/l	6.4	1701	
Mo	98	115	He	0.66728	ug/l	4.7	2913	
Ag	107	115	He	0.00012	ug/l	267.0	8	
Ag	109	115	He	0.00023	ug/l	345.2	17	
Cd	111	115	He	0.00580	ug/l	8.4	7	
Sb	121	115	He	0.09804	ug/l	5.3	265	
Sb	123	115	He	0.08902	ug/l	9.4	204	
Ba	138	115	He	20.41764	ug/l	0.6	119994	
Tl	203	175	He	0.00534	ug/l	46.3	77	
Tl	205	175	He	0.00803	ug/l	18.0	213	
Pb	208	175	He	0.04250	ug/l	6.4	1346	
U	238	232	He	0.53205	ug/l	4.9	14739	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	465710	0.6	473640.17	98.33	
Ge	72	H2	357354	1.1	353084.2	101.21	
Sc	45	He	65120	1.0	62803.57	103.69	
Ge	72	He	64015	0.4	62517.89	102.39	
In	115	He	694114	1.3	639651.89	108.51	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1934814	2.0	1767103.88	109.49	
Th	232	He	3150233	0.2	2900257.25	108.62	

Sample Report

Sample Name K2311042-011

File Name 038SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:17:47 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00145	ug/l	N/A	13	
Al	27	6	No Gas	2.90344	ug/l	3.2	45301	
Ca	43	6	No Gas	15389.66760	ug/l	2.0	601767	
Se	77	72	H2	0.20383	ug/l	87.2	143	
Se	78	72	H2	0.12632	ug/l	8.4	57	
Mg	24	45	He	4347.55006	ug/l	0.7	638740	
V	51	72	He	1.83949	ug/l	1.8	3841	
Cr	52	72	He	0.14318	ug/l	12.2	467	
Cr	53	72	He	0.14796	ug/l	40.2	63	
Mn	55	72	He	0.66076	ug/l	12.3	810	
Fe	56	72	He	4.49782	ug/l	5.5	10554	
Co	59	72	He	0.03586	ug/l	13.2	211	
Ni	60	72	He	0.18626	ug/l	8.6	351	
Cu	63	72	He	0.54991	ug/l	3.7	2500	
Cu	65	72	He	0.55959	ug/l	2.5	1287	
Zn	66	72	He	0.48282	ug/l	12.2	303	
As	75	72	He	0.96176	ug/l	4.1	300	
Mo	95	115	He	0.65964	ug/l	6.3	1648	
Mo	98	115	He	0.69890	ug/l	1.9	3073	
Ag	107	115	He	0.00045	ug/l	131.8	12	
Ag	109	115	He	-0.00049	ug/l	N/A	10	
Cd	111	115	He	0.00284	ug/l	101.0	4	
Sb	121	115	He	0.08591	ug/l	9.2	239	
Sb	123	115	He	0.08955	ug/l	7.0	207	
Ba	138	115	He	19.81042	ug/l	1.6	117264	
Tl	203	175	He	0.00711	ug/l	24.4	92	
Tl	205	175	He	0.00517	ug/l	20.9	155	
Pb	208	175	He	0.00328	ug/l	23.7	302	
U	238	232	He	0.52161	ug/l	6.3	14652	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	463504	1.3	473640.17	97.86	
Ge	72	H2	364503	0.1	353084.2	103.23	
Sc	45	He	65037	0.4	62803.57	103.56	
Ge	72	He	64975	0.9	62517.89	103.93	
In	115	He	699164	0.4	639651.89	109.3	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1939713	2.9	1767103.88	109.77	
Th	232	He	3194391	0.2	2900257.25	110.14	

Sample Report

Sample Name K2311042-012

File Name 039SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:20:09 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00123	ug/l	N/A	14	
Al	27	6	No Gas	3.72576	ug/l	0.8	57768	
Ca	43	6	No Gas	15319.67495	ug/l	1.1	598837	
Se	77	72	H2	0.25203	ug/l	81.9	150	
Se	78	72	H2	0.13542	ug/l	6.3	61	
Mg	24	45	He	4346.41544	ug/l	1.4	641509	
V	51	72	He	1.84651	ug/l	2.1	3891	
Cr	52	72	He	0.13461	ug/l	5.5	447	
Cr	53	72	He	0.22896	ug/l	19.0	93	
Mn	55	72	He	0.41483	ug/l	8.7	523	
Fe	56	72	He	5.34886	ug/l	1.6	12569	
Co	59	72	He	0.01183	ug/l	18.1	79	
Ni	60	72	He	0.20127	ug/l	10.7	378	
Cu	63	72	He	0.56554	ug/l	5.1	2594	
Cu	65	72	He	0.55647	ug/l	3.7	1292	
Zn	66	72	He	0.53849	ug/l	8.1	337	
As	75	72	He	0.92912	ug/l	2.5	293	
Mo	95	115	He	0.66750	ug/l	2.7	1676	
Mo	98	115	He	0.65909	ug/l	3.5	2913	
Ag	107	115	He	0.00011	ug/l	1016.1	8	
Ag	109	115	He	-0.00085	ug/l	N/A	7	
Cd	111	115	He	0.00161	ug/l	45.1	3	
Sb	121	115	He	0.09707	ug/l	2.7	266	
Sb	123	115	He	0.07445	ug/l	26.7	179	
Ba	138	115	He	19.65101	ug/l	0.6	116871	
Tl	203	175	He	0.00456	ug/l	60.2	70	
Tl	205	175	He	0.00748	ug/l	32.7	203	
Pb	208	175	He	0.00672	ug/l	8.5	396	
U	238	232	He	0.49379	ug/l	3.3	13931	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	463310	0.6	473640.17	97.82	
Ge	72	H2	365659	1.1	353084.2	103.56	
Sc	45	He	65348	1.9	62803.57	104.05	
Ge	72	He	65578	0.4	62517.89	104.9	
In	115	He	702473	1.1	639651.89	109.82	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1944697	1.4	1767103.88	110.05	
Th	232	He	3208688	0.6	2900257.25	110.63	

Sample Report

Sample Name K2311042-013

File Name 040SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:22:30 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00355	ug/l	N/A	7	
Al	27	6	No Gas	2.77381	ug/l	1.5	43672	
Ca	43	6	No Gas	15310.72664	ug/l	0.7	603301	
Se	77	72	H2	0.10142	ug/l	172.3	133	
Se	78	72	H2	0.12376	ug/l	14.2	58	
Mg	24	45	He	4350.54517	ug/l	1.1	634327	
V	51	72	He	1.74115	ug/l	2.8	3645	
Cr	52	72	He	0.15004	ug/l	5.4	487	
Cr	53	72	He	0.19445	ug/l	40.2	80	
Mn	55	72	He	0.48786	ug/l	5.6	607	
Fe	56	72	He	4.76202	ug/l	4.4	11168	
Co	59	72	He	0.01370	ug/l	15.5	89	
Ni	60	72	He	0.16747	ug/l	12.8	323	
Cu	63	72	He	0.52892	ug/l	6.6	2414	
Cu	65	72	He	0.52696	ug/l	2.5	1217	
Zn	66	72	He	0.43344	ug/l	21.9	277	
As	75	72	He	0.89318	ug/l	2.6	280	
Mo	95	115	He	0.68775	ug/l	2.8	1731	
Mo	98	115	He	0.67055	ug/l	4.9	2970	
Ag	107	115	He	0.00044	ug/l	66.0	12	
Ag	109	115	He	-0.00032	ug/l	N/A	12	
Cd	111	115	He	0.00357	ug/l	26.1	5	
Sb	121	115	He	0.09525	ug/l	12.2	263	
Sb	123	115	He	0.08123	ug/l	21.5	193	
Ba	138	115	He	19.53562	ug/l	2.5	116510	
Tl	203	175	He	0.00401	ug/l	23.2	65	
Tl	205	175	He	0.00701	ug/l	21.6	192	
Pb	208	175	He	0.00049	ug/l	96.4	227	
U	238	232	He	0.51873	ug/l	4.0	14749	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	467033	1.0	473640.17	98.6	
Ge	72	H2	373670	0.1	353084.2	105.83	
Sc	45	He	64548	0.8	62803.57	102.78	
Ge	72	He	65146	1.9	62517.89	104.2	
In	115	He	704457	0.4	639651.89	110.13	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1930780	1.6	1767103.88	109.26	
Th	232	He	3234761	1.6	2900257.25	111.53	

Sample Report

Sample Name K2311042-014

File Name 041SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:24:52 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00135	ug/l	N/A	14	
Al	27	6	No Gas	2.62921	ug/l	2.4	41397	
Ca	43	6	No Gas	15470.86436	ug/l	0.8	608572	
Se	77	72	H2	0.09815	ug/l	338.7	127	
Se	78	72	H2	0.12657	ug/l	12.4	56	
Mg	24	45	He	4396.87806	ug/l	2.0	640055	
V	51	72	He	1.74008	ug/l	5.6	3662	
Cr	52	72	He	0.15526	ug/l	11.1	505	
Cr	53	72	He	0.26653	ug/l	27.8	107	
Mn	55	72	He	0.56480	ug/l	24.7	700	
Fe	56	72	He	4.56110	ug/l	3.7	10781	
Co	59	72	He	0.01839	ug/l	5.7	116	
Ni	60	72	He	0.19630	ug/l	13.8	370	
Cu	63	72	He	0.54767	ug/l	6.7	2510	
Cu	65	72	He	0.51533	ug/l	4.9	1197	
Zn	66	72	He	0.54368	ug/l	28.9	340	
As	75	72	He	0.96523	ug/l	5.5	304	
Mo	95	115	He	0.67455	ug/l	2.4	1699	
Mo	98	115	He	0.67833	ug/l	4.5	3007	
Ag	107	115	He	0.00009	ug/l	1120.8	8	
Ag	109	115	He	0.00021	ug/l	525.2	17	
Cd	111	115	He	0.00357	ug/l	58.9	5	
Sb	121	115	He	0.09375	ug/l	3.8	259	
Sb	123	115	He	0.09034	ug/l	16.8	210	
Ba	138	115	He	19.62894	ug/l	1.8	117156	
Tl	203	175	He	0.00505	ug/l	37.7	75	
Tl	205	175	He	0.00571	ug/l	33.4	168	
Pb	208	175	He	0.00011	ug/l	1053.8	220	
U	238	232	He	0.52246	ug/l	2.0	14415	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	466224	0.9	473640.17	98.43	
Ge	72	H2	357484	2.1	353084.2	101.25	
Sc	45	He	64454	2.1	62803.57	102.63	
Ge	72	He	65538	2.2	62517.89	104.83	
In	115	He	704903	0.8	639651.89	110.2	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1957979	3.0	1767103.88	110.8	
Th	232	He	3136772	2.5	2900257.25	108.15	

Sample Report

Sample Name K2310247-007

File Name 042SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:27:14 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00940	ug/l	17.4	47	
Al	27	6	No Gas	199.37966	ug/l	0.9	2984080	
Ca	43	6	No Gas	41370.16097	ug/l	3.5	1594374	
Se	77	72	H2	1.32983	ug/l	9.7	287	
Se	78	72	H2	1.23419	ug/l	2.4	520	
Mg	24	45	He	8939.56186	ug/l	1.5	1348972	
V	51	72	He	1.90881	ug/l	2.6	3964	
Cr	52	72	He	1.08100	ug/l	5.8	3074	
Cr	53	72	He	0.87612	ug/l	32.1	323	
Mn	55	72	He	79.22902	ug/l	1.6	93266	
Fe	56	72	He	1506.50820	ug/l	0.8	3349095	
Co	59	72	He	0.62730	ug/l	1.5	3466	
Ni	60	72	He	2.86410	ug/l	0.9	4463	
Cu	63	72	He	18.82207	ug/l	1.7	84071	
Cu	65	72	He	18.99931	ug/l	1.1	42602	
Zn	66	72	He	67.44866	ug/l	2.1	36410	
As	75	72	He	0.66784	ug/l	5.2	209	
Mo	95	115	He	18.21651	ug/l	1.7	44998	
Mo	98	115	He	18.23562	ug/l	0.7	79166	
Ag	107	115	He	0.04758	ug/l	18.3	463	
Ag	109	115	He	0.04659	ug/l	15.9	445	
Cd	111	115	He	0.10199	ug/l	0.9	111	
Sb	121	115	He	0.77161	ug/l	0.2	1782	
Sb	123	115	He	0.74437	ug/l	3.0	1418	
Ba	138	115	He	49.23526	ug/l	1.7	288488	
Tl	203	175	He	0.00338	ug/l	90.5	60	
Tl	205	175	He	0.00344	ug/l	33.1	120	
Pb	208	175	He	0.60224	ug/l	1.2	16347	
U	238	232	He	1.59636	ug/l	0.7	44461	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	456867	0.6	473640.17	96.46	
Ge	72	H2	361597	0.5	353084.2	102.41	
Sc	45	He	66808	0.7	62803.57	106.38	
Ge	72	He	64624	1.3	62517.89	103.37	
In	115	He	692287	1.6	639651.89	108.23	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1945379	0.5	1767103.88	110.09	
Th	232	He	3169054	0.8	2900257.25	109.27	

Sample Report

Sample Name K2310979-003

File Name 043SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:29:35 PM

Sample Type Sample

Comment 5X

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00265	ug/l	N/A	10	
Al	27	6	No Gas	1.94692	ug/l	3.6	32652	
Ca	43	6	No Gas	2436.43085	ug/l	1.5	101112	
Se	77	72	H2	-0.05056	ug/l	N/A	117	
Se	78	72	H2	0.00733	ug/l	122.5	8	
Mg	24	45	He	1156.93301	ug/l	2.2	183936	
V	51	72	He	1.46740	ug/l	1.6	3297	
Cr	52	72	He	0.05737	ug/l	17.4	243	
Cr	53	72	He	0.05734	ug/l	93.4	33	
Mn	55	72	He	0.24342	ug/l	23.6	340	
Fe	56	72	He	15.36211	ug/l	1.5	37469	
Co	59	72	He	11.70965	ug/l	0.8	69722	
Ni	60	72	He	3.52207	ug/l	2.4	5919	
Cu	63	72	He	0.36878	ug/l	11.5	1813	
Cu	65	72	He	0.39434	ug/l	9.8	983	
Zn	66	72	He	4.05748	ug/l	9.4	2410	
As	75	72	He	0.11245	ug/l	8.7	42	
Mo	95	115	He	0.01696	ug/l	22.2	47	
Mo	98	115	He	0.01651	ug/l	37.0	84	
Ag	107	115	He	-0.00026	ug/l	N/A	5	
Ag	109	115	He	-0.00053	ug/l	N/A	10	
Cd	111	115	He	0.00078	ug/l	118.1	2	
Sb	121	115	He	0.02362	ug/l	6.7	102	
Sb	123	115	He	0.01070	ug/l	37.7	62	
Ba	138	115	He	1.11610	ug/l	3.6	6919	
Tl	203	175	He	-0.00232	ug/l	N/A	12	
Tl	205	175	He	-0.00129	ug/l	N/A	23	
Pb	208	175	He	-0.00231	ug/l	N/A	157	
U	238	232	He	0.00580	ug/l	35.8	177	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	491563	1.3	473640.17	103.78	
Ge	72	H2	385489	0.9	353084.2	109.18	
Sc	45	He	70371	1.7	62803.57	112.05	
Ge	72	He	69888	0.9	62517.89	111.79	
In	115	He	729048	0.5	639651.89	113.98	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1981838	2.0	1767103.88	112.15	
Th	232	He	3235405	1.5	2900257.25	111.56	

Sample Report

Sample Name KQ2317266-03

File Name 044SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:31:57 PM

Sample Type Sample

Comment 5X

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00137	ug/l	N/A	15	
Al	27	6	No Gas	1.92443	ug/l	1.3	33734	
Ca	43	6	No Gas	2401.68225	ug/l	0.7	104127	
Se	77	72	H2	0.08820	ug/l	251.4	137	
Se	78	72	H2	0.00726	ug/l	34.7	8	
Mg	24	45	He	1140.56738	ug/l	1.0	192298	
V	51	72	He	1.45185	ug/l	1.6	3344	
Cr	52	72	He	0.06822	ug/l	27.2	283	
Cr	53	72	He	0.07197	ug/l	68.5	40	
Mn	55	72	He	0.26244	ug/l	19.2	373	
Fe	56	72	He	15.43805	ug/l	2.3	38589	
Co	59	72	He	11.75896	ug/l	1.3	71769	
Ni	60	72	He	3.62745	ug/l	1.3	6247	
Cu	63	72	He	0.35282	ug/l	4.6	1780	
Cu	65	72	He	0.38286	ug/l	4.6	980	
Zn	66	72	He	4.33194	ug/l	2.6	2637	
As	75	72	He	0.10527	ug/l	13.0	41	
Mo	95	115	He	0.00529	ug/l	41.8	17	
Mo	98	115	He	0.00756	ug/l	29.6	44	
Ag	107	115	He	-0.00010	ug/l	N/A	7	
Ag	109	115	He	0.00028	ug/l	274.6	18	
Cd	111	115	He	-0.00026	ug/l	N/A	1	
Sb	121	115	He	0.00994	ug/l	54.1	71	
Sb	123	115	He	0.00956	ug/l	77.5	61	
Ba	138	115	He	1.11726	ug/l	6.9	7092	
Tl	203	175	He	-0.00310	ug/l	N/A	5	
Tl	205	175	He	-0.00109	ug/l	N/A	28	
Pb	208	175	He	-0.00149	ug/l	N/A	183	
U	238	232	He	0.00510	ug/l	22.8	160	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	513482	0.6	473640.17	108.41	
Ge	72	H2	388072	0.3	353084.2	109.91	
Sc	45	He	74613	1.5	62803.57	118.8	
Ge	72	He	71651	2.1	62517.89	114.61	
In	115	He	746941	1.1	639651.89	116.77	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2032738	0.5	1767103.88	115.03	
Th	232	He	3305195	1.5	2900257.25	113.96	

Continuing Calibration Verification (CCV) Report

Sample Name CCV

File Name 045_CCV.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:34:20 PM

Sample Type CCV

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	24.51893	ug/l	0.6	90376	98.08	
Al	27	6	No Gas	253.19442	ug/l	0.7	4423879	101.28	
Ca	43	6	No Gas	2030.16571	ug/l	1.3	91445	101.51	
Se	77	72	H2	25.65233	ug/l	7.7	3824	102.61	
Se	78	72	H2	25.64117	ug/l	0.9	12023	102.56	
Mg	24	45	He	1983.60217	ug/l	0.4	329596	99.18	
V	51	72	He	24.81028	ug/l	0.7	57434	99.24	
Cr	52	72	He	24.80498	ug/l	0.6	77210	99.22	
Cr	53	72	He	24.11193	ug/l	1.1	9623	96.45	
Mn	55	72	He	25.86353	ug/l	2.2	34037	103.45	
Fe	56	72	He	250.07767	ug/l	0.8	621597	100.03	
Co	59	72	He	24.78321	ug/l	0.4	152435	99.13	
Ni	60	72	He	24.68930	ug/l	0.5	42442	98.76	
Cu	63	72	He	24.85631	ug/l	0.4	124026	99.43	
Cu	65	72	He	24.70255	ug/l	0.4	61877	98.81	
Zn	66	72	He	25.83085	ug/l	2.6	15609	103.32	
As	75	72	He	24.67282	ug/l	0.7	8429	98.69	
Mo	95	115	He	11.97954	ug/l	0.4	32786	95.84	
Mo	98	115	He	11.88249	ug/l	0.6	57151	95.06	
Ag	107	115	He	12.24700	ug/l	0.4	130163	97.98	
Ag	109	115	He	12.30471	ug/l	0.7	125947	98.44	
Cd	111	115	He	24.99085	ug/l	0.7	29794	99.96	
Sb	121	115	He	12.73353	ug/l	0.4	31829	101.87	
Sb	123	115	He	12.28143	ug/l	1.9	25240	98.25	
Ba	138	115	He	23.01660	ug/l	1.1	149446	92.07	
Tl	203	175	He	25.42568	ug/l	0.9	232590	101.7	
Tl	205	175	He	25.61827	ug/l	0.6	563483	102.47	
Pb	208	175	He	25.17680	ug/l	0.6	723287	100.71	
U	238	232	He	25.69209	ug/l	1.5	760123	102.77	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	533396	0.8	473640.17	112.62	
Ge	72	H2	405778	0.9	353084.2	114.92	
Sc	45	He	73544	1.1	62803.57	117.1	
Ge	72	He	72201	0.9	62517.89	115.49	
In	115	He	766908	0.9	639651.89	119.89	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2085838	1.2	1767103.88	118.04	
Th	232	He	3367236	0.4	2900257.25	116.1	

Continuing Calibration Blank (CCB) Report

Sample Name CCB

File Name 046_CCB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:36:41 PM

Sample Type CCB

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00244	ug/l	82.5	29	
Al	27	6	No Gas	0.04086	ug/l	17.4	2069	
Ca	43	6	No Gas	1.60257	ug/l	25.1	163	
Se	77	72	H2	-0.29914	ug/l	N/A	87	
Se	78	72	H2	0.00019	ug/l	1760.4	5	
Mg	24	45	He	-0.00577	ug/l	N/A	87	
V	51	72	He	0.00317	ug/l	143.8	17	
Cr	52	72	He	-0.00660	ug/l	N/A	52	
Cr	53	72	He	0.00514	ug/l	288.5	13	
Mn	55	72	He	-0.00026	ug/l	N/A	30	
Fe	56	72	He	0.03652	ug/l	65.7	633	
Co	59	72	He	0.00101	ug/l	54.8	20	
Ni	60	72	He	-0.01145	ug/l	N/A	50	
Cu	63	72	He	-0.00219	ug/l	N/A	23	
Cu	65	72	He	-0.00409	ug/l	N/A	18	
Zn	66	72	He	-0.06533	ug/l	N/A	7	
As	75	72	He	0.00025	ug/l	4288.9	5	
Mo	95	115	He	0.00106	ug/l	240.4	6	
Mo	98	115	He	0.00174	ug/l	126.1	18	
Ag	107	115	He	0.00159	ug/l	28.8	25	
Ag	109	115	He	0.00006	ug/l	913.3	17	
Cd	111	115	He	0.00181	ug/l	66.6	3	
Sb	121	115	He	0.00311	ug/l	162.8	56	
Sb	123	115	He	0.00705	ug/l	77.2	58	
Ba	138	115	He	0.00020	ug/l	442.5	33	
Tl	203	175	He	0.00092	ug/l	278.7	42	
Tl	205	175	He	0.00241	ug/l	29.3	105	
Pb	208	175	He	-0.00105	ug/l	N/A	199	
U	238	232	He	0.00241	ug/l	50.8	80	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	514584	1.5	473640.17	108.64	
Ge	72	H2	403435	1.0	353084.2	114.26	
Sc	45	He	71926	1.3	62803.57	114.52	
Ge	72	He	70927	0.3	62517.89	113.45	
In	115	He	768703	0.7	639651.89	120.18	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2065325	0.9	1767103.88	116.88	
Th	232	He	3251218	0.6	2900257.25	112.1	

Sample Report

Sample Name KQ2317266-04

File Name 047SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:39:04 PM

Sample Type Sample

Comment 5X

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.46568	ug/l	1.5	1671	
Al	27	6	No Gas	21.34713	ug/l	0.6	360249	
Ca	43	6	No Gas	2348.47593	ug/l	0.8	101804	
Se	77	72	H2	9.68104	ug/l	9.0	1507	
Se	78	72	H2	9.80560	ug/l	2.0	4545	
Mg	24	45	He	1158.25200	ug/l	1.9	192970	
V	51	72	He	6.27536	ug/l	0.9	14658	
Cr	52	72	He	1.95927	ug/l	3.2	6220	
Cr	53	72	He	1.60662	ug/l	21.5	657	
Mn	55	72	He	5.04958	ug/l	2.0	6728	
Fe	56	72	He	24.63297	ug/l	2.2	62249	
Co	59	72	He	15.99745	ug/l	1.3	99233	
Ni	60	72	He	7.99328	ug/l	2.2	13908	
Cu	63	72	He	2.67328	ug/l	2.6	13487	
Cu	65	72	He	2.68612	ug/l	0.7	6812	
Zn	66	72	He	9.27674	ug/l	2.8	5685	
As	75	72	He	9.34632	ug/l	2.6	3223	
Mo	95	115	He	4.64353	ug/l	2.2	12602	
Mo	98	115	He	4.67342	ug/l	2.2	22291	
Ag	107	115	He	2.26379	ug/l	1.6	23862	
Ag	109	115	He	2.31085	ug/l	2.6	23462	
Cd	111	115	He	4.67137	ug/l	1.2	5523	
Sb	121	115	He	1.83893	ug/l	0.3	4599	
Sb	123	115	He	1.77830	ug/l	6.3	3659	
Ba	138	115	He	19.13210	ug/l	1.9	123168	
Tl	203	175	He	9.51422	ug/l	1.6	86985	
Tl	205	175	He	9.76153	ug/l	2.8	214514	
Pb	208	175	He	9.50069	ug/l	2.2	272826	
U	238	232	He	5.02249	ug/l	0.8	146191	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	513358	0.6	473640.17	108.39	
Ge	72	H2	400981	2.6	353084.2	113.57	
Sc	45	He	73742	1.8	62803.57	117.42	
Ge	72	He	72817	1.0	62517.89	116.47	
In	115	He	760528	1.7	639651.89	118.9	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2084715	3.1	1767103.88	117.97	
Th	232	He	3312332	1.2	2900257.25	114.21	

Continuing Calibration Verification (CCV) Report

Sample Name CCV

File Name 048_CCV.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:41:28 PM

Sample Type CCV

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS

QC Analyte Table NoUser

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	24.69385	ug/l	1.4	90868	98.78	
Al	27	6	No Gas	255.49957	ug/l	1.6	4456765	102.2	
Ca	43	6	No Gas	2047.66133	ug/l	1.5	92103	102.38	
Se	77	72	H2	24.23811	ug/l	7.4	3704	96.95	
Se	78	72	H2	25.39281	ug/l	2.9	12186	101.57	
Mg	24	45	He	1979.45651	ug/l	2.1	329465	98.97	
V	51	72	He	25.03177	ug/l	1.1	57540	100.13	
Cr	52	72	He	25.10013	ug/l	2.4	77567	100.4	
Cr	53	72	He	25.14627	ug/l	5.7	9967	100.59	
Mn	55	72	He	25.28659	ug/l	0.5	33048	101.15	
Fe	56	72	He	249.63936	ug/l	1.1	616128	99.86	
Co	59	72	He	25.04332	ug/l	0.9	152943	100.17	
Ni	60	72	He	24.66201	ug/l	1.2	42095	98.65	
Cu	63	72	He	24.89202	ug/l	1.6	123337	99.57	
Cu	65	72	He	24.67976	ug/l	0.6	61390	98.72	
Zn	66	72	He	25.00683	ug/l	2.0	15008	100.03	
As	75	72	He	24.97209	ug/l	1.2	8471	99.89	
Mo	95	115	He	11.96610	ug/l	0.5	33203	95.73	
Mo	98	115	He	11.90159	ug/l	1.4	58032	95.21	
Ag	107	115	He	12.02580	ug/l	1.1	129572	96.21	
Ag	109	115	He	12.31667	ug/l	1.0	127800	98.53	
Cd	111	115	He	24.98285	ug/l	0.8	30195	99.93	
Sb	121	115	He	12.61602	ug/l	1.1	31970	100.93	
Sb	123	115	He	12.14105	ug/l	0.7	25300	97.13	
Ba	138	115	He	23.07871	ug/l	1.7	151910	92.31	
Tl	203	175	He	25.27183	ug/l	0.7	234134	101.09	
Tl	205	175	He	25.59766	ug/l	1.3	570219	102.39	
Pb	208	175	He	25.00193	ug/l	1.1	727440	100.01	
U	238	232	He	25.99239	ug/l	0.8	765646	103.97	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	532569	1.4	473640.17	112.44	
Ge	72	H2	415488	2.8	353084.2	117.67	
Sc	45	He	73688	1.8	62803.57	117.33	
Ge	72	He	71695	1.1	62517.89	114.68	
In	115	He	777520	1.1	639651.89	121.55	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2112533	0.9	1767103.88	119.55	
Th	232	He	3352622	1.7	2900257.25	115.6	

Continuing Calibration Blank (CCB) Report

Sample Name CCB

File Name 049_CCB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:43:50 PM

Sample Type CCB

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00446	ug/l	28.8	36	
Al	27	6	No Gas	0.04281	ug/l	7.3	2132	
Ca	43	6	No Gas	0.93652	ug/l	47.6	137	
Se	77	72	H2	0.24890	ug/l	160.3	167	
Se	78	72	H2	0.00368	ug/l	92.7	6	
Mg	24	45	He	0.07299	ug/l	435.9	100	
V	51	72	He	0.00458	ug/l	84.1	20	
Cr	52	72	He	-0.00627	ug/l	N/A	53	
Cr	53	72	He	0.01367	ug/l	539.6	17	
Mn	55	72	He	0.00220	ug/l	418.1	33	
Fe	56	72	He	-0.01629	ug/l	N/A	510	
Co	59	72	He	0.00063	ug/l	186.2	18	
Ni	60	72	He	-0.00850	ug/l	N/A	56	
Cu	63	72	He	0.00045	ug/l	247.8	37	
Cu	65	72	He	0.00193	ug/l	250.1	33	
Zn	66	72	He	-0.03214	ug/l	N/A	27	
As	75	72	He	0.00107	ug/l	134.4	5	
Mo	95	115	He	0.00261	ug/l	78.5	10	
Mo	98	115	He	0.00239	ug/l	146.3	21	
Ag	107	115	He	0.00250	ug/l	33.5	35	
Ag	109	115	He	0.00084	ug/l	150.2	25	
Cd	111	115	He	0.00110	ug/l	88.5	2	
Sb	121	115	He	0.01266	ug/l	44.7	81	
Sb	123	115	He	0.00475	ug/l	261.9	53	
Ba	138	115	He	0.00167	ug/l	191.2	43	
Tl	203	175	He	0.00142	ug/l	77.9	47	
Tl	205	175	He	0.00295	ug/l	17.1	118	
Pb	208	175	He	0.00082	ug/l	88.1	256	
U	238	232	He	0.00164	ug/l	0.5	60	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	522201	0.8	473640.17	110.25	
Ge	72	H2	406442	2.0	353084.2	115.11	
Sc	45	He	72297	0.7	62803.57	115.12	
Ge	72	He	71614	1.7	62517.89	114.55	
In	115	He	778947	1.5	639651.89	121.78	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2093120	0.7	1767103.88	118.45	
Th	232	He	3356355	0.4	2900257.25	115.73	

Prep Blank (PB) Report

Sample Name KQ2317265-01

File Name 050_PB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:46:13 PM

Sample Type PB

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00034	ug/l	N/A	19	
Al	27	6	No Gas	1.17540	ug/l	1.8	21139	
Ca	43	6	No Gas	1.75922	ug/l	69.0	170	
Se	77	72	H2	0.27548	ug/l	96.3	167	
Se	78	72	H2	-0.00260	ug/l	N/A	3	
Mg	24	45	He	0.33733	ug/l	66.0	143	
V	51	72	He	0.00378	ug/l	119.4	18	
Cr	52	72	He	-0.00683	ug/l	N/A	52	
Cr	53	72	He	-0.01254	ug/l	N/A	7	
Mn	55	72	He	-0.00596	ug/l	N/A	23	
Fe	56	72	He	0.06183	ug/l	39.9	707	
Co	59	72	He	-0.00030	ug/l	N/A	12	
Ni	60	72	He	-0.01955	ug/l	N/A	37	
Cu	63	72	He	-0.00095	ug/l	N/A	30	
Cu	65	72	He	-0.00216	ug/l	N/A	23	
Zn	66	72	He	-0.01539	ug/l	N/A	37	
As	75	72	He	-0.00007	ug/l	N/A	5	
Mo	95	115	He	0.00185	ug/l	98.9	8	
Mo	98	115	He	0.00243	ug/l	86.2	21	
Ag	107	115	He	-0.00013	ug/l	N/A	7	
Ag	109	115	He	0.00136	ug/l	34.1	30	
Cd	111	115	He	0.00000	ug/l	53801.8	1	
Sb	121	115	He	0.00006	ug/l	4967.0	48	
Sb	123	115	He	-0.00393	ug/l	N/A	35	
Ba	138	115	He	0.00227	ug/l	308.0	47	
Tl	203	175	He	-0.00187	ug/l	N/A	17	
Tl	205	175	He	0.00080	ug/l	38.5	72	
[Pb]	206	175	He	-0.00180	ug/l	N/A	51	
[Pb]	207	175	He	-0.00194	ug/l	N/A	51	
Pb	208	175	He	-0.00181	ug/l	N/A	181	
U	238	232	He	0.00051	ug/l	100.4	27	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	513418	0.5	473640.17	108.4	
Ge	72	H2	398028	0.7	353084.2	112.73	
Sc	45	He	72482	1.1	62803.57	115.41	

Prep Blank (PB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	72056	2.2	62517.89	115.26	
In	115	He	769592	0.9	639651.89	120.31	
Lu	175	He	2112277	1.0	1767103.88	119.53	
Th	232	He	3351367	1.4	2900257.25	115.55	

Laboratory Control Sample (LCS) Report

Sample Name KQ2317265-02

File Name 051_LCS.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:48:36 PM

Sample Type LCS

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	QC Flag
Be	9	6	No Gas	2.35147	ug/l	0.8	8237	2.5	94.06	
Al	27	6	No Gas	99.32927	ug/l	0.7	1646637	100	99.33	
Ca	43	6	No Gas	242.40103	ug/l	4.6	10437	250	96.96	
Se	77	72	H2	50.78093	ug/l	2.7	7275	50	101.56	
Se	78	72	H2	49.77530	ug/l	0.7	22806	50	99.55	
Mg	24	45	He	235.81992	ug/l	1.2	38093	250	94.33	
V	51	72	He	23.09825	ug/l	1.6	52660	25	92.39	
Cr	52	72	He	9.32470	ug/l	2.0	28627	10	93.25	
Cr	53	72	He	8.42934	ug/l	8.7	3324	10	84.29	LCS Failed
Mn	55	72	He	24.21803	ug/l	2.9	31388	25	96.87	
Fe	56	72	He	47.25512	ug/l	1.5	116129	50	94.51	
Co	59	72	He	23.38250	ug/l	1.5	141633	25	93.53	
Ni	60	72	He	23.17124	ug/l	1.5	39232	25	92.68	
Cu	63	72	He	11.61626	ug/l	1.5	57105	12.5	92.93	
Cu	65	72	He	11.75738	ug/l	0.9	29021	12.5	94.06	
Zn	66	72	He	23.82701	ug/l	5.6	14181	25	95.31	
As	75	72	He	46.53312	ug/l	1.3	15652	50	93.07	
Mo	95	115	He	21.99041	ug/l	1.5	60185	25	87.96	
Mo	98	115	He	21.83357	ug/l	0.6	105003	25	87.33	
Ag	107	115	He	11.48030	ug/l	1.1	122010	12.5	91.84	
Ag	109	115	He	11.68961	ug/l	1.0	119642	12.5	93.52	
Cd	111	115	He	23.81509	ug/l	0.6	28391	25	95.26	
Sb	121	115	He	9.02697	ug/l	0.9	22577	10	90.27	
Sb	123	115	He	8.64890	ug/l	1.1	17788	10	86.49	
Ba	138	115	He	87.30527	ug/l	1.3	566754	100	87.31	
Tl	203	175	He	49.22647	ug/l	0.8	445339	50	98.45	
Tl	205	175	He	50.19934	ug/l	0.2	1091990	50	100.4	
[Pb]	206	175	He	51.13795	ug/l	0.3	352863	50	102.28	
[Pb]	207	175	He	46.90097	ug/l	1.0	297285	50	93.8	
Pb	208	175	He	49.07309	ug/l	0.4	1394085	50	98.15	
U	238	232	He	24.46577	ug/l	1.7	722474	25	97.86	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	505811	1.2	473640.17	106.79	
Ge	72	H2	396525	1.1	353084.2	112.3	
Sc	45	He	71353	1.2	62803.57	113.61	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	71115	1.6	62517.89	113.75	
In	115	He	766895	0.6	639651.89	119.89	
Lu	175	He	2062871	0.7	1767103.88	116.74	
Th	232	He	3361513	2.0	2900257.25	115.9	

Sample Report

Sample Name K2311042-001

File Name 052SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:50:58 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00151	ug/l	104.9	24	
Al	27	6	No Gas	54.18180	ug/l	2.0	867484	
Ca	43	6	No Gas	15167.62613	ug/l	0.8	624715	
Se	77	72	H2	0.42108	ug/l	109.2	180	
Se	78	72	H2	0.16070	ug/l	15.7	75	
Mg	24	45	He	4255.95023	ug/l	2.2	661897	
V	51	72	He	1.92437	ug/l	4.7	4217	
Cr	52	72	He	0.19209	ug/l	10.6	633	
Cr	53	72	He	0.17483	ug/l	38.9	77	
Mn	55	72	He	7.23025	ug/l	1.5	9013	
Fe	56	72	He	66.58197	ug/l	0.5	156778	
Co	59	72	He	0.04891	ug/l	15.4	298	
Ni	60	72	He	0.26998	ug/l	12.2	504	
Cu	63	72	He	0.67332	ug/l	2.6	3207	
Cu	65	72	He	0.66617	ug/l	4.2	1603	
Zn	66	72	He	1.14652	ug/l	11.3	697	
As	75	72	He	0.92837	ug/l	9.6	304	
Mo	95	115	He	0.64673	ug/l	4.5	1717	
Mo	98	115	He	0.67489	ug/l	0.9	3153	
Ag	107	115	He	0.00103	ug/l	55.2	18	
Ag	109	115	He	0.00113	ug/l	92.9	27	
Cd	111	115	He	0.01114	ug/l	5.6	14	
Sb	121	115	He	0.07833	ug/l	11.1	236	
Sb	123	115	He	0.08347	ug/l	15.8	208	
Ba	138	115	He	19.34938	ug/l	0.8	121686	
Tl	203	175	He	0.01502	ug/l	20.2	167	
Tl	205	175	He	0.02087	ug/l	13.9	500	
Pb	208	175	He	0.06426	ug/l	3.3	2025	
U	238	232	He	0.51445	ug/l	1.5	15102	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	488162	0.2	473640.17	103.07	
Ge	72	H2	382665	0.8	353084.2	108.38	
Sc	45	He	68865	2.0	62803.57	109.65	
Ge	72	He	68227	0.6	62517.89	109.13	
In	115	He	742794	0.4	639651.89	116.12	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2034051	1.7	1767103.88	115.11	
Th	232	He	3338370	0.5	2900257.25	115.11	

Sample Report

Sample Name	K2311042-002
File Name	053SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 1:53:20 PM
Sample Type	Sample
Comment	—
ISTD Ref FileName	003CALB.d
Operator	ALKLS NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00075	ug/l	11.2	21	
Al	27	6	No Gas	47.57942	ug/l	1.5	746608	
Ca	43	6	No Gas	15417.86015	ug/l	1.4	622280	
Se	77	72	H2	0.26058	ug/l	42.6	157	
Se	78	72	H2	0.12498	ug/l	20.5	59	
Mg	24	45	He	4187.19337	ug/l	1.5	653285	
V	51	72	He	2.03579	ug/l	4.4	4397	
Cr	52	72	He	0.16408	ug/l	1.9	543	
Cr	53	72	He	0.17742	ug/l	22.7	77	
Mn	55	72	He	6.90592	ug/l	1.9	8486	
Fe	56	72	He	60.25185	ug/l	2.1	139889	
Co	59	72	He	0.04290	ug/l	2.9	259	
Ni	60	72	He	0.25223	ug/l	4.5	469	
Cu	63	72	He	0.65882	ug/l	5.4	3094	
Cu	65	72	He	0.61958	ug/l	2.1	1472	
Zn	66	72	He	1.12247	ug/l	19.6	673	
As	75	72	He	1.00317	ug/l	0.8	324	
Mo	95	115	He	0.64245	ug/l	3.7	1705	
Mo	98	115	He	0.65727	ug/l	1.9	3068	
Ag	107	115	He	0.00119	ug/l	82.0	20	
Ag	109	115	He	0.00012	ug/l	1314.7	17	
Cd	111	115	He	0.00566	ug/l	38.3	8	
Sb	121	115	He	0.09738	ug/l	1.4	282	
Sb	123	115	He	0.08606	ug/l	9.9	213	
Ba	138	115	He	19.71496	ug/l	1.0	123902	
Tl	203	175	He	0.01112	ug/l	19.9	133	
Tl	205	175	He	0.01072	ug/l	15.5	285	
Pb	208	175	He	0.05075	ug/l	2.1	1667	
U	238	232	He	0.51238	ug/l	3.1	15156	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	478396	1.3	473640.17	101	
Ge	72	H2	378969	0.6	353084.2	107.33	
Sc	45	He	69072	1.1	62803.57	109.98	
Ge	72	He	67246	0.7	62517.89	107.56	
In	115	He	742298	0.6	639651.89	116.05	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2059334	2.4	1767103.88	116.54	
Th	232	He	3363888	0.5	2900257.25	115.99	

Sample Report

Sample Name K2311042-003

File Name 054SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:55:42 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00179	ug/l	176.8	24	
Al	27	6	No Gas	51.73660	ug/l	0.8	807071	
Ca	43	6	No Gas	15538.32030	ug/l	0.6	623540	
Se	77	72	H2	0.45177	ug/l	97.4	183	
Se	78	72	H2	0.12624	ug/l	17.8	60	
Mg	24	45	He	4250.40761	ug/l	1.5	659593	
V	51	72	He	2.02278	ug/l	4.2	4406	
Cr	52	72	He	0.19226	ug/l	10.5	630	
Cr	53	72	He	0.24698	ug/l	24.6	103	
Mn	55	72	He	7.36451	ug/l	4.2	9123	
Fe	56	72	He	64.36144	ug/l	1.6	150622	
Co	59	72	He	0.04080	ug/l	7.3	249	
Ni	60	72	He	0.38630	ug/l	5.0	689	
Cu	63	72	He	0.69902	ug/l	4.9	3307	
Cu	65	72	He	0.70581	ug/l	4.1	1687	
Zn	66	72	He	1.37859	ug/l	3.9	823	
As	75	72	He	0.94385	ug/l	2.7	307	
Mo	95	115	He	0.67272	ug/l	6.7	1768	
Mo	98	115	He	0.65443	ug/l	3.5	3027	
Ag	107	115	He	0.00153	ug/l	48.1	23	
Ag	109	115	He	0.00013	ug/l	432.0	17	
Cd	111	115	He	0.00616	ug/l	18.3	8	
Sb	121	115	He	0.10158	ug/l	9.0	289	
Sb	123	115	He	0.09130	ug/l	4.9	221	
Ba	138	115	He	20.22863	ug/l	1.1	125937	
Tl	203	175	He	0.01117	ug/l	37.1	132	
Tl	205	175	He	0.01213	ug/l	4.0	310	
Pb	208	175	He	0.05561	ug/l	5.6	1772	
U	238	232	He	0.52883	ug/l	4.4	15396	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	475621	0.4	473640.17	100.42	
Ge	72	H2	381295	1.1	353084.2	107.99	
Sc	45	He	68700	0.6	62803.57	109.39	
Ge	72	He	67802	0.3	62517.89	108.45	
In	115	He	735352	0.6	639651.89	114.96	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2022425	0.7	1767103.88	114.45	
Th	232	He	3310601	0.5	2900257.25	114.15	

Sample Report

Sample Name K2311042-004

File Name 055SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 1:58:04 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00144	ug/l	109.6	23	
Al	27	6	No Gas	54.18515	ug/l	1.0	853556	
Ca	43	6	No Gas	15499.07518	ug/l	0.9	628074	
Se	77	72	H2	0.22526	ug/l	102.0	153	
Se	78	72	H2	0.13276	ug/l	26.3	63	
Mg	24	45	He	4274.14070	ug/l	1.0	647654	
V	51	72	He	1.94693	ug/l	1.5	4222	
Cr	52	72	He	0.18340	ug/l	6.3	602	
Cr	53	72	He	0.22140	ug/l	6.3	93	
Mn	55	72	He	6.89156	ug/l	1.0	8503	
Fe	56	72	He	63.15340	ug/l	1.2	147177	
Co	59	72	He	0.04137	ug/l	22.3	251	
Ni	60	72	He	0.25795	ug/l	4.8	480	
Cu	63	72	He	0.65922	ug/l	2.9	3107	
Cu	65	72	He	0.61929	ug/l	4.6	1477	
Zn	66	72	He	0.82851	ug/l	9.5	510	
As	75	72	He	0.96564	ug/l	4.6	313	
Mo	95	115	He	0.68053	ug/l	3.8	1790	
Mo	98	115	He	0.67525	ug/l	1.9	3126	
Ag	107	115	He	0.00104	ug/l	54.2	18	
Ag	109	115	He	-0.00020	ug/l	N/A	13	
Cd	111	115	He	0.00703	ug/l	16.4	9	
Sb	121	115	He	0.10495	ug/l	3.1	298	
Sb	123	115	He	0.10050	ug/l	2.5	239	
Ba	138	115	He	19.81166	ug/l	1.2	123478	
Tl	203	175	He	0.01011	ug/l	34.7	123	
Tl	205	175	He	0.00978	ug/l	22.0	263	
Pb	208	175	He	0.04987	ug/l	8.2	1630	
U	238	232	He	0.52450	ug/l	3.1	15239	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	480315	1.1	473640.17	101.41	
Ge	72	H2	382256	1.2	353084.2	108.26	
Sc	45	He	67083	1.3	62803.57	106.81	
Ge	72	He	67511	0.7	62517.89	107.99	
In	115	He	736138	0.4	639651.89	115.08	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2045261	1.1	1767103.88	115.74	
Th	232	He	3304753	1.4	2900257.25	113.95	

Sample Report

Sample Name K2311042-005

File Name 056SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:00:27 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00013	ug/l	N/A	18	
Al	27	6	No Gas	50.19494	ug/l	1.2	783687	
Ca	43	6	No Gas	15599.05146	ug/l	0.9	626476	
Se	77	72	H2	0.00611	ug/l	2544.5	123	
Se	78	72	H2	0.12476	ug/l	29.5	59	
Mg	24	45	He	4327.82434	ug/l	1.9	661400	
V	51	72	He	1.85449	ug/l	2.0	4062	
Cr	52	72	He	0.17789	ug/l	4.2	592	
Cr	53	72	He	0.21920	ug/l	15.0	93	
Mn	55	72	He	6.74663	ug/l	2.9	8406	
Fe	56	72	He	62.16872	ug/l	2.4	146301	
Co	59	72	He	0.04097	ug/l	7.5	251	
Ni	60	72	He	0.24606	ug/l	7.4	466	
Cu	63	72	He	0.68410	ug/l	6.4	3257	
Cu	65	72	He	0.64400	ug/l	12.2	1548	
Zn	66	72	He	0.79647	ug/l	15.6	497	
As	75	72	He	0.93385	ug/l	6.8	306	
Mo	95	115	He	0.69285	ug/l	5.5	1830	
Mo	98	115	He	0.65931	ug/l	4.6	3065	
Ag	107	115	He	0.00071	ug/l	117.9	15	
Ag	109	115	He	-0.00072	ug/l	N/A	8	
Cd	111	115	He	0.00569	ug/l	23.4	8	
Sb	121	115	He	0.09751	ug/l	8.7	281	
Sb	123	115	He	0.08313	ug/l	14.7	206	
Ba	138	115	He	20.22116	ug/l	2.5	126523	
Tl	203	175	He	0.00472	ug/l	52.5	75	
Tl	205	175	He	0.00895	ug/l	14.3	245	
Pb	208	175	He	0.04657	ug/l	3.3	1537	
U	238	232	He	0.53096	ug/l	2.3	15797	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	475999	0.5	473640.17	100.5	
Ge	72	H2	381914	0.6	353084.2	108.17	
Sc	45	He	67662	1.2	62803.57	107.74	
Ge	72	He	68187	1.5	62517.89	109.07	
In	115	He	739060	0.5	639651.89	115.54	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2043735	1.1	1767103.88	115.65	
Th	232	He	3383592	0.7	2900257.25	116.67	

Sample Report

Sample Name K2311042-006

File Name 057SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:02:48 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00051	ug/l	47.6	20	
Al	27	6	No Gas	49.73161	ug/l	1.8	771531	
Ca	43	6	No Gas	15685.91791	ug/l	1.4	625994	
Se	77	72	H2	0.09494	ug/l	229.1	133	
Se	78	72	H2	0.16047	ug/l	5.1	74	
Mg	24	45	He	4408.08610	ug/l	1.0	671183	
V	51	72	He	1.95815	ug/l	3.3	4197	
Cr	52	72	He	0.19344	ug/l	5.2	623	
Cr	53	72	He	0.13461	ug/l	42.5	60	
Mn	55	72	He	6.75669	ug/l	5.5	8246	
Fe	56	72	He	59.85183	ug/l	1.7	137906	
Co	59	72	He	0.04212	ug/l	9.0	252	
Ni	60	72	He	0.27632	ug/l	5.7	503	
Cu	63	72	He	0.69753	ug/l	4.2	3250	
Cu	65	72	He	0.72863	ug/l	5.9	1713	
Zn	66	72	He	0.95650	ug/l	31.0	573	
As	75	72	He	1.01446	ug/l	5.9	325	
Mo	95	115	He	0.67563	ug/l	1.3	1783	
Mo	98	115	He	0.66034	ug/l	4.0	3067	
Ag	107	115	He	0.00185	ug/l	39.3	27	
Ag	109	115	He	0.00030	ug/l	427.4	18	
Cd	111	115	He	0.00744	ug/l	12.0	10	
Sb	121	115	He	0.08795	ug/l	17.3	258	
Sb	123	115	He	0.08825	ug/l	8.4	216	
Ba	138	115	He	20.57734	ug/l	1.7	128679	
Tl	203	175	He	0.00670	ug/l	46.1	93	
Tl	205	175	He	0.00834	ug/l	18.2	233	
Pb	208	175	He	0.07638	ug/l	4.4	2391	
U	238	232	He	0.54249	ug/l	3.2	15860	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	473032	1.2	473640.17	99.87	
Ge	72	H2	376153	0.4	353084.2	106.53	
Sc	45	He	67404	0.2	62803.57	107.32	
Ge	72	He	66754	2.1	62517.89	106.78	
In	115	He	738668	0.7	639651.89	115.48	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2056853	1.1	1767103.88	116.4	
Th	232	He	3325453	1.3	2900257.25	114.66	

Reference Sample Report

Sample Name	K2311042-007
File Name	058_ARF.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 2:05:11 PM
Sample Type	AllRef
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**ALKLS** **NoUser**

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00060	ug/l	N/A	16	
Al	27	6	No Gas	45.89809	ug/l	2.2	711150	
Ca	43	6	No Gas	15768.93733	ug/l	0.5	628392	
Se	77	72	H2	0.21624	ug/l	158.6	150	
Se	78	72	H2	0.11795	ug/l	11.8	56	
Mg	24	45	He	4364.07918	ug/l	0.3	655011	
V	51	72	He	1.90415	ug/l	4.6	4124	
Cr	52	72	He	0.18659	ug/l	6.8	610	
Cr	53	72	He	0.11384	ug/l	47.9	53	
Mn	55	72	He	6.60666	ug/l	2.7	8142	
Fe	56	72	He	56.97848	ug/l	1.2	132678	
Co	59	72	He	0.04068	ug/l	12.5	247	
Ni	60	72	He	0.29522	ug/l	8.7	539	
Cu	63	72	He	0.61960	ug/l	3.4	2920	
Cu	65	72	He	0.66288	ug/l	4.9	1577	
Zn	66	72	He	0.90114	ug/l	11.5	550	
As	75	72	He	0.98893	ug/l	2.5	320	
Mo	95	115	He	0.68561	ug/l	3.0	1802	
Mo	98	115	He	0.66330	ug/l	3.3	3069	
Ag	107	115	He	0.00088	ug/l	83.0	17	
Ag	109	115	He	-0.00088	ug/l	N/A	7	
Cd	111	115	He	0.00719	ug/l	20.8	9	
Sb	121	115	He	0.09784	ug/l	16.7	280	
Sb	123	115	He	0.07911	ug/l	20.9	197	
Ba	138	115	He	20.11512	ug/l	2.4	125288	
Tl	203	175	He	0.00769	ug/l	52.4	102	
Tl	205	175	He	0.00670	ug/l	9.3	197	
Pb	208	175	He	0.04612	ug/l	2.3	1526	
U	238	232	He	0.53942	ug/l	1.2	15877	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	472297	1.0	473640.17	99.72	
Ge	72	H2	377258	0.6	353084.2	106.85	
Sc	45	He	66442	0.4	62803.57	105.79	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	67440	1.4	62517.89	107.87	
In	115	He	735823	1.3	639651.89	115.03	
Lu	175	He	2045530	0.6	1767103.88	115.76	
Th	232	He	3347351	1.1	2900257.25	115.42	

Duplicate Sample Report

Sample Name	KQ2317265-05
File Name	059_Dup.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 2:07:33 PM
Sample Type	Dup
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD Ref FileName	Pass
QC Ref File Name	058_
Default Text	ARF ALSLS NoUser

Qm 10/13/23

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	RPD	Flag
Be	9	6	No Gas	0.00093	ug/l	150.6	21		<5x MRL
Al	27	6	No Gas	50.32606	ug/l	0.5	780025	9.2	
Ca	43	6	No Gas	15724.50554	ug/l	0.4	626892	0.28	
Se	77	72	H2	0.44620	ug/l	78.2	180		<5x MRL
Se	78	72	H2	0.13226	ug/l	2.7	62		<5x MRL
Mg	24	45	He	4267.62127	ug/l	3.1	652163	2.23	
V	51	72	He	1.98786	ug/l	1.9	4174	4.3	
Cr	52	72	He	0.18158	ug/l	7.3	577		<5x MRL
Cr	53	72	He	0.21191	ug/l	22.0	87		<5x MRL
Mn	55	72	He	6.96306	ug/l	3.2	8316	5.25	
Fe	56	72	He	64.55310	ug/l	3.4	145521	12.47	
Co	59	72	He	0.04394	ug/l	18.7	258		<5x MRL
Ni	60	72	He	0.26607	ug/l	11.2	478		<5x MRL
Cu	63	72	He	0.66895	ug/l	3.0	3050	7.66	
Cu	65	72	He	0.65058	ug/l	1.3	1500	1.87	
Zn	66	72	He	0.87318	ug/l	18.0	517		<5x MRL
As	75	72	He	1.00933	ug/l	5.7	317		<5x MRL
Mo	95	115	He	0.67740	ug/l	3.6	1753	1.2	
Mo	98	115	He	0.66537	ug/l	6.2	3030	0.31	
Ag	107	115	He	0.00024	ug/l	357.8	10		<5x MRL
Ag	109	115	He	0.00051	ug/l	99.6	20		<5x MRL
Cd	111	115	He	0.00478	ug/l	21.0	6		<5x MRL
Sb	121	115	He	0.09069	ug/l	6.3	259		<5x MRL
Sb	123	115	He	0.07615	ug/l	29.7	188		<5x MRL
Ba	138	115	He	20.42785	ug/l	1.5	125281	1.54	
Tl	203	175	He	0.00684	ug/l	56.3	93		<5x MRL
Tl	205	175	He	0.00640	ug/l	21.1	188		<5x MRL
[Pb]	206	175	He	0.05059	ug/l	11.6	404		<5x MRL
[Pb]	207	175	He	0.04099	ug/l	16.8	317		<5x MRL
Pb	208	175	He	0.04707	ug/l	6.4	1539		<5x MRL
U	238	232	He	0.54241	ug/l	2.7	15837	0.55	

QC ISTD Table

Duplicate Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	472523	1.0	473640.17	99.76	
Ge	72	H2	375729	2.0	353084.2	106.41	
Sc	45	He	67679	2.3	62803.57	107.76	
Ge	72	He	65344	2.2	62517.89	104.52	
In	115	He	724368	0.7	639651.89	113.24	
Lu	175	He	2028092	0.4	1767103.88	114.77	
Th	232	He	3319933	1.0	2900257.25	114.47	

Continuing Calibration Verification (CCV) Report

Sample Name CCV

File Name 060_CCV.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:09:56 PM

Sample Type CCV

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	25.05853	ug/l	0.8	82590	100.23	
Al	27	6	No Gas	258.03799	ug/l	0.4	4031945	103.22	
Ca	43	6	No Gas	2080.91154	ug/l	0.6	83816	104.05	
Se	77	72	H2	26.32395	ug/l	7.0	3677	105.3	
Se	78	72	H2	25.63023	ug/l	1.1	11269	102.52	
Mg	24	45	He	1954.79895	ug/l	0.2	297367	97.74	
V	51	72	He	24.48066	ug/l	0.7	52867	97.92	
Cr	52	72	He	24.67023	ug/l	0.9	71628	98.68	
Cr	53	72	He	24.61888	ug/l	4.1	9163	98.48	
Mn	55	72	He	25.68919	ug/l	0.5	31538	102.76	
Fe	56	72	He	245.56172	ug/l	0.8	569352	98.22	
Co	59	72	He	24.70253	ug/l	1.3	141721	98.81	
Ni	60	72	He	24.39821	ug/l	0.9	39122	97.59	
Cu	63	72	He	24.81851	ug/l	2.7	115496	99.27	
Cu	65	72	He	24.98441	ug/l	1.9	58371	99.94	
Zn	66	72	He	25.17471	ug/l	2.2	14191	100.7	
As	75	72	He	24.70164	ug/l	1.3	7872	98.81	
Mo	95	115	He	11.80121	ug/l	0.3	31333	94.41	
Mo	98	115	He	11.63153	ug/l	1.4	54275	93.05	
Ag	107	115	He	11.92962	ug/l	0.3	123000	95.44	
Ag	109	115	He	12.31791	ug/l	0.8	122309	98.54	
Cd	111	115	He	24.75282	ug/l	0.6	28628	99.01	
Sb	121	115	He	12.41603	ug/l	0.2	30109	99.33	
Sb	123	115	He	12.14082	ug/l	1.3	24208	97.13	
Ba	138	115	He	22.92050	ug/l	0.6	144371	91.68	
Tl	203	175	He	26.11821	ug/l	0.8	230995	104.47	
Tl	205	175	He	26.53349	ug/l	1.5	564239	106.13	
Pb	208	175	He	25.89956	ug/l	1.0	719374	103.6	
U	238	232	He	25.96013	ug/l	0.4	766878	103.84	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	476982	1.8	473640.17	100.71	
Ge	72	H2	380490	0.8	353084.2	107.76	
Sc	45	He	67331	0.3	62803.57	107.21	
Ge	72	He	67350	1.2	62517.89	107.73	
In	115	He	743981	0.5	639651.89	116.31	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2016680	0.9	1767103.88	114.12	
Th	232	He	3362067	1.2	2900257.25	115.92	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB
File Name	061_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 2:12:17 PM
Sample Type	CCB
Comment	---
ISTD Ref FileName	003CALB.d
Operator	ALKLS NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00419	ug/l	49.3	33	
Al	27	6	No Gas	0.03684	ug/l	14.5	1878	
Ca	43	6	No Gas	1.02674	ug/l	49.4	130	
Se	77	72	H2	-0.14752	ug/l	N/A	103	
Se	78	72	H2	0.00210	ug/l	260.5	5	
Mg	24	45	He	0.07034	ug/l	441.6	93	
V	51	72	He	0.00197	ug/l	176.9	13	
Cr	52	72	He	0.00106	ug/l	1064.5	72	
Cr	53	72	He	-0.00220	ug/l	N/A	10	
Mn	55	72	He	0.00900	ug/l	325.0	40	
Fe	56	72	He	-0.01308	ug/l	N/A	490	
Co	59	72	He	-0.00018	ug/l	N/A	12	
Ni	60	72	He	-0.00526	ug/l	N/A	58	
Cu	63	72	He	-0.00126	ug/l	N/A	27	
Cu	65	72	He	-0.00304	ug/l	N/A	20	
Zn	66	72	He	-0.03537	ug/l	N/A	23	
As	75	72	He	-0.00948	ug/l	N/A	2	
Mo	95	115	He	0.00401	ug/l	31.2	13	
Mo	98	115	He	0.00302	ug/l	61.7	23	
Ag	107	115	He	0.00198	ug/l	70.7	28	
Ag	109	115	He	0.00127	ug/l	82.5	28	
Cd	111	115	He	0.00174	ug/l	43.1	3	
Sb	121	115	He	0.00710	ug/l	143.4	64	
Sb	123	115	He	0.00941	ug/l	62.5	61	
Ba	138	115	He	0.00349	ug/l	69.3	53	
Tl	203	175	He	0.00040	ug/l	525.7	37	
Tl	205	175	He	0.00166	ug/l	58.7	88	
Pb	208	175	He	-0.00025	ug/l	N/A	221	
U	238	232	He	0.00108	ug/l	36.1	43	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	483290	0.7	473640.17	102.04	
Ge	72	H2	385456	1.7	353084.2	109.17	
Sc	45	He	67759	1.9	62803.57	107.89	
Ge	72	He	67829	0.5	62517.89	108.49	
In	115	He	749432	0.4	639651.89	117.16	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2062621	1.0	1767103.88	116.72	
Th	232	He	3330656	1.3	2900257.25	114.84	

Matrix Spike Sample (MS) Report

Sample Name KQ2317265-06 QM 10/13/23

File Name 062_SPK.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:14:40 PM

Sample Type Spike

Comment —

ISTD Ref FileName 003CALB.d

QC Ref File Name 058_
ARF.

Default Text ALKLS
NoUser

QC Analyte Table

Name	Mass	Tune	Conc.	Units	Conc. RSD	CPS	Spk Amt	% Rec	Flag
Be	9	No Gas	2.39001	ug/l	0.3	7823	2.5	95.62	
Al	27	No Gas	146.25299	ug/l	1.5	2265177	100	100.35	
Ca	43	No Gas	15194.25417	ug/l	0.9	605938	250	-229.87	Spike Failed
Se	77	H2	48.99870	ug/l	6.8	6658	50	97.56	
Se	78	H2	48.49757	ug/l	1.8	21068	50	96.76	
Mg	24	He	4402.86662	ug/l	0.4	667225	250	15.51	Spike Failed
V	51	He	25.39919	ug/l	2.7	54040	25	93.98	
Cr	52	He	9.39645	ug/l	2.1	26925	10	92.1	
Cr	53	He	9.11318	ug/l	8.3	3350	10	89.99	
Mn	55	He	30.21613	ug/l	1.2	36554	25	94.44	
Fe	56	He	107.12110	ug/l	1.8	245042	50	100.29	
Co	59	He	23.15628	ug/l	2.2	130909	25	92.46	
Ni	60	He	23.10810	ug/l	2.0	36518	25	91.25	
Cu	63	He	12.22535	ug/l	3.0	56080	12.5	92.85	
Cu	65	He	12.19140	ug/l	2.3	28085	12.5	92.23	
Zn	66	He	24.01439	ug/l	1.6	13343	25	92.45	
As	75	He	46.71133	ug/l	2.0	14664	50	91.44	
Mo	95	He	22.61118	ug/l	1.2	58925	25	87.7	
Mo	98	He	22.53785	ug/l	0.5	103209	25	87.5	
Ag	107	He	11.20148	ug/l	0.8	113362	12.5	89.6	
Ag	109	He	11.39778	ug/l	1.0	111081	12.5	91.19	
Cd	111	He	23.30802	ug/l	0.3	26459	25	93.2	
Sb	121	He	9.25098	ug/l	1.1	22031	10	91.53	
Sb	123	He	8.93915	ug/l	1.0	17506	10	88.6	
Ba	138	He	106.12153	ug/l	0.4	655969	100	86.01	
Tl	203	He	48.52108	ug/l	2.4	432012	50	97.03	
Tl	205	He	49.25717	ug/l	1.9	1054650	50	98.5	
[Pb]	206	He	49.53410	ug/l	2.0	336417	50	98.98	
[Pb]	207	He	45.69014	ug/l	2.0	285063	50	91.3	
Pb	208	He	47.78962	ug/l	2.1	1336234	50	95.49	
U	238	He	24.57566	ug/l	1.0	716241	25	96.14	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	472667	0.6	473640.17	99.79	
Ge	72	H2	376033	1.2	353084.2	106.5	

Matrix Spike Sample (MS) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Sc	45	He	67086	0.9	62803.57	106.82	
Ge	72	He	66382	2.1	62517.89	106.18	
In	115	He	730238	0.3	639651.89	114.16	
Lu	175	He	2030920	2.1	1767103.88	114.93	
Th	232	He	3317060	1.0	2900257.25	114.37	

Sample Report

Sample Name K2311042-008

File Name 063SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:17:01 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00046	ug/l	174.0	20	
Al	27	6	No Gas	45.24562	ug/l	1.9	696772	
Ca	43	6	No Gas	15794.54599	ug/l	0.8	625500	
Se	77	72	H2	0.12887	ug/l	150.2	137	
Se	78	72	H2	0.14017	ug/l	9.7	65	
Mg	24	45	He	4357.24611	ug/l	1.1	653626	
V	51	72	He	1.84030	ug/l	6.4	3939	
Cr	52	72	He	0.22912	ug/l	8.8	725	
Cr	53	72	He	0.20494	ug/l	50.8	87	
Mn	55	72	He	6.83008	ug/l	1.3	8323	
Fe	56	72	He	56.07681	ug/l	2.2	129085	
Co	59	72	He	0.04131	ug/l	4.6	248	
Ni	60	72	He	0.25924	ug/l	7.6	476	
Cu	63	72	He	0.65201	ug/l	3.8	3037	
Cu	65	72	He	0.64427	ug/l	7.6	1515	
Zn	66	72	He	0.91913	ug/l	8.7	553	
As	75	72	He	0.91656	ug/l	1.8	294	
Mo	95	115	He	0.69779	ug/l	3.8	1809	
Mo	98	115	He	0.65472	ug/l	2.2	2987	
Ag	107	115	He	0.00289	ug/l	25.9	37	
Ag	109	115	He	0.00119	ug/l	66.5	27	
Cd	111	115	He	0.00832	ug/l	37.1	10	
Sb	121	115	He	0.09235	ug/l	20.7	263	
Sb	123	115	He	0.09242	ug/l	9.7	220	
Ba	138	115	He	20.00927	ug/l	0.5	122896	
Tl	203	175	He	0.01845	ug/l	18.7	195	
Tl	205	175	He	0.01865	ug/l	4.8	447	
Pb	208	175	He	0.07664	ug/l	2.3	2345	
U	238	232	He	0.54923	ug/l	3.1	15930	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	469358	0.9	473640.17	99.1	
Ge	72	H2	373020	0.9	353084.2	105.65	
Sc	45	He	66409	0.9	62803.57	105.74	
Ge	72	He	66670	2.3	62517.89	106.64	
In	115	He	725448	0.3	639651.89	113.41	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2010598	0.5	1767103.88	113.78	
Th	232	He	3298951	0.6	2900257.25	113.75	

Sample Report

Sample Name K2311042-009

File Name 064SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:19:23 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00232	ug/l	42.1	26	
Al	27	6	No Gas	46.94310	ug/l	3.0	722144	
Ca	43	6	No Gas	15632.43486	ug/l	1.9	618571	
Se	77	72	H2	0.25358	ug/l	64.3	153	
Se	78	72	H2	0.13303	ug/l	10.3	62	
Mg	24	45	He	4359.97764	ug/l	1.5	656553	
V	51	72	He	1.99536	ug/l	3.3	4212	
Cr	52	72	He	0.21384	ug/l	3.9	672	
Cr	53	72	He	0.20996	ug/l	7.4	87	
Mn	55	72	He	6.96774	ug/l	3.5	8366	
Fe	56	72	He	59.67992	ug/l	1.6	135366	
Co	59	72	He	0.04177	ug/l	12.1	247	
Ni	60	72	He	0.29446	ug/l	12.6	524	
Cu	63	72	He	0.62829	ug/l	1.2	2884	
Cu	65	72	He	0.64530	ug/l	9.0	1497	
Zn	66	72	He	0.84831	ug/l	28.2	507	
As	75	72	He	0.96841	ug/l	6.0	305	
Mo	95	115	He	0.68990	ug/l	5.0	1802	
Mo	98	115	He	0.65970	ug/l	5.6	3034	
Ag	107	115	He	0.00056	ug/l	101.3	13	
Ag	109	115	He	0.00049	ug/l	181.9	20	
Cd	111	115	He	0.00766	ug/l	21.4	10	
Sb	121	115	He	0.09353	ug/l	4.9	268	
Sb	123	115	He	0.08132	ug/l	23.5	200	
Ba	138	115	He	20.24512	ug/l	0.7	125321	
Tl	203	175	He	0.00668	ug/l	34.4	92	
Tl	205	175	He	0.01064	ug/l	5.1	278	
Pb	208	175	He	0.04576	ug/l	6.2	1498	
U	238	232	He	0.53459	ug/l	5.2	15587	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	469039	1.0	473640.17	99.03	
Ge	72	H2	373429	1.3	353084.2	105.76	
Sc	45	He	66674	1.9	62803.57	106.16	
Ge	72	He	65702	0.9	62517.89	105.09	
In	115	He	731151	0.3	639651.89	114.3	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2021707	0.3	1767103.88	114.41	
Th	232	He	3315115	0.6	2900257.25	114.3	

Sample Report

Sample Name K2311042-010

File Name 065SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:21:46 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00023	ug/l	N/A	17	
Al	27	6	No Gas	53.36249	ug/l	2.6	817149	
Ca	43	6	No Gas	15435.79479	ug/l	1.1	608060	
Se	77	72	H2	-0.04420	ug/l	N/A	113	
Se	78	72	H2	0.13407	ug/l	27.5	62	
Mg	24	45	He	4442.42450	ug/l	1.5	651574	
V	51	72	He	1.93072	ug/l	3.4	4134	
Cr	52	72	He	0.18176	ug/l	9.4	590	
Cr	53	72	He	0.21526	ug/l	24.4	90	
Mn	55	72	He	7.47016	ug/l	6.5	9093	
Fe	56	72	He	63.41316	ug/l	2.8	145892	
Co	59	72	He	0.04256	ug/l	10.9	254	
Ni	60	72	He	0.31714	ug/l	4.9	568	
Cu	63	72	He	0.62292	ug/l	5.3	2900	
Cu	65	72	He	0.63710	ug/l	8.2	1498	
Zn	66	72	He	0.78476	ug/l	18.0	480	
As	75	72	He	0.93517	ug/l	4.5	299	
Mo	95	115	He	0.70246	ug/l	1.7	1813	
Mo	98	115	He	0.66631	ug/l	4.9	3027	
Ag	107	115	He	0.00174	ug/l	28.6	25	
Ag	109	115	He	0.00069	ug/l	44.8	22	
Cd	111	115	He	0.00569	ug/l	39.3	7	
Sb	121	115	He	0.09455	ug/l	4.5	268	
Sb	123	115	He	0.07782	ug/l	9.5	191	
Ba	138	115	He	20.40620	ug/l	1.6	124813	
Tl	203	175	He	0.00819	ug/l	22.9	105	
Tl	205	175	He	0.00887	ug/l	9.4	240	
Pb	208	175	He	0.05190	ug/l	6.0	1664	
U	238	232	He	0.54481	ug/l	3.6	15954	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	466924	1.1	473640.17	98.58	
Ge	72	H2	371408	1.4	353084.2	105.19	
Sc	45	He	64936	1.3	62803.57	103.4	
Ge	72	He	66673	1.8	62517.89	106.65	
In	115	He	722446	0.3	639651.89	112.94	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2016837	1.5	1767103.88	114.13	
Th	232	He	3331323	1.8	2900257.25	114.86	

Sample Report

Sample Name K2311042-001

File Name 066SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:24:08 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00192	ug/l	N/A	12	
Al	27	6	No Gas	3.05307	ug/l	2.5	48327	
Ca	43	6	No Gas	15347.23093	ug/l	0.7	609547	
Se	77	72	H2	-0.00973	ug/l	N/A	117	
Se	78	72	H2	0.12400	ug/l	21.9	57	
Mg	24	45	He	4209.93350	ug/l	1.1	633478	
V	51	72	He	1.84751	ug/l	2.9	3882	
Cr	52	72	He	0.15034	ug/l	16.1	490	
Cr	53	72	He	0.13691	ug/l	79.8	60	
Mn	55	72	He	0.58084	ug/l	21.4	720	
Fe	56	72	He	5.23871	ug/l	2.2	12289	
Co	59	72	He	0.01187	ug/l	3.5	79	
Ni	60	72	He	0.21167	ug/l	12.8	393	
Cu	63	72	He	0.55866	ug/l	12.1	2554	
Cu	65	72	He	0.56527	ug/l	3.3	1308	
Zn	66	72	He	0.49122	ug/l	38.5	310	
As	75	72	He	1.01894	ug/l	3.3	320	
Mo	95	115	He	0.66496	ug/l	2.1	1719	
Mo	98	115	He	0.65915	ug/l	5.6	2999	
Ag	107	115	He	0.00157	ug/l	48.0	23	
Ag	109	115	He	0.00034	ug/l	467.8	18	
Cd	111	115	He	0.00257	ug/l	27.0	4	
Sb	121	115	He	0.08449	ug/l	9.6	244	
Sb	123	115	He	0.08070	ug/l	7.2	197	
Ba	138	115	He	19.44010	ug/l	0.7	119067	
Tl	203	175	He	0.00551	ug/l	23.9	82	
Tl	205	175	He	0.00945	ug/l	30.7	255	
Pb	208	175	He	0.00799	ug/l	7.1	449	
U	238	232	He	0.49750	ug/l	2.4	14472	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	470732	0.2	473640.17	99.39	
Ge	72	H2	368733	1.2	353084.2	104.43	
Sc	45	He	66617	1.4	62803.57	106.07	
Ge	72	He	65401	1.3	62517.89	104.61	
In	115	He	723399	0.5	639651.89	113.09	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2034567	1.8	1767103.88	115.14	
Th	232	He	3307649	1.2	2900257.25	114.05	

Sample Report

Sample Name K2311042-002

File Name 067SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:26:31 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00175	ug/l	N/A	12	
Al	27	6	No Gas	9.51655	ug/l	1.5	145650	
Ca	43	6	No Gas	15571.73344	ug/l	0.4	608846	
Se	77	72	H2	0.24752	ug/l	170.1	153	
Se	78	72	H2	0.12207	ug/l	16.9	57	
Mg	24	45	He	4244.42107	ug/l	1.6	638558	
V	51	72	He	1.85943	ug/l	4.3	3957	
Cr	52	72	He	0.10320	ug/l	22.7	362	
Cr	53	72	He	0.08931	ug/l	106.8	43	
Mn	55	72	He	0.47380	ug/l	21.2	600	
Fe	56	72	He	5.09066	ug/l	0.4	12109	
Co	59	72	He	0.01699	ug/l	17.5	109	
Ni	60	72	He	0.18399	ug/l	14.0	354	
Cu	63	72	He	0.52412	ug/l	8.5	2430	
Cu	65	72	He	0.48911	ug/l	4.2	1150	
Zn	66	72	He	0.38765	ug/l	6.8	257	
As	75	72	He	0.99619	ug/l	3.0	317	
Mo	95	115	He	0.66301	ug/l	4.5	1723	
Mo	98	115	He	0.65602	ug/l	1.0	3001	
Ag	107	115	He	0.00024	ug/l	4.2	10	
Ag	109	115	He	-0.00087	ug/l	N/A	7	
Cd	111	115	He	0.00416	ug/l	43.1	6	
Sb	121	115	He	0.10071	ug/l	12.1	284	
Sb	123	115	He	0.08015	ug/l	7.3	197	
Ba	138	115	He	19.56212	ug/l	0.4	120492	
Tl	203	175	He	0.00467	ug/l	19.7	73	
Tl	205	175	He	0.00702	ug/l	27.9	200	
Pb	208	175	He	0.01111	ug/l	27.8	531	
U	238	232	He	0.49681	ug/l	1.5	14365	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	463408	0.8	473640.17	97.84	
Ge	72	H2	375918	1.4	353084.2	106.47	
Sc	45	He	66611	1.7	62803.57	106.06	
Ge	72	He	66248	0.5	62517.89	105.97	
In	115	He	727518	1.0	639651.89	113.74	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2008017	2.5	1767103.88	113.63	
Th	232	He	3288579	1.4	2900257.25	113.39	

Sample Report

Sample Name K2311042-003

File Name 068SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:28:53 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00207	ug/l	N/A	11	
Al	27	6	No Gas	2.88643	ug/l	0.7	45118	
Ca	43	6	No Gas	15652.98819	ug/l	1.6	613018	
Se	77	72	H2	0.22442	ug/l	94.1	150	
Se	78	72	H2	0.11795	ug/l	5.0	55	
Mg	24	45	He	4349.98931	ug/l	0.6	640990	
V	51	72	He	1.74036	ug/l	4.0	3739	
Cr	52	72	He	0.12986	ug/l	8.3	442	
Cr	53	72	He	0.11556	ug/l	48.6	53	
Mn	55	72	He	0.57378	ug/l	11.6	727	
Fe	56	72	He	4.82260	ug/l	2.9	11605	
Co	59	72	He	0.01254	ug/l	12.2	84	
Ni	60	72	He	0.16462	ug/l	13.7	327	
Cu	63	72	He	0.51576	ug/l	5.0	2414	
Cu	65	72	He	0.50986	ug/l	4.6	1208	
Zn	66	72	He	0.51997	ug/l	23.8	333	
As	75	72	He	0.93201	ug/l	1.6	299	
Mo	95	115	He	0.69661	ug/l	5.4	1815	
Mo	98	115	He	0.65251	ug/l	1.0	2993	
Ag	107	115	He	0.00040	ug/l	141.6	12	
Ag	109	115	He	-0.00053	ug/l	N/A	10	
Cd	111	115	He	0.00210	ug/l	59.3	3	
Sb	121	115	He	0.08541	ug/l	4.0	248	
Sb	123	115	He	0.08454	ug/l	6.6	206	
Ba	138	115	He	19.63419	ug/l	2.1	121201	
Tl	203	175	He	0.00436	ug/l	62.5	72	
Tl	205	175	He	0.00637	ug/l	14.7	188	
Pb	208	175	He	0.00479	ug/l	41.9	359	
U	238	232	He	0.50257	ug/l	4.1	14662	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	464188	1.1	473640.17	98	
Ge	72	H2	375052	1.9	353084.2	106.22	
Sc	45	He	65231	0.4	62803.57	103.87	
Ge	72	He	66855	1.2	62517.89	106.94	
In	115	He	729224	1.2	639651.89	114	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2031672	1.3	1767103.88	114.97	
Th	232	He	3318191	0.6	2900257.25	114.41	

Sample Report

Sample Name K2311042-004

File Name 069SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:31:15 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00225	ug/l	N/A	11	
Al	27	6	No Gas	4.42346	ug/l	3.2	68232	
Ca	43	6	No Gas	15695.50475	ug/l	0.9	612589	
Se	77	72	H2	0.39086	ug/l	86.5	170	
Se	78	72	H2	0.11986	ug/l	26.3	55	
Mg	24	45	He	4401.83303	ug/l	1.5	645206	
V	51	72	He	1.74421	ug/l	1.2	3737	
Cr	52	72	He	0.16055	ug/l	4.6	528	
Cr	53	72	He	0.16959	ug/l	59.5	73	
Mn	55	72	He	0.59464	ug/l	14.3	750	
Fe	56	72	He	6.56062	ug/l	4.2	15559	
Co	59	72	He	0.01299	ug/l	25.1	87	
Ni	60	72	He	0.22876	ug/l	9.2	428	
Cu	63	72	He	0.55650	ug/l	6.9	2594	
Cu	65	72	He	0.55859	ug/l	2.7	1318	
Zn	66	72	He	1.01344	ug/l	12.6	607	
As	75	72	He	0.93151	ug/l	1.5	298	
Mo	95	115	He	0.69193	ug/l	5.5	1796	
Mo	98	115	He	0.69946	ug/l	2.1	3196	
Ag	107	115	He	0.00024	ug/l	206.8	10	
Ag	109	115	He	0.00067	ug/l	176.2	22	
Cd	111	115	He	0.00788	ug/l	18.3	10	
Sb	121	115	He	0.10195	ug/l	11.1	287	
Sb	123	115	He	0.10027	ug/l	19.6	236	
Ba	138	115	He	19.49401	ug/l	1.6	119901	
Tl	203	175	He	0.00563	ug/l	27.2	82	
Tl	205	175	He	0.00657	ug/l	14.5	190	
Pb	208	175	He	0.02969	ug/l	10.9	1042	
U	238	232	He	0.50633	ug/l	2.7	14926	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	462626	1.6	473640.17	97.67	
Ge	72	H2	369199	1.5	353084.2	104.56	
Sc	45	He	64889	0.8	62803.57	103.32	
Ge	72	He	66667	2.1	62517.89	106.64	
In	115	He	726536	1.1	639651.89	113.58	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2008174	1.9	1767103.88	113.64	
Th	232	He	3351468	1.6	2900257.25	115.56	

Sample Report

Sample Name K2311042-005

File Name 070SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:33:37 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00289	ug/l	N/A	9	
Al	27	6	No Gas	2.69729	ug/l	1.4	42056	
Ca	43	6	No Gas	15709.76975	ug/l	1.9	612504	
Se	77	72	H2	0.05204	ug/l	375.8	127	
Se	78	72	H2	0.11989	ug/l	11.7	56	
Mg	24	45	He	4342.52137	ug/l	1.2	642758	
V	51	72	He	1.78690	ug/l	1.6	3799	
Cr	52	72	He	0.17708	ug/l	1.1	572	
Cr	53	72	He	0.06213	ug/l	91.8	33	
Mn	55	72	He	0.59025	ug/l	11.2	740	
Fe	56	72	He	4.67234	ug/l	4.3	11138	
Co	59	72	He	0.01171	ug/l	11.4	79	
Ni	60	72	He	0.20111	ug/l	8.3	381	
Cu	63	72	He	0.51201	ug/l	8.2	2370	
Cu	65	72	He	0.52695	ug/l	7.4	1235	
Zn	66	72	He	0.46153	ug/l	29.5	297	
As	75	72	He	0.92953	ug/l	3.2	295	
Mo	95	115	He	0.65390	ug/l	1.8	1695	
Mo	98	115	He	0.66652	ug/l	4.3	3039	
Ag	107	115	He	0.00041	ug/l	68.4	12	
Ag	109	115	He	0.00016	ug/l	371.3	17	
Cd	111	115	He	0.00299	ug/l	75.0	4	
Sb	121	115	He	0.09169	ug/l	5.5	262	
Sb	123	115	He	0.07827	ug/l	21.7	193	
Ba	138	115	He	19.90411	ug/l	0.7	122204	
Tl	203	175	He	0.00561	ug/l	37.8	82	
Tl	205	175	He	0.00602	ug/l	16.4	178	
Pb	208	175	He	0.00128	ug/l	44.5	258	
U	238	232	He	0.52378	ug/l	1.2	15216	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	462120	0.4	473640.17	97.57	
Ge	72	H2	373665	0.9	353084.2	105.83	
Sc	45	He	65529	1.3	62803.57	104.34	
Ge	72	He	66164	1.9	62517.89	105.83	
In	115	He	725186	1.3	639651.89	113.37	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2008253	1.6	1767103.88	113.65	
Th	232	He	3304086	1.3	2900257.25	113.92	

Sample Report

Sample Name K2311042-006

File Name 071SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:35:58 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00237	ug/l	N/A	10	
Al	27	6	No Gas	3.35289	ug/l	0.4	52001	
Ca	43	6	No Gas	15876.21480	ug/l	0.5	619290	
Se	77	72	H2	-0.09540	ug/l	N/A	107	
Se	78	72	H2	0.09954	ug/l	15.2	47	
Mg	24	45	He	4310.86769	ug/l	0.7	655655	
V	51	72	He	1.76972	ug/l	1.3	3762	
Cr	52	72	He	0.31213	ug/l	3.2	957	
Cr	53	72	He	0.25127	ug/l	63.2	103	
Mn	55	72	He	0.48236	ug/l	5.0	610	
Fe	56	72	He	5.85291	ug/l	5.0	13820	
Co	59	72	He	0.01053	ug/l	13.5	72	
Ni	60	72	He	0.21441	ug/l	5.9	402	
Cu	63	72	He	0.54958	ug/l	2.7	2544	
Cu	65	72	He	0.57321	ug/l	10.7	1340	
Zn	66	72	He	0.61303	ug/l	15.8	380	
As	75	72	He	1.00150	ug/l	3.5	318	
Mo	95	115	He	0.67375	ug/l	6.8	1749	
Mo	98	115	He	0.66261	ug/l	4.3	3027	
Ag	107	115	He	0.00057	ug/l	132.3	13	
Ag	109	115	He	-0.00053	ug/l	N/A	10	
Cd	111	115	He	0.00388	ug/l	6.6	5	
Sb	121	115	He	0.07526	ug/l	11.3	223	
Sb	123	115	He	0.07980	ug/l	10.0	196	
Ba	138	115	He	19.92711	ug/l	1.5	122584	
Tl	203	175	He	0.00823	ug/l	25.7	107	
Tl	205	175	He	0.00709	ug/l	10.7	205	
Pb	208	175	He	0.04824	ug/l	6.9	1586	
U	238	232	He	0.51660	ug/l	1.4	15016	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	462326	0.4	473640.17	97.61	
Ge	72	H2	372343	1.1	353084.2	105.45	
Sc	45	He	67331	0.7	62803.57	107.21	
Ge	72	He	66171	2.5	62517.89	105.84	
In	115	He	726530	0.7	639651.89	113.58	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2045340	0.9	1767103.88	115.75	
Th	232	He	3305421	0.4	2900257.25	113.97	

Continuing Calibration Verification (CCV) Report

Sample Name CCV

File Name 072_CCV.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:38:21 PM

Sample Type CCV

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	24.58408	ug/l	0.6	80759	98.34	
Al	27	6	No Gas	257.39117	ug/l	2.0	4008154	102.96	
Ca	43	6	No Gas	2060.40330	ug/l	0.7	82727	103.02	
Se	77	72	H2	25.15340	ug/l	6.8	3497	100.61	
Se	78	72	H2	25.60601	ug/l	0.4	11195	102.42	
Mg	24	45	He	1958.66037	ug/l	3.5	296511	97.93	
V	51	72	He	23.97929	ug/l	2.2	51977	95.92	
Cr	52	72	He	24.33111	ug/l	0.9	70919	97.32	
Cr	53	72	He	23.74569	ug/l	2.7	8876	94.98	
Mn	55	72	He	24.73435	ug/l	2.4	30483	98.94	
Fe	56	72	He	243.29555	ug/l	1.5	566299	97.32	
Co	59	72	He	24.36085	ug/l	1.3	140304	97.44	
Ni	60	72	He	24.15211	ug/l	1.9	38879	96.61	
Cu	63	72	He	24.32456	ug/l	1.3	113654	97.3	
Cu	65	72	He	24.26686	ug/l	0.4	56924	97.07	
Zn	66	72	He	25.51782	ug/l	0.4	14441	102.07	
As	75	72	He	24.63685	ug/l	1.0	7882	98.55	
Mo	95	115	He	11.87239	ug/l	1.2	30965	94.98	
Mo	98	115	He	11.88619	ug/l	2.0	54478	95.09	
Ag	107	115	He	12.12319	ug/l	0.4	122796	96.99	
Ag	109	115	He	12.45599	ug/l	0.5	121503	99.65	
Cd	111	115	He	25.10177	ug/l	1.0	28519	100.41	
Sb	121	115	He	12.63879	ug/l	1.2	30106	101.11	
Sb	123	115	He	12.34753	ug/l	1.1	24185	98.78	
Ba	138	115	He	23.25345	ug/l	0.7	143884	93.01	
Tl	203	175	He	25.77701	ug/l	1.0	230913	103.11	
Tl	205	175	He	25.99513	ug/l	0.6	559888	103.98	
Pb	208	175	He	25.64694	ug/l	0.2	721474	102.59	
U	238	232	He	26.37192	ug/l	1.7	767123	105.49	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	475402	1.5	473640.17	100.37	
Ge	72	H2	378333	1.7	353084.2	107.15	
Sc	45	He	67056	3.3	62803.57	106.77	
Ge	72	He	67611	0.8	62517.89	108.15	
In	115	He	730896	1.2	639651.89	114.26	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2042377	1.3	1767103.88	115.58	
Th	232	He	3311291	2.2	2900257.25	114.17	

Continuing Calibration Blank (CCB) Report

Sample Name CCB

File Name 073_CCB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:40:44 PM

Sample Type CCB

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00254	ug/l	96.0	27	
Al	27	6	No Gas	0.03456	ug/l	12.2	1805	
Ca	43	6	No Gas	0.58516	ug/l	144.5	110	
Se	77	72	H2	0.29496	ug/l	155.3	160	
Se	78	72	H2	-0.00215	ug/l	N/A	3	
Mg	24	45	He	0.31212	ug/l	127.7	130	
V	51	72	He	0.00201	ug/l	174.2	13	
Cr	52	72	He	-0.00742	ug/l	N/A	47	
Cr	53	72	He	0.02482	ug/l	107.3	20	
Mn	55	72	He	-0.00718	ug/l	N/A	20	
Fe	56	72	He	0.02308	ug/l	103.6	570	
Co	59	72	He	0.00081	ug/l	152.0	18	
Ni	60	72	He	-0.01260	ug/l	N/A	46	
Cu	63	72	He	-0.00050	ug/l	N/A	30	
Cu	65	72	He	-0.00439	ug/l	N/A	17	
Zn	66	72	He	-0.01116	ug/l	N/A	37	
As	75	72	He	-0.00417	ug/l	N/A	3	
Mo	95	115	He	0.00153	ug/l	162.8	7	
Mo	98	115	He	0.00282	ug/l	63.9	22	
Ag	107	115	He	0.00345	ug/l	58.7	43	
Ag	109	115	He	-0.00072	ug/l	N/A	8	
Cd	111	115	He	0.00161	ug/l	86.2	3	
Sb	121	115	He	0.00790	ug/l	37.9	66	
Sb	123	115	He	0.00332	ug/l	91.7	48	
Ba	138	115	He	0.00037	ug/l	664.5	33	
Tl	203	175	He	0.00258	ug/l	98.9	55	
Tl	205	175	He	0.00206	ug/l	43.4	95	
Pb	208	175	He	0.00004	ug/l	2738.3	224	
U	238	232	He	0.00121	ug/l	59.7	47	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	473461	1.2	473640.17	99.96	
Ge	72	H2	376573	1.0	353084.2	106.65	
Sc	45	He	67642	1.9	62803.57	107.7	
Ge	72	He	67336	0.8	62517.89	107.71	
In	115	He	745364	0.6	639651.89	116.53	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2016186	1.2	1767103.88	114.1	
Th	232	He	3319334	0.7	2900257.25	114.45	

Sample Report

Sample Name K2311354-001

File Name 074SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:43:07 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00099	ug/l	N/A	16	
Al	27	6	No Gas	0.02228	ug/l	47.8	1675	
Ca	43	6	No Gas	0.08995	ug/l	824.2	93	
Se	77	72	H2	0.18401	ug/l	151.9	150	
Se	78	72	H2	-0.00539	ug/l	N/A	2	
Mg	24	45	He	-0.19460	ug/l	N/A	53	
V	51	72	He	-0.00338	ug/l	N/A	2	
Cr	52	72	He	-0.01727	ug/l	N/A	18	
Cr	53	72	He	-0.02893	ug/l	0.0	0	
Mn	55	72	He	-0.00463	ug/l	N/A	23	
Fe	56	72	He	-0.06230	ug/l	N/A	377	
Co	59	72	He	-0.00191	ug/l	N/A	2	
Ni	60	72	He	-0.01299	ug/l	N/A	46	
Cu	63	72	He	0.00931	ug/l	106.8	77	
Cu	65	72	He	-0.00519	ug/l	N/A	15	
Zn	66	72	He	-0.05896	ug/l	N/A	10	
As	75	72	He	-0.00224	ug/l	N/A	4	
Mo	95	115	He	-0.00014	ug/l	N/A	2	
Mo	98	115	He	-0.00123	ug/l	N/A	3	
Ag	107	115	He	0.00021	ug/l	228.2	10	
Ag	109	115	He	0.00027	ug/l	208.8	18	
Cd	111	115	He	0.00002	ug/l	12.8	1	
Sb	121	115	He	-0.00382	ug/l	N/A	38	
Sb	123	115	He	-0.01051	ug/l	N/A	21	
Ba	138	115	He	-0.00439	ug/l	N/A	3	
Tl	203	175	He	-0.00050	ug/l	N/A	28	
Tl	205	175	He	-0.00010	ug/l	N/A	50	
Pb	208	175	He	0.00500	ug/l	31.1	369	
U	238	232	He	0.00062	ug/l	108.6	30	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	491210	0.2	473640.17	103.71	
Ge	72	H2	387697	1.3	353084.2	109.8	
Sc	45	He	68696	1.1	62803.57	109.38	
Ge	72	He	68124	0.5	62517.89	108.97	
In	115	He	748007	0.3	639651.89	116.94	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2052297	1.5	1767103.88	116.14	
Th	232	He	3351073	0.4	2900257.25	115.54	

Sample Report

Sample Name K2311354-002

File Name 075SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:45:29 PM

Sample Type Sample

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00198	ug/l	N/A	12	
Al	27	6	No Gas	0.01095	ug/l	54.3	1495	
Ca	43	6	No Gas	-0.39882	ug/l	N/A	73	
Se	77	72	H2	0.18197	ug/l	76.0	150	
Se	78	72	H2	-0.00686	ug/l	N/A	1	
Mg	24	45	He	-0.21854	ug/l	N/A	50	
V	51	72	He	-0.00113	ug/l	N/A	7	
Cr	52	72	He	-0.01508	ug/l	N/A	25	
Cr	53	72	He	-0.02893	ug/l	0.0	0	
Mn	55	72	He	-0.00753	ug/l	N/A	20	
Fe	56	72	He	-0.05868	ug/l	N/A	390	
Co	59	72	He	-0.00116	ug/l	N/A	7	
Ni	60	72	He	-0.01737	ug/l	N/A	39	
Cu	63	72	He	-0.00203	ug/l	N/A	23	
Cu	65	72	He	-0.00248	ug/l	N/A	22	
Zn	66	72	He	-0.04751	ug/l	N/A	17	
As	75	72	He	-0.00650	ug/l	N/A	3	
Mo	95	115	He	-0.00097	ug/l	0.0	0	
Mo	98	115	He	-0.00147	ug/l	N/A	2	
Ag	107	115	He	0.00036	ug/l	73.3	12	
Ag	109	115	He	-0.00140	ug/l	N/A	2	
Cd	111	115	He	0.00002	ug/l	2297.1	1	
Sb	121	115	He	-0.00356	ug/l	N/A	38	
Sb	123	115	He	-0.01016	ug/l	N/A	22	
Ba	138	115	He	-0.00284	ug/l	N/A	13	
Tl	203	175	He	-0.00253	ug/l	N/A	10	
Tl	205	175	He	-0.00063	ug/l	N/A	38	
Pb	208	175	He	0.00159	ug/l	104.4	270	
U	238	232	He	-0.00005	ug/l	N/A	10	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	492110	0.6	473640.17	103.9	
Ge	72	H2	389534	1.2	353084.2	110.32	
Sc	45	He	69052	1.6	62803.57	109.95	
Ge	72	He	68961	1.0	62517.89	110.31	
In	115	He	752503	0.9	639651.89	117.64	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2035352	1.1	1767103.88	115.18	
Th	232	He	3300229	1.0	2900257.25	113.79	

Reference Sample Report

Sample Name	K2311042-007
File Name	076_ARF.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 2:47:52 PM
Sample Type	AllRef
Comment	D
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass
Operator	**ALKLS** **NoUser**

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00173	ug/l	N/A	13	
Al	27	6	No Gas	2.81509	ug/l	1.4	44789	
Ca	43	6	No Gas	15629.25641	ug/l	0.8	622643	
Se	77	72	H2	0.44601	ug/l	81.2	177	
Se	78	72	H2	0.13373	ug/l	10.8	61	
Mg	24	45	He	4410.91003	ug/l	2.2	652554	
V	51	72	He	1.79322	ug/l	3.9	3796	
Cr	52	72	He	0.17201	ug/l	3.6	555	
Cr	53	72	He	0.14621	ug/l	72.2	63	
Mn	55	72	He	0.74405	ug/l	8.2	920	
Fe	56	72	He	4.99326	ug/l	5.6	11815	
Co	59	72	He	0.01516	ug/l	32.3	98	
Ni	60	72	He	0.23353	ug/l	6.8	430	
Cu	63	72	He	0.53771	ug/l	8.0	2480	
Cu	65	72	He	0.51301	ug/l	1.8	1198	
Zn	66	72	He	0.43831	ug/l	10.2	283	
As	75	72	He	0.94718	ug/l	0.4	300	
Mo	95	115	He	0.68153	ug/l	4.0	1763	
Mo	98	115	He	0.67372	ug/l	1.8	3068	
Ag	107	115	He	0.00157	ug/l	79.5	23	
Ag	109	115	He	0.00034	ug/l	89.8	18	
Cd	111	115	He	0.00463	ug/l	44.8	6	
Sb	121	115	He	0.09109	ug/l	8.1	260	
Sb	123	115	He	0.08827	ug/l	28.1	212	
Ba	138	115	He	19.61223	ug/l	1.0	120246	
Tl	203	175	He	0.00712	ug/l	7.6	95	
Tl	205	175	He	0.00804	ug/l	13.9	222	
Pb	208	175	He	0.00652	ug/l	16.3	403	
U	238	232	He	0.51897	ug/l	2.0	14982	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	472151	0.7	473640.17	99.69	
Ge	72	H2	369717	1.7	353084.2	104.71	
Sc	45	He	65495	0.6	62803.57	104.29	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Ge	72	He	65883	1.9	62517.89	105.38	
In	115	He	724159	0.5	639651.89	113.21	
Lu	175	He	2010026	0.7	1767103.88	113.75	
Th	232	He	3283115	0.8	2900257.25	113.2	

Duplicate Sample Report

Sample Name	KQ2317265-03
File Name	077_Dup.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b
Acq Time	2023-10-13 2:50:14 PM
Sample Type	Dup
Total Dilution	1.0000
Comment	D
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD Ref FileName	Pass
QC Ref File Name	076_
Default Text	ARF ALRLS NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	RPD	Flag
Be	9	6	No Gas	-0.00127	ug/l	N/A	14		<5x MRL
Al	27	6	No Gas	2.88313	ug/l	1.9	45312		<5x MRL
Ca	43	6	No Gas	15671.27920	ug/l	1.5	617054	0.27	
Se	77	72	H2	0.23111	ug/l	211.8	150		<5x MRL
Se	78	72	H2	0.12537	ug/l	7.7	58		<5x MRL
Mg	24	45	He	4363.17777	ug/l	1.4	640031	1.09	
V	51	72	He	1.73004	ug/l	3.3	3622	3.59	
Cr	52	72	He	0.14529	ug/l	12.8	473		<5x MRL
Cr	53	72	He	0.11933	ug/l	26.8	53		<5x MRL
Mn	55	72	He	0.74318	ug/l	14.2	910		<5x MRL
Fe	56	72	He	5.05044	ug/l	3.1	11815		<5x MRL
Co	59	72	He	0.00973	ug/l	22.2	67		<5x MRL
Ni	60	72	He	0.30123	ug/l	16.9	530		<5x MRL
Cu	63	72	He	0.56425	ug/l	6.1	2570	4.82	
Cu	65	72	He	0.54990	ug/l	6.0	1268	6.94	
Zn	66	72	He	0.91091	ug/l	11.8	537		<5x MRL
As	75	72	He	0.94406	ug/l	3.9	295		<5x MRL
Mo	95	115	He	0.68121	ug/l	6.2	1750	0.05	
Mo	98	115	He	0.68588	ug/l	5.0	3100	1.79	
Ag	107	115	He	0.00092	ug/l	83.6	17		<5x MRL
Ag	109	115	He	0.00053	ug/l	173.2	20		<5x MRL
Cd	111	115	He	0.00364	ug/l	24.8	5		<5x MRL
Sb	121	115	He	0.09082	ug/l	5.8	258		<5x MRL
Sb	123	115	He	0.08917	ug/l	20.3	212		<5x MRL
Ba	138	115	He	19.71907	ug/l	2.3	120022	0.54	
Tl	203	175	He	0.00689	ug/l	45.3	93		<5x MRL
Tl	205	175	He	0.00749	ug/l	20.1	210		<5x MRL
[Pb]	206	175	He	0.00432	ug/l	27.6	90		<5x MRL
[Pb]	207	175	He	0.00329	ug/l	16.6	81		<5x MRL
Pb	208	175	He	0.00482	ug/l	14.1	357		<5x MRL
U	238	232	He	0.51868	ug/l	4.3	15143	0.06	

QC ISTD Table

Duplicate Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	466751	1.6	473640.17	98.55	
Ge	72	H2	371296	1.2	353084.2	105.16	
Sc	45	He	64939	0.8	62803.57	103.4	
Ge	72	He	65143	0.8	62517.89	104.2	
In	115	He	718948	0.5	639651.89	112.4	
Lu	175	He	2013695	0.8	1767103.88	113.95	
Th	232	He	3321132	1.1	2900257.25	114.51	

Matrix Spike Sample (MS) Report

Sample Name KQ2317265-04 GMN 10/13/23

File Name 078_SPK.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:52:37 PM

Sample Type Spike

Comment D

ISTD Ref FileName 003CALB.d

QC Ref File Name 076_
ARF.

Default Text ALKLS
NoUser

QC Analyte Table

Name	Mass	Tune	Conc.	Units	Conc. RSD	CPS	Spk Amt	% Rec	Flag
Be	9	No Gas	2.36911	ug/l	1.2	7668	2.5	94.83	
Al	27	No Gas	101.87471	ug/l	2.2	1560369	100	99.06	
Ca	43	No Gas	15258.09309	ug/l	1.7	601644	250	-148.47	Spike Failed
Se	77	H2	47.75592	ug/l	4.1	6338	50	94.62	
Se	78	H2	48.75044	ug/l	1.0	20668	50	97.23	
Mg	24	He	4400.96761	ug/l	2.1	652629	250	-3.98	Spike Failed
V	51	He	25.57096	ug/l	2.5	52941	25	95.11	
Cr	52	He	9.53805	ug/l	1.3	26598	10	93.66	
Cr	53	He	8.81947	ug/l	4.8	3154	10	86.73	
Mn	55	He	25.47576	ug/l	1.0	29995	25	98.93	
Fe	56	He	51.85204	ug/l	3.1	115654	50	93.72	
Co	59	He	23.51925	ug/l	2.3	129379	25	94.02	
Ni	60	He	23.51461	ug/l	2.8	36153	25	93.12	
Cu	63	He	12.37551	ug/l	1.7	55261	12.5	94.7	
Cu	65	He	12.45760	ug/l	2.2	27922	12.5	95.56	
Zn	66	He	24.30267	ug/l	1.8	13140	25	95.46	
As	75	He	47.85826	ug/l	1.8	14620	50	93.82	
Mo	95	He	22.89008	ug/l	0.2	58600	25	88.83	
Mo	98	He	22.64958	ug/l	1.3	101886	25	87.9	
Ag	107	He	11.43778	ug/l	2.0	113699	12.5	91.49	
Ag	109	He	11.69550	ug/l	1.1	111973	12.5	93.56	
Cd	111	He	23.64358	ug/l	0.8	26366	25	94.56	
Sb	121	He	9.19756	ug/l	1.2	21519	10	91.06	
Sb	123	He	8.83510	ug/l	0.9	16998	10	87.47	
Ba	138	He	106.41987	ug/l	1.8	646202	100	86.81	
Tl	203	He	49.29012	ug/l	2.1	433383	50	98.57	
Tl	205	He	49.68674	ug/l	2.4	1050446	50	99.36	
[Pb]	206	He	50.30343	ug/l	1.7	337377	50	100.6	
[Pb]	207	He	46.55111	ug/l	1.4	286821	50	93.09	
Pb	208	He	48.84769	ug/l	1.8	1348792	50	97.68	
U	238	He	25.13903	ug/l	1.9	731553	25	98.48	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	467389	1.0	473640.17	98.68	
Ge	72	H2	366956	1.0	353084.2	103.93	

Matrix Spike Sample (MS) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Sc	45	He	65663	1.9	62803.57	104.55	
Ge	72	He	64594	2.1	62517.89	103.32	
In	115	He	717380	1.0	639651.89	112.15	
Lu	175	He	2005459	1.9	1767103.88	113.49	
Th	232	He	3312389	1.3	2900257.25	114.21	

Sample Report

Sample Name K2311042-008

File Name 079SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:54:59 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00032	ug/l	N/A	17	
Al	27	6	No Gas	4.44787	ug/l	1.5	69141	
Ca	43	6	No Gas	15488.33777	ug/l	0.7	609136	
Se	77	72	H2	0.11712	ug/l	187.7	133	
Se	78	72	H2	0.13595	ug/l	11.2	62	
Mg	24	45	He	4400.11910	ug/l	3.2	654445	
V	51	72	He	1.79637	ug/l	5.2	3751	
Cr	52	72	He	0.09754	ug/l	32.3	338	
Cr	53	72	He	0.05435	ug/l	86.8	30	
Mn	55	72	He	0.65852	ug/l	8.0	807	
Fe	56	72	He	5.04168	ug/l	0.8	11772	
Co	59	72	He	0.01279	ug/l	22.9	83	
Ni	60	72	He	0.23031	ug/l	12.7	419	
Cu	63	72	He	0.54176	ug/l	8.5	2467	
Cu	65	72	He	0.57765	ug/l	4.0	1328	
Zn	66	72	He	0.53694	ug/l	13.9	333	
As	75	72	He	0.95722	ug/l	11.0	299	
Mo	95	115	He	0.66122	ug/l	0.7	1698	
Mo	98	115	He	0.69256	ug/l	3.6	3129	
Ag	107	115	He	0.00259	ug/l	22.2	33	
Ag	109	115	He	0.00174	ug/l	124.6	32	
Cd	111	115	He	0.00528	ug/l	34.3	7	
Sb	121	115	He	0.09195	ug/l	15.9	260	
Sb	123	115	He	0.08702	ug/l	25.0	208	
Ba	138	115	He	19.80919	ug/l	1.1	120509	
Tl	203	175	He	0.01975	ug/l	6.2	207	
Tl	205	175	He	0.01520	ug/l	19.8	373	
Pb	208	175	He	0.01143	ug/l	6.9	540	
U	238	232	He	0.48135	ug/l	1.6	14148	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	466127	0.5	473640.17	98.41	
Ge	72	H2	367836	1.3	353084.2	104.18	
Sc	45	He	65877	2.8	62803.57	104.89	
Ge	72	He	65009	1.8	62517.89	103.98	
In	115	He	718530	0.2	639651.89	112.33	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2012887	1.0	1767103.88	113.91	
Th	232	He	3342431	0.1	2900257.25	115.25	

Sample Report

Sample Name K2311042-009

File Name 080SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:57:20 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00113	ug/l	N/A	14	
Al	27	6	No Gas	2.71406	ug/l	2.7	42452	
Ca	43	6	No Gas	15623.44954	ug/l	0.5	611216	
Se	77	72	H2	0.16732	ug/l	308.8	140	
Se	78	72	H2	0.13310	ug/l	18.0	61	
Mg	24	45	He	4319.94353	ug/l	1.9	642552	
V	51	72	He	1.73622	ug/l	1.2	3689	
Cr	52	72	He	0.15906	ug/l	11.1	520	
Cr	53	72	He	0.13590	ug/l	73.3	60	
Mn	55	72	He	0.62493	ug/l	19.3	780	
Fe	56	72	He	4.42278	ug/l	2.7	10564	
Co	59	72	He	0.01410	ug/l	38.2	92	
Ni	60	72	He	0.24246	ug/l	12.3	446	
Cu	63	72	He	0.52796	ug/l	5.9	2444	
Cu	65	72	He	0.51823	ug/l	7.7	1215	
Zn	66	72	He	0.43110	ug/l	11.7	280	
As	75	72	He	0.96180	ug/l	3.0	305	
Mo	95	115	He	0.67152	ug/l	2.4	1733	
Mo	98	115	He	0.66122	ug/l	2.4	3004	
Ag	107	115	He	0.00209	ug/l	92.1	28	
Ag	109	115	He	-0.00035	ug/l	N/A	12	
Cd	111	115	He	0.00287	ug/l	22.9	4	
Sb	121	115	He	0.08749	ug/l	6.5	251	
Sb	123	115	He	0.08295	ug/l	15.2	201	
Ba	138	115	He	19.41541	ug/l	1.3	118749	
Tl	203	175	He	0.00641	ug/l	24.9	88	
Tl	205	175	He	0.01065	ug/l	13.8	275	
Pb	208	175	He	0.00542	ug/l	38.3	371	
U	238	232	He	0.52357	ug/l	3.4	15259	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	463680	0.5	473640.17	97.9	
Ge	72	H2	370236	1.9	353084.2	104.86	
Sc	45	He	65857	1.9	62803.57	104.86	
Ge	72	He	66114	0.7	62517.89	105.75	
In	115	He	722409	0.8	639651.89	112.94	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1997379	2.2	1767103.88	113.03	
Th	232	He	3314617	0.2	2900257.25	114.29	

Sample Report

Sample Name K2311042-010

File Name 081SMPL.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 2:59:43 PM

Sample Type Sample

Comment D

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	-0.00204	ug/l	N/A	11	
Al	27	6	No Gas	2.93162	ug/l	2.9	45362	
Ca	43	6	No Gas	15543.46205	ug/l	0.4	602855	
Se	77	72	H2	0.27441	ug/l	195.1	153	
Se	78	72	H2	0.12249	ug/l	24.8	56	
Mg	24	45	He	4374.83077	ug/l	1.9	646213	
V	51	72	He	1.80123	ug/l	5.5	3831	
Cr	52	72	He	0.14435	ug/l	29.2	478	
Cr	53	72	He	0.10743	ug/l	50.1	50	
Mn	55	72	He	0.43388	ug/l	21.8	550	
Fe	56	72	He	4.77465	ug/l	2.2	11381	
Co	59	72	He	0.00949	ug/l	31.3	67	
Ni	60	72	He	0.38035	ug/l	3.2	663	
Cu	63	72	He	0.54783	ug/l	6.4	2537	
Cu	65	72	He	0.53582	ug/l	10.5	1255	
Zn	66	72	He	0.54054	ug/l	22.8	340	
As	75	72	He	0.88897	ug/l	8.1	283	
Mo	95	115	He	0.69827	ug/l	6.4	1812	
Mo	98	115	He	0.67199	ug/l	4.0	3070	
Ag	107	115	He	0.00075	ug/l	179.1	15	
Ag	109	115	He	-0.00070	ug/l	N/A	8	
Cd	111	115	He	0.00300	ug/l	24.1	4	
Sb	121	115	He	0.08045	ug/l	5.0	236	
Sb	123	115	He	0.07855	ug/l	14.9	193	
Ba	138	115	He	19.46077	ug/l	0.9	119738	
Tl	203	175	He	0.00513	ug/l	17.5	77	
Tl	205	175	He	0.00847	ug/l	30.5	228	
Pb	208	175	He	0.00636	ug/l	4.9	394	
U	238	232	He	0.51675	ug/l	4.2	14972	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	459692	0.6	473640.17	97.06	
Ge	72	H2	367835	1.3	353084.2	104.18	
Sc	45	He	65398	1.5	62803.57	104.13	
Ge	72	He	66228	2.4	62517.89	105.93	
In	115	He	726744	1.3	639651.89	113.62	

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	1988267	0.6	1767103.88	112.52	
Th	232	He	3296757	1.9	2900257.25	113.67	

Continuing Calibration Verification (CCV) Report

Sample Name CCV

File Name 082_CCV.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 3:02:06 PM

Sample Type CCV

Comment —

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	% Rec	QC Flag
Be	9	6	No Gas	24.79334	ug/l	0.9	80352	99.17	
Al	27	6	No Gas	257.02825	ug/l	1.4	3948644	102.81	
Ca	43	6	No Gas	2081.34527	ug/l	1.5	82428	104.07	
Se	77	72	H2	25.41277	ug/l	4.2	3467	101.65	
Se	78	72	H2	25.85836	ug/l	0.2	11092	103.43	
Mg	24	45	He	1967.46534	ug/l	1.4	293583	98.37	
V	51	72	He	24.19467	ug/l	2.7	51873	96.78	
Cr	52	72	He	24.74200	ug/l	1.9	71333	98.97	
Cr	53	72	He	23.70357	ug/l	11.5	8759	94.81	
Mn	55	72	He	25.09675	ug/l	1.8	30596	100.39	
Fe	56	72	He	246.38873	ug/l	1.2	567312	98.56	
Co	59	72	He	24.47006	ug/l	1.5	139409	97.88	
Ni	60	72	He	24.25877	ug/l	2.1	38626	97.04	
Cu	63	72	He	24.52215	ug/l	0.7	113355	98.09	
Cu	65	72	He	24.50243	ug/l	2.6	56845	98.01	
Zn	66	72	He	25.35967	ug/l	4.0	14194	101.44	
As	75	72	He	24.44510	ug/l	2.2	7735	97.78	
Mo	95	115	He	11.89251	ug/l	1.2	31164	95.14	
Mo	98	115	He	11.76643	ug/l	1.2	54186	94.13	
Ag	107	115	He	12.01388	ug/l	0.4	122252	96.11	
Ag	109	115	He	12.38403	ug/l	0.3	121360	99.07	
Cd	111	115	He	24.75593	ug/l	0.5	28258	99.02	
Sb	121	115	He	12.56611	ug/l	0.9	30075	100.53	
Sb	123	115	He	12.24420	ug/l	0.8	24095	97.95	
Ba	138	115	He	22.90000	ug/l	0.7	142358	91.6	
Tl	203	175	He	26.14136	ug/l	1.3	232703	104.57	
Tl	205	175	He	26.39255	ug/l	1.0	564923	105.57	
Pb	208	175	He	25.84952	ug/l	0.9	722684	103.4	
U	238	232	He	25.98740	ug/l	0.4	760102	103.95	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	469022	1.3	473640.17	99.02	
Ge	72	H2	371200	1.2	353084.2	105.13	
Sc	45	He	66055	1.5	62803.57	105.18	
Ge	72	He	66888	1.6	62517.89	106.99	
In	115	He	734267	0.2	639651.89	114.79	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2029910	1.2	1767103.88	114.87	
Th	232	He	3328710	1.0	2900257.25	114.77	

Continuing Calibration Blank (CCB) Report

Sample Name CCB

File Name 083_CCB.d

Data Path Name D:\Agilent\ICPMH\1\DATA\BatchTemplate\Experiments\101323A.b

Acq Time 2023-10-13 3:04:27 PM

Sample Type CCB

Comment ---

ISTD Ref FileName 003CALB.d

Operator ALKLS
NoUser

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	No Gas	0.00409	ug/l	25.1	31	
Al	27	6	No Gas	0.04111	ug/l	15.5	1883	
Ca	43	6	No Gas	1.04669	ug/l	29.0	127	
Se	77	72	H2	-0.18916	ug/l	N/A	93	
Se	78	72	H2	-0.00120	ug/l	N/A	4	
Mg	24	45	He	0.23615	ug/l	156.2	117	
V	51	72	He	0.01135	ug/l	31.3	33	
Cr	52	72	He	-0.00968	ug/l	N/A	40	
Cr	53	72	He	-0.00193	ug/l	N/A	10	
Mn	55	72	He	0.01769	ug/l	169.8	50	
Fe	56	72	He	0.02090	ug/l	93.7	563	
Co	59	72	He	-0.00094	ug/l	N/A	8	
Ni	60	72	He	-0.01745	ug/l	N/A	38	
Cu	63	72	He	0.00236	ug/l	288.3	43	
Cu	65	72	He	-0.00505	ug/l	N/A	15	
Zn	66	72	He	-0.05261	ug/l	N/A	13	
As	75	72	He	0.00004	ug/l	18870.7	5	
Mo	95	115	He	0.00072	ug/l	270.0	4	
Mo	98	115	He	-0.00049	ug/l	N/A	7	
Ag	107	115	He	0.00122	ug/l	107.6	20	
Ag	109	115	He	0.00118	ug/l	127.1	27	
Cd	111	115	He	0.00211	ug/l	98.6	3	
Sb	121	115	He	0.00454	ug/l	146.8	57	
Sb	123	115	He	0.00285	ug/l	171.9	47	
Ba	138	115	He	0.00209	ug/l	122.3	43	
Tl	203	175	He	0.00025	ug/l	230.0	35	
Tl	205	175	He	0.00411	ug/l	58.4	140	
Pb	208	175	He	0.00117	ug/l	18.0	259	
U	238	232	He	0.00318	ug/l	27.8	103	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Li	6	No Gas	467830	0.3	473640.17	98.77	
Ge	72	H2	367829	0.4	353084.2	104.18	
Sc	45	He	66654	0.6	62803.57	106.13	
Ge	72	He	67096	1.8	62517.89	107.32	
In	115	He	732217	1.3	639651.89	114.47	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	QC Flag
Lu	175	He	2040122	1.1	1767103.88	115.45	
Th	232	He	3289529	0.3	2900257.25	113.42	

Organochlorine Pesticides and Polychlorinated Biphenyls

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 427536 **Prep WorkFlow:** OrgExtAq(7) **Status:** Prepped
Team: Semivoa GC/RAJONES **Prep Method:** EPA 3520C **Prep Date/Time:** 10/3/23 15:38

Number of Copies to make: 5

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2317362-01	MB		608.3/PEST_PCB		Liquid	1040.0000mL	2.00mL	
2	KQ2317362-02	LCS		608.3/PEST_PCB		Liquid	1000mL	2.00mL	
3	KQ2317362-03	DLCS		608.3/PEST_PCB		Liquid	1000mL	2.00mL	
4	KQ2317362-04	LCS		608.3/PEST_PCB		Liquid	1000mL	2.00mL	
5	KQ2317362-05	DLCS		608.3/PEST_PCB		Liquid	1000mL	2.00mL	
6	K2310950-001	Outfall 2-(North)	.01	608.3/PEST_PCB		Water	1020.0000mL	2.00mL	
7	K2310951-001	Outfall 1-(East)	.02	608.3/PEST_PCB		Water	1020.0000mL	2.00mL	
8	K2310952-001	Outfall 3-(South)	.02	608.3/PEST_PCB		Water	1040.0000mL	2.00mL	
9	K2310962-005	Composite	.01	608.3/PEST_PCB		Wastewater	990.0000mL	2.00mL	
10	K2310979-003	002 Composite	.11	608.3/PEST_PCB		Wastewater	980.0000mL	2.00mL	

Spiking Solutions

Name: 8082 1660 MS 1.0 ppm Inventory ID 230770 Logbook Ref: PCB9-49M Expires On: 03/28/2024

KQ2317362-04 500.00µL KQ2317362-05 500.00µL

Name: 8081/8082 Surrogate 0.8ppm Inventory ID 231080 Logbook Ref: PCB9-50A Expires On: 03/28/2024

K2310950-001 200.00µL K2310951-001 200.00µL K2310952-001 200.00µL K2310962-005 200.00µL K2310979-003 200.00µL KQ2317362-01 200.00µL
KQ2317362-02 200.00µL KQ2317362-03 200.00µL KQ2317362-04 200.00µL KQ2317362-05 200.00µL

Name: 608.3 Matrix Spike Inventory ID 231218 Logbook Ref: DWSTD08-84H Expires On: 10/07/2023

KQ2317362-02 50.00µL KQ2317362-03 50.00µL

Preparation Steps

Step:	Extraction	Step:	Florisil Col Clean-EPA 362	Step:	Final Volume
Started:	10/3/23 15:38	Started:	10/5/23 05:22	Started:	10/5/23 05:30
Finished:	10/4/23 09:40	Finished:	10/5/23 05:30	Finished:	10/5/23 07:46
By:	RAJONES	By:	VWILSON	By:	VWILSON
Comments		Comments		Comments	

Comments: Dr. Strange I1-I10

Reviewed By: VW JC Date: 10/5/23

Preparation Information Benchsheet

Prep Run#: 427536 **Prep WorkFlow:** OrgExtAq(7) **Status:** Prepped
Team: Semivoa GC/RAJONES **Prep Method:** EPA 3520C **Prep Date/Time:** 10/3/23 15:38

Chain of Custody

Relinquished By:	VW	Date:	10/5/23	Extracts Examined
Received By:	TM for BB	Date:	10-13-23	Yes No

Preparation Information Benchsheet

Prep Run#: 427536
Team: Semivoa GC/RAJONES
Number of Copies to make: 5

Prep WorkFlow: OrgExtAq(7)
Prep Method: 3520C

Status: Draft
Prep Date/Time: 10/3/23 ~~10:57 AM~~ 15:38 PM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. mL	pH	Int. Vol	Final Vol mL	Surr Amt uL	Spike Amt uL
1	KQ2317362-01	MB	—		608.3 / PEST_PCB	Liquid	~~1020~~ 1040	5	N/A	2	200	—
2	KQ2317362-02	LCS 608	—		608.3 / PEST_PCB	Liquid	1000	5			200	50
3	KQ2317362-03	DLCS 608	—		608.3 / PEST_PCB	Liquid	1000	5			200	50
4	KQ2317362-04	LCS 1660	—		608.3 / PEST_PCB	Liquid	1000	5			200	500
5	KQ2317362-05	DLCS 1660	—		608.3 / PEST_PCB	Liquid	1006	~~5~~ 5			200	500
6	K2310950-001	Outfall 2-(North)	.01	√	608.3 / PEST_PCB	Water	1020	5			200	—
7	K2310951-001	Outfall 1-(East)	.02	√	608.3 / PEST_PCB	Water	1020	5			200	—
8	K2310952-001	Outfall 3-(South)	.02	√	608.3 / PEST_PCB	Water	1046	5			200	—
9	K2310962-005	Composite	.01	√	608.3 / PEST_PCB	Wastewater	990	5			200	—
10	K2310979-003	002 Composite	.11	√	608.3 / PEST_PCB	Wastewater	980	7	—	—	200	—

Comments:

608: DWSTD08-84H xp: 10.7.23 2ppm 50uL

Surrogate ID: PCB9-50A xp: 3.28.24 0.8ppm 200uL

Spike ID: 1660: PCB9-49m xp: 3.28.24 1ppm 500uL

Witnessed By:

Analyst: RaJones

Assisted By:

ALS Group U.S.A. Corp.
dba ALS Environmental

Sample Composite Data

Service request(s): K2310962

Matrix: Solid or Water? Water

Sample ID:	Volume (ml)	Sample ID:	Volume (ml)	Sample ID:	Volume (ml)	Sample ID:	Volume (ml)	Sample ID:	Volume (ml)
K2310962-1.04	250.000								
K2310962-2.04	240.000								
K2310962-3.04	250.000								
K2310962-4.04	250.000								
Composite ID:	K2310962-5	**Composite ID:**		**Composite ID:**		**Composite ID:**		**Composite ID:**	
Total Volume (ml)	990.000	**Total Volume (ml)**		**Total Volume (ml)**		**Total Volume (ml)**		**Total Volume (ml)**	
Date	10/3/23	**Date**		**Date**		**Date**		**Date**	
Time		**Time**		**Time**		**Time**		**Time**	

Balance ID: **Comments:**

Analyst(s): Rayna Jones	**Date:** 10/3/2023
Reviewed by:	**Date:**

ALS Environmental
Extraction Analyst Notes

Service Request: _____ Prep Group: _____

Topic	Notes	Initials/Date
No Anomalies: □		
Sample Anomalies: □		
Organics Present (sticks, leafs, bugs): □		
Fuel Odors: □		
Sulfur Odors, Precipitate: □		
General Notes:	Unsure if samples 0962-5 and 0979-3 were surrogated, ~~double~~ adding surrogate again just in case it was missed for these samples RJ 10/3/23 Insufficient sample volume for MS/DMS	RJ 10/3/23 RJ 10/3/23

Reviewed by: Jonathon Walter 12/19/18 EXT-NOTES r.0

ALS Environmental
EXT-3520 SOC-608
Extracting OC Pesticides and PCBs in Waters
EPA Method 3520C

Service Request # 483109500951, 0952, 0962, 0979 **Work Group #** 483173628

Syringe Volume(s) and ID: 50 uL- 61 250uL-59 500uL-40

DCM Lot # EH025-US pH Strips Lot#: 227822✓

Continuous Start (time/date/initial): 1536 10/3/23 RJ

Continuous Stop (time/date/initial): 940 10/4/23 RJ

Sulfate Lot # 20220817335 Glass Wool Lot# 1160229999

S-Evap (time/date/initial): 1055 10/4/23 JC S-Evap Thermometer ID: X-SUM-008

Temp as measured: 75 °C Correction factor: 0 °C Adjusted temp: 75 °C

Solvent Exchange to Hexane (time/date/initial): 1119 10/4/23 JC Hexane Lot# 22K0916201Z

N-Evap (time/date/initial): 1139 10/4/23 JC N-Evap Thermometer ID: X-SUM-007

Temp as measured: 20 °C Correction factor: 0 °C Adjusted temp: 20 °C

Florisil Clean-up (3620)(time/date/initial): 0522 10/5/23 JC Florisil Lot # M055165

Hexane 1:1 Acetone Lot # 19EXH01-49R Hexane 9:1 Acetone Lot # 19EXH01-49T

N-Evap (time/date/initial): 0530 10/5/23 JC N-Evap Thermometer ID: X-SUM-010

Temp as measured: 20 °C Correction factor: 0 °C Adjusted temp: 20 °C

Carbon Clean-up (Ext-Car) (time/date/initial): —

Carbon Lot # — 1:1 DCM:Hexane Lot # —

Turbovap (time/date/initial): — Turbovap Thermometer ID: —

Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Pipette (2 mL) Lot # 12602160416 Pipette (1 mL) Lot # 04282021

Completed by (time/date/initial): 0746 10/5/23 JC

Vial: Clear Vial Storage: Dr. Strange I1-I10

Archived Extract Storage: Cars

Bench Sheet Review Check List	
☑	Hold times met; if no, reason:
☑	Prep date, time, method, department, product code correct
☑	Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☑	Weights/Volumes and units correct on raw and final bench sheets
☑	Sample IDs have been checked - bottle numbers appended if required
☑	Names present for: started by, completed by, relinquished by, and witnessed by
☑	Extract storage recorded
☑	Additional prep sheet completely filled out (NA or line out blanks)
☑	All clean-ups have been noted on additional prep sheet

1st B B 11/03/23
2nd AA 11/06/23

Validation Report

Data File: J:\GC33\DATA\110123\1101F018.D\
Lab ID: K2310979-003
RunType: N/A
Matrix: Wastewater

Date Acquired: 11/1/23 21:12:00
Batch ID: 821707
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Duplicate Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - RTX-CLP2	Endrin	130	5	125	CCV+ND
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.98			SA
	Pentachloronitrobenzene {2}	10.98			
	Pentachloronitrobenzene {3}	10.98			
	Pentachloronitrobenzene{4}	10.98			
	Pentachloronitrobenzene{5}	10.98			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.82			
	Pentachloronitrobenzene {2}	10.82			
	Pentachloronitrobenzene {3}	10.82			
	Pentachloronitrobenzene{4}	10.82			
	Pentachloronitrobenzene{5}	10.82			

Primary Review: _____

Secondary Review: _____

1st BB 11/03/23
2nd AA 11/06/23

Quantitation Report

Data File:	J:\GC33\DATA\110123\1101F018.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 21:12:00	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2310979-003	**Raw Units:**	ug/L

Bottle ID:	K2310979-003.11	**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	PEST_PCB	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	821707	**Prep Lot:**	427536	**Report Group:**	K2310979
Analysis Method:	608.3	**Prep Method:**	EPA 3520C		
		Prep Date:	10/3/23		

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
Pentachloronitrobenzene (PCNB)	10.98	c	10.82	c	238197549	67233471	50.000	50.000
Pentachloronitrobenzene {2}	10.98	c	10.82	c	238197549	67233471	50.000	50.000
Pentachloronitrobenzene {3}	10.98	c	10.82	c	238197549	67233471	50.000	50.000
Pentachloronitrobenzene {4}	10.98	c	10.82	c	238197549	67233471	50.000	50.000
Pentachloronitrobenzene {5}	10.98	c	10.82	c	238197549	67233471	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
Decachlorobiphenyl	17.29	17.57	116650768	35092790	38.777	48.276	48	60	48	10 - 134	Y
Tetrachloro-m-xylene	8.90	8.77 +0.01	237606767	143393463	92.944	97.185	116	121	116	10 - 134	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	12.07	0	1970239	0.000	1.257	0U	0.0026J	0.00050 U	Y
Aroclor 1016					0.000	0.000	0U	0U	0.020 U	Y
Aroclor 1221					0.000	0.000	0U	0U	0.020 U	Y
Aroclor 1232					0.000	0.000	0U	0U	0.020 U	Y
Aroclor 1242					0.000	0.000	0U	0U	0.020 U	Y
Aroclor 1248					0.000	0.000	0U	0U	0.020 U	Y
Aroclor 1254					0.000	0.000	0U	0U	0.025 U	Y
Aroclor 1260					0.000	0.000	0U	0U	0.025 U	Y
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0	0		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F018.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 21:12:00	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2310979-003	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {5}										
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00053 U	Y
beta-BHC	0.00	11.05 -0.01	0	13232795	0.000	20.088	0U	0.041U	0.043 U	Y
delta-BHC	0.00	11.54 +0.02	0	4301682	0.000	2.901	0U	0.0059J	0.00047 U	Y
gamma-BHC (Lindane)	10.82 -0.03	0.00	3918142	0	1.698	0.000	0.0035J	0U	0.00069 U	Y
Chlordane					0.000	0.000	0U	0U	0.030 U	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00052 U	Y
4,4'-DDE	13.45 -0.03	0.00	4203946	0	1.338	0.000	0.0027J	0U	0.00076 U	Y
4,4'-DDT	0.00	14.65 -0.02	0	980975	0.000	1.222	0U	0.0025J	0.00079 U	Y
Dieldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00054 U	Y
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0033 U	Y
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00090 U	Y
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00037 U	Y
Endrin	14.18 -0.02	0.00	5012883	0	1.733	0.000 CCV	0.0035J	0U	0.00055 U	Y
Endrin Aldehyde	0.00	14.82 -0.03	0	1285367	0.000	1.772	0U	0.0036U	0.0053 U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

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?: Insufficient information to determine acceptance
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c: check for co-elution

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1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F018.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 21:12:00	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2310979-003	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor	11.67 +0.01	11.61 +0.03	3402498	6213832	1.824	4.355	0.0037Ui	0.0089Ui	0.0038 Ui	Y
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0023 U	Y
Toxaphene					0.000	0.000	0U	0U	0.058 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	980.0000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F018.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 09:12 pm Operator:
Sample : K2310979-003 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 14:28:17 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	10.982	10.819	238.2E6	67233471	50.000	50.000	
26)	I	Pentachlo...	10.982	10.819	238.2E6	67233471	50.000	50.000	
34)	I	Pentachlo...	10.982	10.819	238.2E6	67233471	50.000	50.000	
51)	I	Pentachlo...	10.982	10.819	238.2E6	67233471	50.000	50.000	
60)	I	Pentachlo...	10.982	10.819	238.2E6	67233471	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.897	8.766	237.6E6	143.4E6	92.944m	97.185	
25)	S	Decachlor...	17.289	17.570	116.7E6	35092790	38.777	48.276	
		Target Compounds							
5)	m	gamma-BHC...	10.825f	0.000	3918142	0	1.698	N.D.	#
6)	m	beta-BHC	0.000	11.045	0	13232795	N.D.	20.088	#
7)	m	delta-BHC	0.000	11.538	0	4301682	N.D.	2.901	#
8)	m	Heptachlor	11.668	11.611f	3402498	6213832	1.824	4.355	#
9)	m	Aldrin	0.000	12.065	0	1970239	N.D.	1.257	#
14)	m	4,4'-DDE	13.453f	0.000	4203946	0	1.338	N.D.	#
17)	m	Endrin	14.181f	0.000	5012883	0	1.733	N.D.	#
20)	m	4,4'-DDT	0.000	14.648f	0	980975	N.D.	1.222	#
21)	m	Endrin Al...	0.000	14.819f	0	1285367	N.D.	1.772	#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

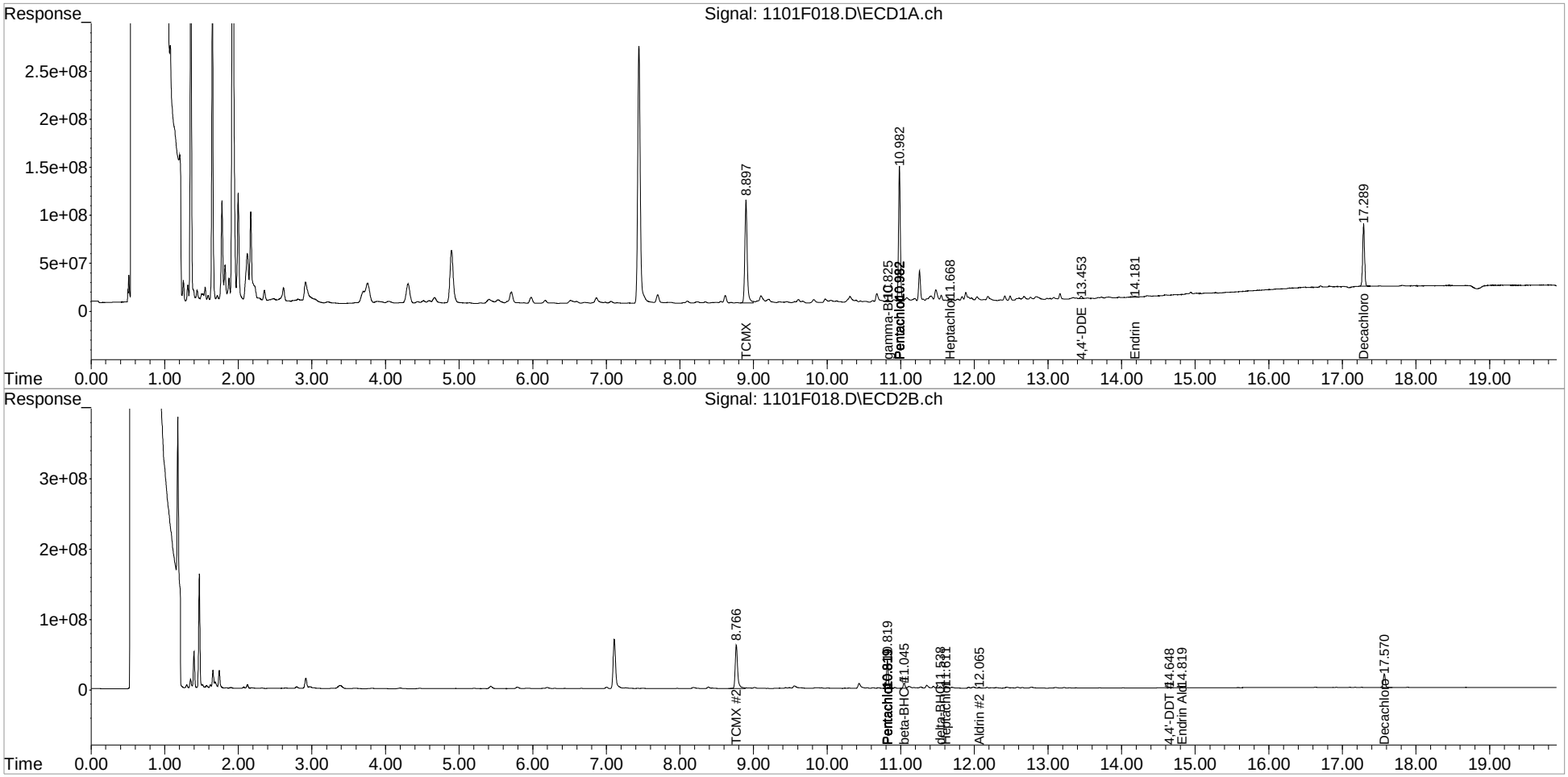
1st BB 11/03/23
2nd AA 11/06/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110123\1101F018.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 09:12 pm Operator:
Sample : K2310979-003 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 14:28:17 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



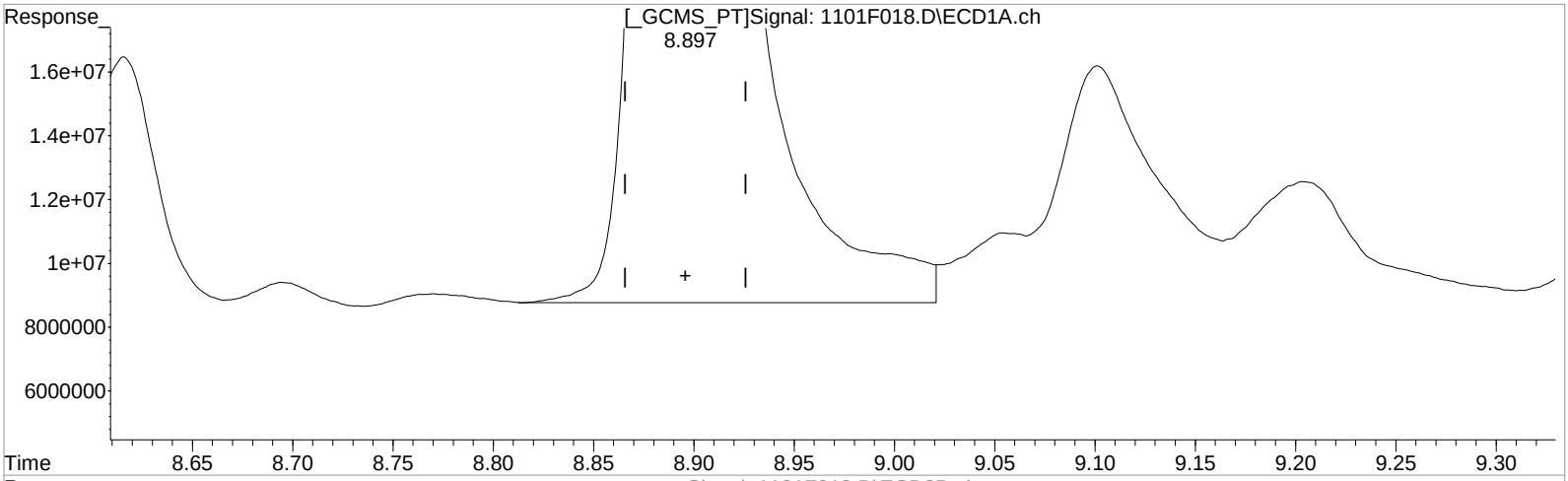
Quantitation Report (Qedit)

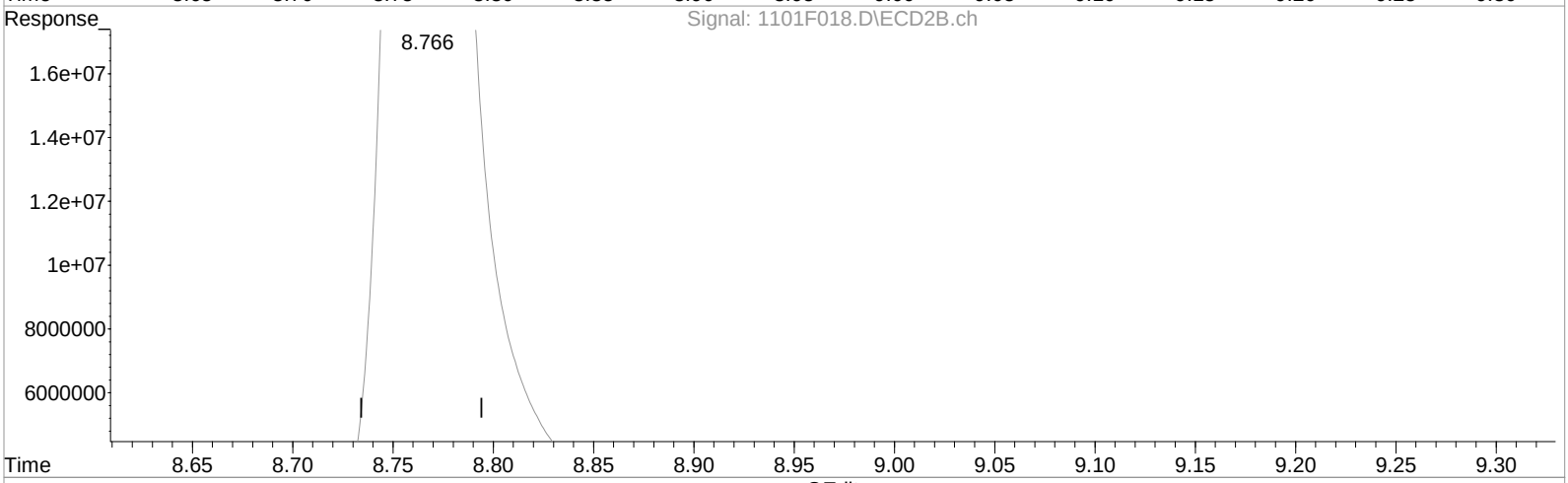
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F018.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 09:12 pm Operator:
Sample : K2310979-003 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:21:19 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(2) TCMX (s)

8.897min 93.832 ug/L

response 239876038

Manual Integration:

Before

11/02/23

(2) TCMX #2 (s)

8.766min 97.185 ug/L

response 143393463

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F018.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 09:12 pm Operator:
Sample : K2310979-003 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
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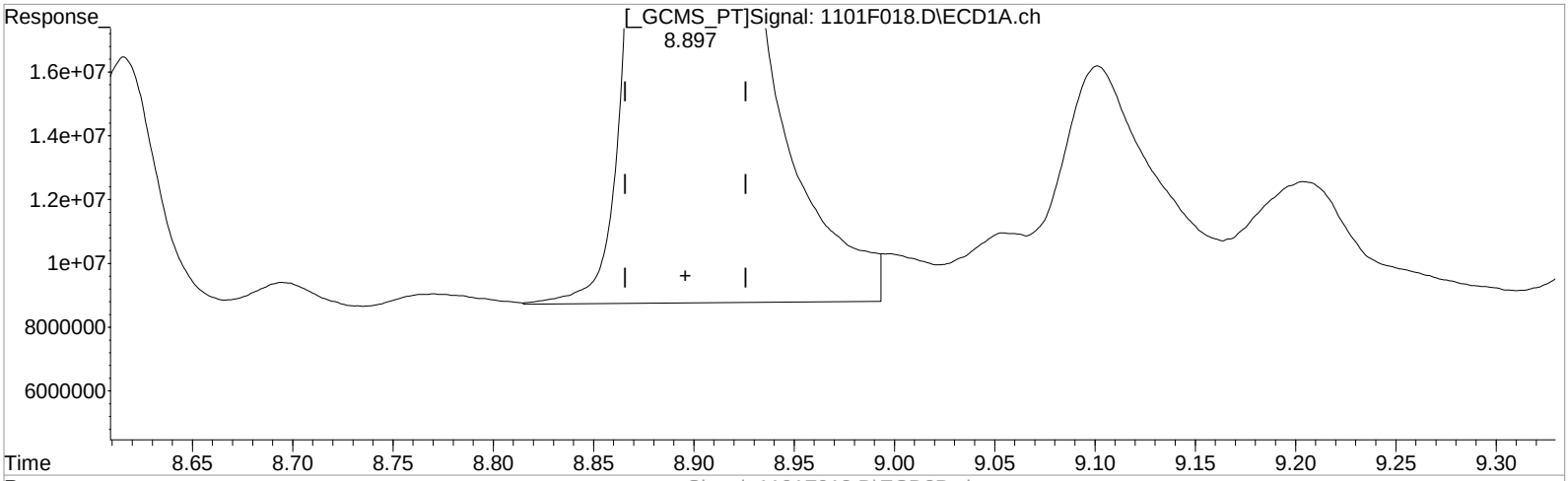
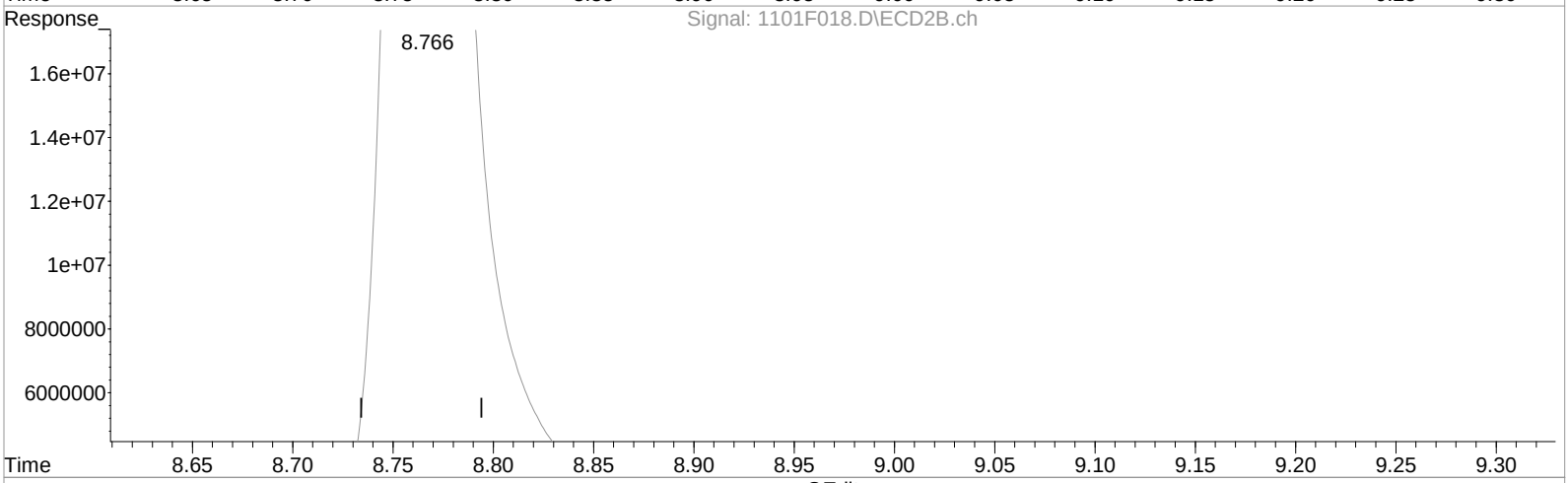
Quant Time: Nov 02 12:21:19 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(2) TCMX (s)

8.897min 92.944 ug/L m

response 237606767

Manual Integration:

After

Baseline/Shoulder

11/02/23

(2) TCMX #2 (s)

8.766min 97.185 ug/L

response 143393463

(+) = Expected Retention Time

1st BB 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F021.D\
Lab ID: KQ2317362-01
RunType: MB
Matrix: Water

Date Acquired: 11/3/23 01:36:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - RTX-CLP	alpha-BHC	126	69	125	ND
	beta-BHC	162	75	125	
	4,4'-DDT	127	75	125	
	Endrin	132	5	125	
	Heptachlor	138	75	125	
Continuing Calibration Recovery - RTX-CLP2	Aldrin	130	75	125	
	alpha-BHC	144	69	125	
	beta-BHC	162	75	125	
	delta-BHC	134	75	125	
	gamma-BHC (Lindane)	159	75	125	
	4,4'-DDD	146	75	125	
	4,4'-DDE	145	75	125	
	4,4'-DDT	131	75	125	
	Dieldrin	137	48	125	
	Endosulfan I	136	75	125	
	Endosulfan II	146	75	125	
	Endosulfan Sulfate	129	70	125	
	Endrin	161	5	125	RO
	Endrin Aldehyde	137	75	125	ND
	Heptachlor	133	75	125	
	Heptachlor Epoxide	134	75	125	
	Decachlorobiphenyl	155	75	125	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.90			SA
	Pentachloronitrobenzene {2}	10.90			
	Pentachloronitrobenzene {3}	10.90			
	Pentachloronitrobenzene{4}	10.90			
	Pentachloronitrobenzene{5}	10.90			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			

Primary Review: _____

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Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
	Pentachloronitrobenzene {2}	10.77			SA
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F021.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 01:36:00	**Vial:**	1
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317362-01	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	821752	**Prep Lot:**	427536	**Report Group:**	KQ2317362
Analysis Method:	608.3	**Prep Method:**	EPA 3520C		
		Prep Date:	10/3/23		

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
Pentachloronitrobenzene (PCNB)	10.90 -0.0℄	10.77 -0.0℄	285065004	78098238	50.000	50.000
Pentachloronitrobenzene {2}	10.90 -0.0℄	10.77 -0.0℄	285065004	78098238	50.000	50.000
Pentachloronitrobenzene {3}	10.90 -0.0℄	10.77 -0.0℄	285065004	78098238	50.000	50.000
Pentachloronitrobenzene {4}	10.90 -0.0℄	10.77 -0.0℄	285065004	78098238	50.000	50.000
Pentachloronitrobenzene {5}	10.90 -0.0℄	10.77 -0.0℄	285065004	78098238	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
Decachlorobiphenyl	17.20	17.50	123362057	38759030	34.266	45.845CCV	43	57	43	10 - 134	Y
Tetrachloro-m-xylene	8.81 -0.01	8.71 -0.01	116453953	68519077	38.064	39.978	48	50	48	10 - 134	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000CCV	0U	0U	0.00049 U	Y
Aroclor 1016					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1221					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1232					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1242					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1248					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1254					0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1260					0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0	0		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F021.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 01:36:00	**Vial:**	1
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317362-01	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {5}										
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
alpha-BHC	0.00	0.00	0	0	0.000 CCV	0.000 CCV	0U	0U	0.00051 U	Y
beta-BHC	0.00	11.00 -0.01	0	1676972	0.000 CCV	2.192 CCV	0U	0.0042U	0.042 U	Y
delta-BHC	11.28 +0.02	0.00	375587	0	1.223	0.000 CCV	0.0024J	0U	0.00046 U	Y
gamma-BHC (Lindane)	10.79 +0.02	0.00	1137556	0	1.168	0.000 CCV	0.0022J	0U	0.00067 U	Y
Chlordane					0.000	0.000	0U	0U	0.029 U	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00050 U	Y
4,4'-DDE	13.39 -0.02	0.00	810768	0	0.216	0.000 CCV	0.00042U	0U	0.00074 U	Y
4,4'-DDT	0.00	0.00	0	0	0.000 CCV	0.000 CCV	0U	0U	0.00077 U	Y
Dieldrin	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00052 U	Y
Endosulfan I	0.00	13.36 -0.01	0	508085	0.000	0.388 CCV	0U	0.00075U	0.0032 U	Y
Endosulfan II	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00088 U	Y
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00036 U	Y
Endrin	0.00	14.12	0	224392	0.000 CCV	0.203 CCV	0U	0.00039U	0.00053 U	Y
Endrin Aldehyde	0.00	14.77 -0.03	0	710993	0.000	0.844 CCV	0U	0.0016U	0.0051 U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
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D: Result from dilution
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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F021.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 01:36:00	**Vial:**	1
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317362-01	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor	11.59	11.56 +0.02	481851	109519	1.173CCV	0.066CCV	0.0023J	0.00013U	0.00051 U	Y
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000CCV	0U	0U	0.0022 U	Y
Toxaphene					0.000	0.000	0U	0U	0.056 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	1040.0000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F021.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 01:36 am Operator:
Sample : KQ2317362-01 MB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 09:35:18 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	10.905	10.772	285.1E6	78098238	50.000	50.000	
26)	I	Pentachlo...	10.905	10.772	285.1E6	78098238	50.000	50.000	
34)	I	Pentachlo...	10.905	10.772	285.1E6	78098238	50.000	50.000	
51)	I	Pentachlo...	10.905	10.772	285.1E6	78098238	50.000	50.000	
60)	I	Pentachlo...	10.905	10.772	285.1E6	78098238	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.811	8.715	116.5E6	68519077	38.064	39.978	
25)	S	Decachlor...	17.199	17.505	123.4E6	38759030	34.266	45.845	#
		Target Compounds							
5)	m	gamma-BHC...	10.787f	0.000	1137556	0	1.168	N.D.	#
6)	m	beta-BHC	0.000	11.001	0	1676972	N.D.	2.192	#
7)	m	delta-BHC	11.277f	0.000	375587	0	1.223	N.D.	#
8)	m	Heptachlor	11.592	11.558f	481851	109519	1.173	0.066	#
14)	m	4,4'-DDE	13.387f	0.000	810768	0	0.216	N.D.	#
15)	m	Endosulfan I	0.000	13.355f	0	508085	N.D.	0.388	#
17)	m	Endrin	0.000	14.115	0	224392	N.D.	0.203	#
21)	m	Endrin Al...	0.000	14.774f	0	710993	N.D.	0.844	#
		SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

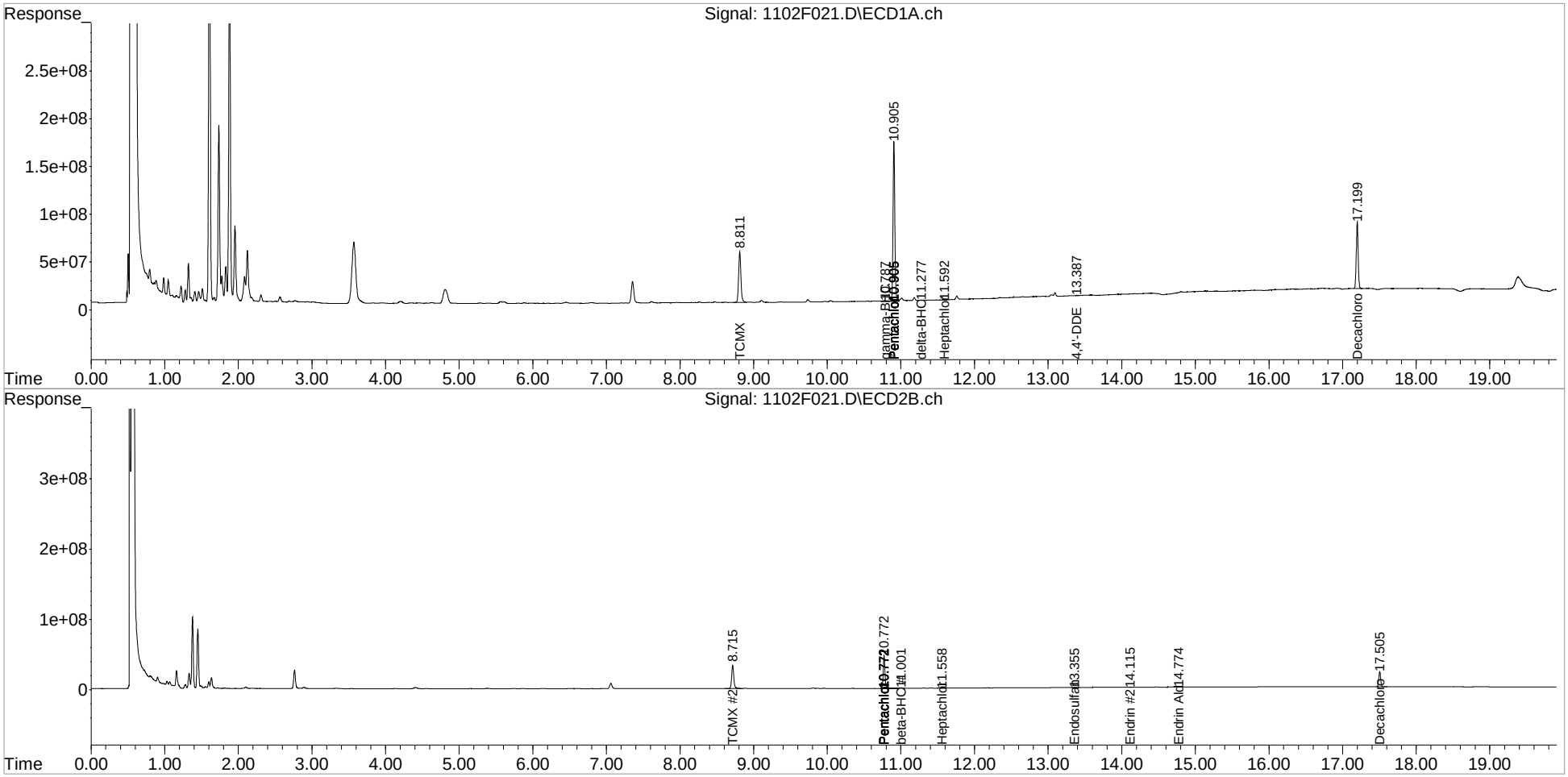
1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F021.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 01:36 am Operator:
Sample : KQ2317362-01 MB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 09:35:18 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st BB 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F022.D\
Lab ID: KQ2317362-02
RunType: LCS
Matrix: Water

Date Acquired: 11/3/23 02:01:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - RTX-CLP	alpha-BHC	126	69	125	Rpt
	beta-BHC	162	75	125	
	4,4'-DDT	127	75	125	
	Endrin	132	5	125	
	Heptachlor	138	75	125	
Continuing Calibration Recovery - RTX-CLP2	Aldrin	130	75	125	
	alpha-BHC	144	69	125	
	beta-BHC	162	75	125	
	delta-BHC	134	75	125	
	gamma-BHC (Lindane)	159	75	125	
	4,4'-DDD	146	75	125	
	4,4'-DDE	145	75	125	
	4,4'-DDT	131	75	125	
	Dieldrin	137	48	125	
	Endosulfan I	136	75	125	
	Endosulfan II	146	75	125	
	Endosulfan Sulfate	129	70	125	
	Endrin	161	5	125	RO
	Endrin Aldehyde	137	75	125	Rpt
	Heptachlor	133	75	125	
	Heptachlor Epoxide	134	75	125	
	Decachlorobiphenyl	155	75	125	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.91			SA
	Pentachloronitrobenzene {2}	10.91			
	Pentachloronitrobenzene {3}	10.91			
	Pentachloronitrobenzene{4}	10.91			
	Pentachloronitrobenzene{5}	10.91			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
	Pentachloronitrobenzene {2}	10.77			SA
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

Secondary Review: _____

1st B B 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F022.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 02:01:00	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317362-02	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	821752	**Prep Lot:**	427536	**Report Group:**	KQ2317362
Analysis Method:	608.3	**Prep Method:**	EPA 3520C		
		Prep Date:	10/3/23		

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
Pentachloronitrobenzene (PCNB)	10.91	c	10.77	-0.01c	312900639	78309984	50.000	50.000
Pentachloronitrobenzene {2}	10.91	c	10.77	-0.01c	312900639	78309984	50.000	50.000
Pentachloronitrobenzene {3}	10.91	c	10.77	-0.01c	312900639	78309984	50.000	50.000
Pentachloronitrobenzene {4}	10.91	c	10.77	-0.01c	312900639	78309984	50.000	50.000
Pentachloronitrobenzene {5}	10.91	c	10.77	-0.01c	312900639	78309984	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1		RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria		Rpt?
Decachlorobiphenyl	17.20		17.50	129617132	41949441	32.800	49.577CCV	41	62	41	10 - 134	P	Y
Tetrachloro-m-xylene	8.81	-0.01	8.72	123198479	69963496	36.686	40.711	46	51	46	10 - 134		Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	12.06		12.02	-0.01	171936133	53346842	26.818	29.217CCV	0.0536	0.0584	**0.0536**	Y
Aroclor 1016							0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1221							0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1232							0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1242							0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1248							0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1254							0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1260							0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1016 {1}	0.00		0.00		0	0	0.000	0.000	0	0		
Aroclor 1016 {2}	0.00		0.00		0	0	0.000	0.000	0	0		
Aroclor 1016 {3}	0.00		0.00		0	0	0.000	0.000	0	0		
Aroclor 1016 {4}	0.00		0.00		0	0	0.000	0.000	0	0		

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d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F022.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 02:01:00	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317362-02	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {5}										
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
alpha-BHC	10.13 -0.01	10.15	240069853	73367643	31.201 CCV	34.907 CCV	0.0624	0.0698	**0.0624**	Y
beta-BHC	10.95 -0.01	11.01	76169076	32252615	40.155 CCV	42.036 CCV	0.0803	0.0841	**0.0803**	Y
delta-BHC	11.25 -0.01	11.48	213407948	59987642	31.455	34.733 CCV	0.0629	0.0695	**0.0629**	Y
gamma-BHC (Lindane)	10.77	10.83	212419838	68901686	29.864	35.406 CCV	0.0597	0.0708	**0.0597**	Y
Chlordane					0.000	0.000	0U	0U	0.029 U	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	14.18 -0.01	14.24 -0.01	90797606	36034687	30.870	36.414 CCV	0.0617	0.0728	**0.0617**	Y
4,4'-DDE	13.41	13.52 -0.01	125908646	45232375	30.495	35.773 CCV	0.0610	0.0715	**0.0610**	Y
4,4'-DDT	14.53	14.62 -0.01	97455139	33330796	34.077 CCV	35.634 CCV	0.0682	0.0713	**0.0682**	Y
Dieldrin	13.81 -0.01	13.73	139293224	48213701	28.934	33.046 CCV	0.0579	0.0661	**0.0579**	Y
Endosulfan I	13.49 -0.01	13.37	116800155	39324937	26.106	29.941 CCV	0.0522	0.0599	**0.0522**	Y
Endosulfan II	14.41	14.38	100165143	33411780	26.108	30.397 CCV	0.0522	0.0608	**0.0522**	Y
Endosulfan Sulfate	15.52 -0.01	15.14	90881438	29900368	27.164	31.692 CCV	0.0543	0.0634	**0.0543**	Y
Endrin	14.12 -0.01	14.12	127966249	44413288	33.686 CCV	40.084 CCV	0.0674	0.0802	**0.0674**	Y
Endrin Aldehyde	14.94 -0.01	14.80	68970506	26309118	23.716	31.136 CCV	0.0474	0.0623	**0.0474**	Y

U: Undetected at or above MDL
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E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F022.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 02:01:00	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317362-02	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor	11.59	11.54	187007319	50354995	31.999[CCV]	30.302[CCV]	0.0640	0.0606	**0.0606**	Y
Heptachlor Epoxide	12.95 [-0.01]	12.85	153238826	50244220	29.467	33.413[CCV]	0.0589	0.0668	**0.0589**	Y
Toxaphene					0.000	0.000	0U	0U	0.056 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
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Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F022.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:01 am Operator:
Sample : KQ2317362-02 LCS 608 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 09:38:43 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	10.906	10.773	312.9E6	78309984	50.000	50.000	
26)	I	Pentachlo...	10.906	10.773	312.9E6	78309984	50.000	50.000	
34)	I	Pentachlo...	10.906	10.773	312.9E6	78309984	50.000	50.000	
51)	I	Pentachlo...	10.906	10.773	312.9E6	78309984	50.000	50.000	
60)	I	Pentachlo...	10.906	10.773	312.9E6	78309984	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.810	8.716	123.2E6	69963496	36.686	40.711	
25)	S	Decachlor...	17.199	17.503	129.6E6	41949441	32.800m	49.577	#
		Target Compounds							
3)	m	alpha-BHC	10.133	10.148	240.1E6	73367643	31.201	34.907	
5)	m	gamma-BHC...	10.767	10.828	212.4E6	68901686	29.864	35.406	
6)	m	beta-BHC	10.949	11.007	76169076	32252615	40.155	42.036	
7)	m	delta-BHC	11.248	11.477	213.4E6	59987642	31.455	34.733	
8)	m	Heptachlor	11.586	11.540	187.0E6	50354995	31.999	30.302	
9)	m	Aldrin	12.055	12.023	171.9E6	53346842	26.818	29.217	
11)	m	Heptachlo...	12.953	12.849	153.2E6	50244220	29.467	33.413	
12)	m	beta-Chlo...	13.125	13.104	150.3E6	48100951	29.054	32.202	
13)	m	alpha-Chl...	13.308	13.299	136.4E6	45751993	28.231	31.665	
14)	m	4,4'-DDE	13.408	13.520	125.9E6	45232375	30.495	35.773	
15)	m	Endosulfan I	13.494	13.372	116.8E6	39324937	26.106	29.941	
16)	m	Dieldrin	13.814	13.727	139.3E6	48213701	28.934	33.046	
17)	m	Endrin	14.122	14.117	128.0E6	44413288	33.686	40.084	
18)	m	4,4'-DDD	14.178	14.241	90797606	36034687	30.870	36.414	
19)	m	Endosulfa...	14.411	14.381	100.2E6	33411780	26.108	30.397	
20)	m	4,4'-DDT	14.529	14.623	97455139	33330796	34.077	35.634	
21)	m	Endrin Al...	14.939	14.796	68970506	26309118	23.716	31.136	#
22)	m	Methoxychlor	15.102	15.460	45956595	25270045	33.231	61.285	#
23)	m	Endosulfa...	15.522	15.140	90881438	29900368	27.164	31.692	
24)	m	Endrin Ke...	15.913	15.862	111.5E6	39370241	29.399	39.617	#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

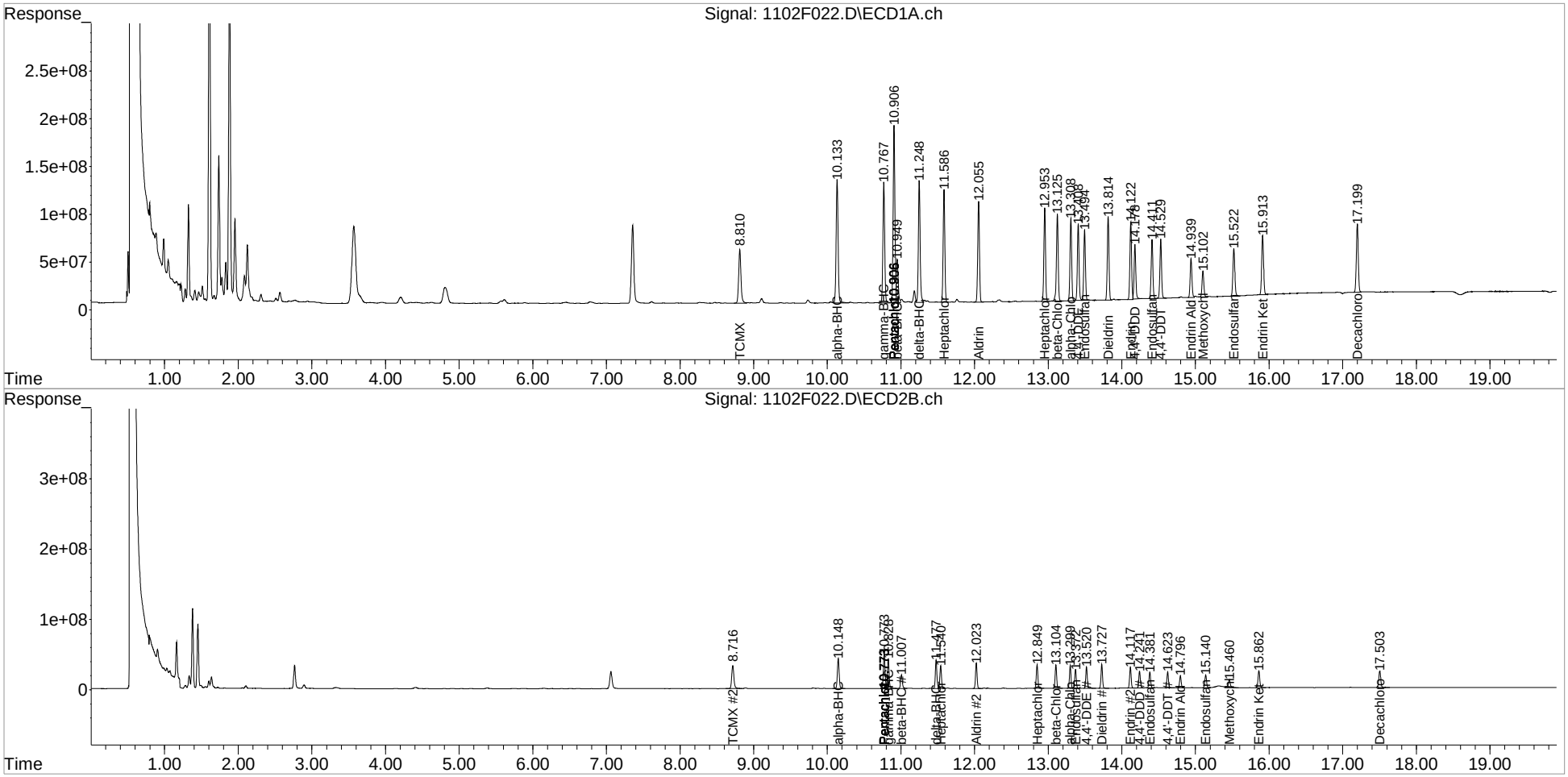
1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F022.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:01 am Operator:
Sample : KQ2317362-02 LCS 608 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 09:38:43 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



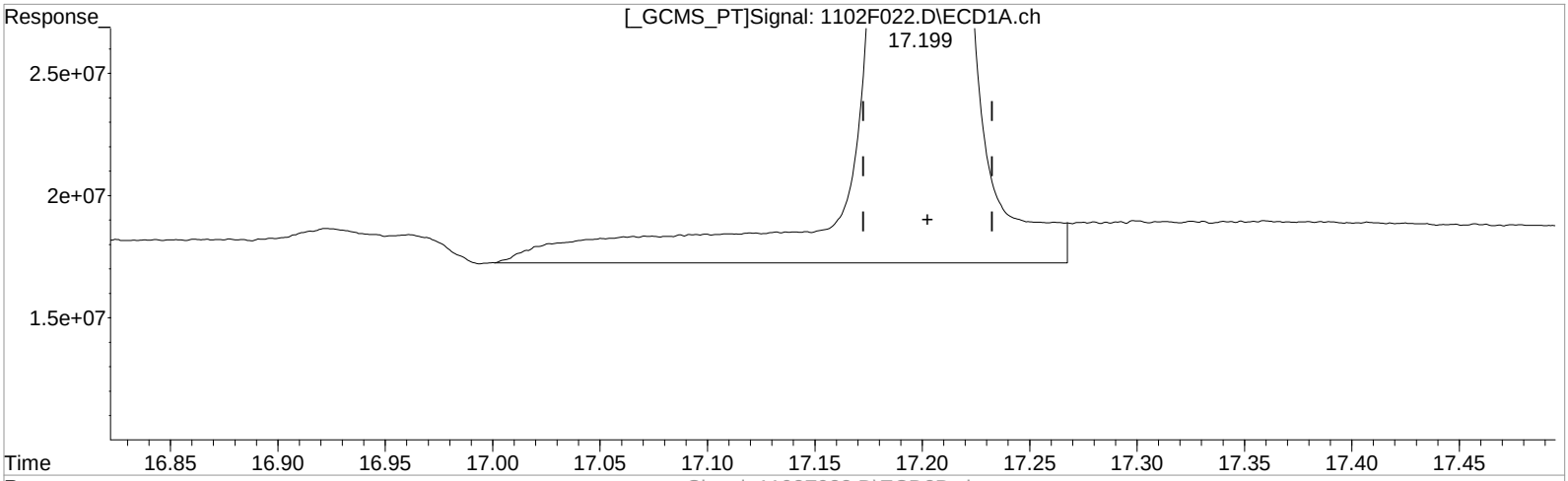
Quantitation Report (Qedit)

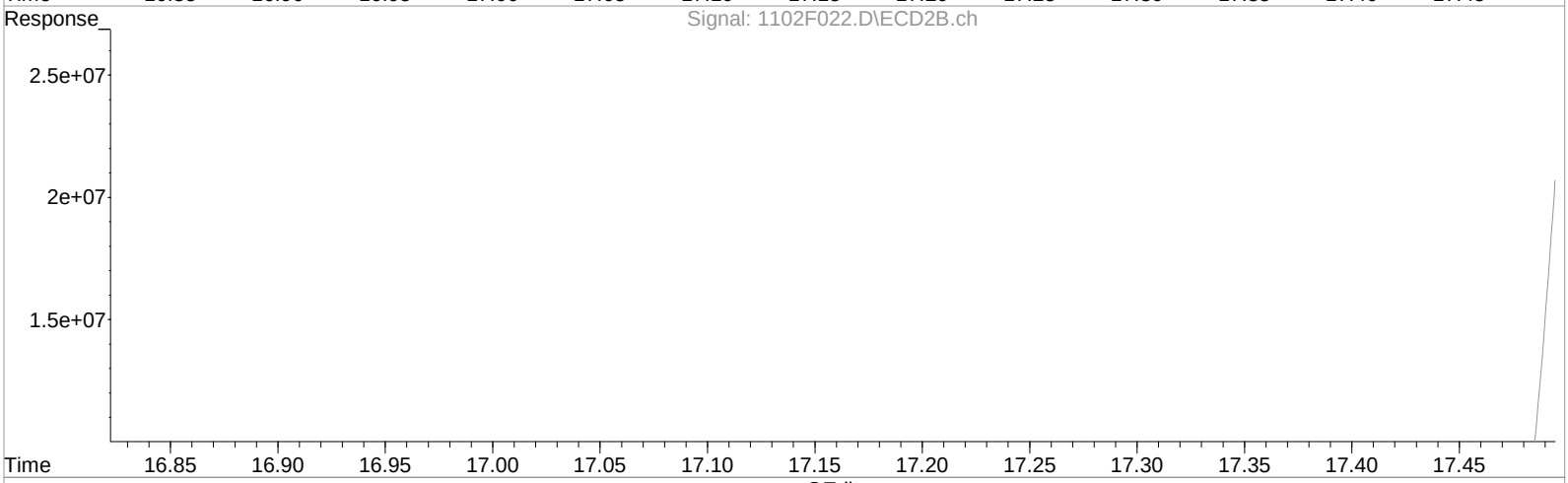
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F022.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:01 am Operator:
Sample : KQ2317362-02 LCS 608 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 08:46:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.199min 37.426 ug/L

response 147895825

Manual Integration:

Before

11/07/23

(25) Decachlorobiphenyl #2 (S)

17.503min 49.577 ug/L

response 41949441

(+) = Expected Retention Time

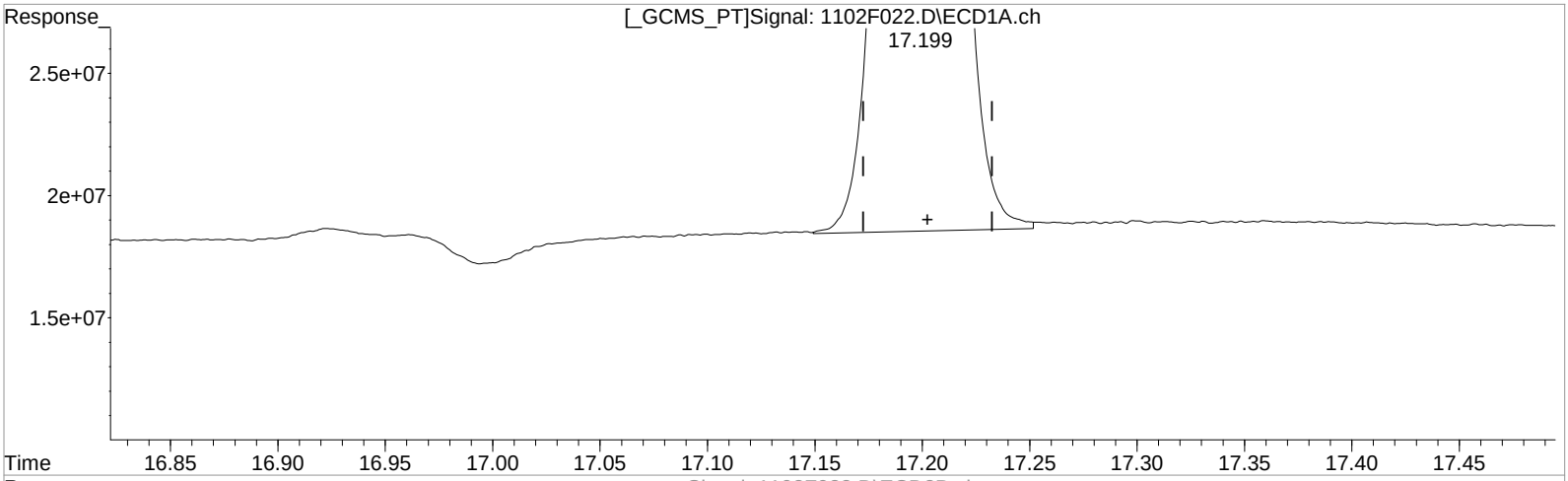
Quantitation Report (Qedit)

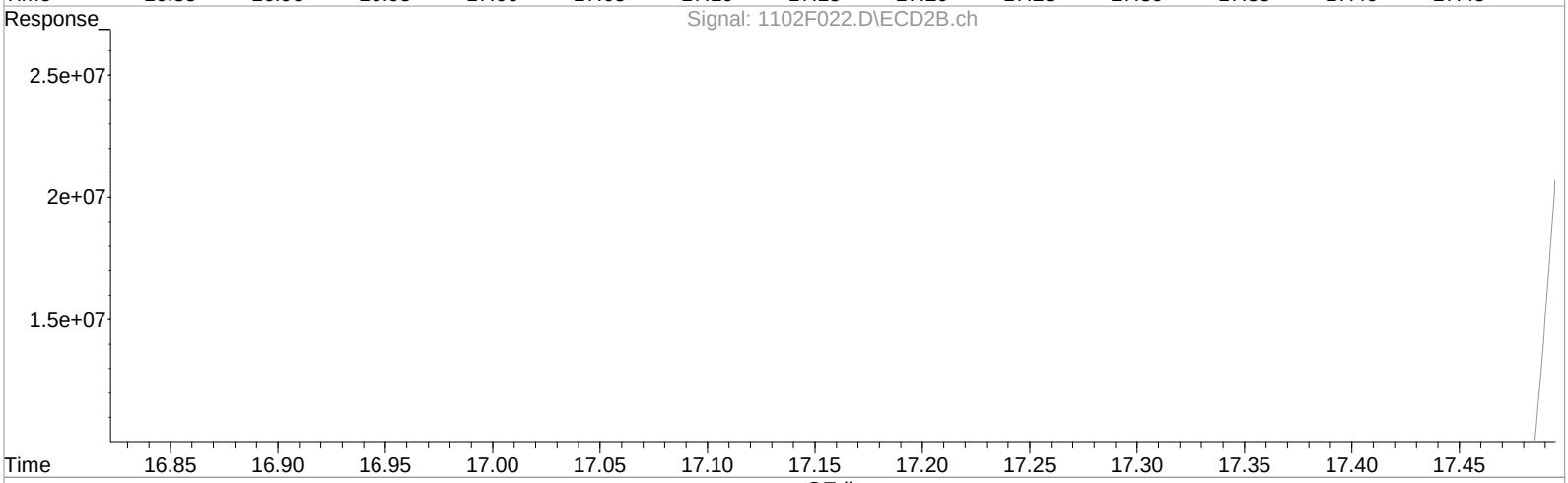
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F022.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:01 am Operator:
Sample : KQ2317362-02 LCS 608 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 08:46:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.199min 32.800 ug/L m

response 129617132

Manual Integration:

After

Baseline/Shoulder

11/07/23

(25) Decachlorobiphenyl #2 (S)

17.503min 49.577 ug/L

response 41949441

(+) = Expected Retention Time

1st BB 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F024.D\
Lab ID: KQ2317362-04
RunType: LCS
Matrix: Water

Date Acquired: 11/3/23 02:50:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - RTX-CLP	alpha-BHC	126	69	125	Rpt
	beta-BHC	162	75	125	
	4,4'-DDT	127	75	125	
	Endrin	132	5	125	
	Heptachlor	138	75	125	
Continuing Calibration Recovery - RTX-CLP2	Aldrin	130	75	125	
	alpha-BHC	144	69	125	
	beta-BHC	162	75	125	
	delta-BHC	134	75	125	
	gamma-BHC (Lindane)	159	75	125	
	4,4'-DDD	146	75	125	
	4,4'-DDE	145	75	125	
	4,4'-DDT	131	75	125	
	Dieldrin	137	48	125	
	Endosulfan I	136	75	125	
	Endosulfan II	146	75	125	
	Endosulfan Sulfate	129	70	125	
	Endrin	161	5	125	
	Endrin Aldehyde	137	75	125	
	Heptachlor	133	75	125	
	Heptachlor Epoxide	134	75	125	
	Decachlorobiphenyl	155	75	125	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.91			SA
	Pentachloronitrobenzene {2}	10.91			
	Pentachloronitrobenzene {3}	10.91			
	Pentachloronitrobenzene{4}	10.91			
	Pentachloronitrobenzene{5}	10.91			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
	Pentachloronitrobenzene {2}	10.77			SA
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F024.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 02:50:00	**Vial:**	2
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317362-04	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	821752	**Prep Lot:**	427536	**Report Group:**	KQ2317362
Analysis Method:	608.3	**Prep Method:**	EPA 3520C		
		Prep Date:	10/3/23		

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
Pentachloronitrobenzene (PCNB)	10.91	c	10.77 -0.01 c	324456545	83610928	50.000	50.000
Pentachloronitrobenzene {2}	10.91	c	10.77 -0.01 c	324456545	83610928	50.000	50.000
Pentachloronitrobenzene {3}	10.91	c	10.77 -0.01 c	324456545	83610928	50.000	50.000
Pentachloronitrobenzene {4}	10.91	c	10.77 -0.01 c	324456545	83610928	50.000	50.000
Pentachloronitrobenzene {5}	10.91	c	10.77 -0.01 c	324456545	83610928	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1		RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
Decachlorobiphenyl	17.20		17.50	157447479	42590339	38.424	47.086 CCV	48	59	48	10 - 134	Y
Tetrachloro-m-xylene	8.81	-0.01	8.72	129618966	73330659	37.223	39.965	47	50	47	10 - 134	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00049 U	Y
Aroclor 1016					711.530	137.910	1.42	0.276	~~1.42~~ 0.276 rbm 11/10/23 1	Y
Aroclor 1221					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1232					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1242					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1248					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1254					0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1260					113.020	96.430	0.226	0.193	~~0.226~~ .193 rbm 11/10/23	Y
Aroclor 1016 {1}	11.18	11.07	34657879	4232074	1272.308	227.384	2.54E	0.455	i	
Aroclor 1016 {2}	11.27	11.13	9792914	1347687	107.527	26.310	0.215	0.0526	i	
Aroclor 1016 {3}	11.33	11.29	72619870	1898581	625.514	160.035	1.25	0.320	i	
Aroclor 1016 {4}	11.48	0.00	67457743	0	840.781	0.000	1.68	0		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F024.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 02:50:00	**Vial:**	2
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317362-04	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {5}										
Aroclor 1260 {1}	14.95	0.00	12853314	0	115.628	0.000	0.231	0		
Aroclor 1260 {2}	15.00	15.27	5094944	2845786	90.681	87.596	0.181	0.175		
Aroclor 1260 {3}	15.07	15.32	3858532	2084620	118.908	105.254	0.238	0.211		
Aroclor 1260 {4}	15.26	0.00	3697902	0	126.866	0.000	0.254	0		
alpha-BHC	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.00051 U	Y
beta-BHC	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.042 U	Y
delta-BHC	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00046 U	Y
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00067 U	Y
Chlordane					0.000	0.000	0U	0U	0.029 U	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00050 U	Y
4,4'-DDE	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00074 U	Y
4,4'-DDT	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.00077 U	Y
Dieldrin	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00052 U	Y
Endosulfan I	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.0032 U	Y
Endosulfan II	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00088 U	Y
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00036 U	Y
Endrin	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.00053 U	Y
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.0051 U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
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#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F024.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 02:50:00	**Vial:**	2
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317362-04	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.00051 U	Y
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.0022 U	Y
Toxaphene					0.000	0.000	0U	0U	0.056 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/9/23 15:58
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Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F024.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:50 am Operator:
Sample : KQ2317362-04 LCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 11:30:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	10.906	10.772	324.5E6	83610928	50.000	50.000	
26)	I	Pentachlo...	10.906	10.772	324.5E6	83610928	50.000	50.000	
34)	I	Pentachlo...	10.906	10.772	324.5E6	83610928	50.000	50.000	
51)	I	Pentachlo...	10.906	10.772	324.5E6	83610928	50.000	50.000	
60)	I	Pentachlo...	10.906	10.772	324.5E6	83610928	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.810	8.716	129.6E6	73330659	37.223	39.965	
25)	S	Decachlor...	17.198	17.505	157.4E6	42590339	38.424	47.086	
		Target Compounds							
35)	L3	Aroclor 1016	11.182	11.068	34657879	4232074	1272.308m	227.384	#
36)	L3	Aroclor 1...	11.273	11.134f	9792914	1347687	107.527	26.310	#
37)	L3	Aroclor 1...	11.327f	11.293	72619870	1898581	625.514	160.035	#
38)	L3	Aroclor 1...	11.478f	0.000	67457743	0	840.781m	N.D.	#
39)	L4	Aroclor 1260	14.948f	0.000	12853314	0	115.628	N.D.	#
40)	L4	Aroclor 1...	15.003f	15.268f	5094944	2845786	90.681	87.596	
41)	L4	Aroclor 1...	15.065f	15.315	3858532	2084620	118.908	105.254	
42)	L4	Aroclor 1...	15.257	0.000	3697902	0	126.866	N.D.	#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

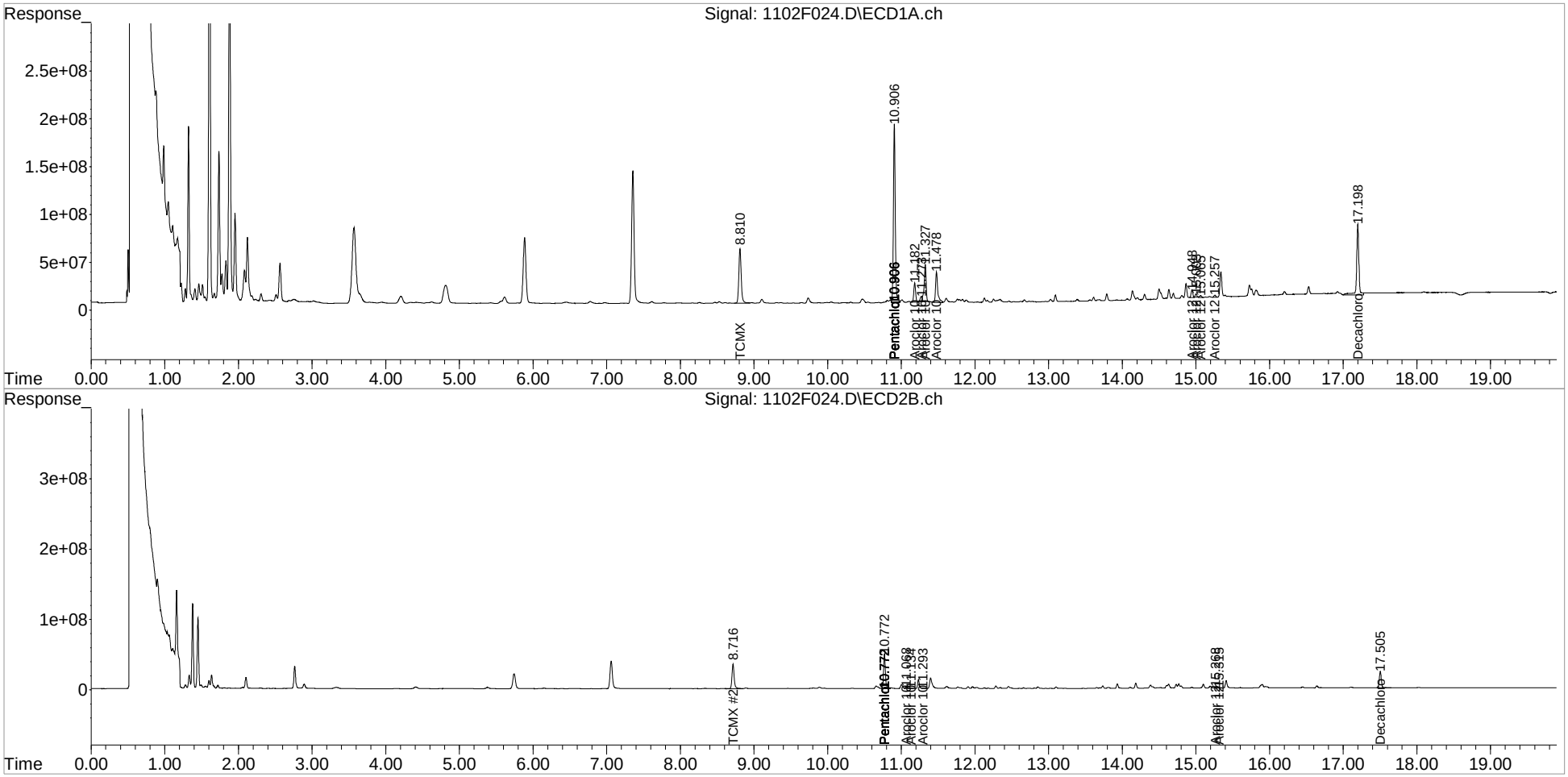
1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F024.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:50 am Operator:
Sample : KQ2317362-04 LCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 11:30:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



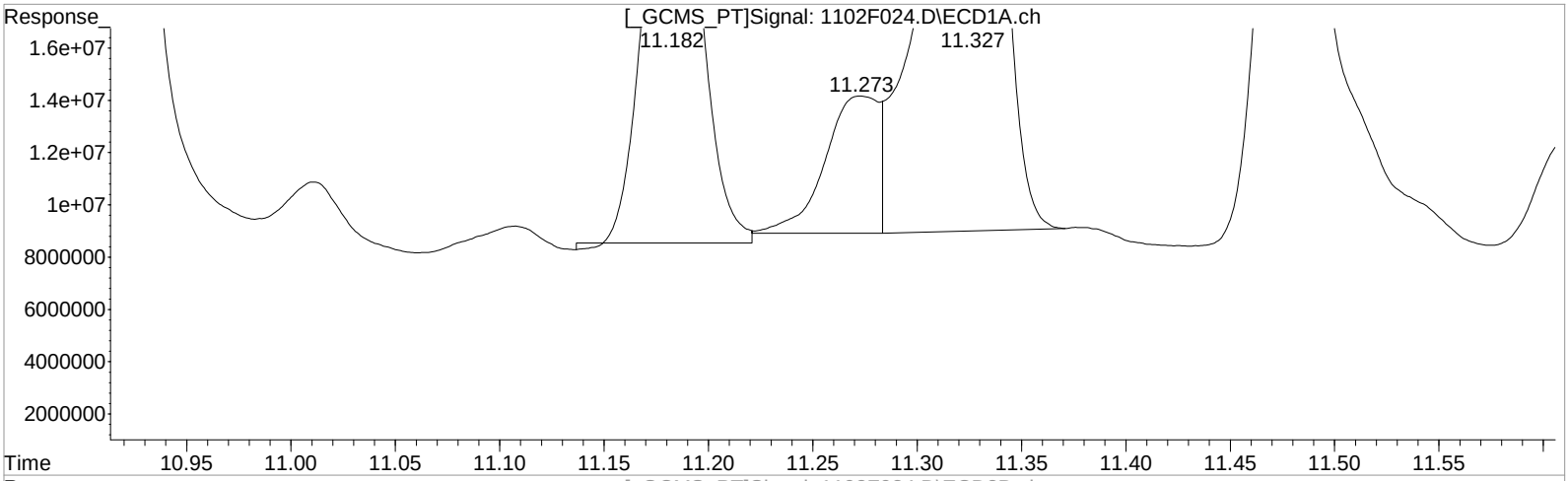
Quantitation Report (Qedit)

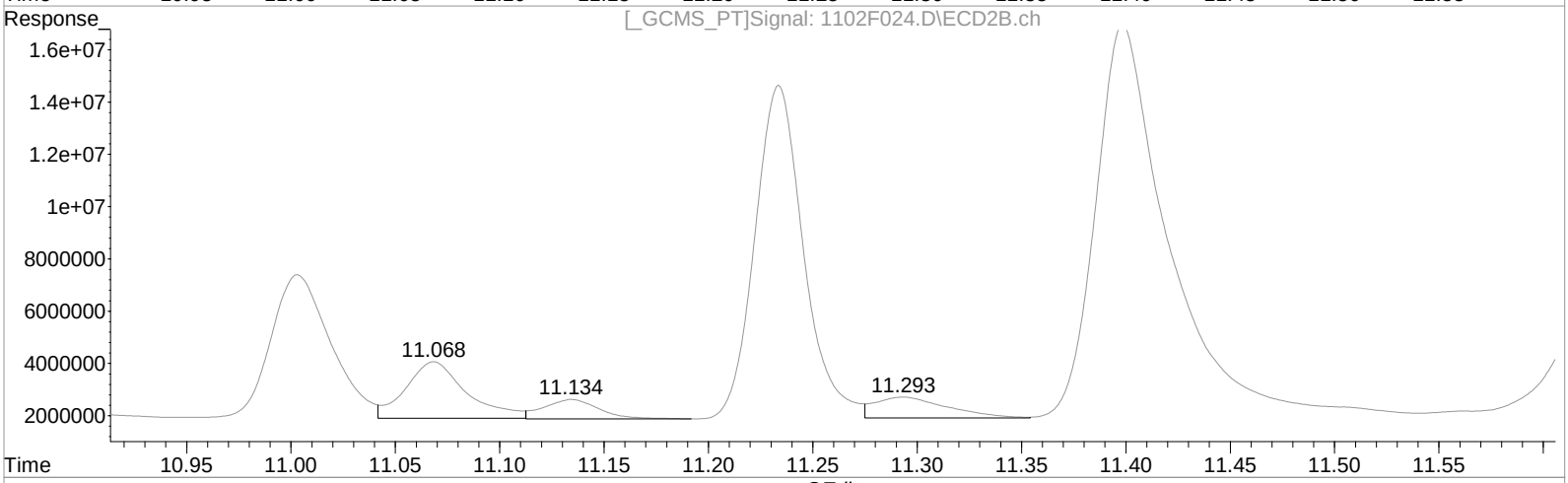
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F024.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:50 am Operator:
Sample : KQ2317362-04 LCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 09:48:18 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(35) Aroclor 1016 #2 (L3)

10.906min 50.000 ug/L

response 324456545

Manual Integration:

Before

11/07/23

(35) Aroclor 1016 #2 (L3)

10.772min 50.000 ug/L

response 83610928

(+) = Expected Retention Time

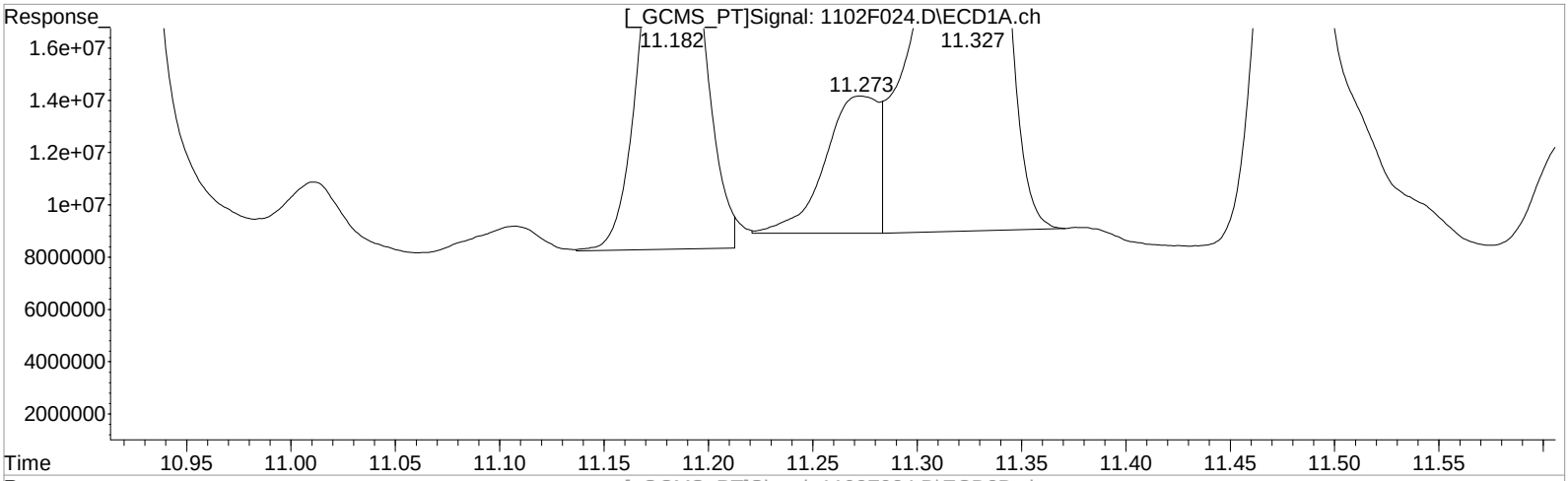
Quantitation Report (Qedit)

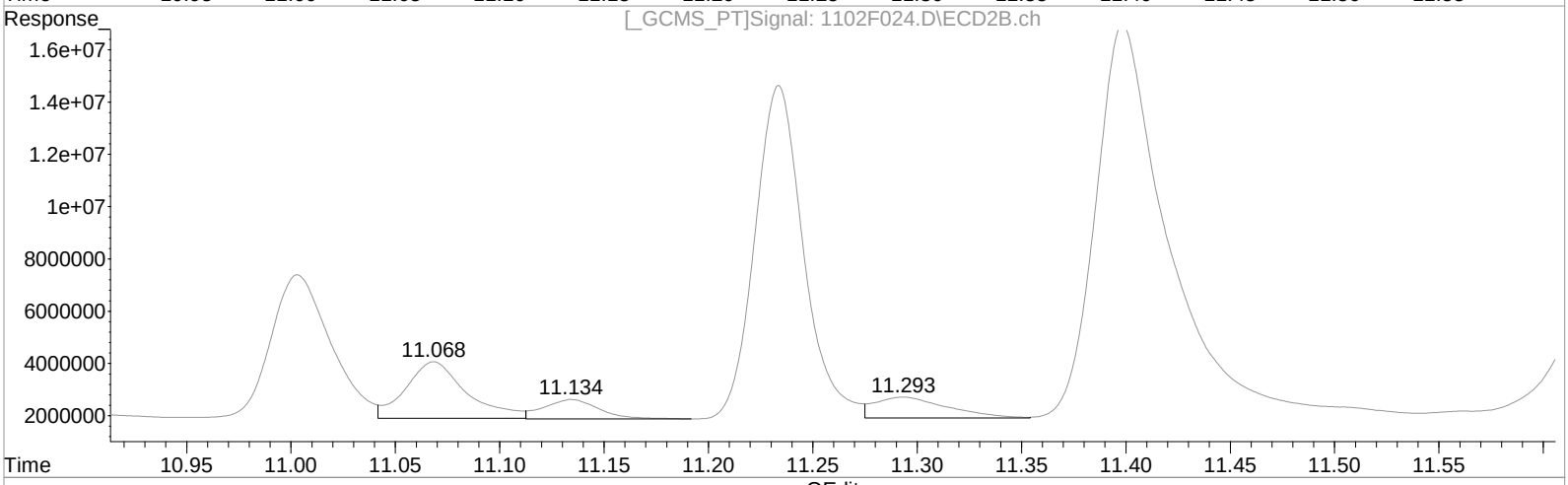
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F024.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:50 am Operator:
Sample : KQ2317362-04 LCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 09:48:18 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(35) Aroclor 1016 #2 (L3)

10.906min 50.000 ug/L

response 324456545

Manual Integration:

After

Baseline/Shoulder

11/07/23

(35) Aroclor 1016 #2 (L3)

10.772min 50.000 ug/L

response 83610928

(+) = Expected Retention Time

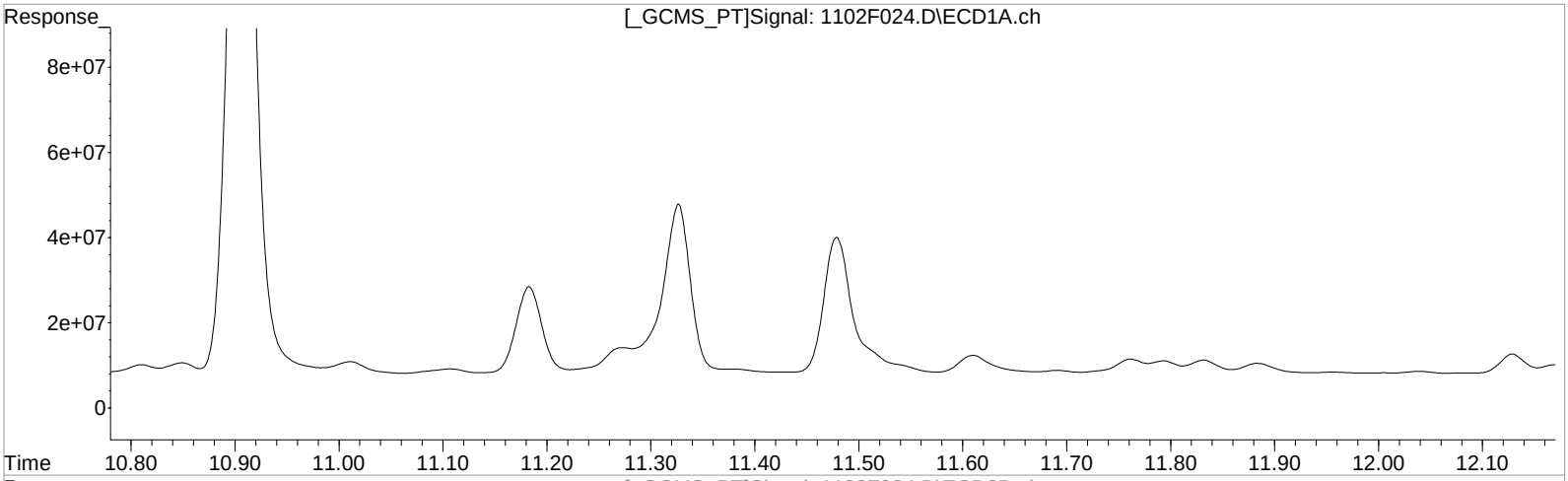
Quantitation Report (Qedit)

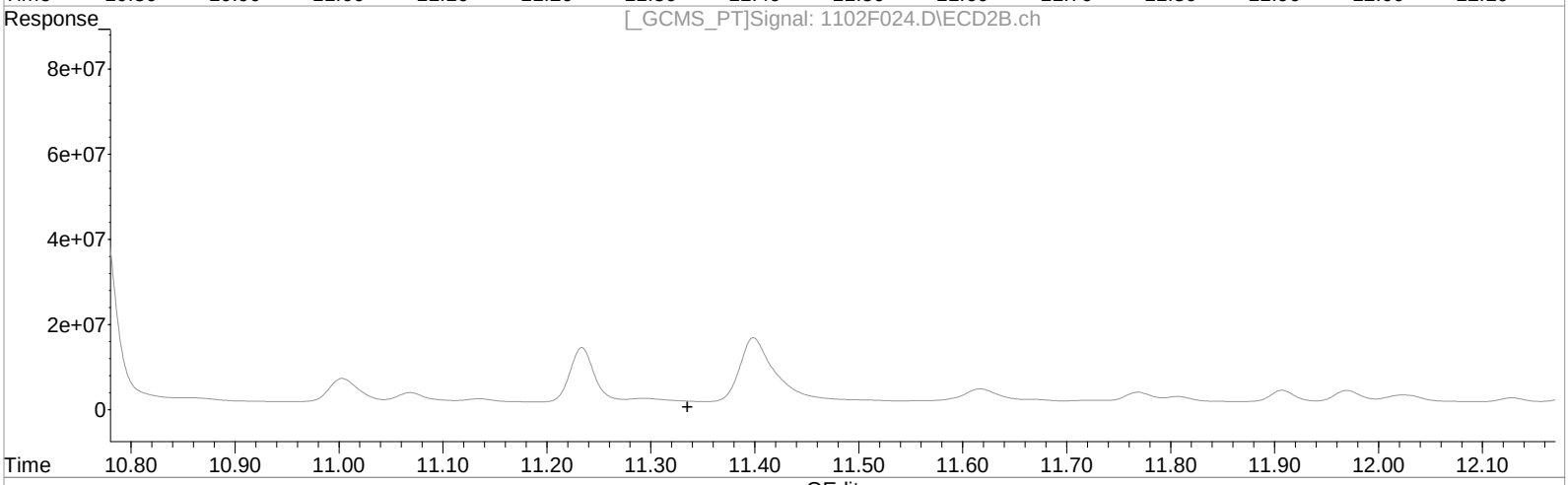
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F024.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:50 am Operator:
Sample : KQ2317362-04 LCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 11:28:10 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(38) Aroclor 1016 {4} #2 (L3)

10.906min 50.000 ug/L

response 324456545

Manual Integration:

Before

11/07/23

(38) Aroclor 1016 {4} #2 (L3)

10.772min 50.000 ug/L

response 83610928

(+) = Expected Retention Time

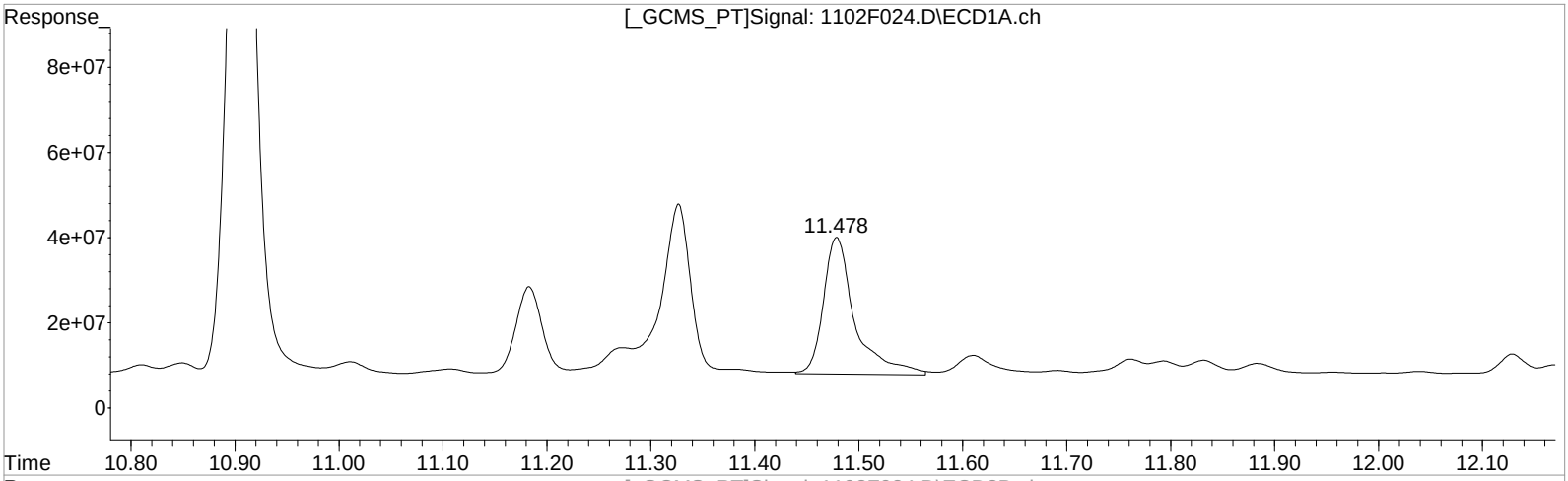
Quantitation Report (Qedit)

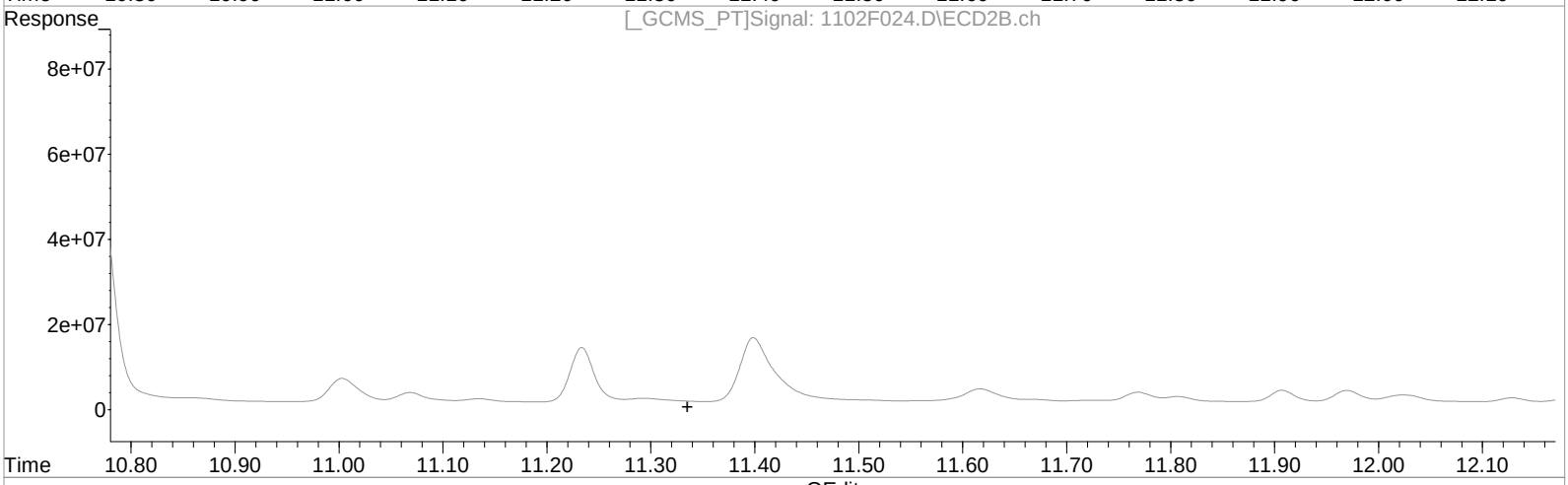
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F024.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:50 am Operator:
Sample : KQ2317362-04 LCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 11:28:10 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(38) Aroclor 1016 {4} #2 (L3)

10.906min 50.000 ug/L

response 324456545

Manual Integration:

After

Missed Peak

11/07/23

(38) Aroclor 1016 {4} #2 (L3)

10.772min 50.000 ug/L

response 83610928

(+) = Expected Retention Time

1st B B 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F023.D\
Lab ID: KQ2317362-03
RunType: DLCS
Matrix: Water

Date Acquired: 11/3/23 02:25:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - RTX-CLP	alpha-BHC	126	69	125	Rpt
	beta-BHC	162	75	125	
	4,4'-DDT	127	75	125	
	Endrin	132	5	125	
	Heptachlor	138	75	125	
Continuing Calibration Recovery - RTX-CLP2	Aldrin	130	75	125	
	alpha-BHC	144	69	125	
	beta-BHC	162	75	125	
	delta-BHC	134	75	125	
	gamma-BHC (Lindane)	159	75	125	
	4,4'-DDD	146	75	125	
	4,4'-DDE	145	75	125	
	4,4'-DDT	131	75	125	
	Dieldrin	137	48	125	
	Endosulfan I	136	75	125	
	Endosulfan II	146	75	125	
	Endosulfan Sulfate	129	70	125	
	Endrin	161	5	125	
	Endrin Aldehyde	137	75	125	
	Heptachlor	133	75	125	
	Heptachlor Epoxide	134	75	125	
	Decachlorobiphenyl	155	75	125	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.91			SA
	Pentachloronitrobenzene {2}	10.91			
	Pentachloronitrobenzene {3}	10.91			
	Pentachloronitrobenzene{4}	10.91			
	Pentachloronitrobenzene{5}	10.91			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
	Pentachloronitrobenzene {2}	10.77			SA
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F023.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 02:25:00	**Vial:**	4
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317362-03	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	821752	**Prep Lot:**	427536	**Report Group:**	KQ2317362
Analysis Method:	608.3	**Prep Method:**	EPA 3520C		
		Prep Date:	10/3/23		

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
Pentachloronitrobenzene (PCNB)	10.91	c	10.77	-0.01c	319650352	79608269	50.000	50.000
Pentachloronitrobenzene {2}	10.91	c	10.77	-0.01c	319650352	79608269	50.000	50.000
Pentachloronitrobenzene {3}	10.91	c	10.77	-0.01c	319650352	79608269	50.000	50.000
Pentachloronitrobenzene {4}	10.91	c	10.77	-0.01c	319650352	79608269	50.000	50.000
Pentachloronitrobenzene {5}	10.91	c	10.77	-0.01c	319650352	79608269	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria		Rpt?
Decachlorobiphenyl	17.20		17.50		131086266	43743936	32.472	50.885CCV	41	64	41	10 - 134	P	Y
Tetrachloro-m-xylene	8.81	-0.01	8.71	-0.01	129920326	74324446	37.871	42.543	47	53	47	10 - 134		Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	12.06	12.02	-0.01	177106940	54666717	27.041	29.451CCV	0.0541	0.0589	**0.0541**	Y
Aroclor 1016						0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1221						0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1232						0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1242						0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1248						0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1254						0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1260						0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1016 {1}	0.00	0.00		0	0	0.000	0.000	0	0		
Aroclor 1016 {2}	0.00	0.00		0	0	0.000	0.000	0	0		
Aroclor 1016 {3}	0.00	0.00		0	0	0.000	0.000	0	0		
Aroclor 1016 {4}	0.00	0.00		0	0	0.000	0.000	0	0		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23

2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F023.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 02:25:00	**Vial:**	4
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317362-03	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {5}										
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
alpha-BHC	10.13 -0.01	10.15	248069288	76770325	31.547 CCV	35.931 CCV	0.0631	0.0719	**0.0631**	Y
beta-BHC	10.95 -0.01	11.01	79419105	34248160	40.789 CCV	43.909 CCV	0.0816	0.0878	**0.0816**	Y
delta-BHC	11.25 -0.01	11.48	219549667	62212981	31.669	35.434 CCV	0.0633	0.0709	**0.0633**	Y
gamma-BHC (Lindane)	10.77	10.83	222530189	73264816	30.599	37.069 CCV	0.0612	0.0741	**0.0612**	Y
Chlordane					0.000	0.000	0U	0U	0.029 U	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	14.18 -0.01	14.24 -0.01	93969910	37199885	31.274	36.979 CCV	0.0625	0.0740	**0.0625**	Y
4,4'-DDE	13.41	13.52 -0.01	130702686	46662270	30.988	36.302 CCV	0.0620	0.0726	**0.0620**	Y
4,4'-DDT	14.53	14.62 -0.01	99915971	34475734	34.200 CCV	36.257 CCV	0.0684	0.0725	**0.0684**	Y
Dieldrin	13.82	13.73	145464274	49701598	29.578	33.510 CCV	0.0592	0.0670	**0.0592**	Y
Endosulfan I	13.49 -0.01	13.37	121740633	40747119	26.636	30.518 CCV	0.0533	0.0610	**0.0533**	Y
Endosulfan II	14.41	14.38	103921789	34941312	26.516	31.270 CCV	0.0530	0.0625	**0.0530**	Y
Endosulfan Sulfate	15.52 -0.01	15.14	96378603	31251561	28.199	32.584 CCV	0.0564	0.0652	**0.0564**	Y
Endrin	14.12 -0.01	14.12	132261706	45911432	34.082 CCV	40.761 CCV	0.0682	0.0815	**0.0682**	Y
Endrin Aldehyde	14.94 -0.01	14.80	71696184	27187737	24.133	31.651 CCV	0.0483	0.0633	**0.0483**	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st B B 11/07/23
2nd A A 11/07/23

Data File:	J:\GC33\DATA\110223\1102F023.D\	**Instrument:**	K-GC-33
Acqu Date:	11/3/23 02:25:00	**Vial:**	4
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317362-03	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor	11.58 -0.01	11.54	192834778	52330432	32.289CCV	30.978CCV	0.0646	0.0620	**0.0620**	Y
Heptachlor Epoxide	12.95 -0.01	12.85	159269639	51978081	29.980	34.002CCV	0.0600	0.0680	**0.0600**	Y
Toxaphene					0.000	0.000	0U	0U	0.056 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F023.D Vial: 24
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:25 am Operator:
Sample : KQ2317362-03 DLCS 608 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 09:44:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	10.906	10.773	319.7E6	79608269	50.000	50.000	
26)	I	Pentachlo...	10.906	10.773	319.7E6	79608269	50.000	50.000	
34)	I	Pentachlo...	10.906	10.773	319.7E6	79608269	50.000	50.000	
51)	I	Pentachlo...	10.906	10.773	319.7E6	79608269	50.000	50.000	
60)	I	Pentachlo...	10.906	10.773	319.7E6	79608269	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.811	8.714	129.9E6	74324446	37.871	42.543	
25)	S	Decachlor...	17.198	17.504	131.1E6	43743936	32.472	50.885	#
		Target Compounds							
3)	m	alpha-BHC	10.133	10.148	248.1E6	76770325	31.547	35.931	
5)	m	gamma-BHC...	10.768	10.827	222.5E6	73264816	30.599	37.069	
6)	m	beta-BHC	10.949	11.007	79419105	34248160	40.789	43.909	
7)	m	delta-BHC	11.248	11.477	219.5E6	62212981	31.669	35.434	
8)	m	Heptachlor	11.584	11.540	192.8E6	52330432	32.289	30.978	
9)	m	Aldrin	12.055	12.024	177.1E6	54666717	27.041	29.451	
11)	m	Heptachlo...	12.952	12.849	159.3E6	51978081	29.980	34.002	
12)	m	beta-Chlo...	13.124	13.105	154.9E6	49577038	29.319	32.649	
13)	m	alpha-Chl...	13.307	13.299	141.4E6	47324900	28.644	32.219	
14)	m	4,4'-DDE	13.407	13.520	130.7E6	46662270	30.988	36.302	
15)	m	Endosulfan I	13.494	13.370	121.7E6	40747119	26.636	30.518	
16)	m	Dieldrin	13.815	13.728	145.5E6	49701598	29.578	33.510	
17)	m	Endrin	14.120	14.117	132.3E6	45911432	34.082	40.761	
18)	m	4,4'-DDD	14.179	14.241	93969910	37199885	31.274	36.979	
19)	m	Endosulfa...	14.410	14.381	103.9E6	34941312	26.516	31.270	
20)	m	4,4'-DDT	14.528	14.623	99915971	34475734	34.200	36.257	
21)	m	Endrin Al...	14.940	14.797	71696184	27187737	24.133	31.651	#
22)	m	Methoxychlor	15.102	15.460	47942988	19290193	33.936	45.789	#
23)	m	Endosulfa...	15.522	15.139	96378603	31251561	28.199	32.584	
24)	m	Endrin Ke...	15.913	15.862	112.6E6	41269821	29.069	40.852	#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

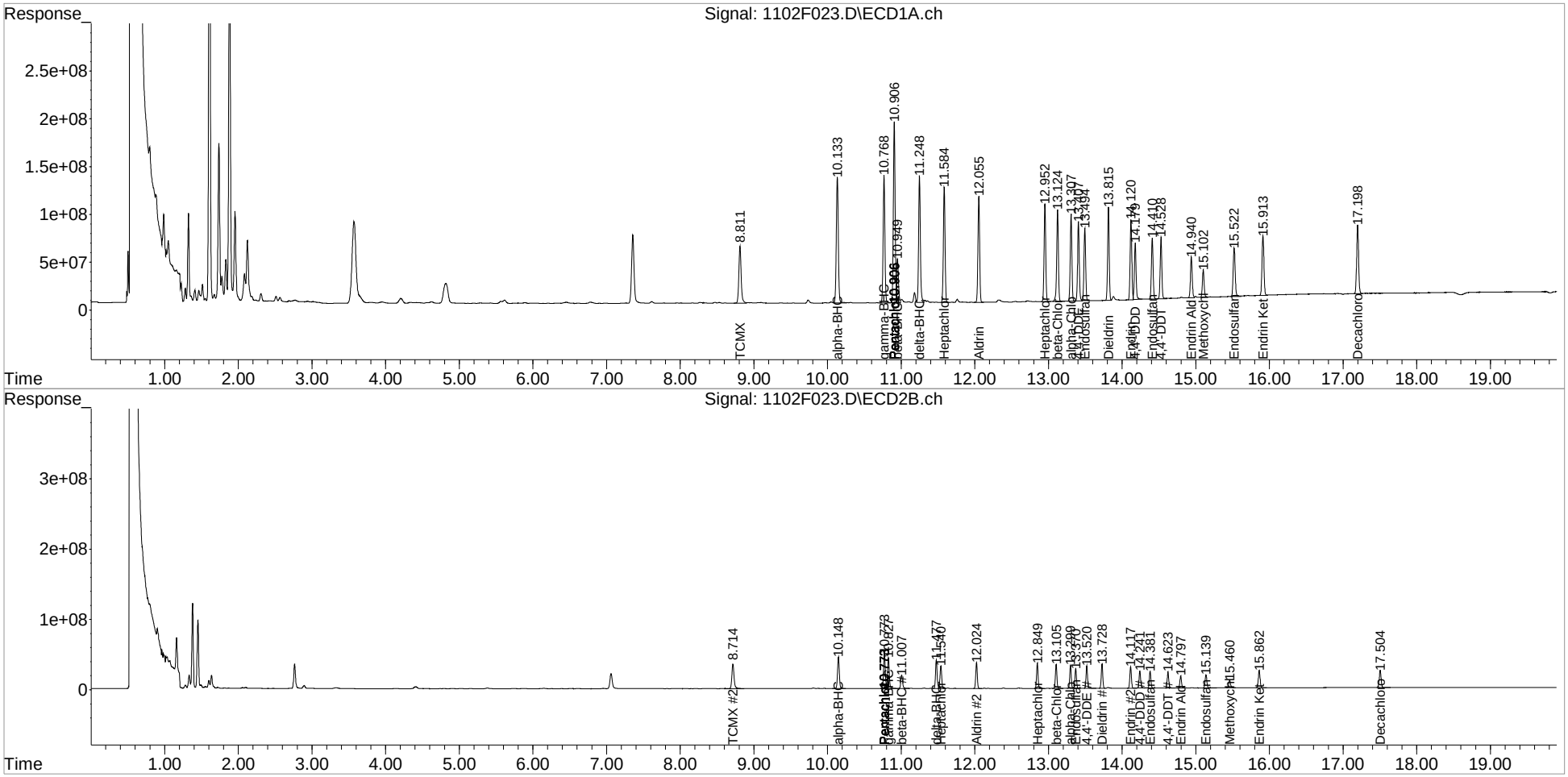
1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F023.D Vial: 24
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Nov 2023 02:25 am Operator:
Sample : KQ2317362-03 DLCS 608 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 07 09:44:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st B B 11/08/23
2nd AA 11/08/23

Validation Report

Data File: J:\GC33\DATA\110723\1107F009.D\
Lab ID: KQ2317362-05
RunType: DLCS
Matrix: Water

Date Acquired: 11/7/23 12:44:00
Batch ID: 823308
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - RTX-CLP	beta-BHC	128	75	125	RO
Continuing Calibration Recovery - RTX-CLP2	Aroclor 1016	167	75	125	NR
	Aroclor 1260	146	75	125	
	alpha-BHC	133	69	125	
	beta-BHC	140	75	125	
	delta-BHC	129	75	125	
	gamma-BHC (Lindane)	135	75	125	
	4,4'-DDD	134	75	125	
	4,4'-DDE	136	75	125	
	Endosulfan II	129	75	125	
	Endrin	144	5	125	
	Decachlorobiphenyl	130	75	125	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.89			SA
	Pentachloronitrobenzene {2}	10.89			
	Pentachloronitrobenzene {3}	10.89			
	Pentachloronitrobenzene{4}	10.89			
	Pentachloronitrobenzene{5}	10.89			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			
	Pentachloronitrobenzene {2}	10.77			
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

Secondary Review: _____

1st BB 11/09/23
2nd AA 11/09/23

Quantitation Report

Data File:	J:\GC33\DATA\110723\1107F009.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 12:44:00	**Vial:**	1
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317362-05	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	823308	**Prep Lot:**	427536	**Report Group:**	KQ2317362
Analysis Method:	608.3	**Prep Method:**	EPA 3520C		
		Prep Date:	10/3/23		

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
Pentachloronitrobenzene (PCNB)	10.89	-0.01	10.77	c	479567652	93475621	50.000	50.000
Pentachloronitrobenzene {2}	10.89	-0.01	10.77	c	479567652	93475621	50.000	50.000
Pentachloronitrobenzene {3}	10.89	-0.01	10.77	c	479567652	93475621	50.000	50.000
Pentachloronitrobenzene {4}	10.89	-0.01	10.77	c	479567652	93475621	50.000	50.000
Pentachloronitrobenzene {5}	10.89	-0.01	10.77	c	479567652	93475621	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1		RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria		Rpt?
Decachlorobiphenyl	17.17	-0.01	17.50	175041243	47876753	28.901	47.351 CCV	36	59	36	10 - 134	P	Y
Tetrachloro-m-xylene	8.80		8.71	193444550	93747421	37.584	45.700	47	57	47	10 - 134		Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00049 U	N
Aroclor 1016					476.220	372.670 CCV	0.952	0.745	~~0.745~~ 0.952 CW 11/09/23	Y
Aroclor 1221					0.000	0.000	0U	0U	0.019 U	N
Aroclor 1232					0.000	0.000	0U	0U	0.019 U	N
Aroclor 1242					0.000	0.000	0U	0U	0.019 U	N
Aroclor 1248					0.000	0.000	0U	0U	0.019 U	N
Aroclor 1254					0.000	0.000	0U	0U	0.024 U	N
Aroclor 1260					119.340	173.020 CCV	0.239	0.346	**0.239**	N
Aroclor 1016 {1}	11.17	11.00	58024432	14952277	1442.486	814.136	2.88E	1.63	P	
Aroclor 1016 {2}	11.26	11.07	19044969	5382474	157.326	189.271	0.315	0.379		
Aroclor 1016 {3}	11.29	11.25	29199757	3098361	170.164	233.605	0.340	0.467		
Aroclor 1016 {4}	11.50	11.29	15997921	2142517	134.903	253.675	0.270	0.507	P	

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?: Insufficient information to determine acceptance
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1st BB 11/09/23
2nd AA 11/09/23

Data File:	J:\GC33\DATA\110723\1107F009.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 12:44:00	**Vial:**	1
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317362-05	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {5}										
Aroclor 1260 {1}	14.93	15.10	19612415	11173615	119.945	172.085	0.240	0.344		
Aroclor 1260 {2}	14.98	15.19	9471796	5928723	114.056	163.233	0.228	0.326		
Aroclor 1260 {3}	15.04	15.27	5673060	3444803	118.280	163.839	0.237	0.328		
Aroclor 1260 {4}	15.24	15.31	5396907	2652750	125.093	192.927	0.250	0.386		P
alpha-BHC	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00051 U	N
beta-BHC	0.00	0.00	0	0	0.000 CCV	0.000 CCV	0U	0U	0.042 U	N
delta-BHC	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00046 U	N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00067 U	N
Chlordane					0.000	0.000	0U	0U	0.029 U	N
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00050 U	N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00074 U	N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00077 U	N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00052 U	N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0032 U	N
Endosulfan II	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00088 U	N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00036 U	N
Endrin	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00053 U	N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0051 U	N

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e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/09/23

2nd AA 11/09/23

Data File:	J:\GC33\DATA\110723\1107F009.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 12:44:00	**Vial:**	1
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317362-05	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00051 U	N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0022 U	N
Toxaphene					0.000	0.000	0U	0U	0.056 U	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
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*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F009.D Vial: 30
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:44 pm Operator:
Sample : KQ2317362-05 DLCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:36:21 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	10.893	10.771	479.6E6	93475621	50.000	50.000	
26)	I	Pentachlo...	10.893f	10.771	479.6E6	93475621	50.000	50.000	
34)	I	Pentachlo...	10.893f	10.771	479.6E6	93475621	50.000	50.000	
51)	I	Pentachlo...	10.893f	10.771	479.6E6	93475621	50.000	50.000	
60)	I	Pentachlo...	10.893f	10.771	479.6E6	93475621	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.799	8.714	193.4E6	93747421	37.584	45.700	
25)	S	Decachlor...	17.174	17.502	175.0E6	47876753	28.901	47.351	#
		Target Compounds							
35)	L3	Aroclor 1016	11.169	11.001f	58024432	14952277	1442.486	814.136	#
36)	L3	Aroclor 1...	11.258	11.066	19044969	5382474	157.326	189.271	
37)	L3	Aroclor 1...	11.289	11.247	29199757	3098361	170.164	233.605	#
38)	L3	Aroclor 1...	11.498	11.291	15997921	2142517	134.903m	253.675	#
39)	L4	Aroclor 1260	14.929	15.101	19612415	11173615	119.945	172.085	#
40)	L4	Aroclor 1...	14.984	15.194	9471796	5928723	114.056	163.233	#
41)	L4	Aroclor 1...	15.043f	15.266	5673060	3444803	118.280	163.839	#
42)	L4	Aroclor 1...	15.237f	15.314	5396907	2652750	125.093	192.927	#
		SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

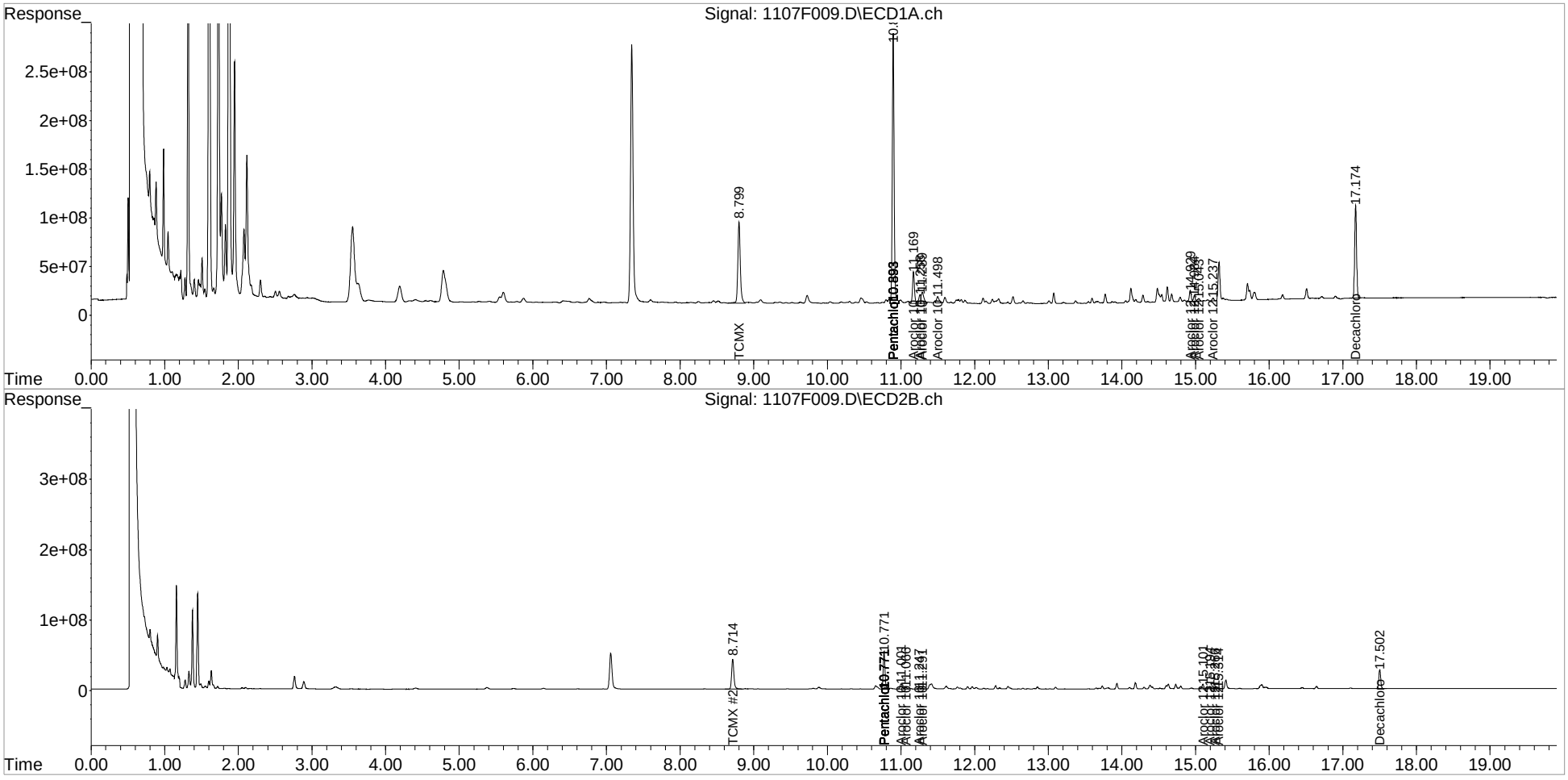
1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110723\1107F009.D Vial: 30
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:44 pm Operator:
Sample : KQ2317362-05 DLCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:36:21 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

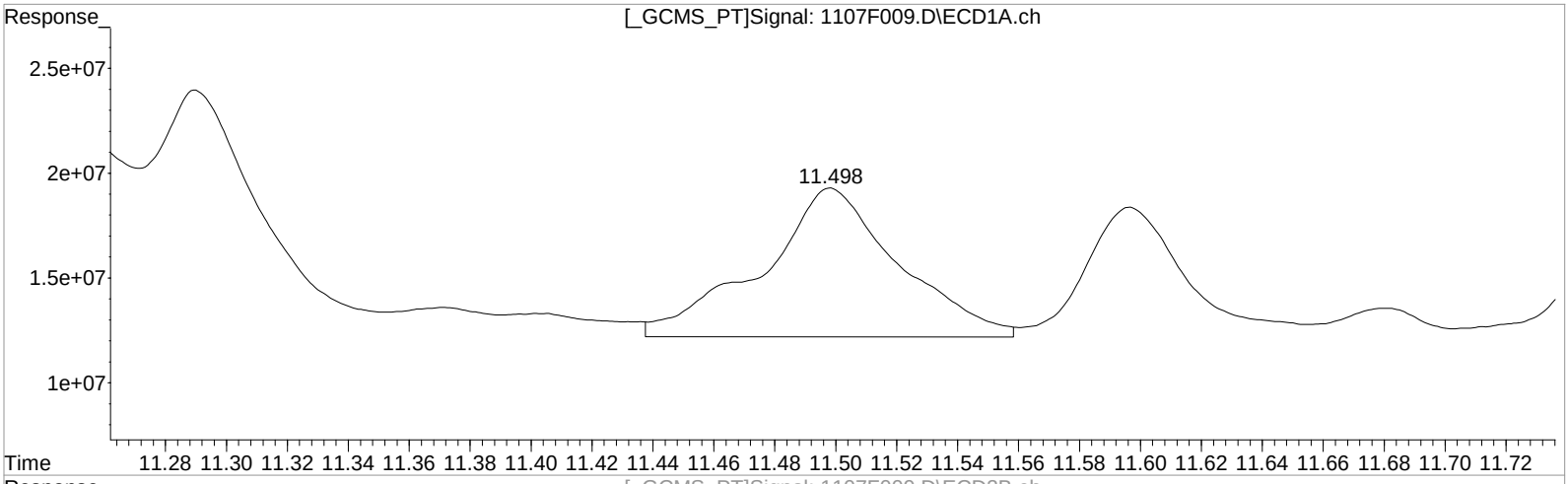


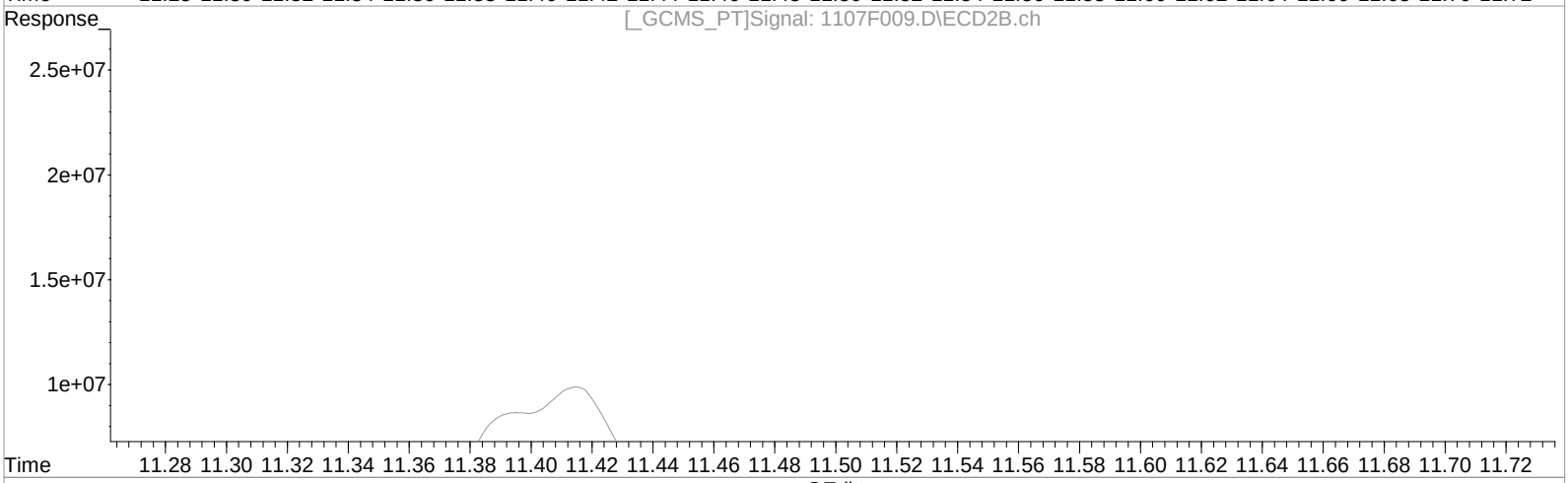
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F009.D Vial: 30
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:44 pm Operator:
Sample : KQ2317362-05 DLCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:32 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(38) Aroclor 1016 {4} #2 (L3)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

11/08/23

(38) Aroclor 1016 {4} #2 (L3)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

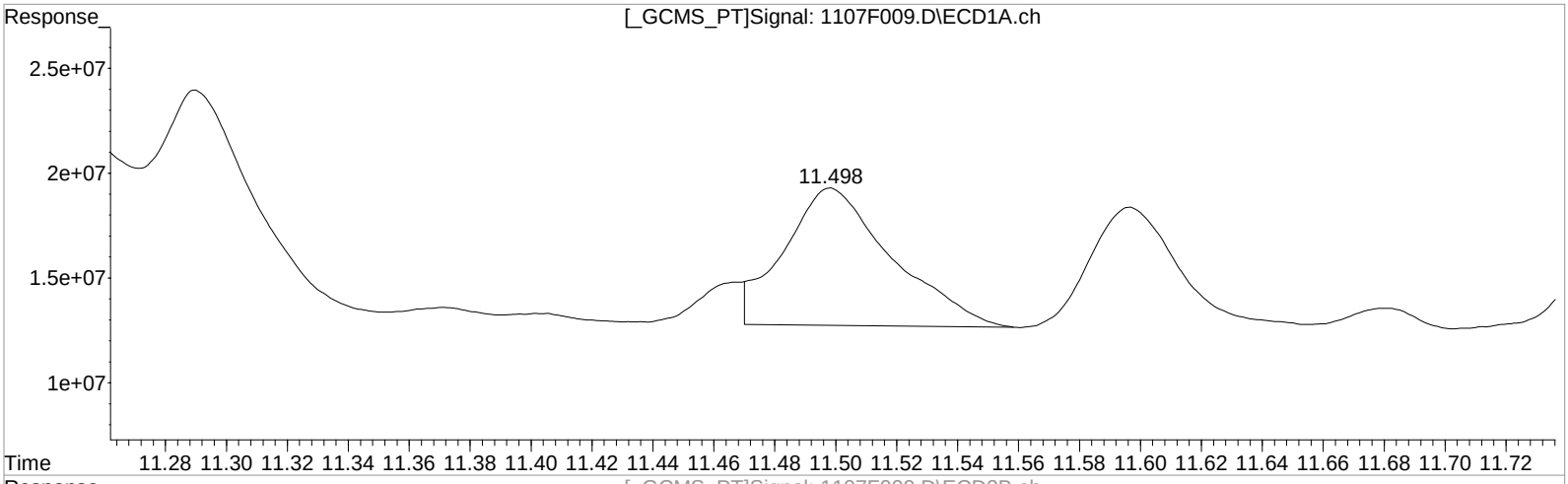
Quantitation Report (Qedit)

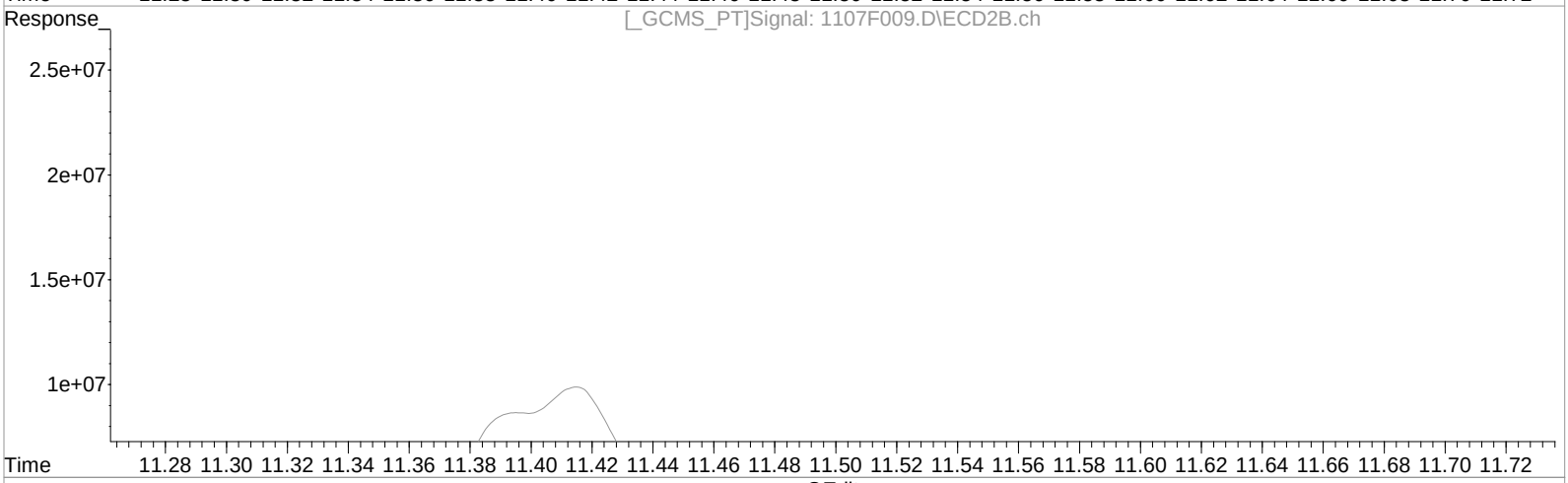
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F009.D Vial: 30
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:44 pm Operator:
Sample : KQ2317362-05 DLCS 1660 Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:32 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(38) Aroclor 1016 {4} #2 (L3)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

11/08/23

(38) Aroclor 1016 {4} #2 (L3)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

1st B B 11/03/23
2nd AA 11/06/23

Validation Report

Data File: J:\GC33\DATA\110123\1101F008.D\
Lab ID: KQ2318924-03
RunType: CCB
Matrix: Wastewater

Date Acquired: 11/1/23 15:51:00
Batch ID: 821707
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - RTX-CLP2	Endrin	130	5	125	ND
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.98			SA
	Pentachloronitrobenzene {2}	10.98			
	Pentachloronitrobenzene {3}	10.98			
	Pentachloronitrobenzene{4}	10.98			
	Pentachloronitrobenzene{5}	10.98			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.82			
	Pentachloronitrobenzene {2}	10.82			
	Pentachloronitrobenzene {3}	10.82			
	Pentachloronitrobenzene{4}	10.82			
	Pentachloronitrobenzene{5}	10.82			

Primary Review: _____

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Secondary Review: _____

1st B B 11/03/23
2nd A A 11/06/23

Quantitation Report

Data File:	J:\GC33\DATA\110123\1101F008.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 15:51:00	**Vial:**	12
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2318924-03	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	PEST_PCB	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	821707	**Prep Lot:**		**Report Group:**	KQ2318924
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.98	c	10.82	c	258314139	68119826	50.000	50.000		
Pentachloronitrobenzene {2}	10.98	c	10.82	c	258314139	68119826	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.98	c	10.82	c	258314139	68119826	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.98	c	10.82	c	258314139	68119826	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.98	c	10.82	c	258314139	68119826	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000				10 - 134	Y
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000				10 - 134	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00049 U	Y
Aroclor 1016					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1221					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1232					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1242					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1248					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1254					0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1260					0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0	0		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F008.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 15:51:00	**Vial:**	12
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2318924-03	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {5}										
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00051 U	Y
beta-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.042 U	Y
delta-BHC	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00046 U	Y
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00067 U	Y
Chlordane					0.000	0.000	0U	0U	0.029 U	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00050 U	Y
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00074 U	Y
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00077 U	Y
Dieldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00052 U	Y
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0032 U	Y
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00088 U	Y
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00036 U	Y
Endrin	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00053 U	Y
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0051 U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F008.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 15:51:00	**Vial:**	12
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2318924-03	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00051 U	Y
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0022 U	Y
Toxaphene					0.000	0.000	0U	0U	0.056 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 03:51 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:31:22 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
1) I	Pentachlo...	10.985	10.820	258.3E6	68119826	50.000	50.000
26) I	Pentachlo...	10.985	10.820	258.3E6	68119826	50.000	50.000
34) I	Pentachlo...	10.985	10.820	258.3E6	68119826	50.000	50.000
51) I	Pentachlo...	10.985	10.820	258.3E6	68119826	50.000	50.000
60) I	Pentachlo...	10.985	10.820	258.3E6	68119826	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

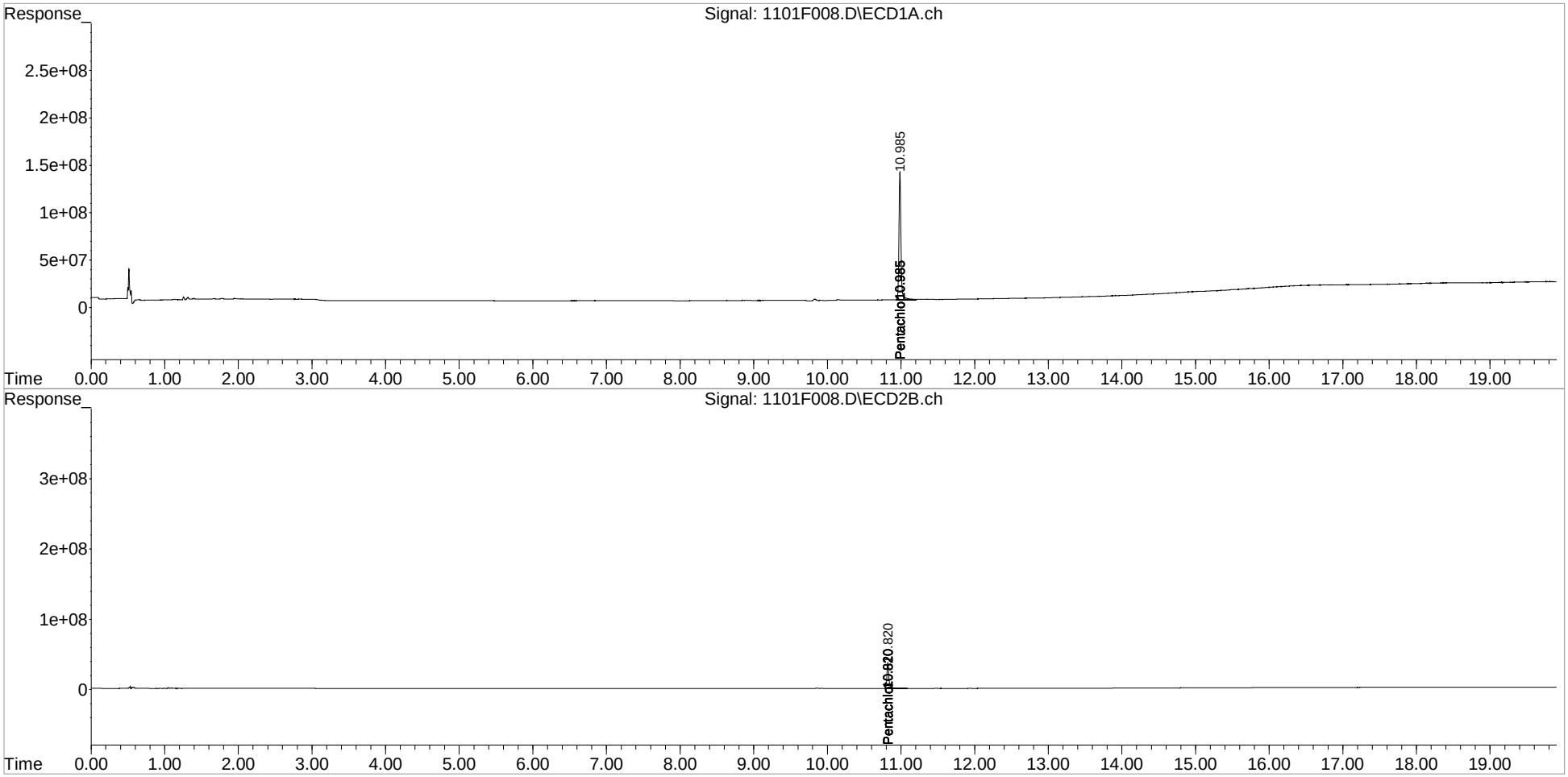
1st BB 11/03/23
2nd AA 11/06/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110123\1101F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 03:51 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:31:22 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st BB 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F011.D\
Lab ID: KQ2318956-04
RunType: CCB
Matrix: Water

Date Acquired: 11/2/23 21:31:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - RTX-CLP	alpha-BHC	126	69	125	CCV+ND
	beta-BHC	162	75	125	
	4,4'-DDT	127	75	125	
	Endrin	132	5	125	
	Heptachlor	138	75	125	
Continuing Calibration Recovery - RTX-CLP2	Aldrin	130	75	125	
	alpha-BHC	144	69	125	
	beta-BHC	162	75	125	
	delta-BHC	134	75	125	
	gamma-BHC (Lindane)	159	75	125	
	4,4'-DDD	146	75	125	
	4,4'-DDE	145	75	125	
	4,4'-DDT	131	75	125	
	Dieldrin	137	48	125	
	Endosulfan I	136	75	125	
	Endosulfan II	146	75	125	
	Endosulfan Sulfate	129	70	125	
	Endrin	161	5	125	
	Endrin Aldehyde	137	75	125	
	Heptachlor	133	75	125	
	Heptachlor Epoxide	134	75	125	
	Decachlorobiphenyl	155	75	125	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.92			SA
	Pentachloronitrobenzene {2}	10.92			
	Pentachloronitrobenzene {3}	10.92			
	Pentachloronitrobenzene{4}	10.92			
	Pentachloronitrobenzene{5}	10.92			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.78			
	Pentachloronitrobenzene {2}	10.78			
	Pentachloronitrobenzene {3}	10.78			

Primary Review: _____

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Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
	Pentachloronitrobenzene{4}	10.78			SA
	Pentachloronitrobenzene{5}	10.78			SA

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F011.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 21:31:00	**Vial:**	5
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2318956-04	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821752	**Prep Lot:**		**Report Group:**	KQ2318956
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1	RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.92 +0.0	10.78	c	272867506	68932064	50.000	50.000		
Pentachloronitrobenzene {2}	10.92 +0.0	10.78	c	272867506	68932064	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.92 +0.0	10.78	c	272867506	68932064	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.92 +0.0	10.78	c	272867506	68932064	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.92 +0.0	10.78	c	272867506	68932064	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000 CCV				10 - 134	Y
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000				10 - 134	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000 CCV	0U	0U	0.00049 U	Y
Aroclor 1016					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1221					47.430	0.000	0.095J	0U	0.019 U	Y
Aroclor 1232					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1242					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1248					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1254					19.580	0.000	0.039J	0U	0.024 U	Y
Aroclor 1260					0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0	0		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F011.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 21:31:00	**Vial:**	5
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2318956-04	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {3}	9.76	0.00	4901017	0	47.434	0.000	0.095	0		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {1}	12.22	0.00	255137	0	19.582	0.000	0.039	0		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {5}										
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
alpha-BHC	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.00051 U	Y
beta-BHC	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.042 U	Y
delta-BHC	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00046 U	Y
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00067 U	Y
Chlordane					0.000	0.000	0U	0U	0.029 U	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00050 U	Y
4,4'-DDE	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00074 U	Y
4,4'-DDT	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.00077 U	Y
Dieldrin	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00052 U	Y
Endosulfan I	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.0032 U	Y
Endosulfan II	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00088 U	Y
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.00036 U	Y
Endrin	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.00053 U	Y
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.0051 U	Y

U: Undetected at or above MDL
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E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F011.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 21:31:00	**Vial:**	5
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2318956-04	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	0.00051 U	Y
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000[CCV]	0U	0U	0.0022 U	Y
Toxaphene					0.000	0.000	0U	0U	0.056 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F011.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 09:31 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 08:44:51 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.916	10.779	272.9E6	68932064	50.000	50.000	
26)	I Pentachlo...	10.916	10.779	272.9E6	68932064	50.000	50.000	
34)	I Pentachlo...	10.916	10.779	272.9E6	68932064	50.000	50.000	
51)	I Pentachlo...	10.916	10.779	272.9E6	68932064	50.000	50.000	
60)	I Pentachlo...	10.916	10.779	272.9E6	68932064	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
45)	L5 Aroclor 1...	9.759	0.000	4901017	0	47.434	N.D.	#
47)	L6 Aroclor 1254	12.222f	0.000	255137	0	19.582	N.D.	#
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

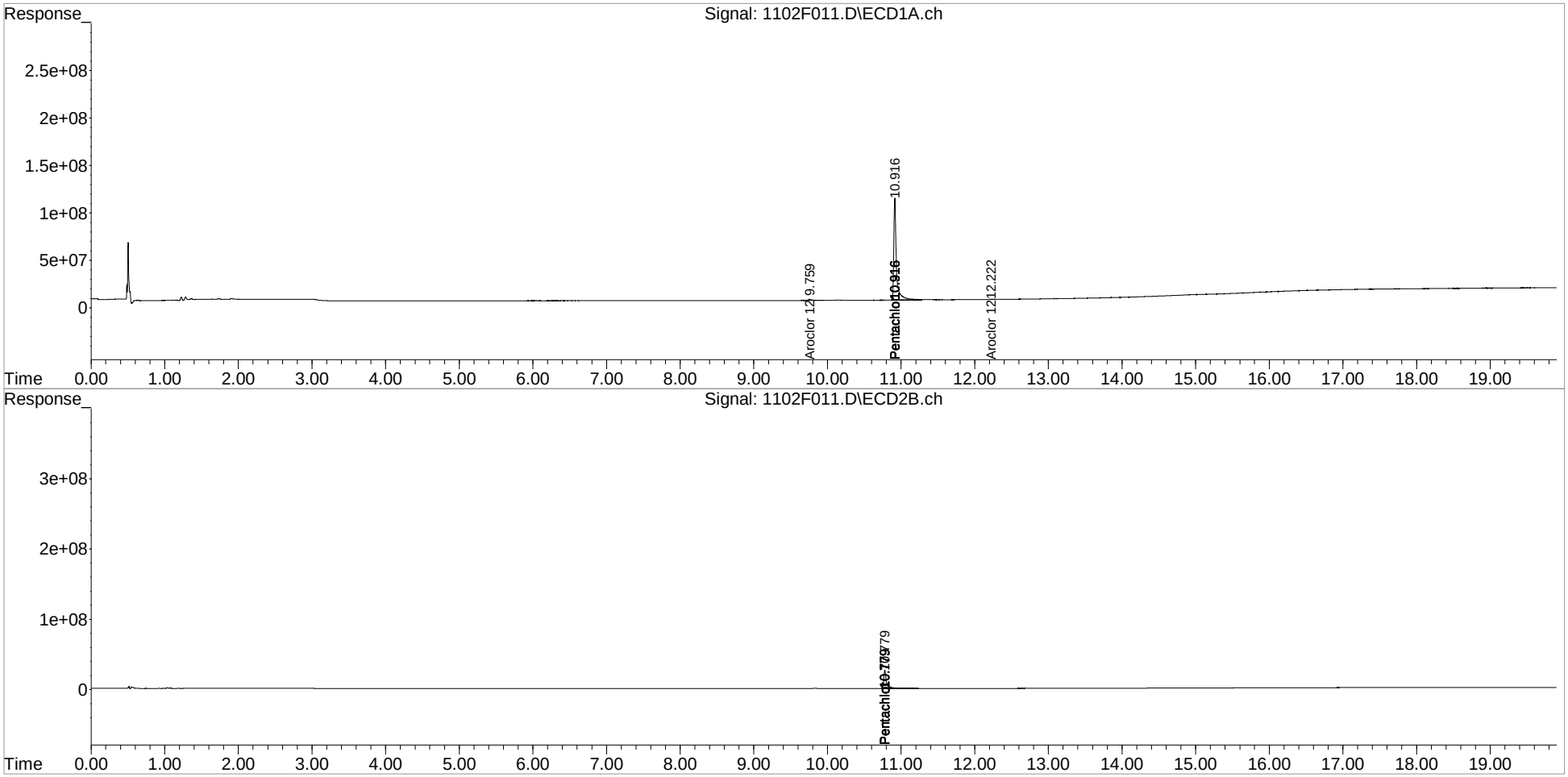
1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F011.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 09:31 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 08:44:51 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st BB 11/08/23
2nd AA 11/08/23

Validation Report

Data File: J:\GC33\DATA\110723\1107F008.D\
Lab ID: KQ2319839-03
RunType: CCB
Matrix: Water

Date Acquired: 11/7/23 12:20:00
Batch ID: 823308
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - RTX-CLP	beta-BHC	128	75	125	ND
Continuing Calibration Recovery - RTX-CLP2	Aroclor 1016	167	75	125	
	Aroclor 1260	146	75	125	
	alpha-BHC	133	69	125	
	beta-BHC	140	75	125	
	delta-BHC	129	75	125	
	gamma-BHC (Lindane)	135	75	125	
	4,4'-DDD	134	75	125	
	4,4'-DDE	136	75	125	
	Endosulfan II	129	75	125	
	Endrin	144	5	125	SA
	Decachlorobiphenyl	130	75	125	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.90			
	Pentachloronitrobenzene {2}	10.90			
	Pentachloronitrobenzene {3}	10.90			
	Pentachloronitrobenzene{4}	10.90			
	Pentachloronitrobenzene{5}	10.90			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			
	Pentachloronitrobenzene {2}	10.77			
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

Secondary Review: _____

1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report

Data File:	J:\GC33\DATA\110723\1107F008.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 12:20:00	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2319839-03	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/2/23	**Receive Date:**	10/5/23

Analysis Lot:	823308	**Prep Lot:**		**Report Group:**	KQ2319839
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.90	c	10.77	c	461158657	91499488	50.000	50.000		
Pentachloronitrobenzene {2}	10.90	c	10.77	c	461174944	91499488	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.90	c	10.77	c	461103360	91499488	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.90	c	10.77	c	461078578	91499488	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.90	c	10.77	c	460894416	91499488	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000[CCV]				10 - 134	Y
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000				10 - 134	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00049 U	Y
Aroclor 1016					0.000	0.000[CCV]	0U	0U	0.019 U	Y
Aroclor 1221					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1232					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1242					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1248					0.000	0.000	0U	0U	0.019 U	Y
Aroclor 1254					0.000	0.000	0U	0U	0.024 U	Y
Aroclor 1260					0.000	0.000[CCV]	0U	0U	0.024 U	Y
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0	0		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st BB 11/08/23
2nd AA 11/08/23

Data File:	J:\GC33\DATA\110723\1107F008.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 12:20:00	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2319839-03	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1254 {5}										
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0	0		
alpha-BHC	0.00	0.00	0	0	0.000	0.000^{CCV}	0U	0U	0.00051 U	Y
beta-BHC	0.00	0.00	0	0	0.000^{CCV}	0.000^{CCV}	0U	0U	0.042 U	Y
delta-BHC	0.00	0.00	0	0	0.000	0.000^{CCV}	0U	0U	0.00046 U	Y
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000^{CCV}	0U	0U	0.00067 U	Y
Chlordane					0.000	0.000	0U	0U	0.029 U	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0	0		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000^{CCV}	0U	0U	0.00050 U	Y
4,4'-DDE	0.00	0.00	0	0	0.000	0.000^{CCV}	0U	0U	0.00074 U	Y
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00077 U	Y
Dieldrin	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00052 U	Y
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0032 U	Y
Endosulfan II	0.00	0.00	0	0	0.000	0.000^{CCV}	0U	0U	0.00088 U	Y
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00036 U	Y
Endrin	0.00	0.00	0	0	0.000	0.000^{CCV}	0U	0U	0.00053 U	Y
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0051 U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/9/23 11:21
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st BB 11/08/23
2nd AA 11/08/23

Data File:	J:\GC33\DATA\110723\1107F008.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 12:20:00	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2319839-03	**Raw Units:**	ug/L

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0U	0U	0.00051 U	Y
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0U	0U	0.0022 U	Y
Toxaphene					0.000	0.000	0U	0U	0.056 U	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0	0		
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0	0		

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:20:48 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
1)	I Pentachlo...	10.896	10.771	461.2E6	91499488	50.000m	50.000
26)	I Pentachlo...	10.896f	10.771	461.2E6	91499488	50.000m	50.000
34)	I Pentachlo...	10.896f	10.771	461.1E6	91499488	50.000m	50.000
51)	I Pentachlo...	10.896f	10.771	461.1E6	91499488	50.000m	50.000
60)	I Pentachlo...	10.896f	10.771	460.9E6	91499488	50.000m	50.000
	System Monitoring Compounds						
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
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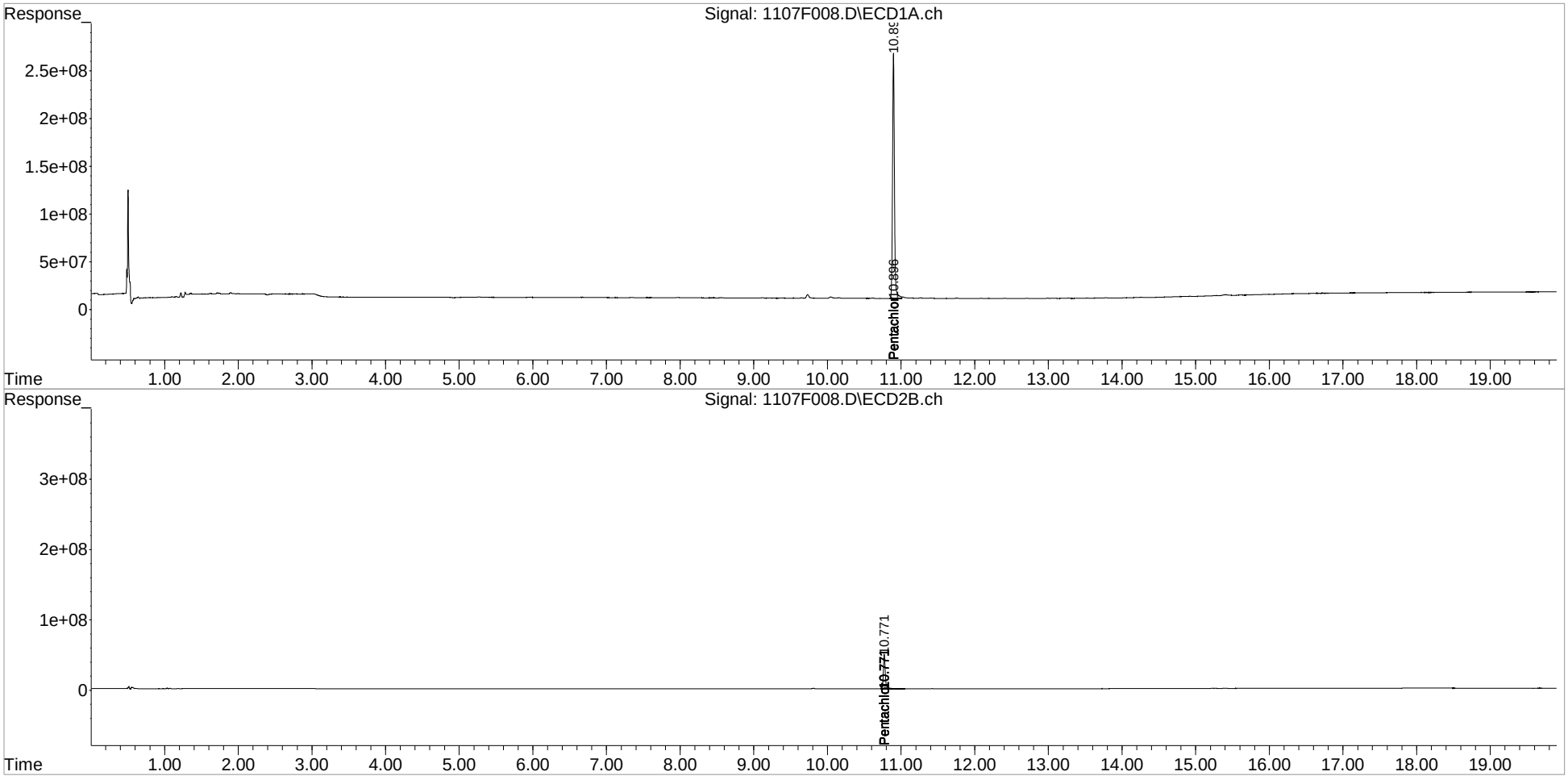
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



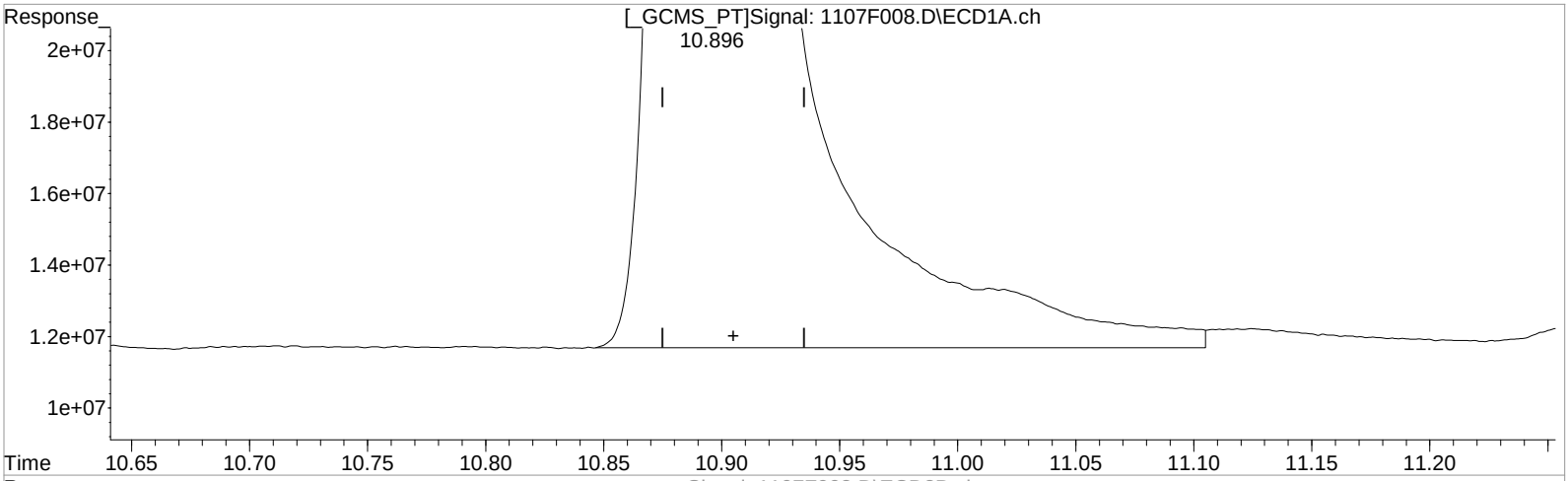
Quantitation Report (Qedit)

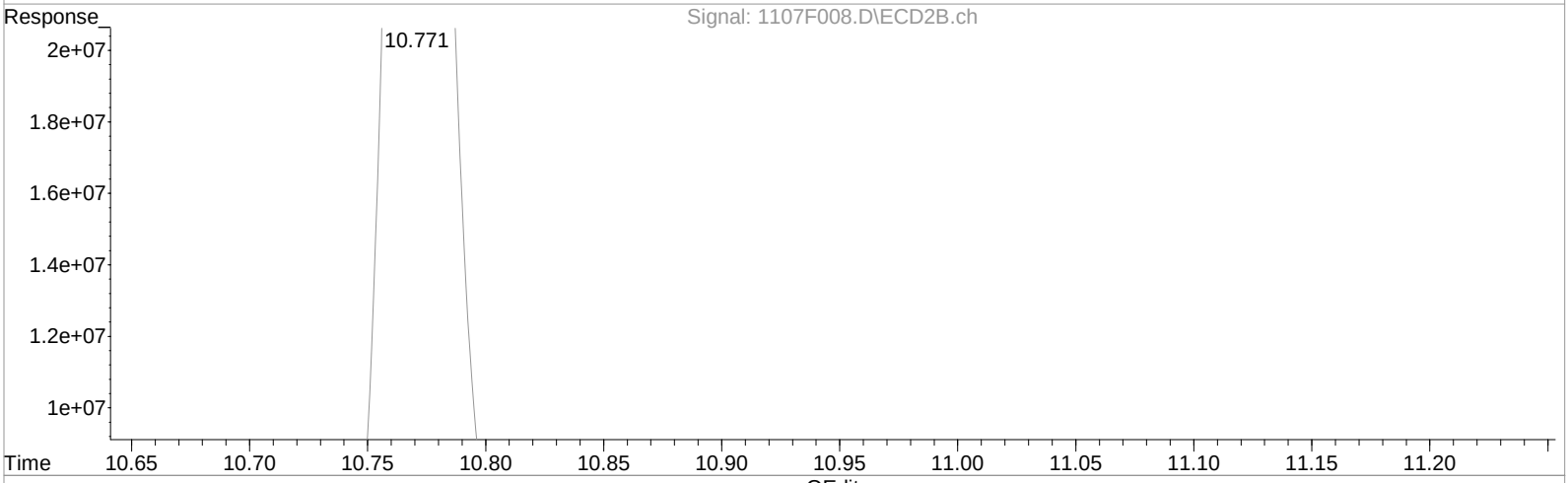
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

10.896min 50.000 ug/L

response 466331934

(1) Pentachloronitrobenzene #2 (I)

10.771min 50.000 ug/L

response 91499488

Manual Integration:

Before

11/08/23

(+) = Expected Retention Time

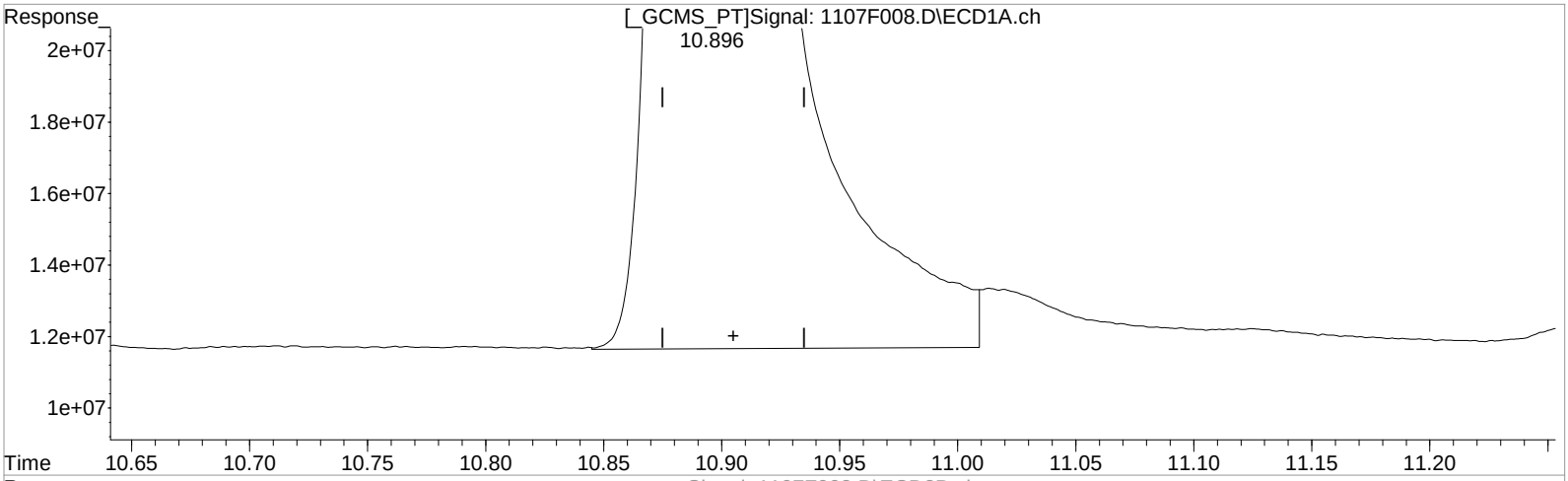
Quantitation Report (Qedit)

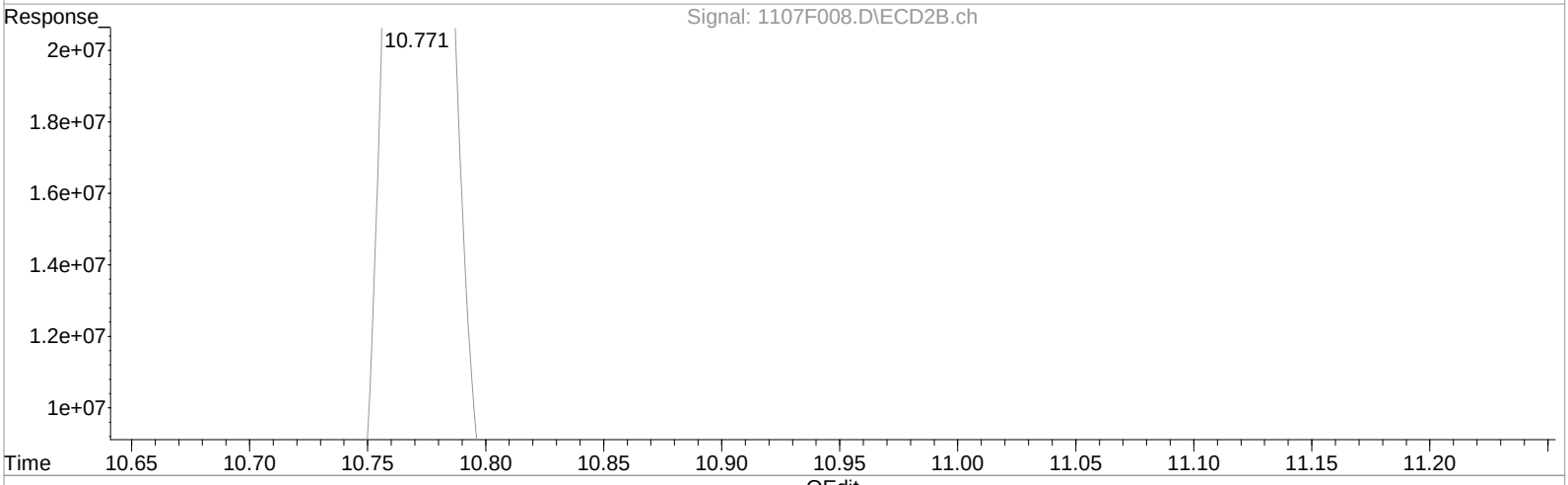
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

10.896min 50.000 ug/L m

response 461158657

Manual Integration:

After

Baseline/Shoulder

11/08/23

(1) Pentachloronitrobenzene #2 (I)

10.771min 50.000 ug/L

response 91499488

(+) = Expected Retention Time

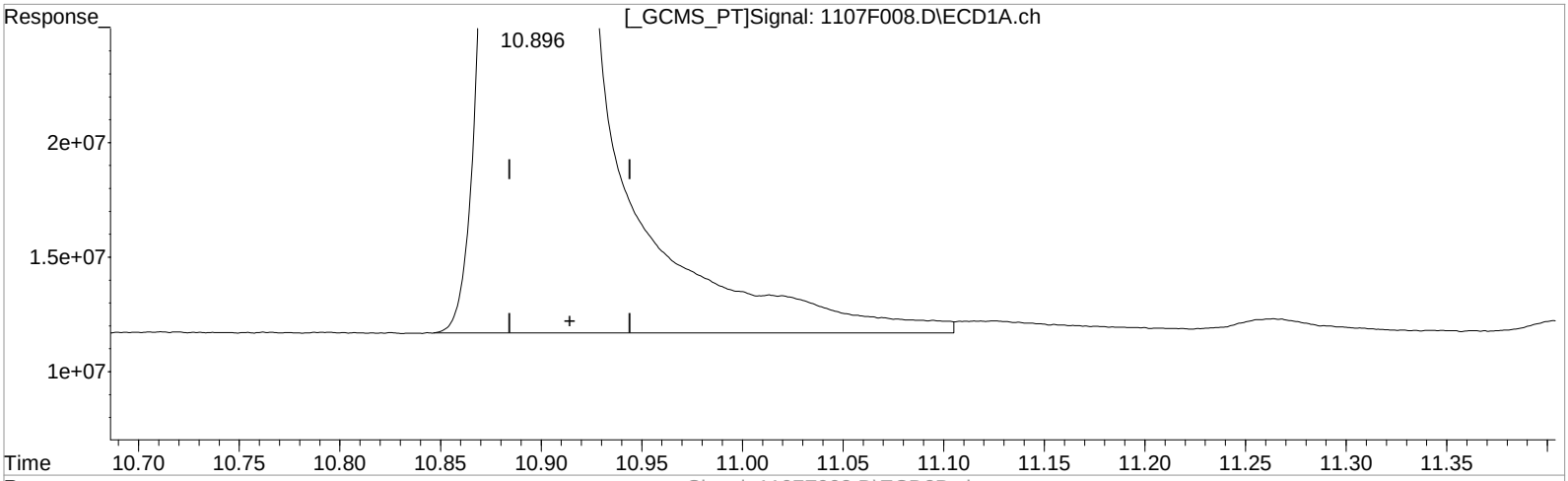
Quantitation Report (Qedit)

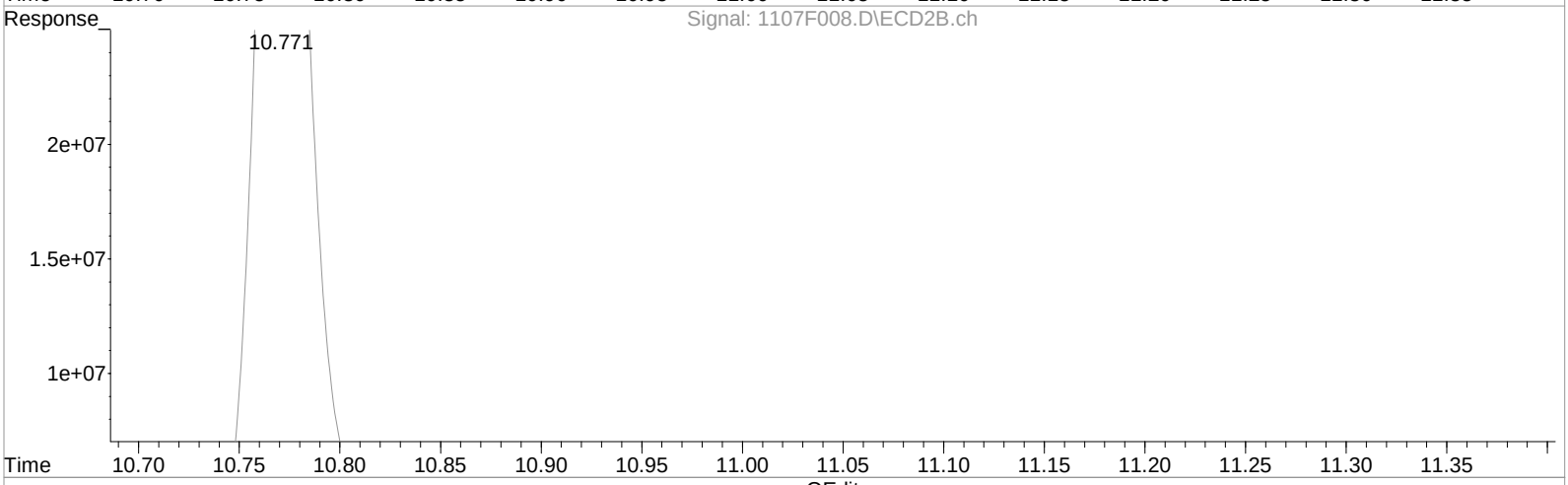
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(26) Pentachloronitrobenzene2 (I)

10.896min 50.000 ug/L

response 466331934

Manual Integration:

Before

11/08/23

(26) Pentachloronitrobenzene2 #2 (I)

10.771min 50.000 ug/L

response 91499488

(+) = Expected Retention Time

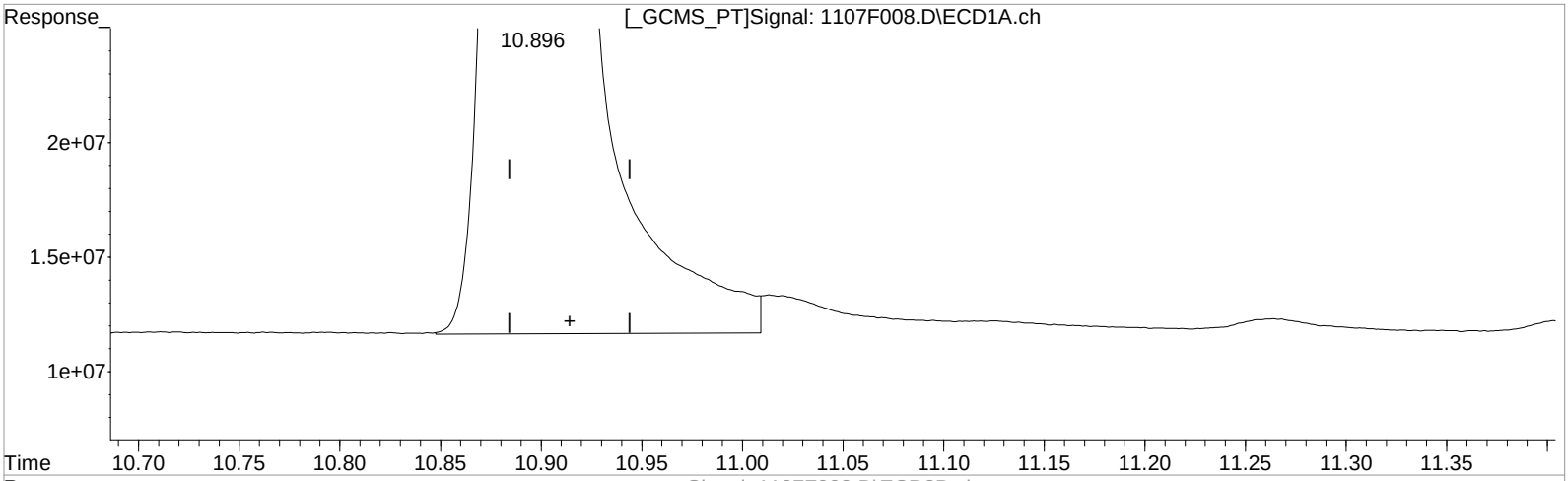
Quantitation Report (Qedit)

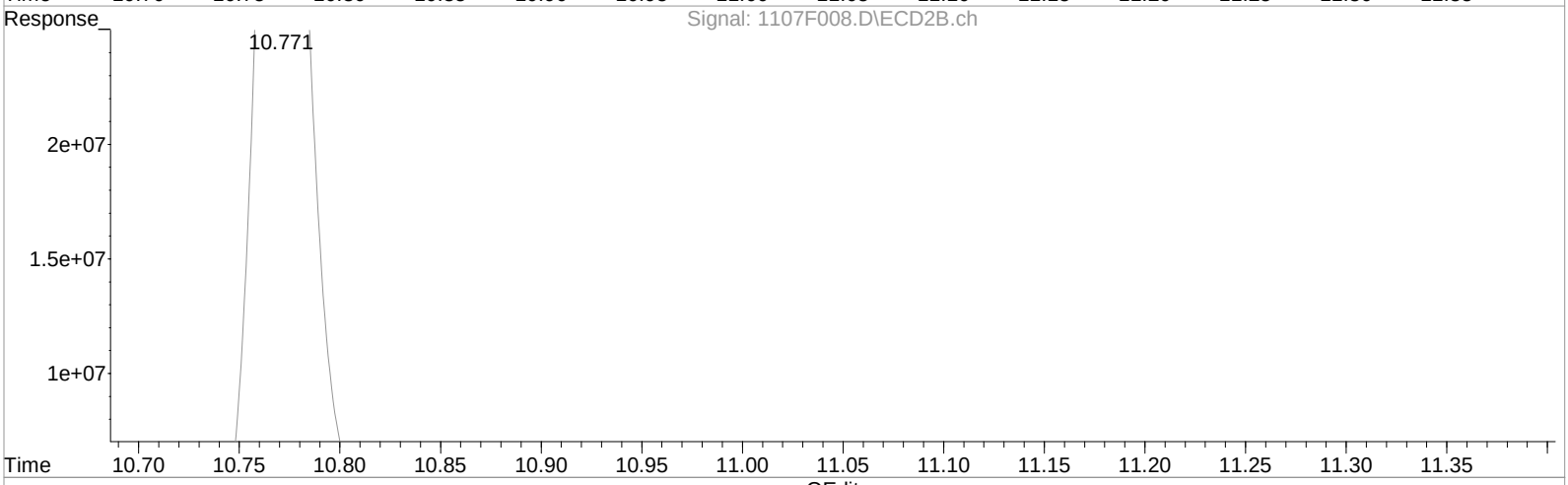
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(26) Pentachloronitrobenzene2 (I)

10.896min 50.000 ug/L m

response 461174944

Manual Integration:

After

Baseline/Shoulder

11/08/23

(26) Pentachloronitrobenzene2 #2 (I)

10.771min 50.000 ug/L

response 91499488

(+) = Expected Retention Time

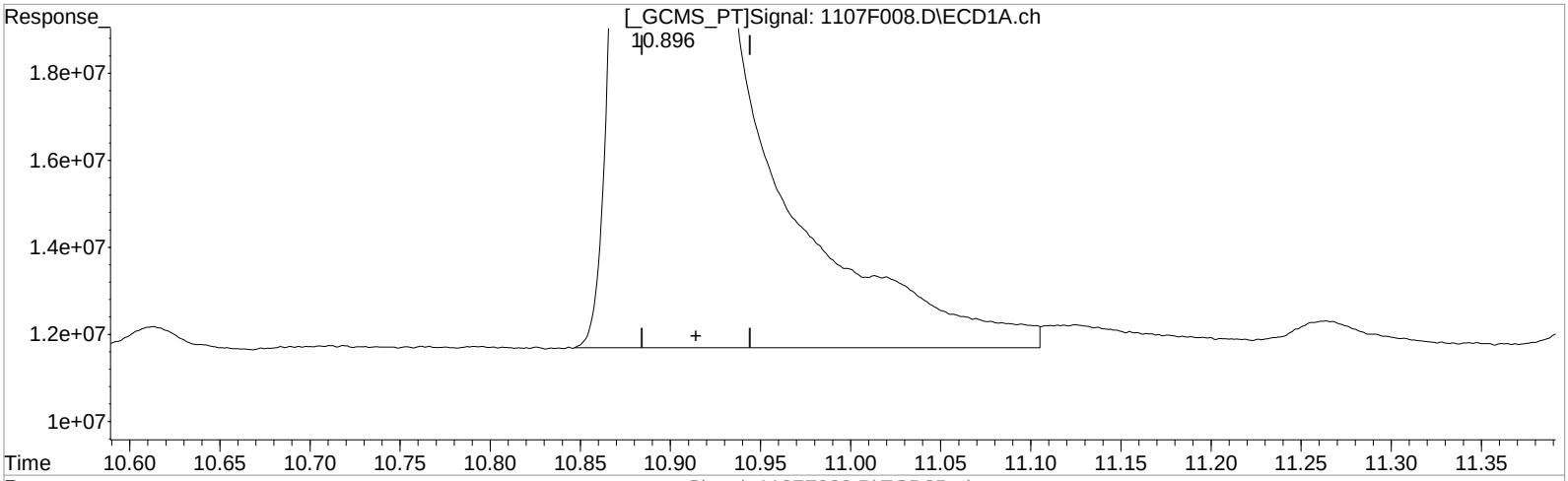
Quantitation Report (Qedit)

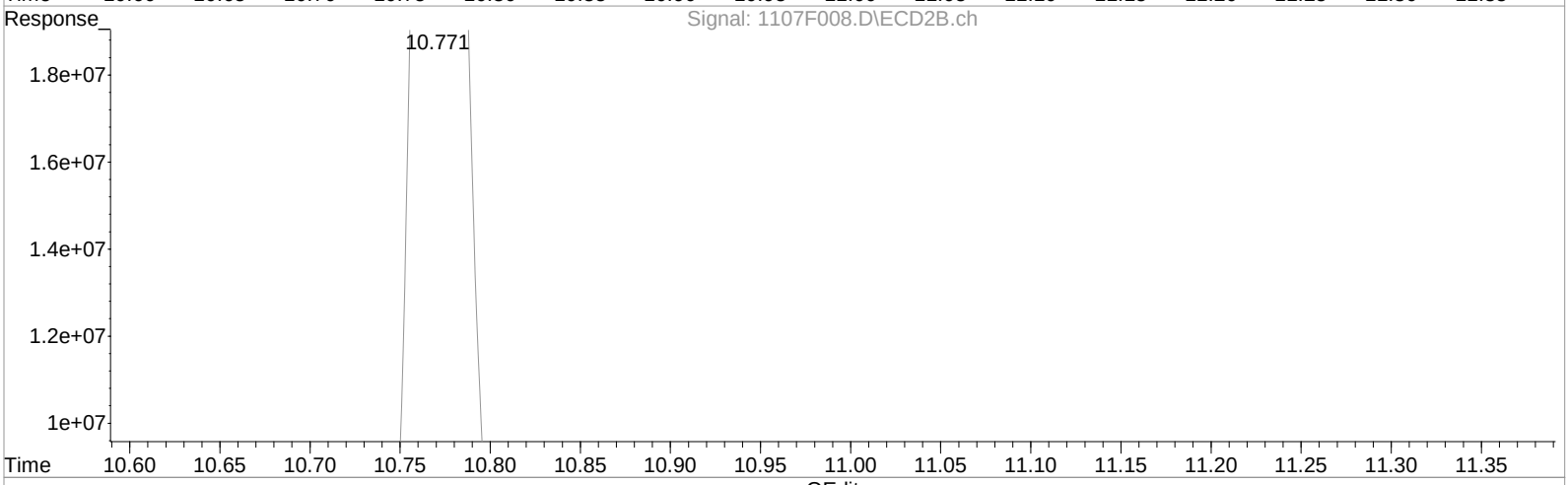
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(34) Pentachloronitrobenzene3 (I)

10.896min 50.000 ug/L

response 466331934

Manual Integration:

Before

11/08/23

(34) Pentachloronitrobenzene3 #2 (I)

10.771min 50.000 ug/L

response 91499488

(+) = Expected Retention Time

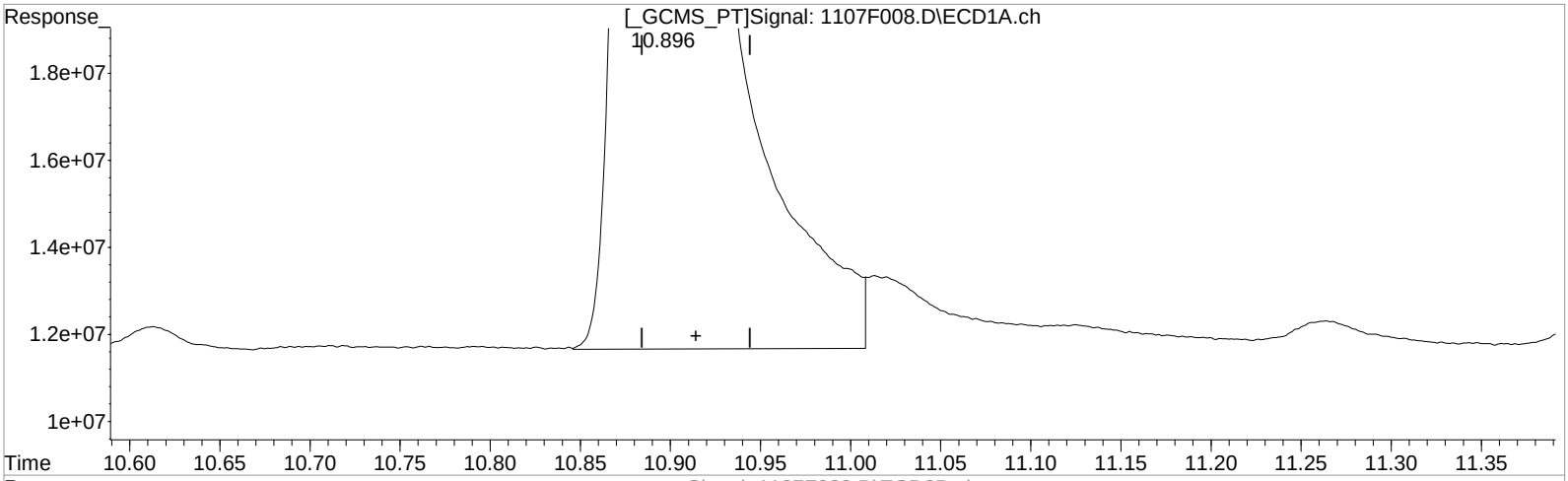
Quantitation Report (Qedit)

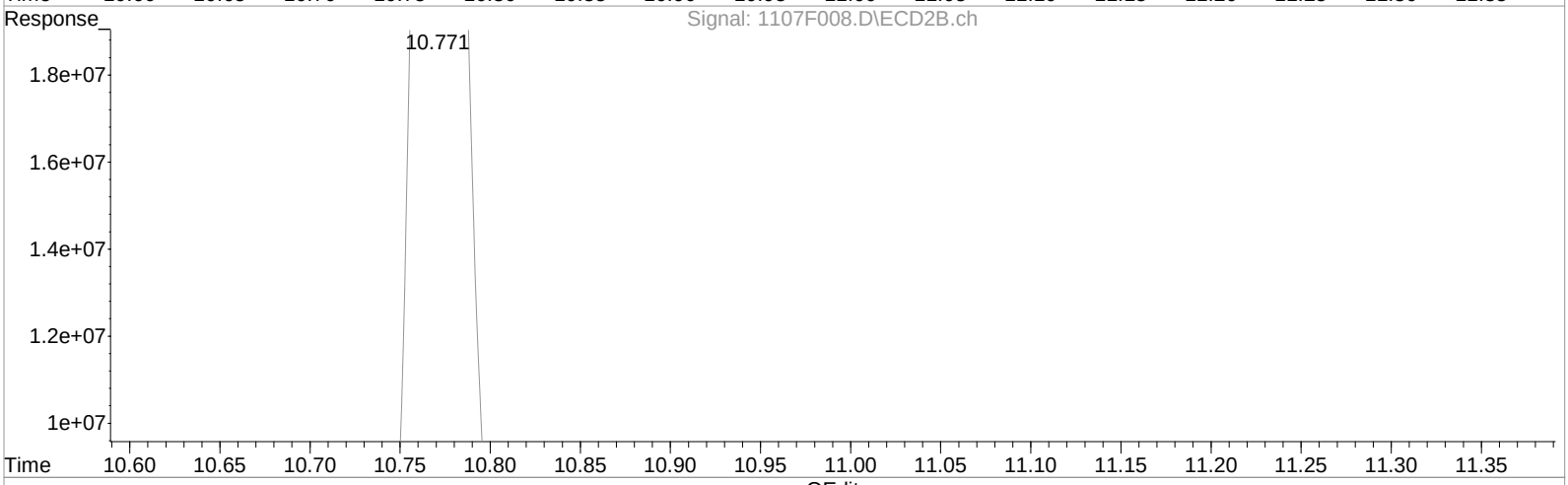
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(34) Pentachloronitrobenzene3 (I)

10.896min 50.000 ug/L m

response 461103360

Manual Integration:

After

Baseline/Shoulder

11/08/23

(34) Pentachloronitrobenzene3 #2 (I)

10.771min 50.000 ug/L

response 91499488

(+) = Expected Retention Time

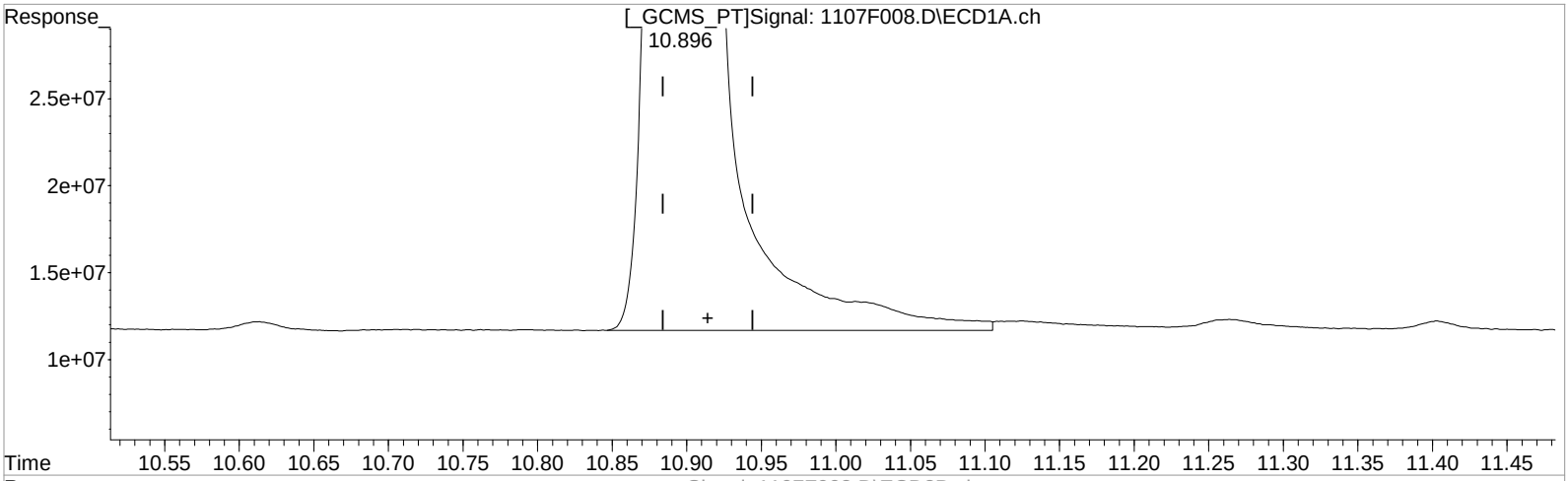
Quantitation Report (Qedit)

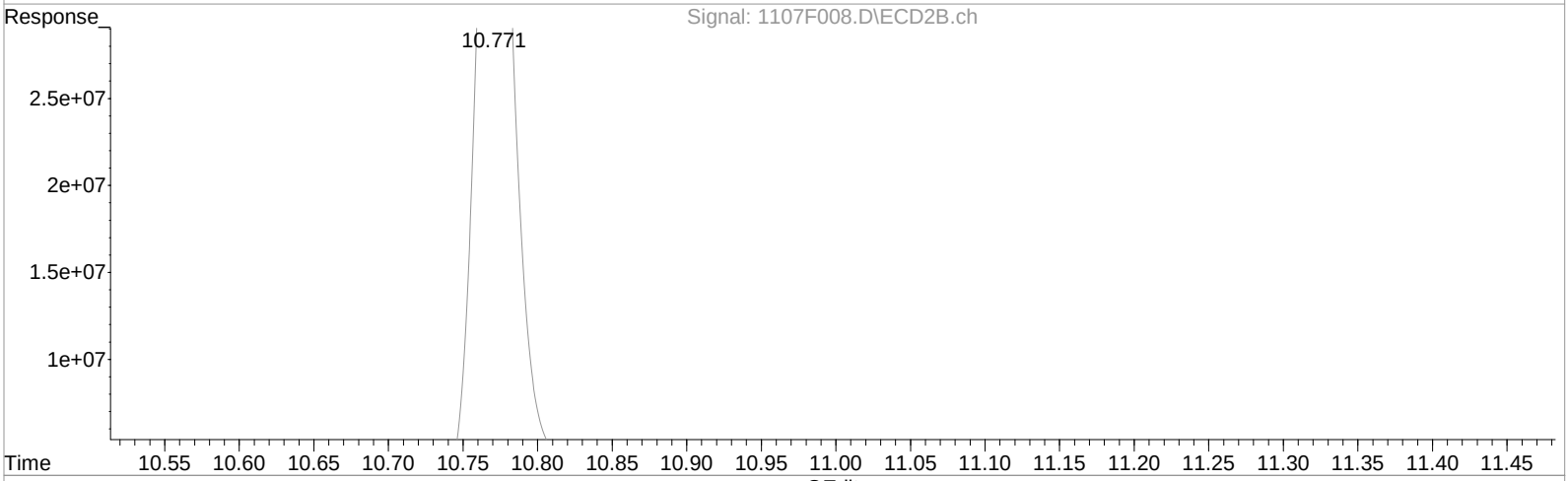
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(51) Pentachloronitrobenzene4 (I)

10.896min 50.000 ug/L

response 466331934

Manual Integration:

Before

11/08/23

(51) Pentachloronitrobenzene4 #2 (I)

10.771min 50.000 ug/L

response 91499488

(+) = Expected Retention Time

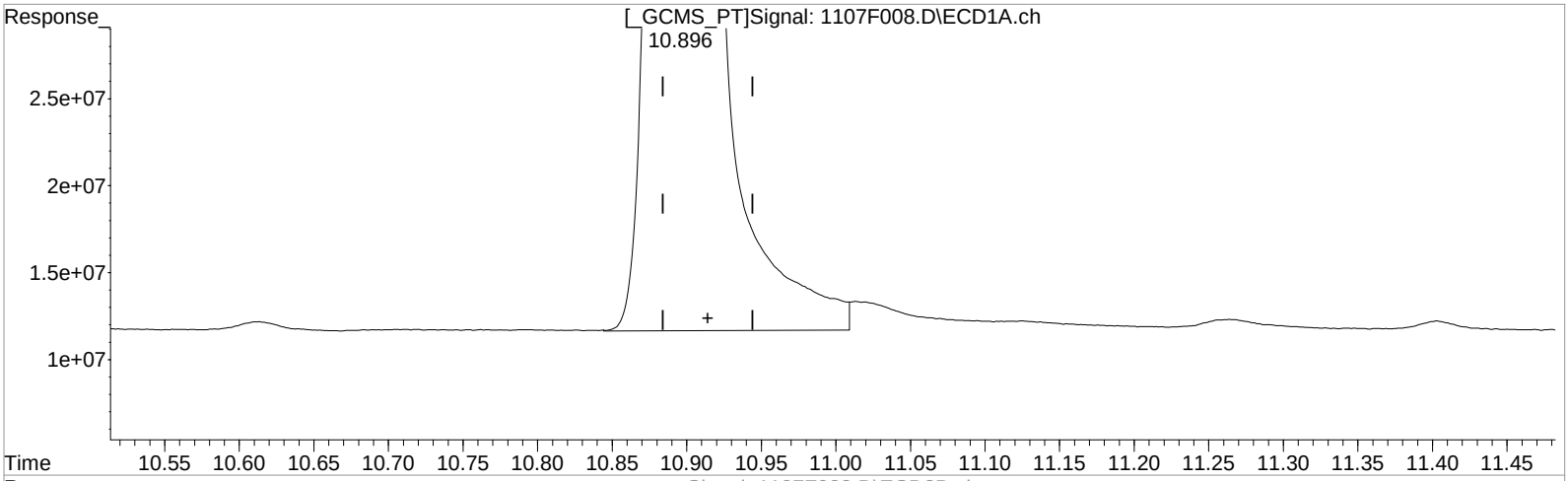
Quantitation Report (Qedit)

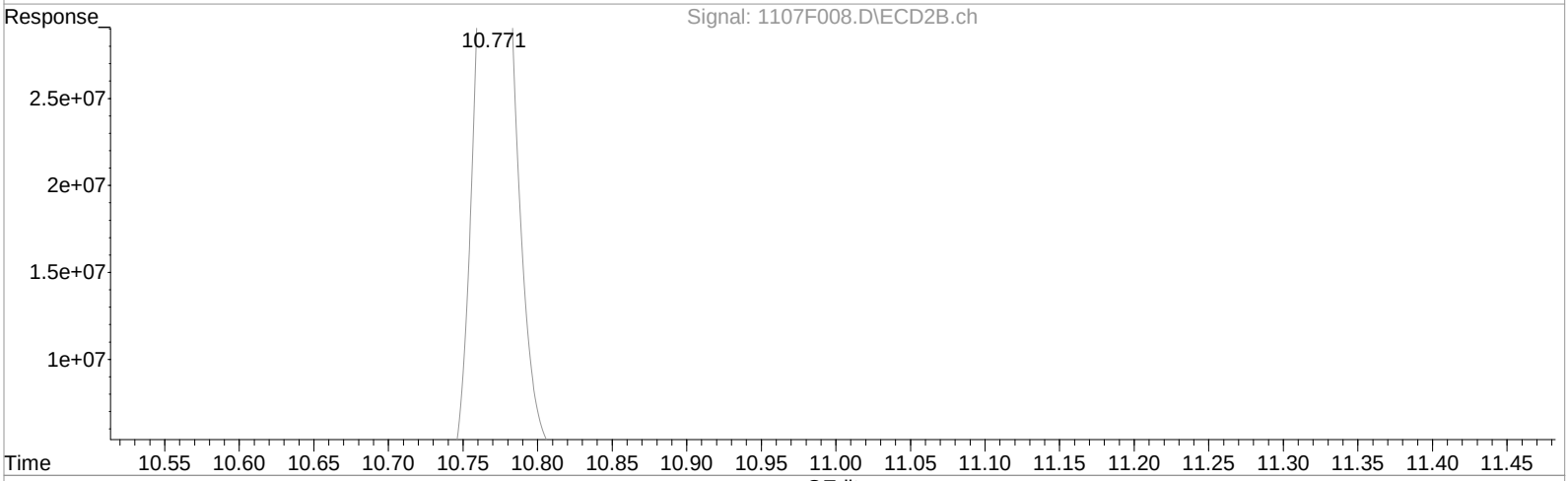
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(51) Pentachloronitrobenzene4 (I)

10.896min 50.000 ug/L m

response 461078578

Manual Integration:

After

Baseline/Shoulder

11/08/23

(51) Pentachloronitrobenzene4 #2 (I)

10.771min 50.000 ug/L

response 91499488

(+) = Expected Retention Time

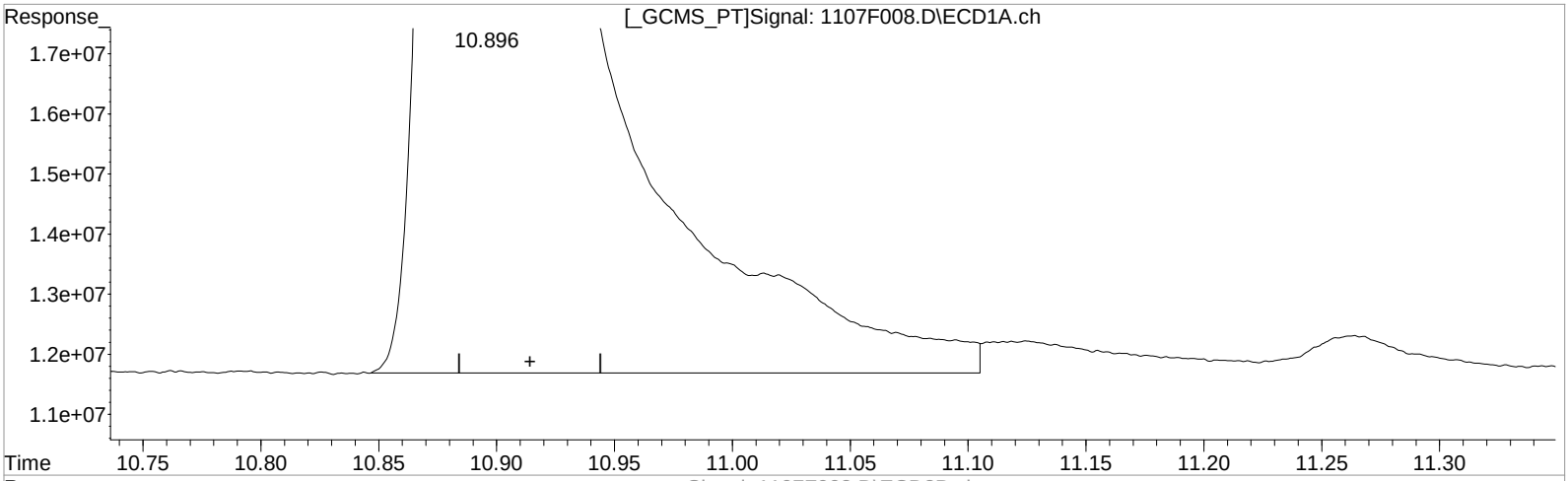
Quantitation Report (Qedit)

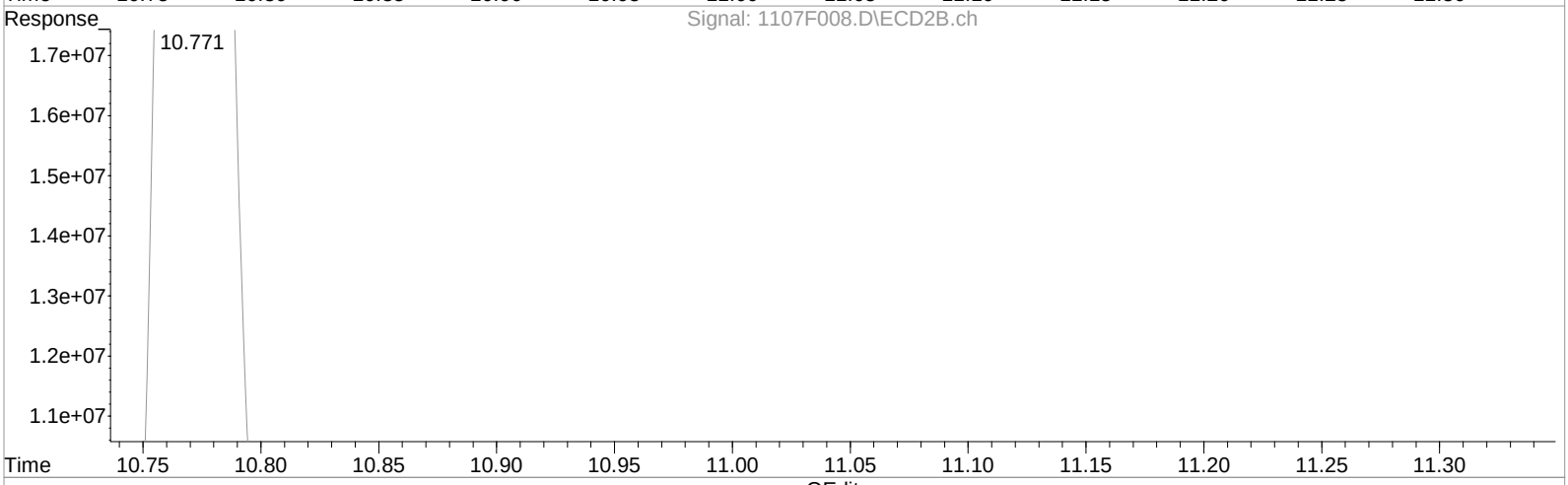
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(60) Pentachloronitrobenzene5 (I)

10.896min 50.000 ug/L

response 466331934

Manual Integration:

Before

11/08/23

(60) Pentachloronitrobenzene5 #2 (I)

10.771min 50.000 ug/L

response 91499488

(+) = Expected Retention Time

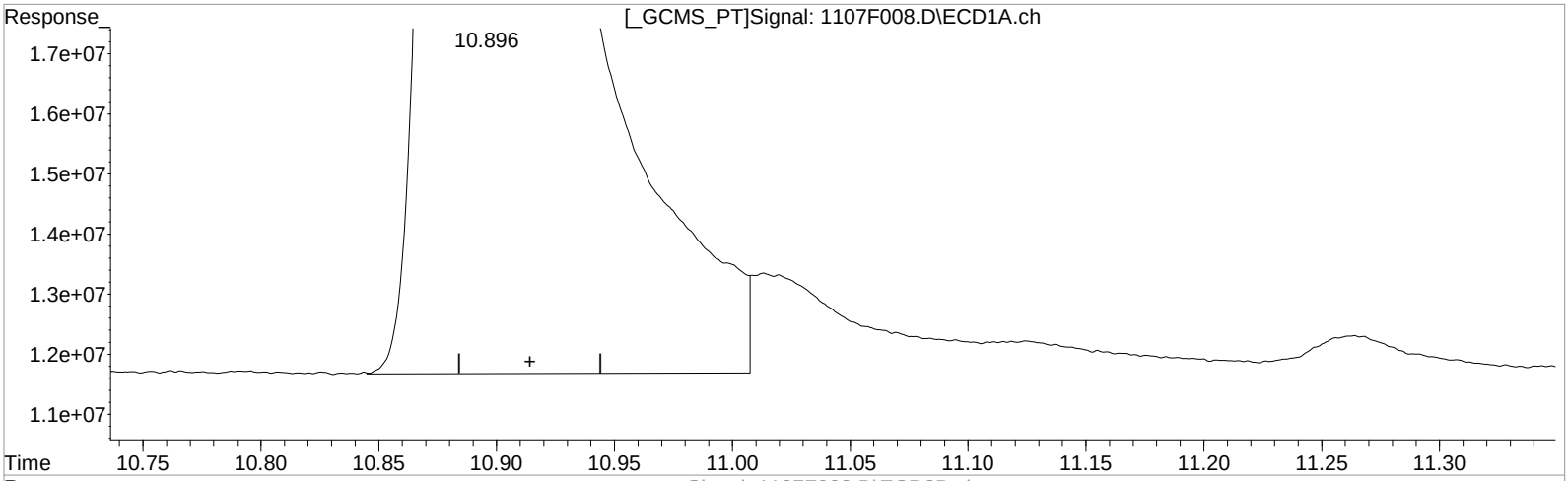
Quantitation Report (Qedit)

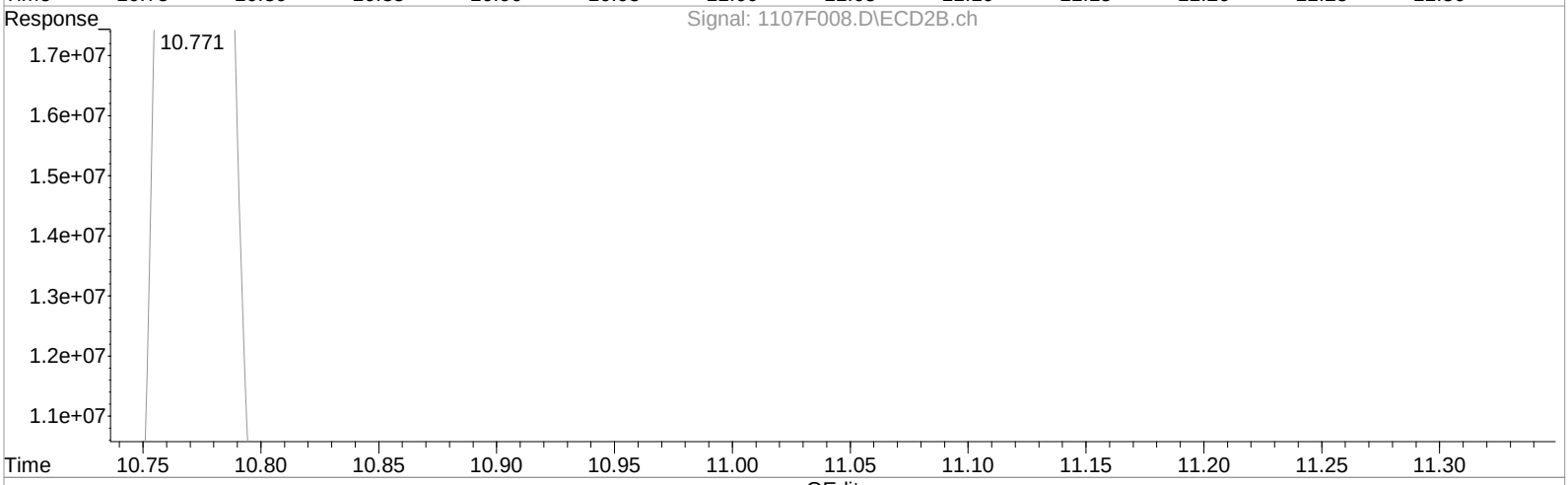
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F008.D Vial: 99
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 12:20 pm Operator:
Sample : IB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(60) Pentachloronitrobenzene5 (I)

10.896min 50.000 ug/L m

response 460894416

Manual Integration:

After

Baseline/Shoulder

11/08/23

(60) Pentachloronitrobenzene5 #2 (I)

10.771min 50.000 ug/L

response 91499488

(+) = Expected Retention Time

1st B B 11/03/23
2nd AA 11/06/23

Validation Report

Data File: J:\GC33\DATA\110123\1101F004.D\
Lab ID: KQ2318924-02
RunType: CCV
Matrix: Water

Date Acquired: 11/1/23 13:42:00
Batch ID: 821707
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	228309771	48515187	194060748	CCVOK
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	59021108	100430009	401720034	
	Pentachloronitrobenzene {3}	59021108	63144776	252579102	
	Pentachloronitrobenzene{4}	59021108	63178516	252714064	
	Pentachloronitrobenzene{5}	59021108	62034723	248138892	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.98			SA
	Pentachloronitrobenzene {2}	10.98			
	Pentachloronitrobenzene {3}	10.98			
	Pentachloronitrobenzene{4}	10.98			
	Pentachloronitrobenzene{5}	10.98			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.82			
	Pentachloronitrobenzene {2}	10.82			
	Pentachloronitrobenzene {3}	10.82			
	Pentachloronitrobenzene{4}	10.82			
	Pentachloronitrobenzene{5}	10.82			

Primary Review: _____

Secondary Review: _____

1st B B 11/03/23
2nd A A 11/06/23

Quantitation Report

Data File:	J:\GC33\DATA\110123\1101F004.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 13:42:00	**Vial:**	14
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821707	**Prep Lot:**		**Report Group:**	KQ2318924
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.98	c	10.82	c	228309771*	59233267	50.000	50.000		
Pentachloronitrobenzene {2}	10.98	c	10.82	c	228492037	59021108*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.98	c	10.82	c	228492037	59021108*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.98	c	10.82	c	228492037	59021108*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.98	c	10.82	c	228492037	59021108*	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	17.29	17.57	202773252	55256481	70.325	87.207			Y
Tetrachloro-m-xylene	8.90	8.76	195561242	110780596	79.810	85.222			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	12.13	12.07	383836334	111396280	82.051	80.657	82.1	80.7	Y
Aroclor 1016					0.000	0.000	0	0	Y
Aroclor 1221					0.000	0.000	0	0	Y
Aroclor 1232					0.000	0.000	0	0	Y
Aroclor 1242					0.000	0.000	0	0	Y
Aroclor 1248					0.000	0.000	0	0	Y
Aroclor 1254					0.000	0.000	0	0	Y
Aroclor 1260					0.000	0.000	0	0	Y
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F004.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 13:42:00	**Vial:**	14
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
alpha-BHC	10.22	10.20	479865752	138268937	83.480	86.974	83.5	87.0	Y
beta-BHC	11.03	11.06	142885800	50952324	88.357	87.796	88.4	87.8	Y
delta-BHC	11.33	11.52	421185288	109017671	83.098	83.451	83.1	83.5	Y
gamma-BHC (Lindane)	10.85	10.87	441299673	129290232	83.184	88.961	83.2	89.0	Y
Chlordane					0.000	0.000	0	0	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
4,4'-DDD	14.25	14.29	182646826	65968804	85.105	88.134	85.1	88.1	Y
4,4'-DDE	13.48	13.57	262146631	86201191	87.017	90.131	87.0	90.1	Y
4,4'-DDT	14.60	14.67	182152386	52344914	87.292	73.986	87.3	74.0	Y
Dieldrin	13.89	13.78	290358625	92331156	82.661	83.666	82.7	83.7	Y
Endosulfan I	13.57	13.42	264154847	82161590	80.918	82.703	80.9	82.7	Y
Endosulfan II	14.49	14.43	223997515	71667388	80.018	86.200	80.0	86.2	Y
Endosulfan Sulfate	15.61	15.19	170347338	51662914	69.780	72.394	69.8	72.4	Y
Endrin	14.20	14.17	256443744	81832157	92.518	97.642	92.5	97.6	Y
Endrin Aldehyde	15.02	14.85	154239954	51416957	72.687	80.448	72.7	80.4	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F004.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 13:42:00	**Vial:**	14
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	11.66	11.58	399599506	93420527	91.617	74.324	91.6	74.3	Y
Heptachlor Epoxide	13.03	12.89	305035691	93504182	80.390	82.207	80.4	82.2	Y
Toxaphene					0.000	0.000	0	0	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:19:58 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		Internal Standards						
1)	I	Pentachlo...	10.983	10.819	228.3E6	59233267	50.000m	50.000m
26)	I	Pentachlo...	10.983	10.819	228.5E6	59021108	50.000	50.000
34)	I	Pentachlo...	10.983	10.819	228.5E6	59021108	50.000	50.000
51)	I	Pentachlo...	10.983	10.819	228.5E6	59021108	50.000	50.000
60)	I	Pentachlo...	10.983	10.819	228.5E6	59021108	50.000	50.000
		System Monitoring Compounds						
2)	s	TCMX	8.896	8.764	195.6E6	110.8E6	79.810m	85.222m
25)	S	Decachlor...	17.289	17.567	202.8E6	55256481	70.325m	87.207m
		Target Compounds						
3)	m	alpha-BHC	10.216	10.198	479.9E6	138.3E6	83.480m	86.974m
5)	m	gamma-BHC...	10.846	10.874	441.3E6	129.3E6	83.184m	88.961m
6)	m	beta-BHC	11.028	11.055	142.9E6	50952324	88.357m	87.796m
7)	m	delta-BHC	11.327	11.523	421.2E6	109.0E6	83.098m	83.451m
8)	m	Heptachlor	11.658	11.584	399.6E6	93420527	91.617m	74.324m
9)	m	Aldrin	12.129	12.069	383.8E6	111.4E6	82.051m	80.657m
11)	m	Heptachlo...	13.028	12.894	305.0E6	93504182	80.390m	82.207m
12)	m	beta-Chlo...	13.198	13.151	288.0E6	90236289	76.322m	79.865m
13)	m	alpha-Chl...	13.382	13.345	272.6E6	86574080	77.298m	79.215m
14)	m	4,4'-DDE	13.478	13.565	262.1E6	86201191	87.017m	90.131m
15)	m	Endosulfan I	13.569	13.418	264.2E6	82161590	80.918m	82.703m
16)	m	Dieldrin	13.890	13.775	290.4E6	92331156	82.661m	83.666m
17)	m	Endrin	14.198	14.166	256.4E6	81832157	92.518m	97.642m
18)	m	4,4'-DDD	14.253	14.288	182.6E6	65968804	85.105m	88.134m
19)	m	Endosulfa...	14.488	14.430	224.0E6	71667388	80.018m	86.200m
20)	m	4,4'-DDT	14.603	14.670	182.2E6	52344914	87.292m	73.986m
21)	m	Endrin Al...	15.021	14.847	154.2E6	51416957	72.687m	80.448m
22)	m	Methoxychlor	15.180	15.512	91667318	25951516	90.844m	83.540m
23)	m	Endosulfa...	15.609	15.193	170.3E6	51662914	69.780m	72.394m
24)	m	Endrin Ke...	16.000	15.919	221.7E6	69002720	80.119m	91.798m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

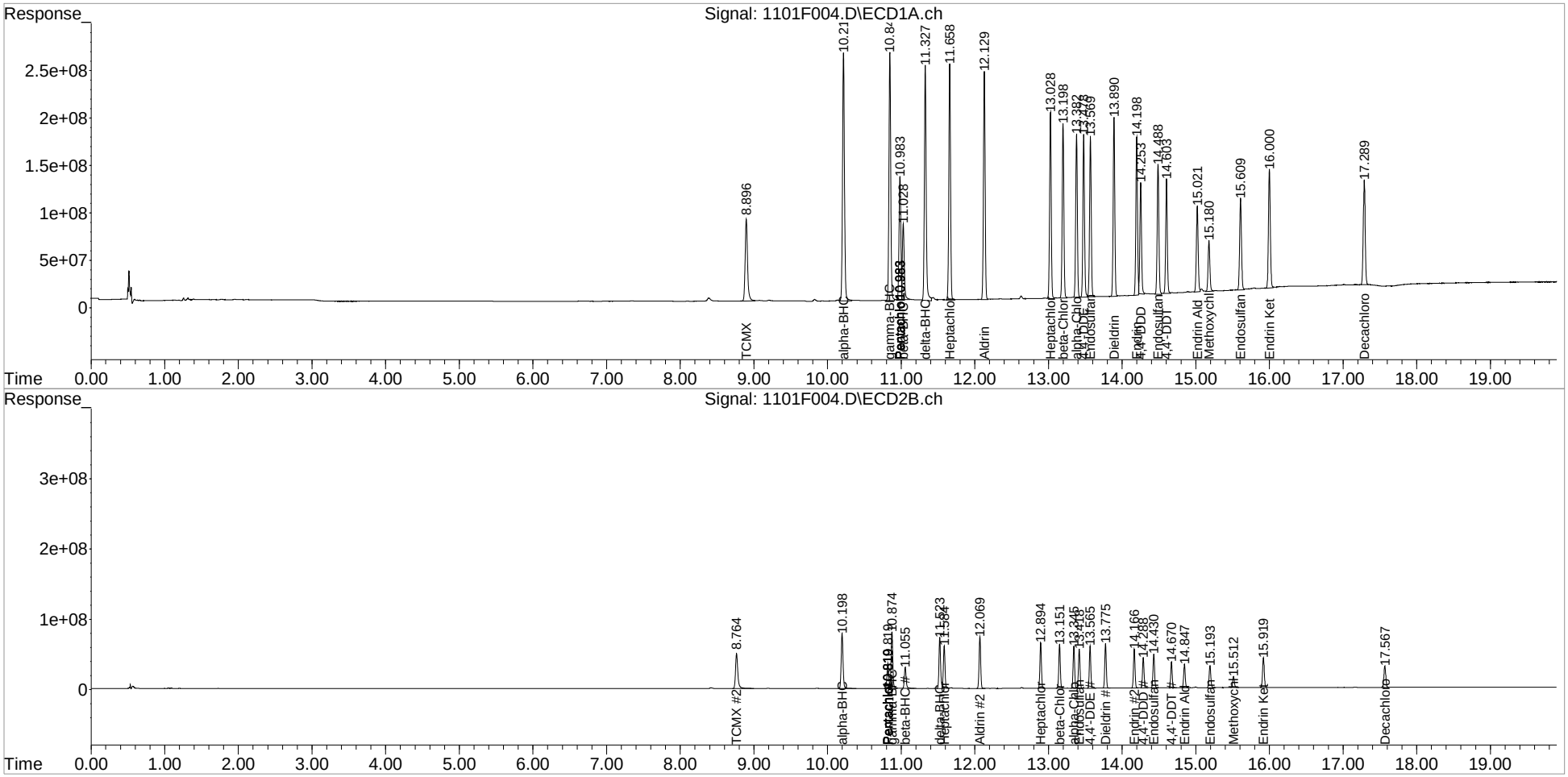
1st BB 11/03/23
2nd AA 11/06/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:19:58 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



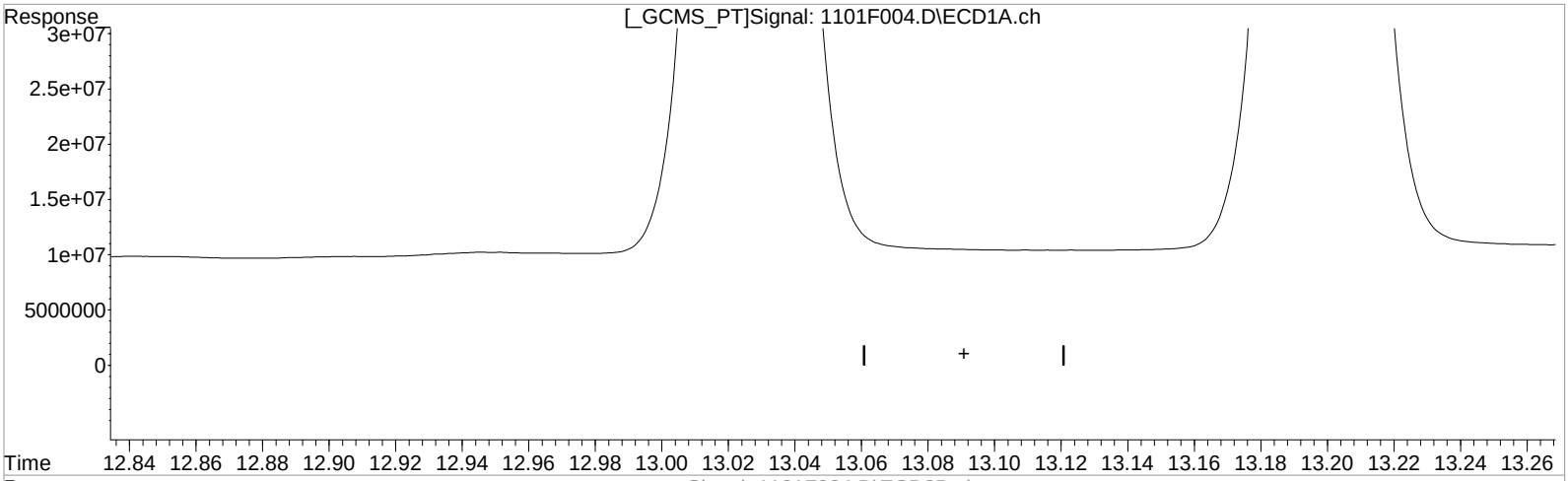
Quantitation Report (Qedit)

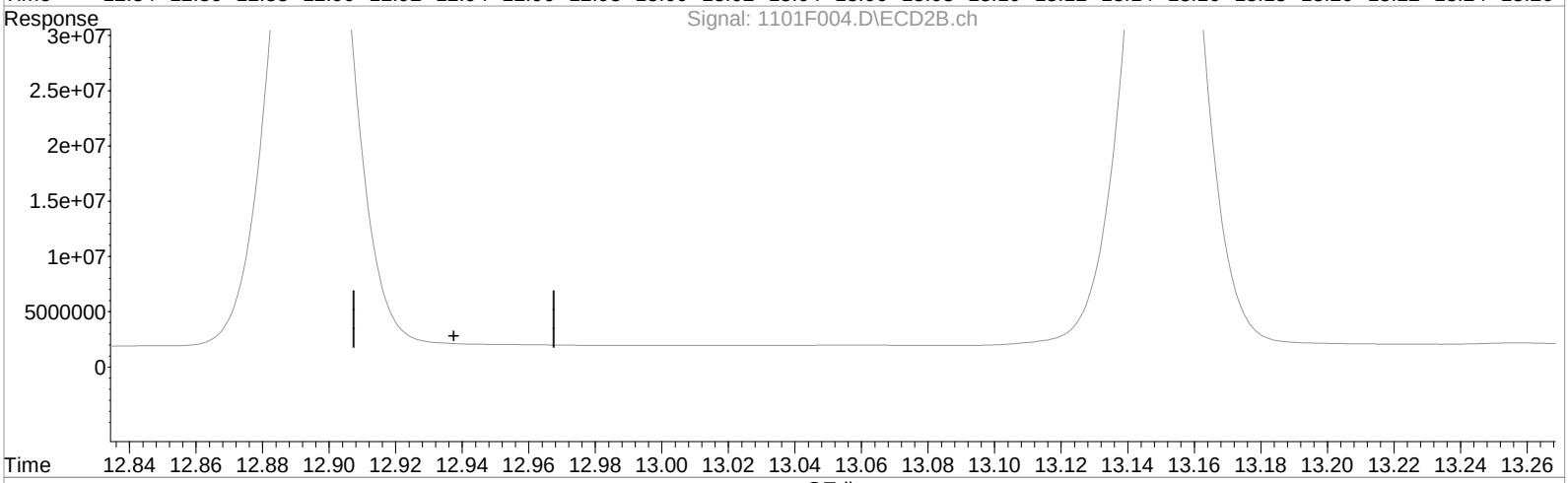
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(11) Heptachlor Epoxide (B) (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(11) Heptachlor Epoxide (B) #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

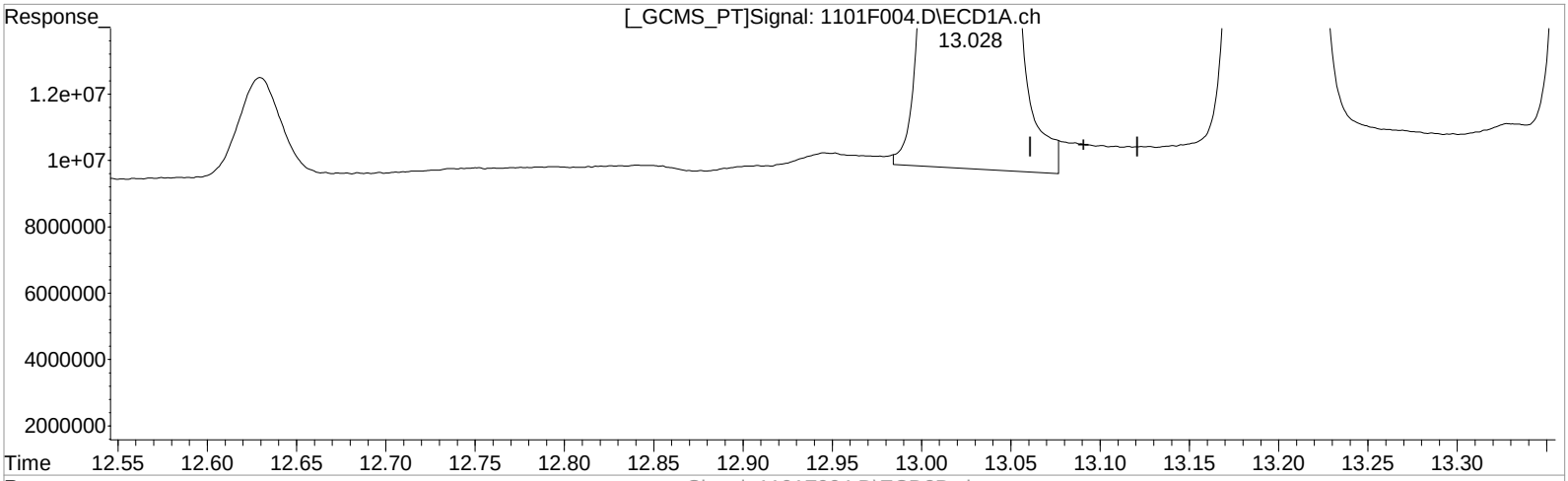
Quantitation Report (Qedit)

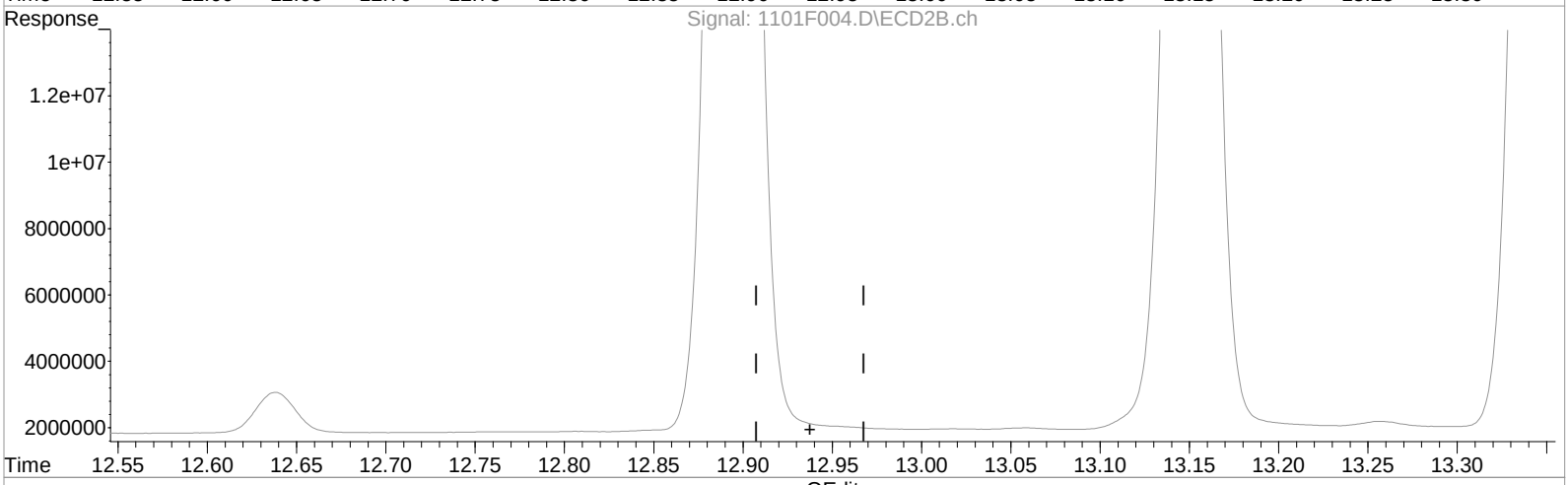
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(11) Heptachlor Epoxide (B) (m)

13.028min 80.390 ug/L m

response 305035691

Manual Integration:

Before

11/01/23

(11) Heptachlor Epoxide (B) #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

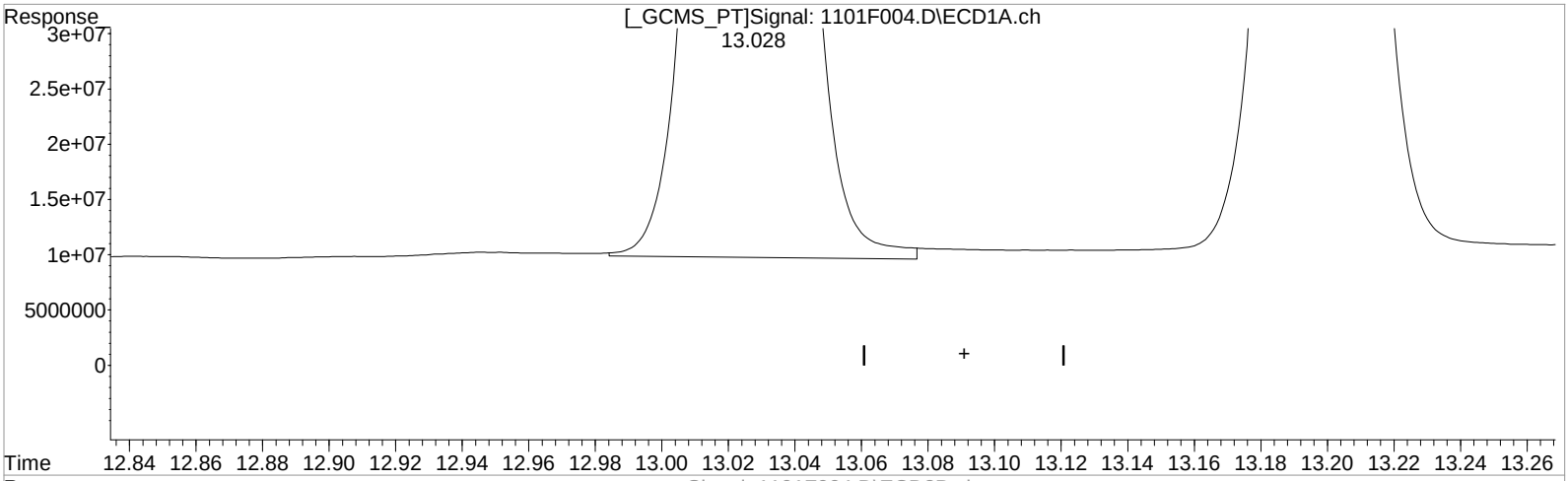
Quantitation Report (Qedit)

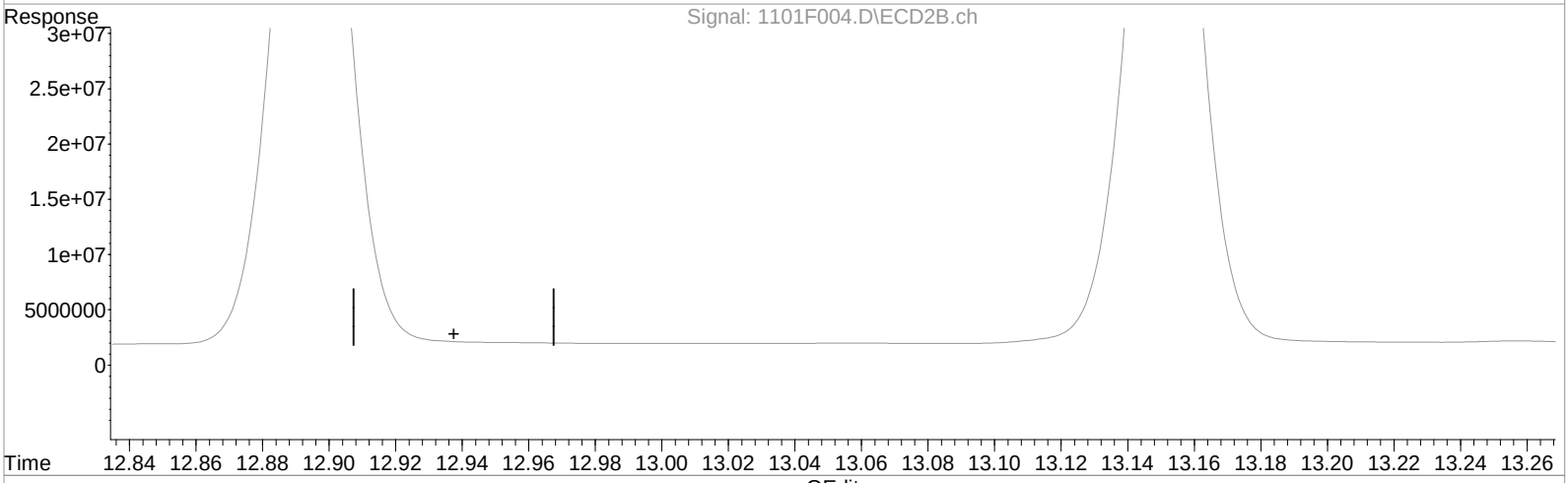
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(11) Heptachlor Epoxide (B) (m)

13.028min 80.390 ug/L m

response 305035691

Manual Integration:

After

Missed Peak

11/01/23

(11) Heptachlor Epoxide (B) #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

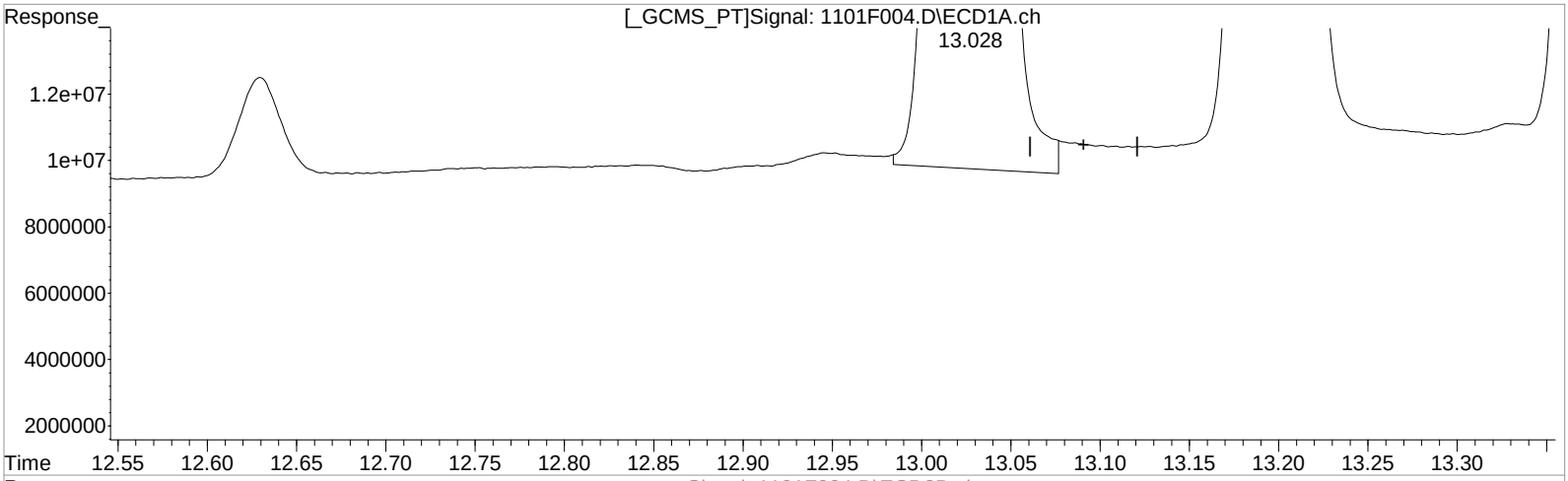
Quantitation Report (Qedit)

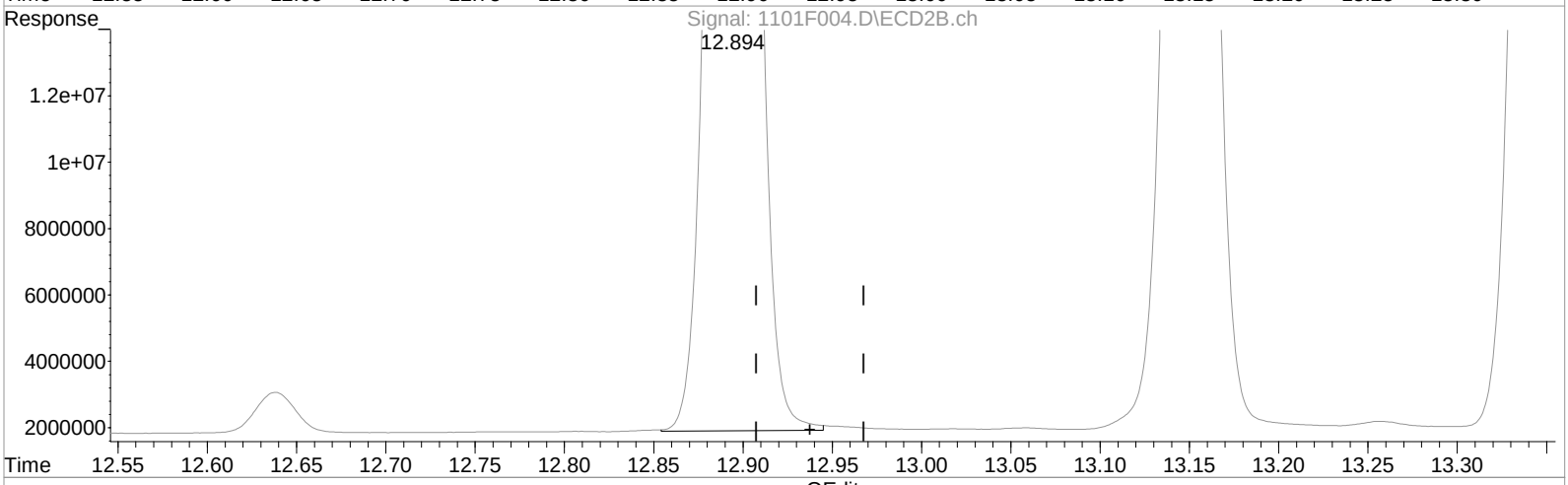
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(11) Heptachlor Epoxide (B) (m)

13.028min 80.390 ug/L m

response 305035691

Manual Integration:

After

Missed Peak

11/01/23

(11) Heptachlor Epoxide (B) #2 (m)

12.894min 82.207 ug/L m

response 93504182

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
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Quant Time: Nov 01 14:12:33 2023
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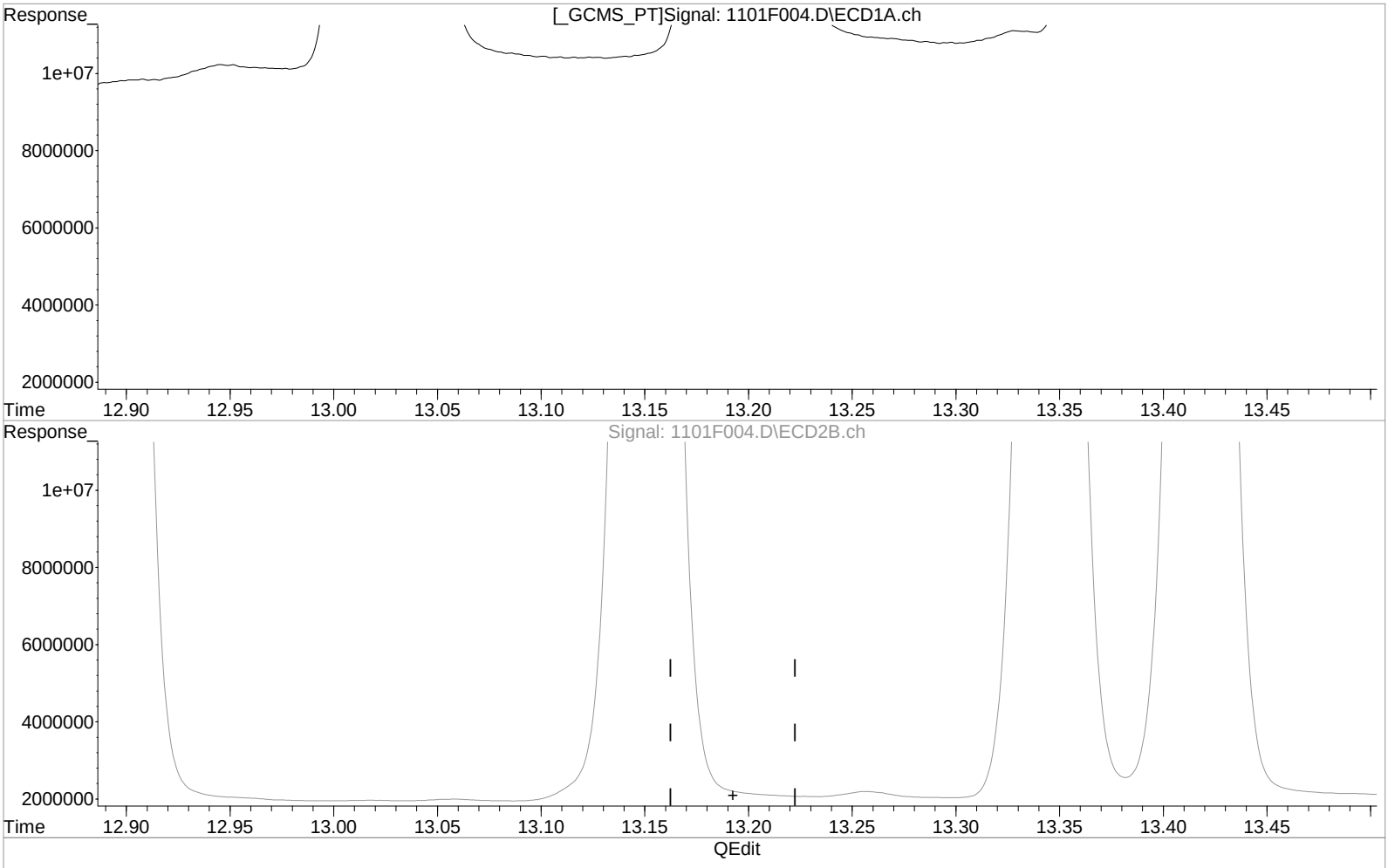
Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(12) beta-Chlordane (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(12) beta-Chlordane #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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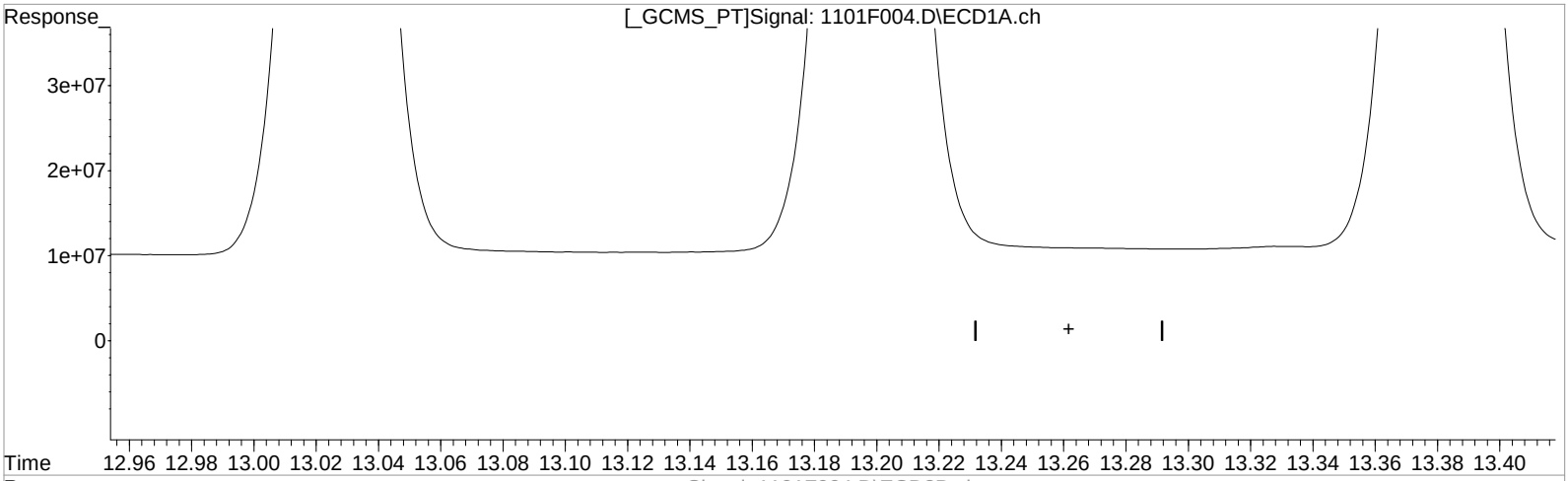
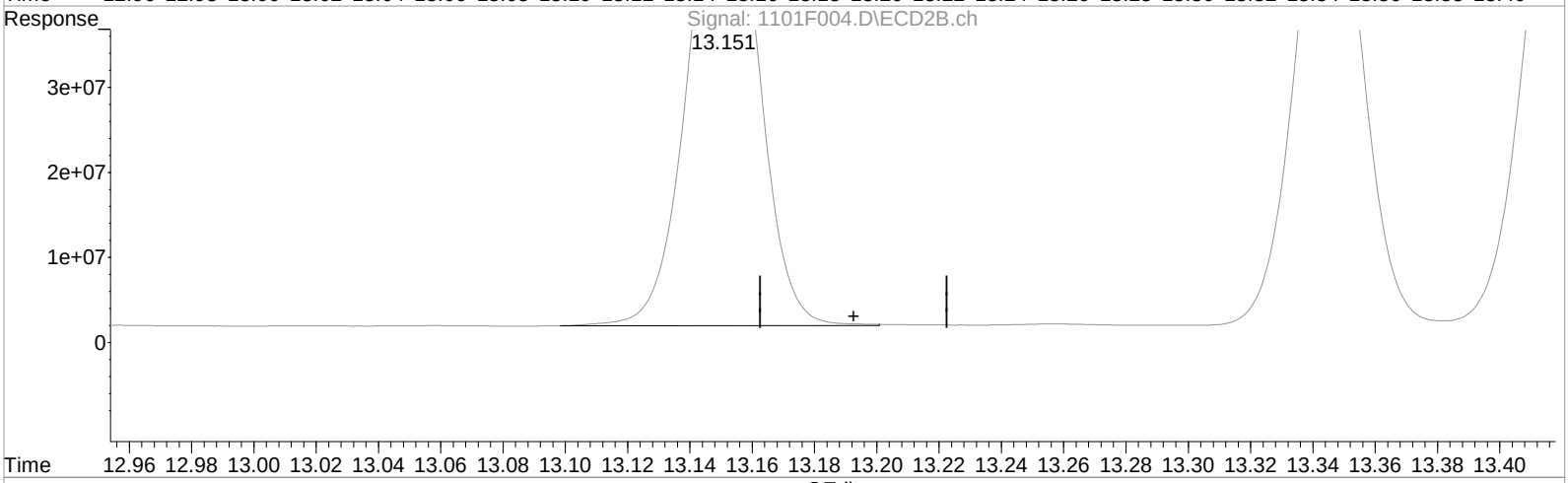
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(12) beta-Chlordane (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(12) beta-Chlordane #2 (m)

13.151min 79.865 ug/L m

response 90236289

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
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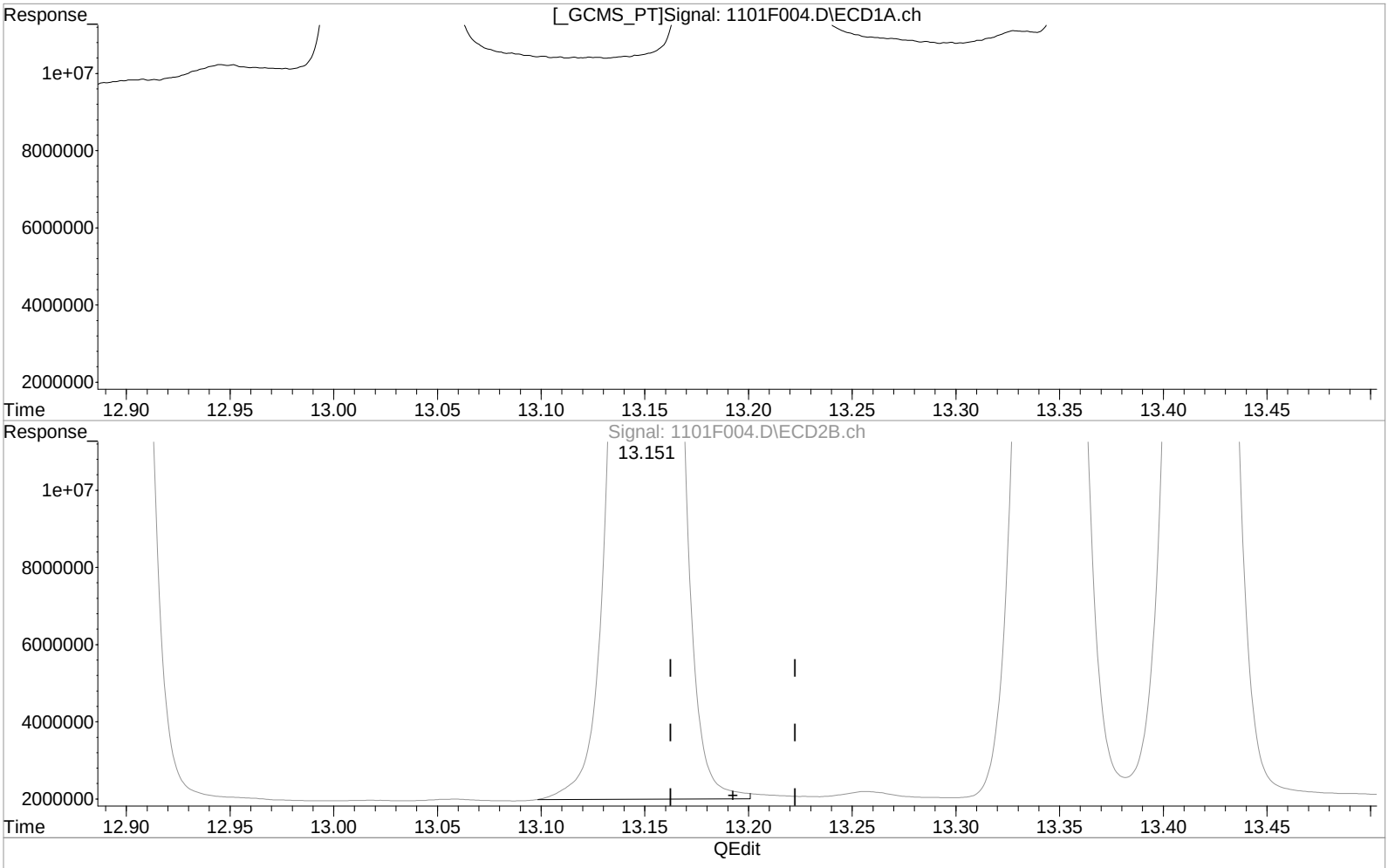
Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(12) beta-Chlordane (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(12) beta-Chlordane #2 (m)

13.151min 79.865 ug/L m

response 90236289

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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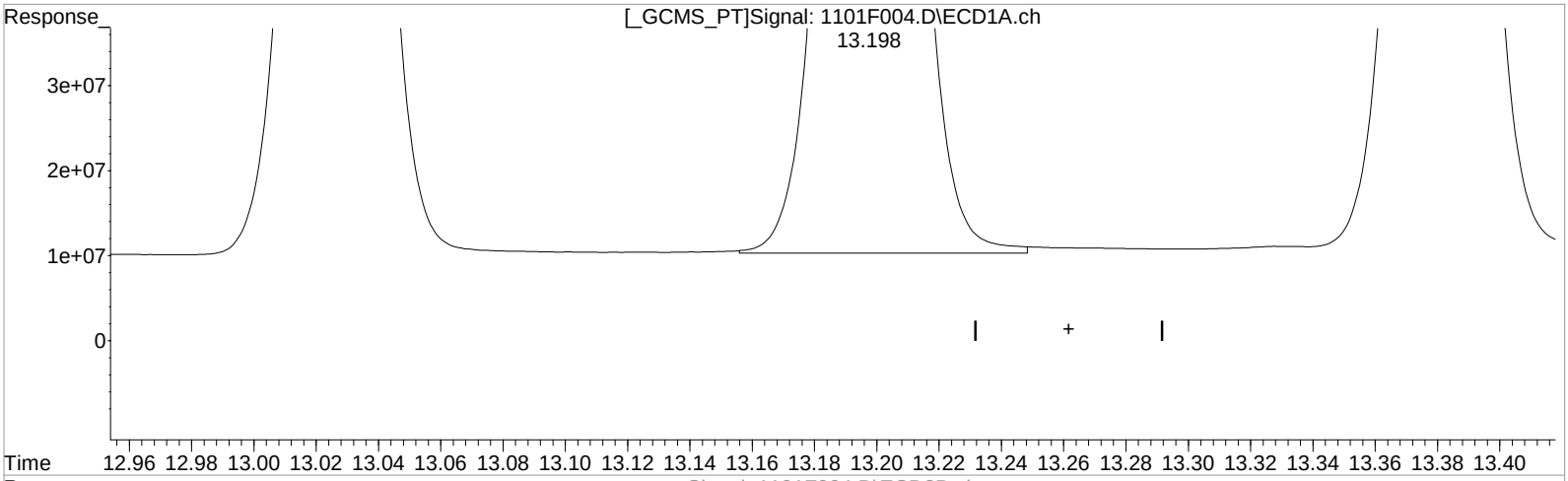
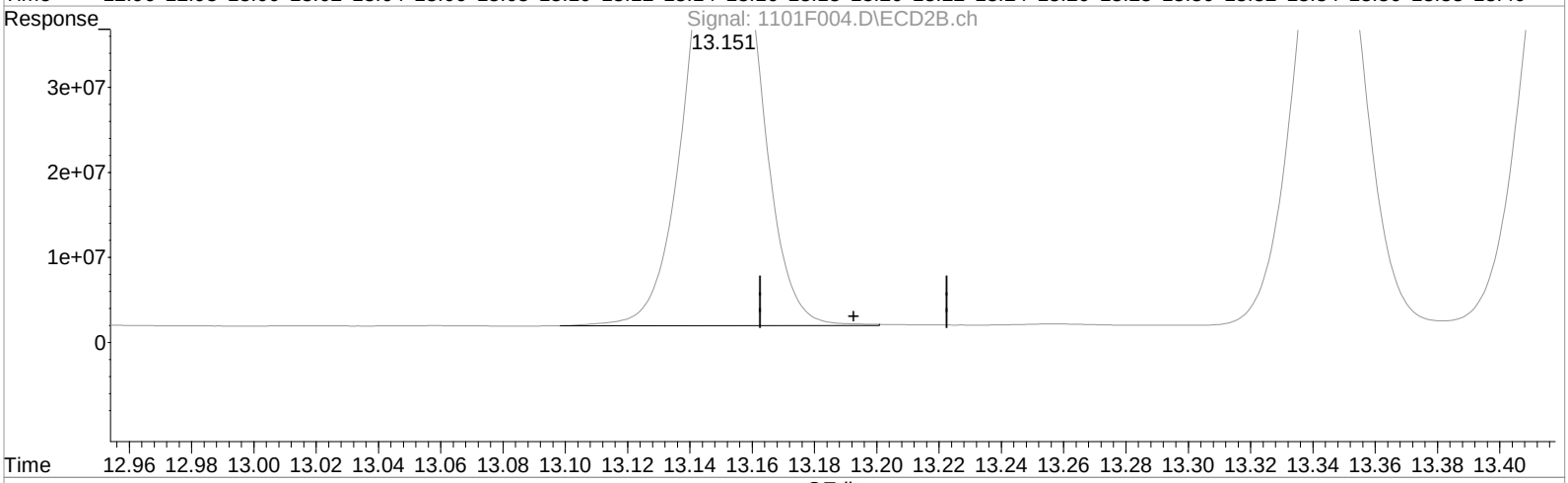
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(12) beta-Chlordane (m)

13.198min 76.322 ug/L m

response 288044761

Manual Integration:

After

Missed Peak

11/01/23

(12) beta-Chlordane #2 (m)

13.151min 79.865 ug/L m

response 90236289

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
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Quant Time: Nov 01 14:12:33 2023
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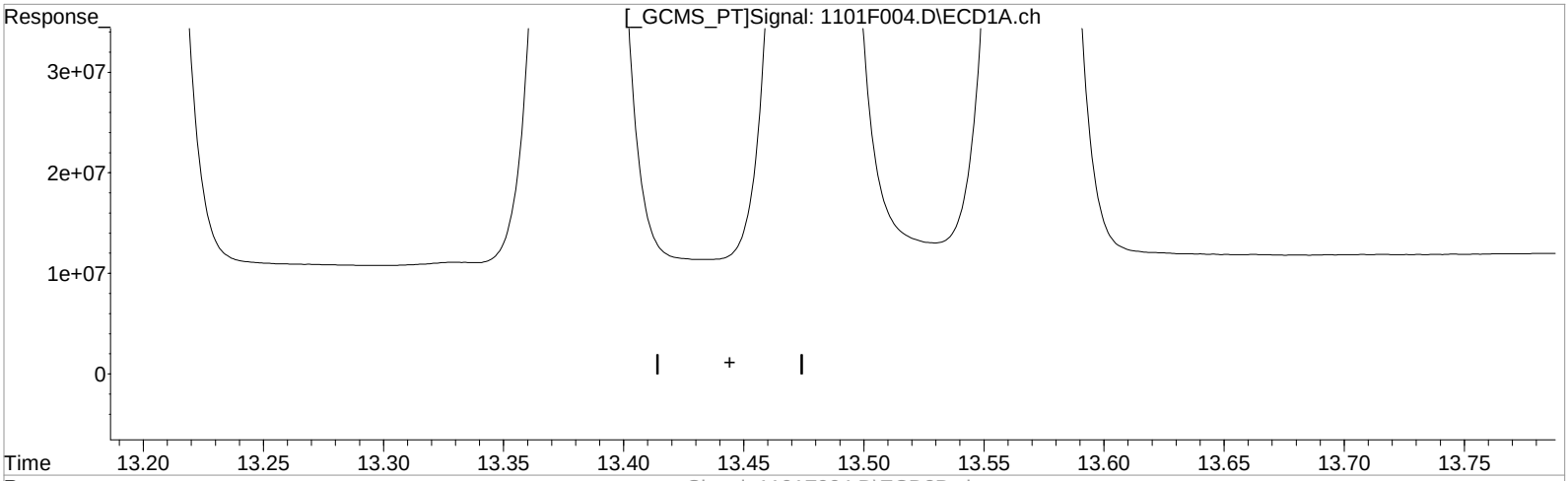
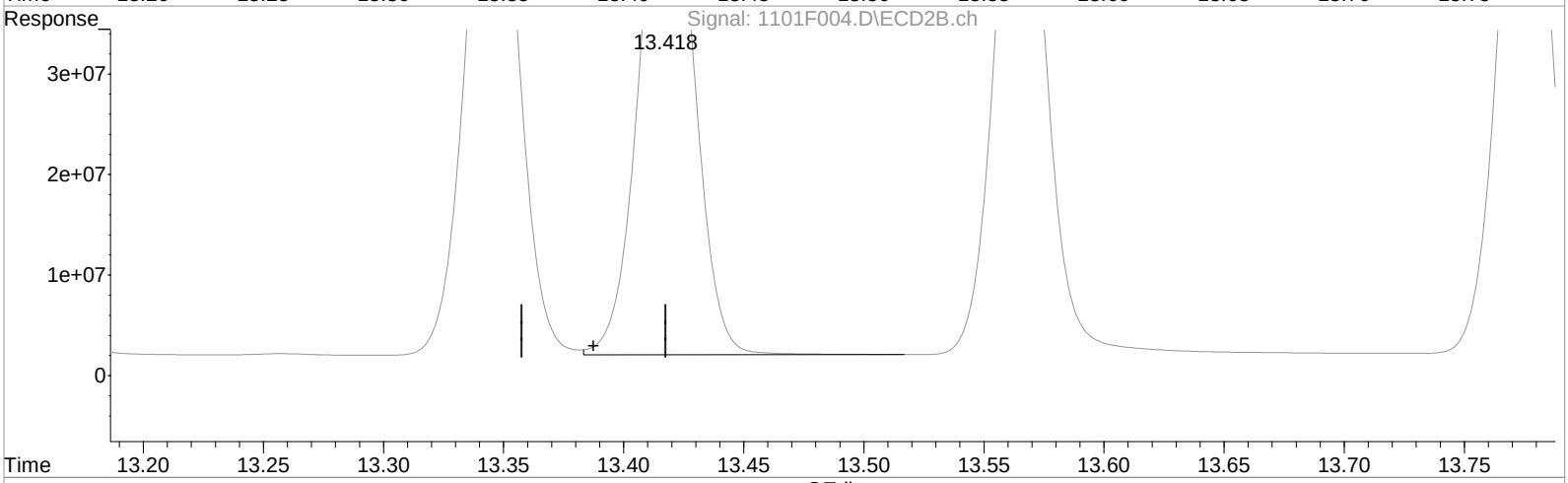
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(13) alpha-Chlordane (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(13) alpha-Chlordane #2 (m)

13.418min 76.075 ug/L

response 83142848

(+) = Expected Retention Time

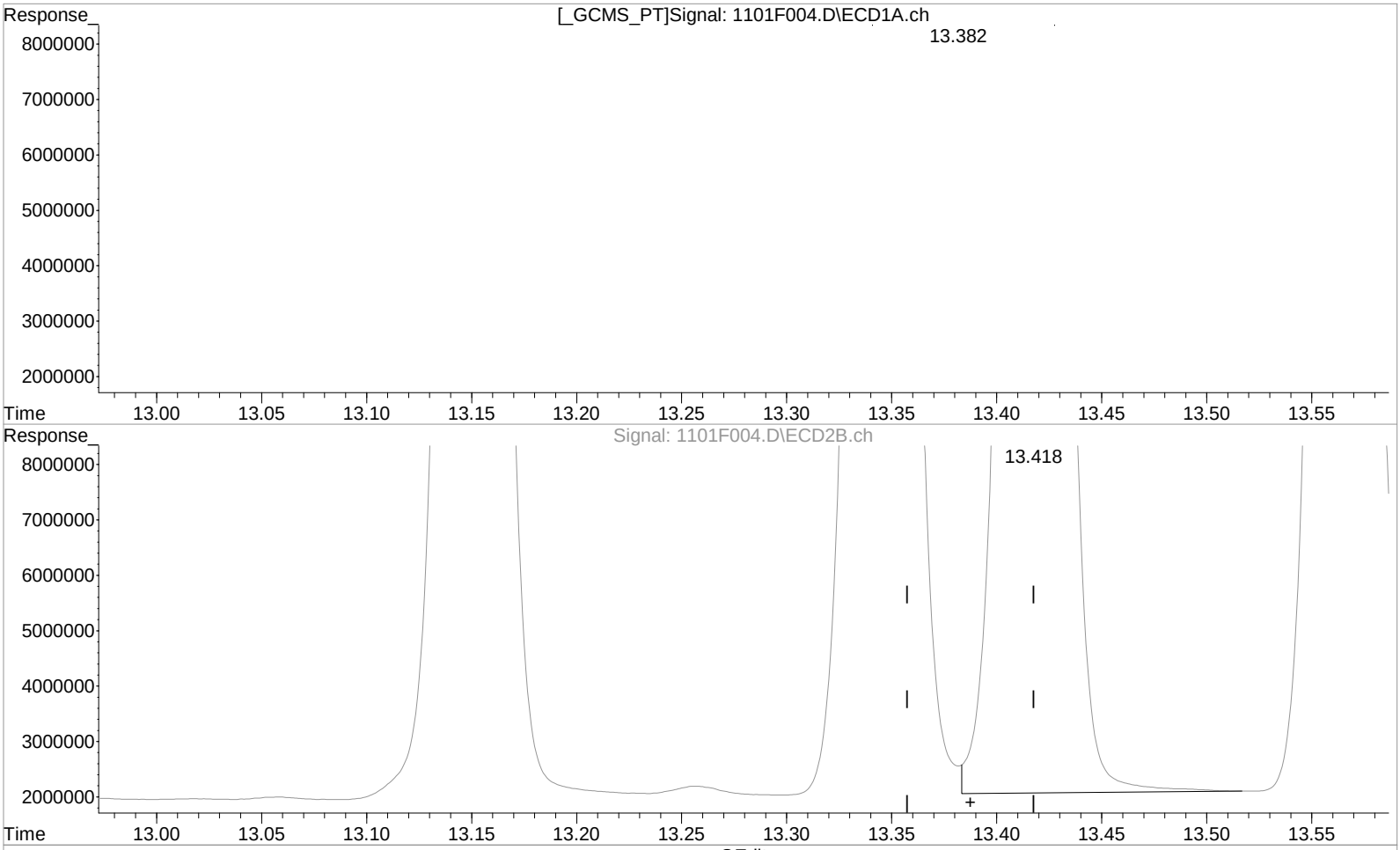
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(13) alpha-Chlordane (m)

13.382min 77.298 ug/L m

response 272580754

Manual Integration:

Before

11/01/23

(13) alpha-Chlordane #2 (m)

13.418min 76.075 ug/L

response 83142848

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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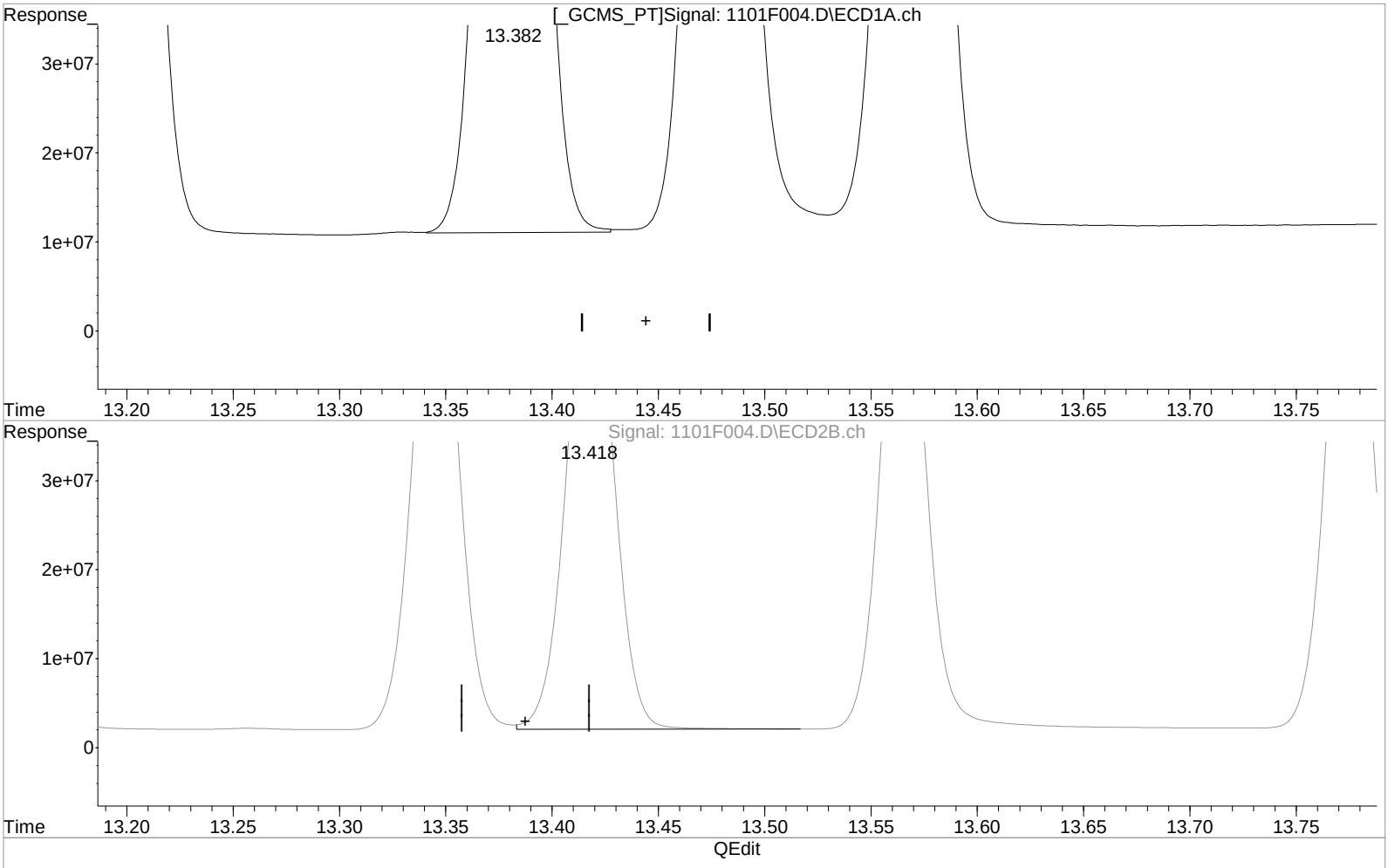
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(13) alpha-Chlordane (m)

13.382min 77.298 ug/L m

response 272580754

Manual Integration:

After

Missed Peak

11/01/23

(13) alpha-Chlordane #2 (m)

13.418min 76.075 ug/L

response 83142848

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
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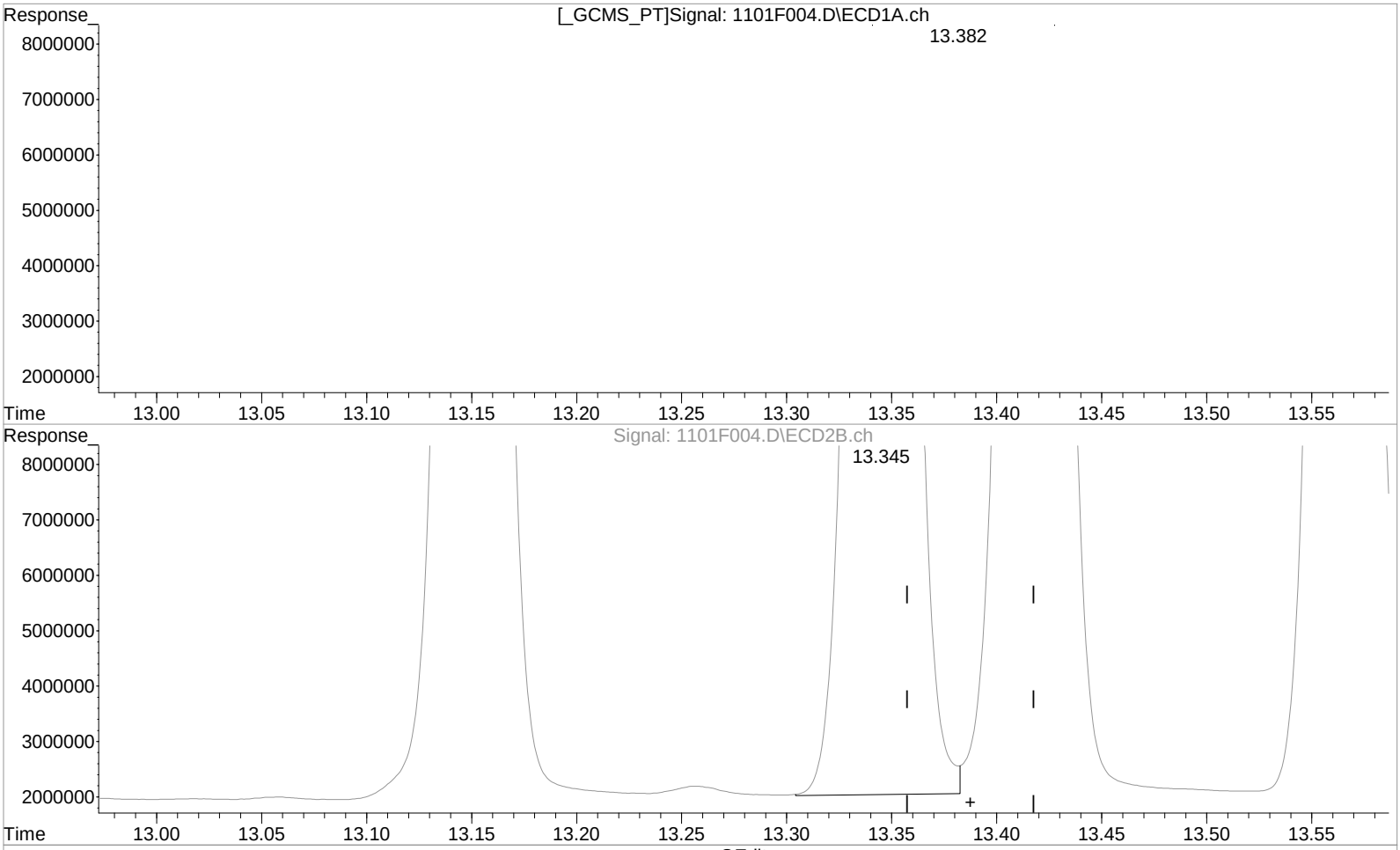
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(13) alpha-Chlordane (m)

13.382min 77.298 ug/L m

response 272580754

Manual Integration:

After

Missed Peak

11/01/23

(13) alpha-Chlordane #2 (m)

13.345min 79.215 ug/L m

response 86574080

(+) = Expected Retention Time

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
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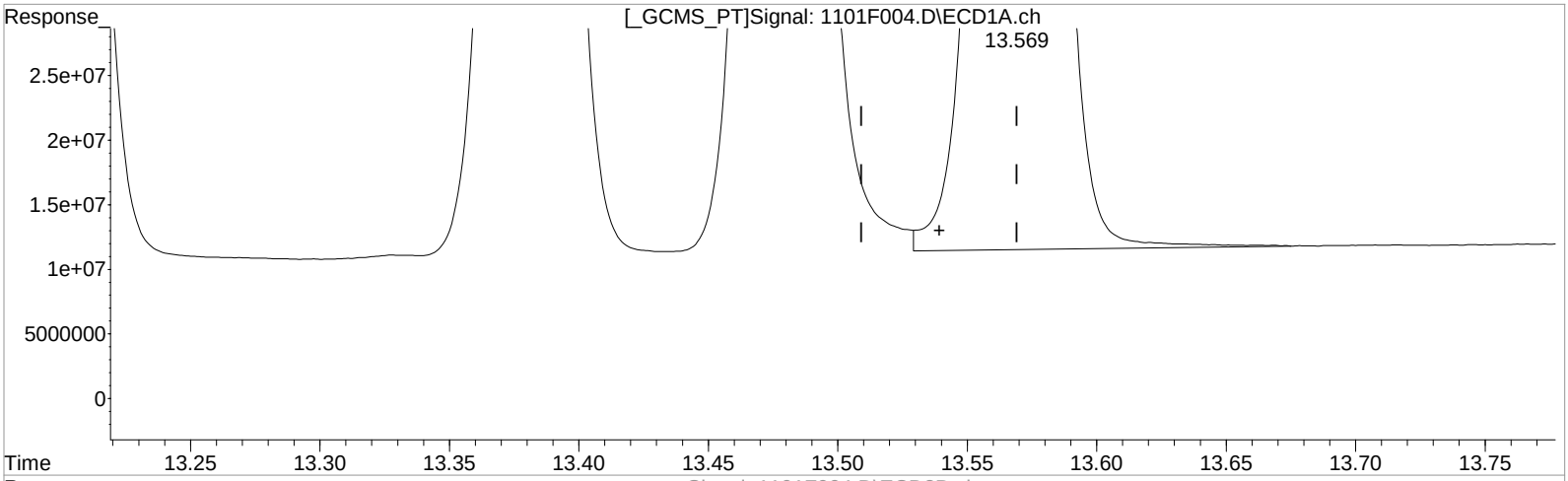
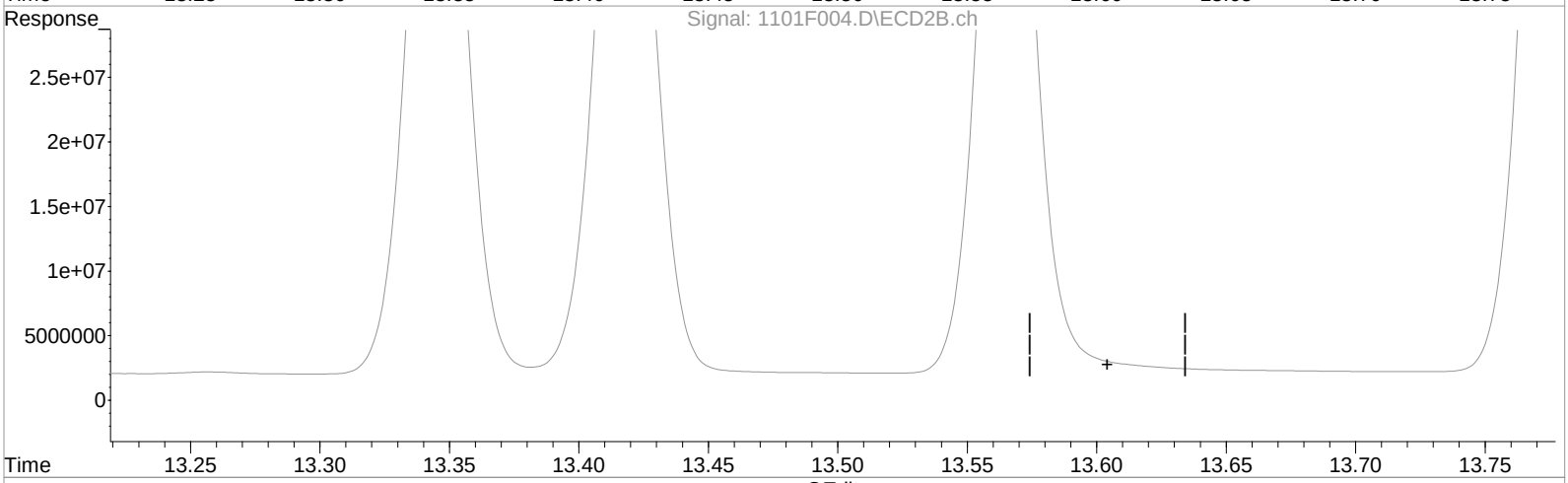
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(14) 4,4'-DDE (m)

13.569min 88.205 ug/L

response 265723826

Manual Integration:

Before

11/01/23

(14) 4,4'-DDE #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

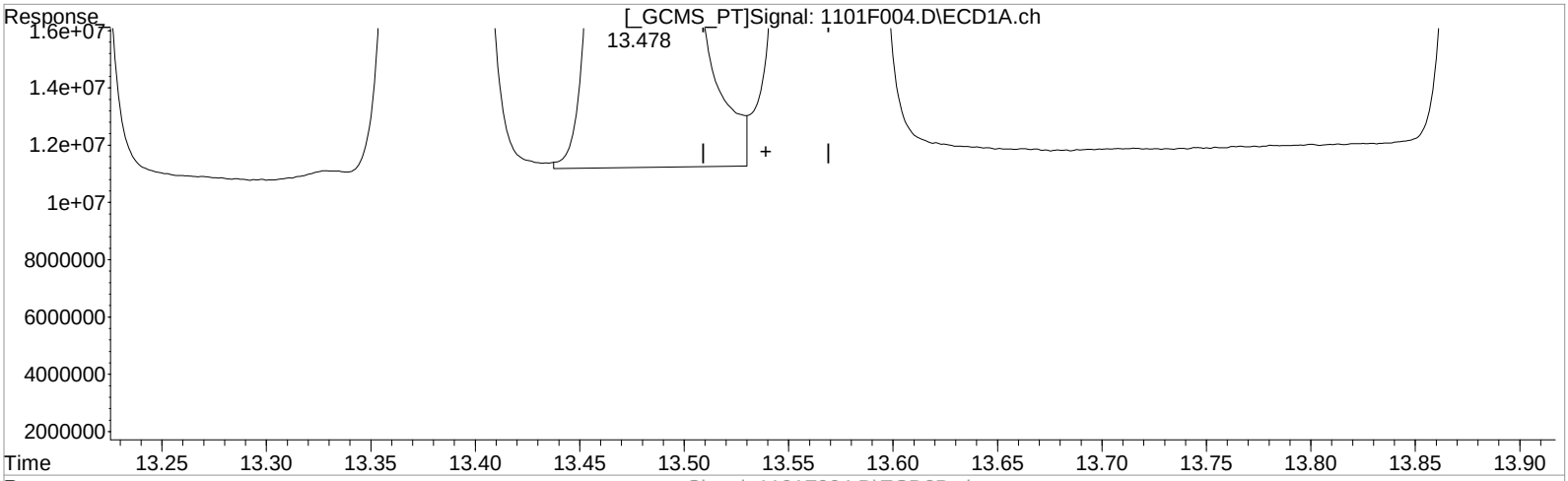
Quantitation Report (Qedit)

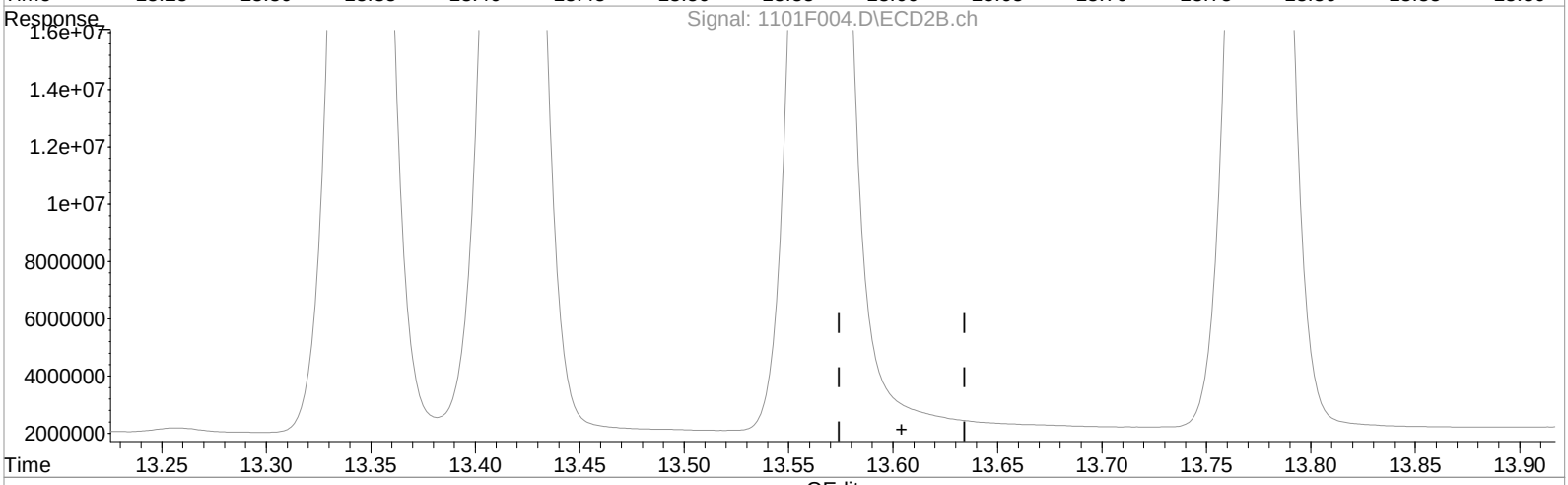
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(14) 4,4'-DDE (m)

13.478min 87.017 ug/L m

response 262146631

(14) 4,4'-DDE #2 (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(+) = Expected Retention Time

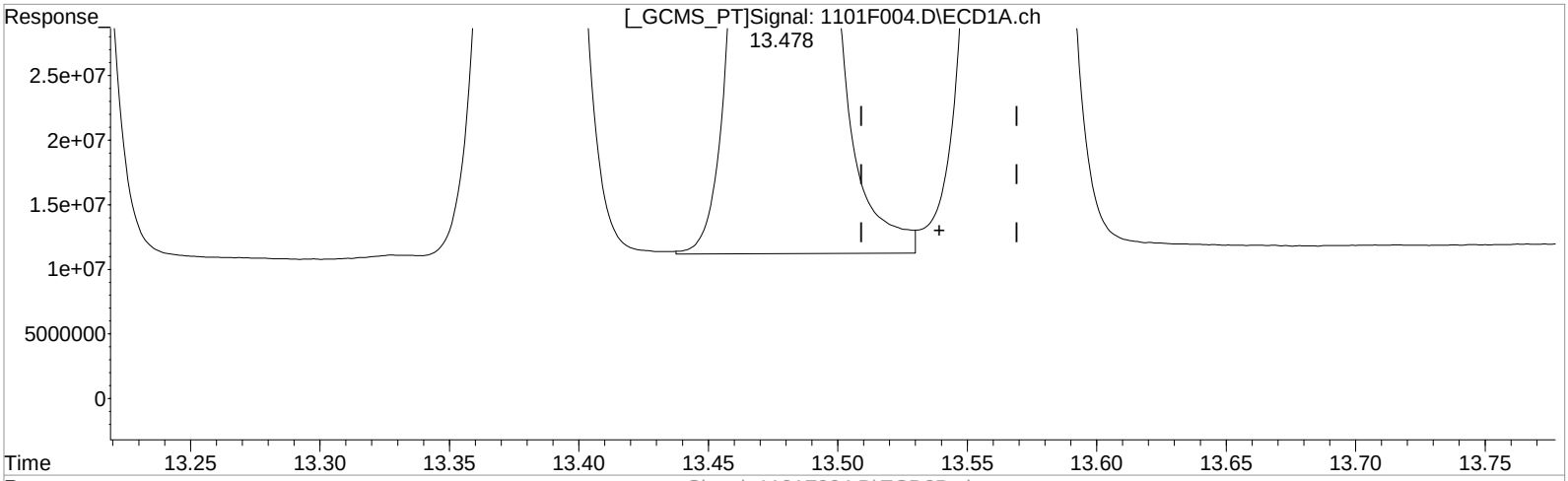
Quantitation Report (Qedit)

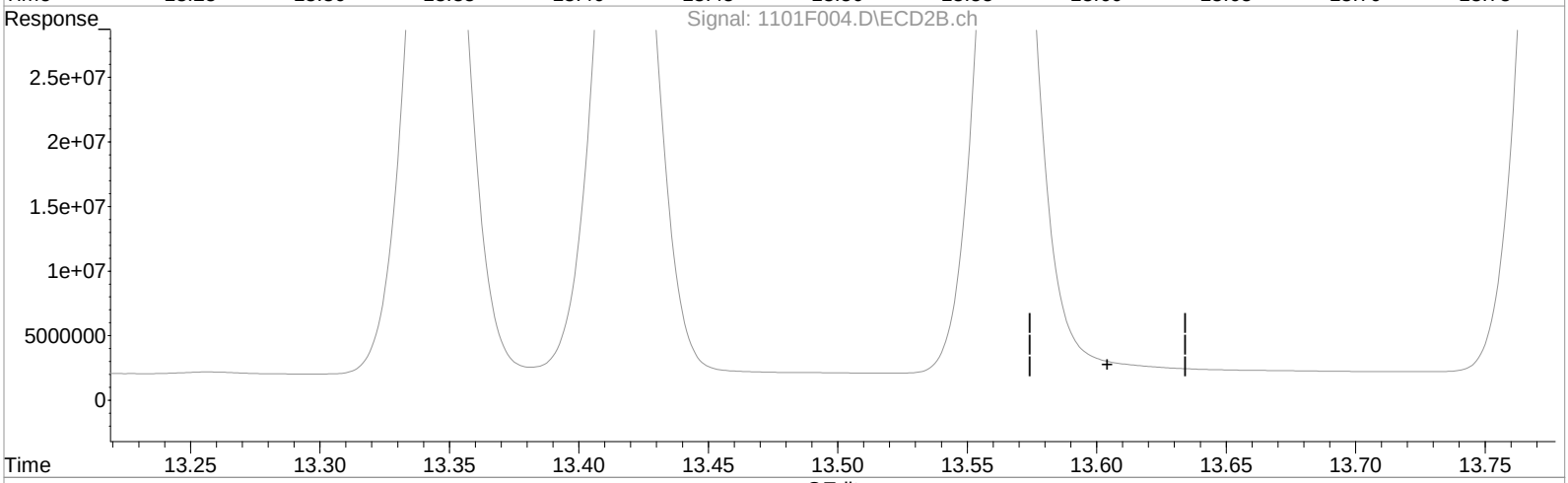
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(14) 4,4'-DDE (m)

13.478min 87.017 ug/L m

response 262146631

Manual Integration:

After

Missed Peak

11/01/23

(14) 4,4'-DDE #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

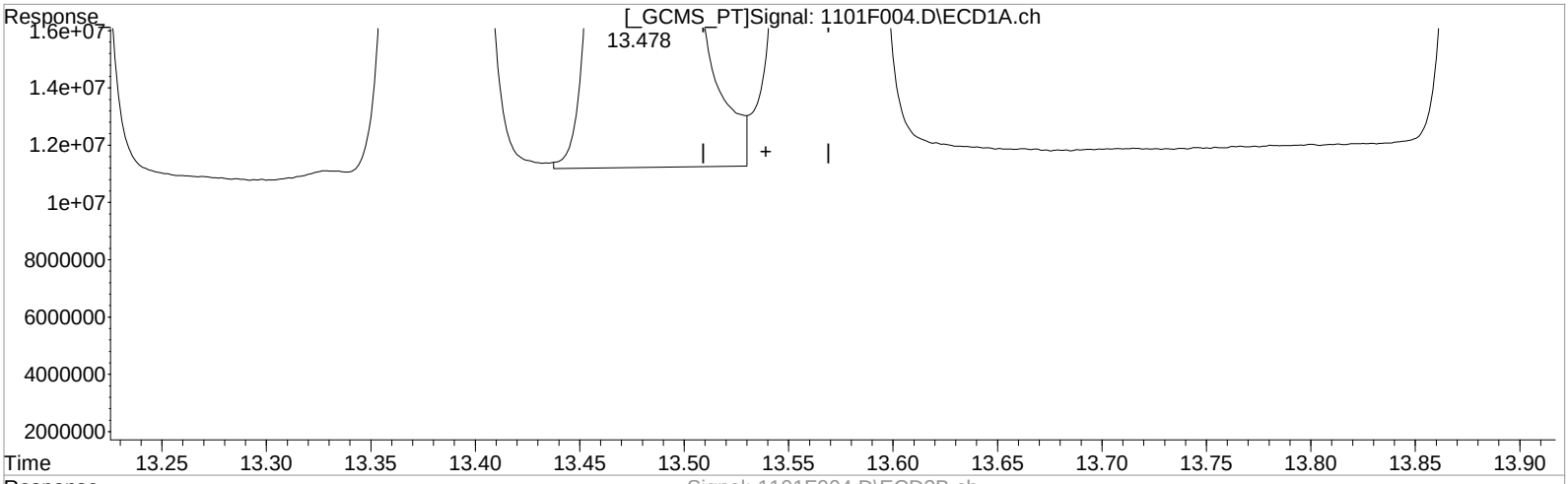
Quantitation Report (Qedit)

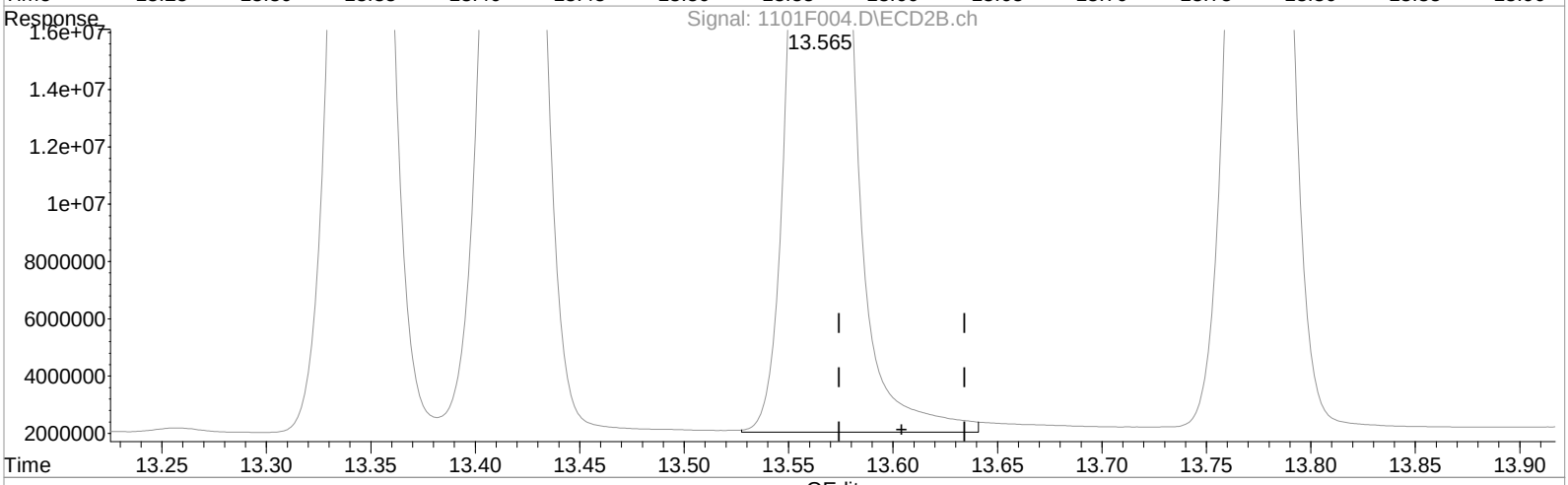
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(14) 4,4'-DDE (m)

13.478min 87.017 ug/L m

response 262146631

Manual Integration:

After

Missed Peak

11/01/23

(14) 4,4'-DDE #2 (m)

13.565min 90.131 ug/L m

response 86201191

(+) = Expected Retention Time

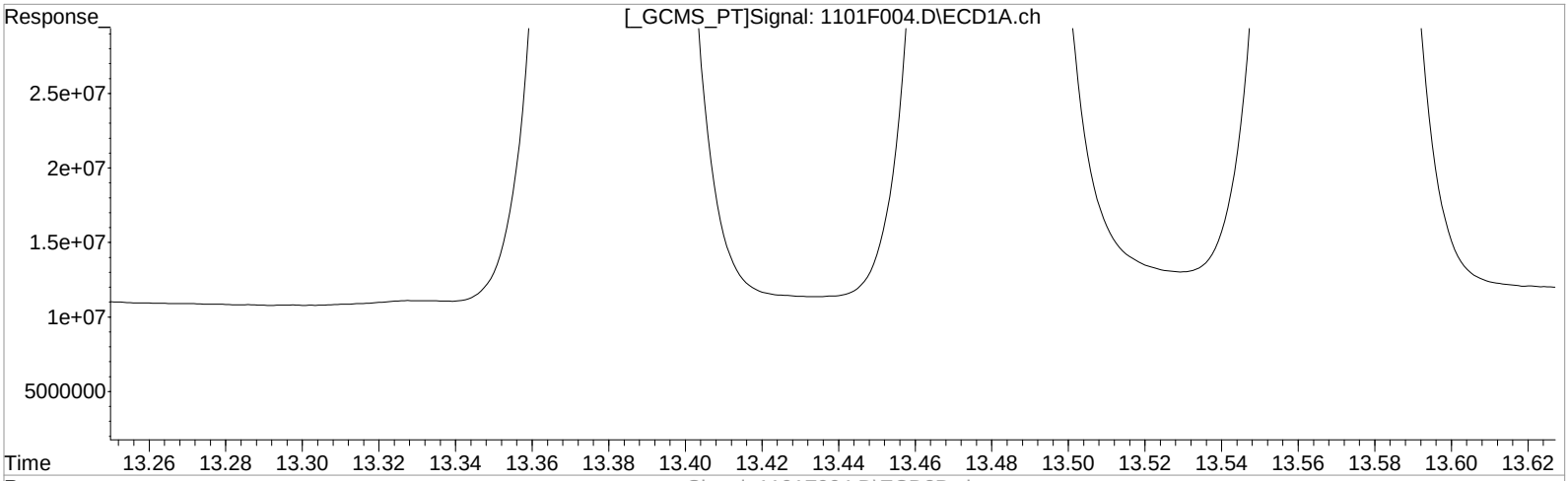
Quantitation Report (Qedit)

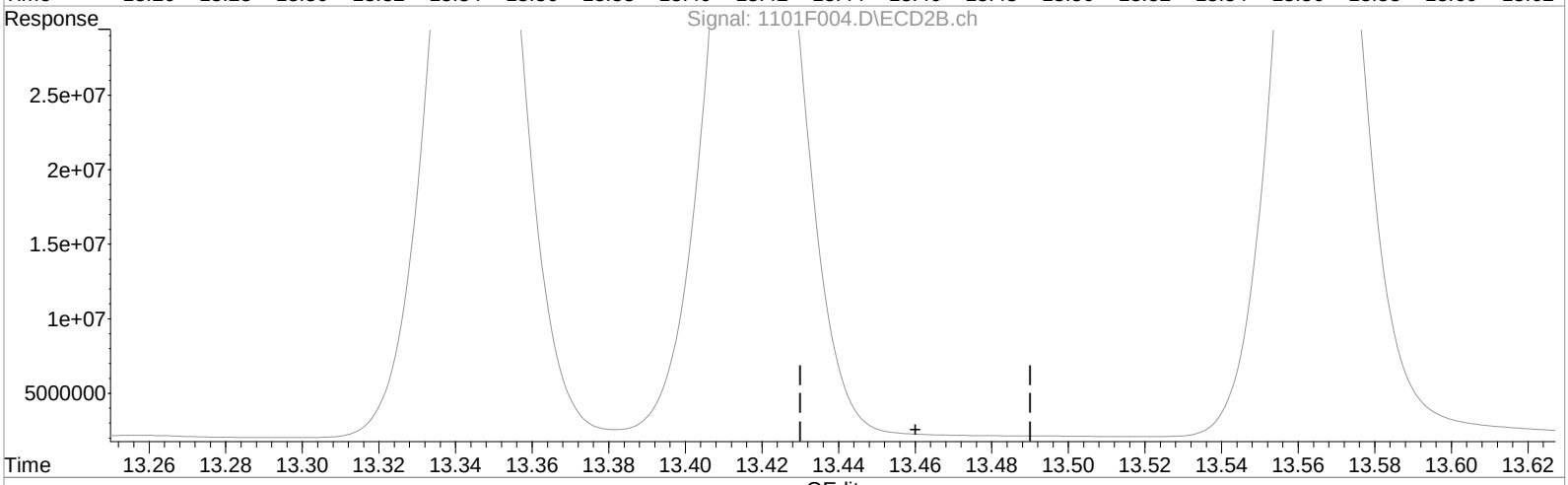
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(15) Endosulfan I (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(15) Endosulfan I #2 (m)

0.000min 0.000 ug/L

response 0

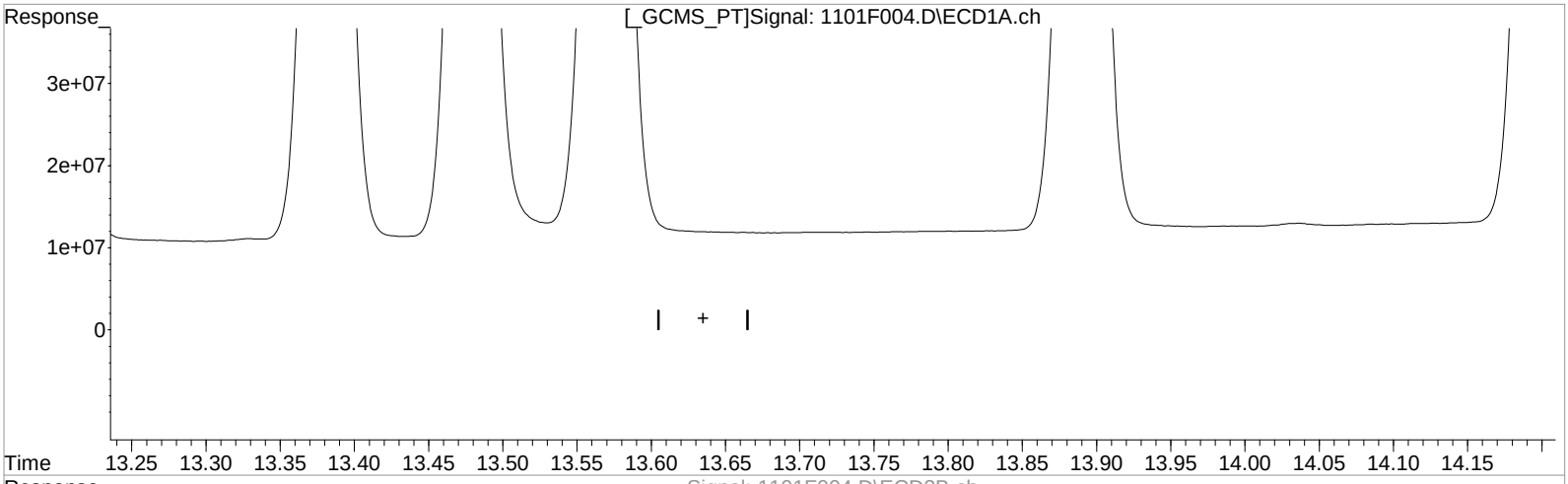
(+) = Expected Retention Time

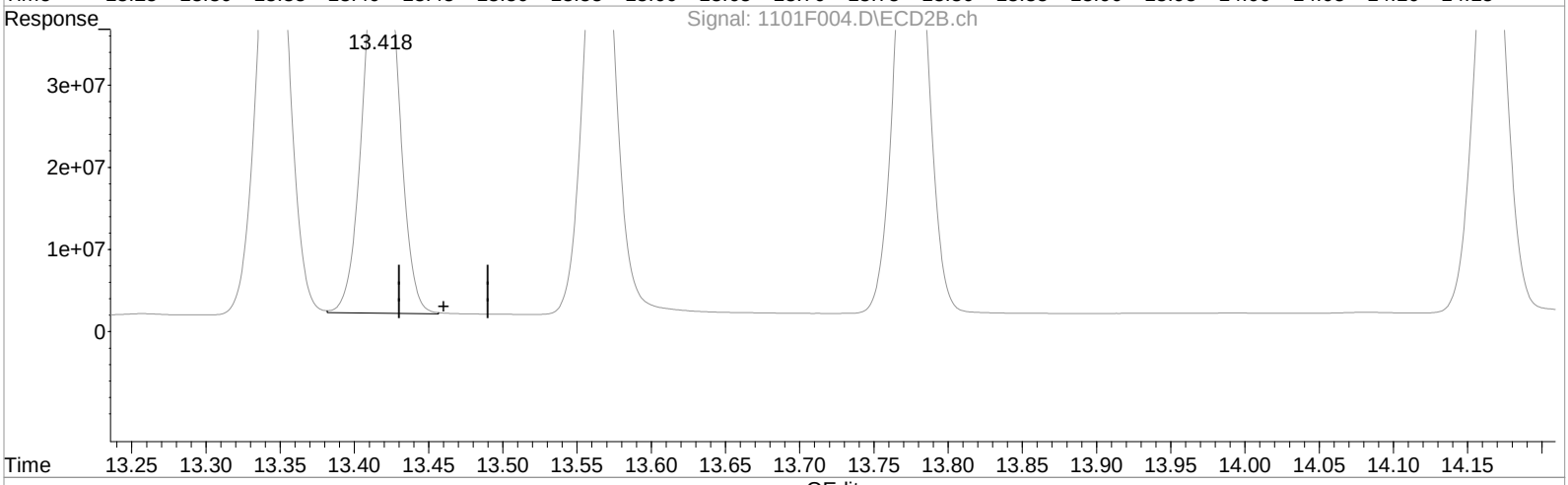
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(15) Endosulfan I (m)

0.000min 0.000 ug/L

response 0

(15) Endosulfan I #2 (m)

13.418min 82.703 ug/L m

response 82161590

Manual Integration:

Before

11/01/23

(+) = Expected Retention Time

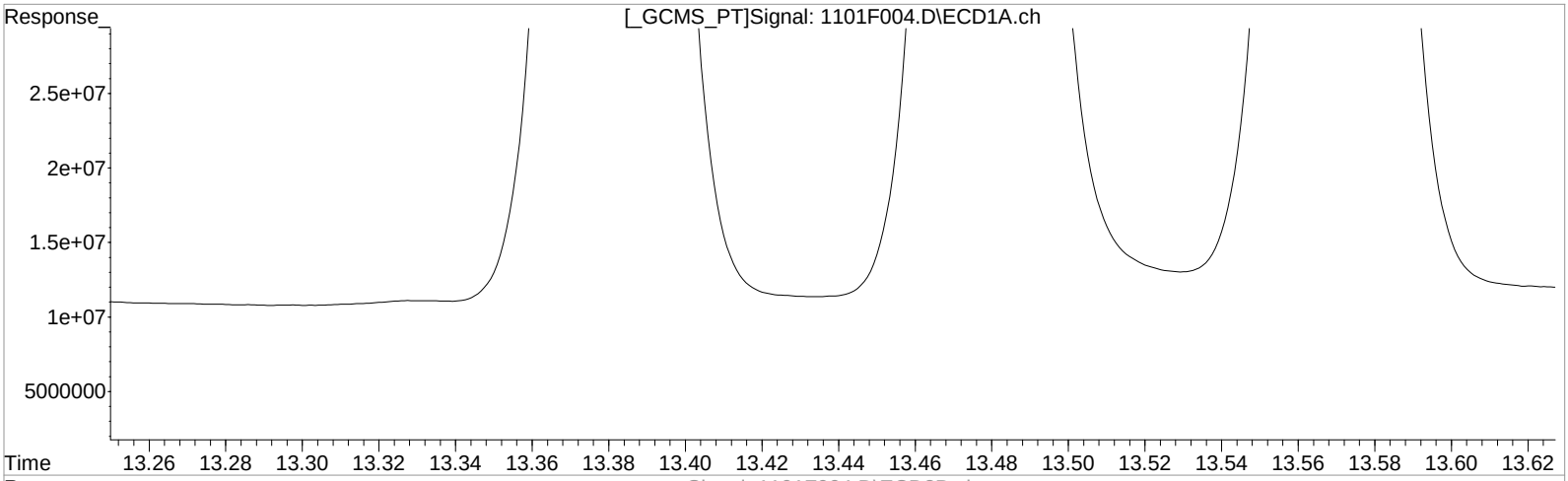
Quantitation Report (Qedit)

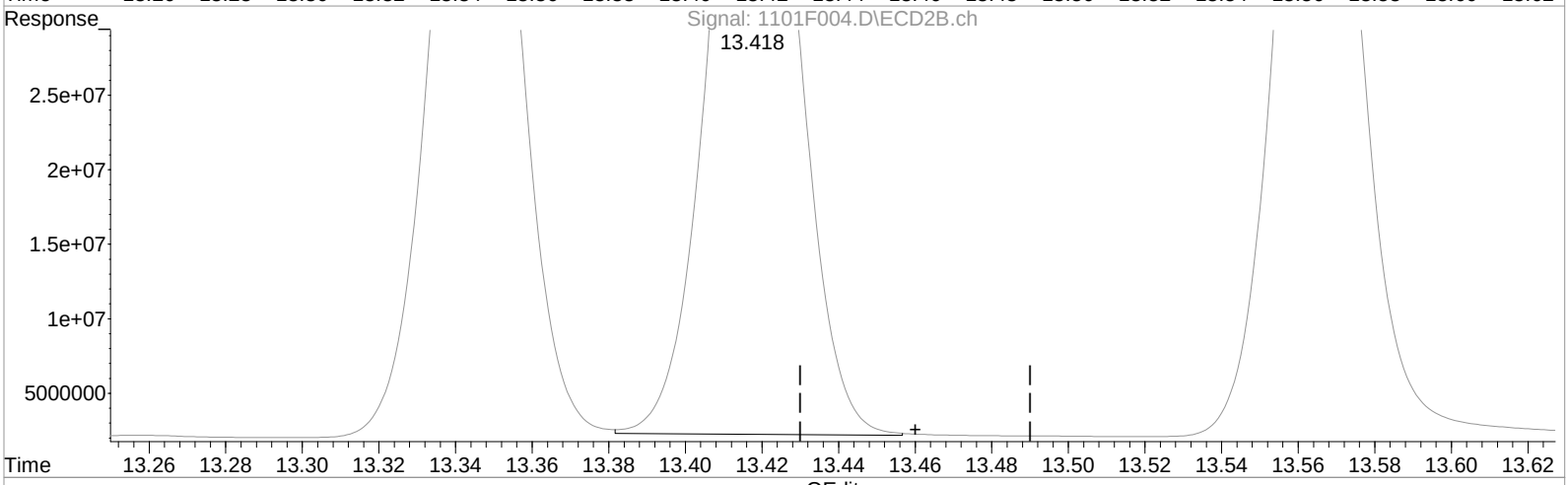
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(15) Endosulfan I (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(15) Endosulfan I #2 (m)

13.418min 82.703 ug/L m

response 82161590

(+) = Expected Retention Time

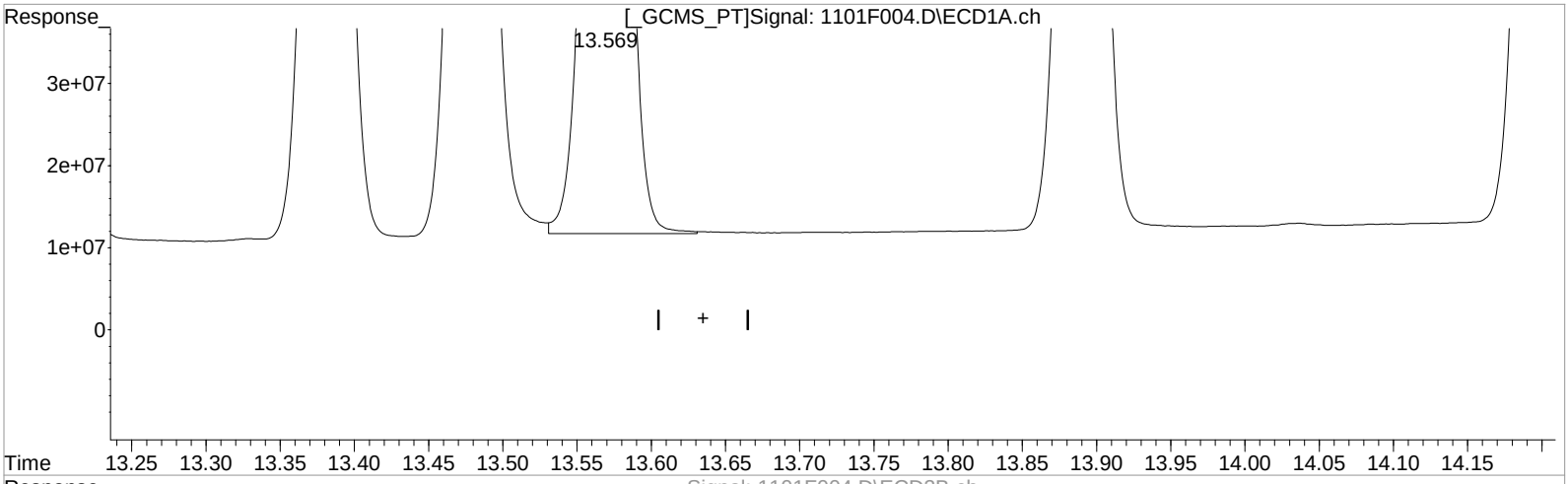
Quantitation Report (Qedit)

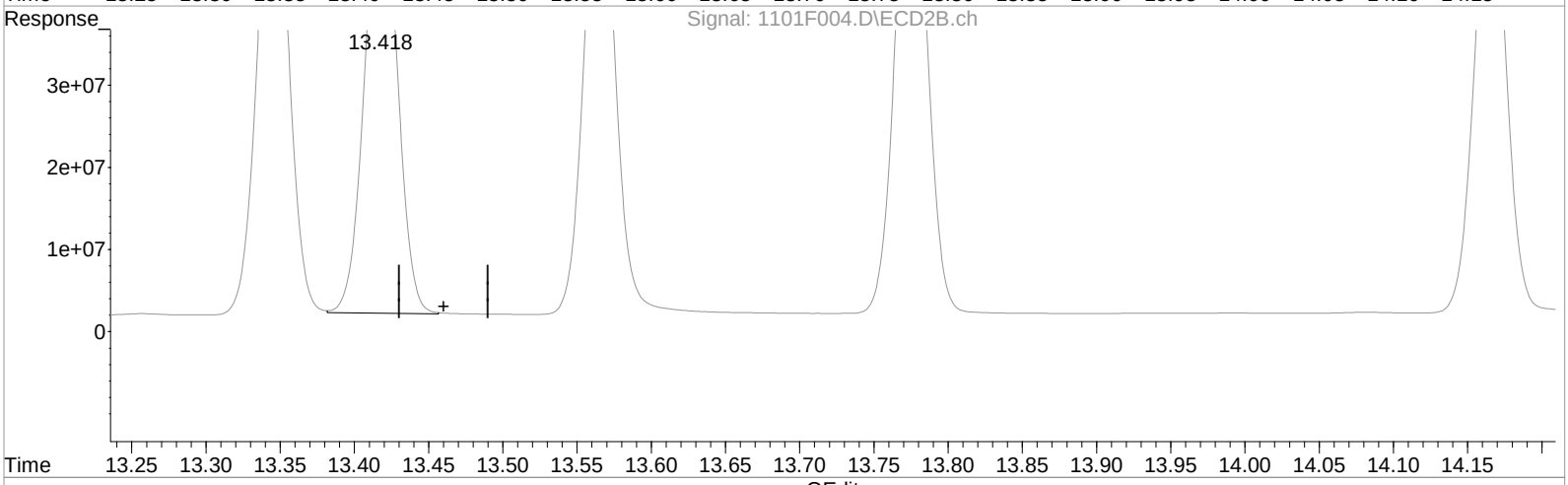
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(15) Endosulfan I (m)

13.569min 80.918 ug/L m

response 264154847

Manual Integration:

After

Missed Peak

11/01/23

(15) Endosulfan I #2 (m)

13.418min 82.703 ug/L m

response 82161590

(+) = Expected Retention Time

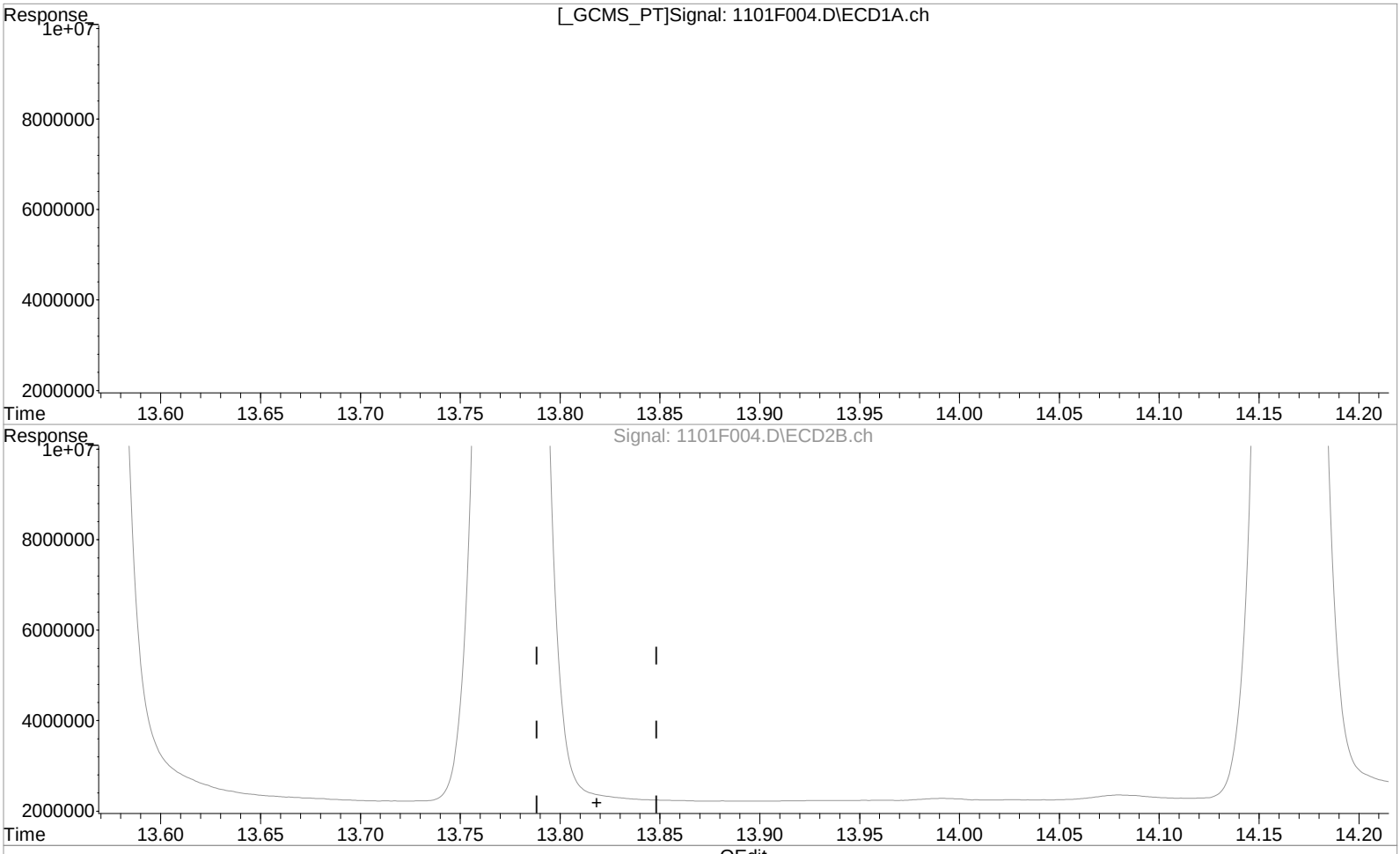
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(16) Dieldrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(16) Dieldrin #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
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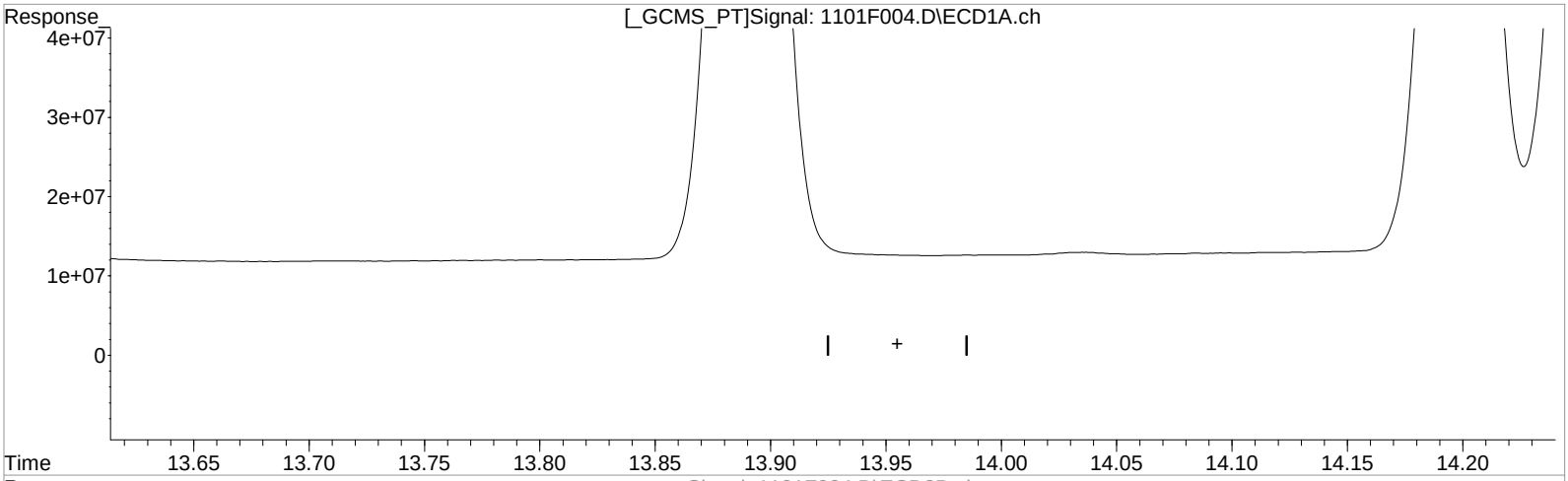
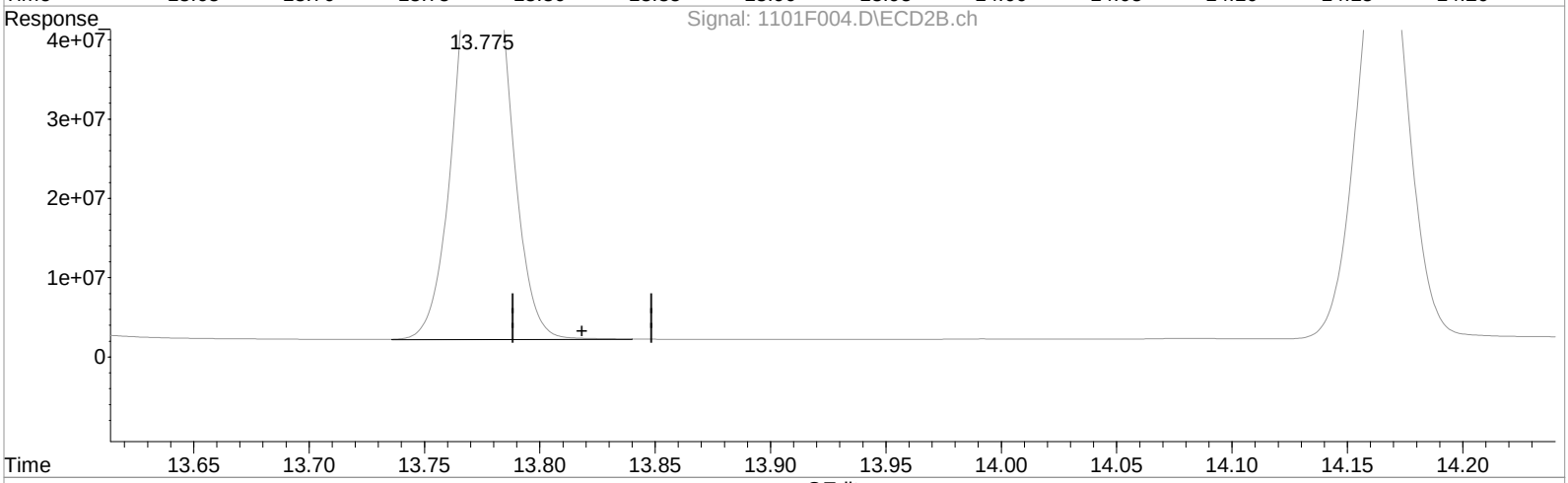
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(16) Dieldrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(16) Dieldrin #2 (m)

13.775min 83.666 ug/L m

response 92331156

(+) = Expected Retention Time

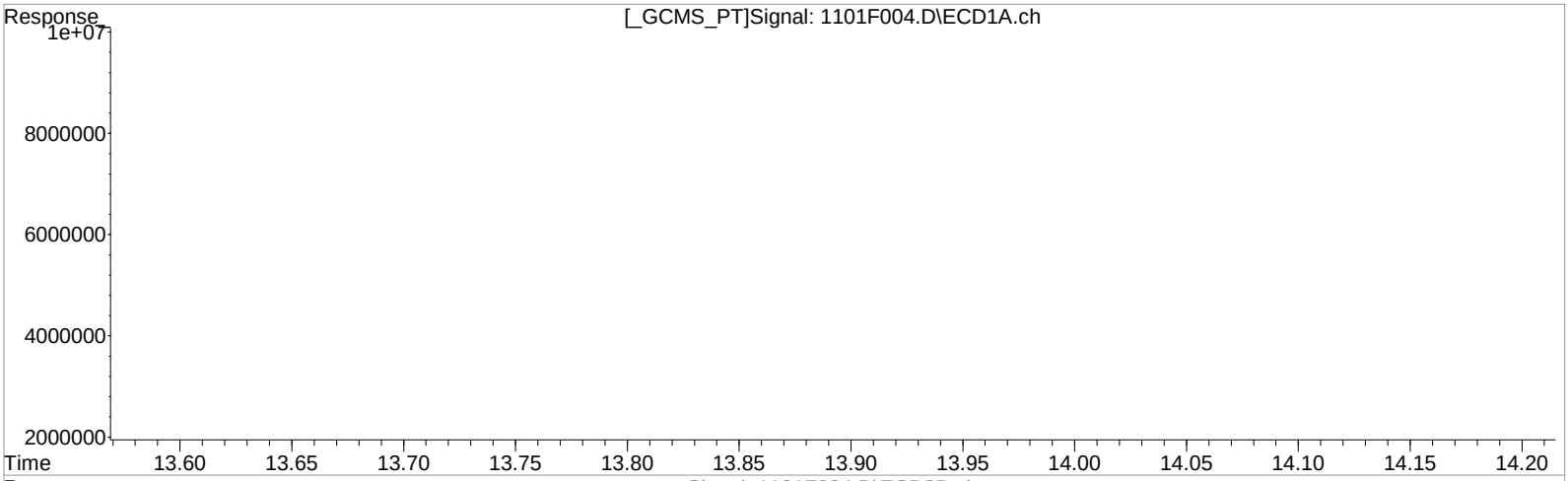
Quantitation Report (Qedit)

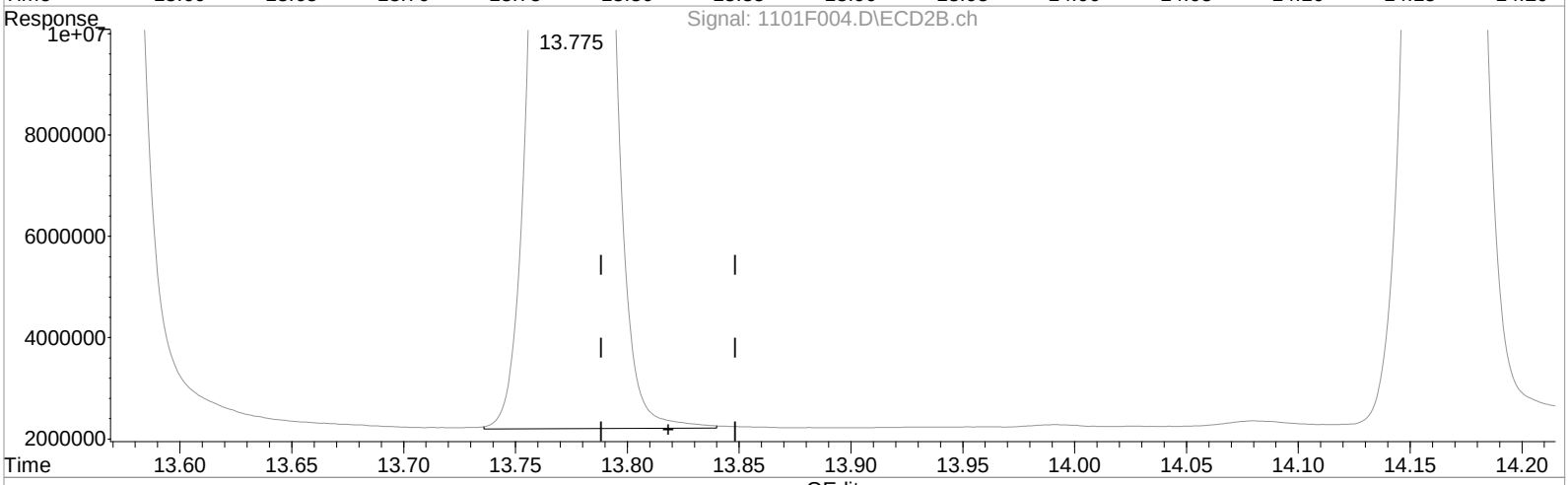
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(16) Dieldrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Wrong Peak

11/01/23

(16) Dieldrin #2 (m)

13.775min 83.666 ug/L m

response 92331156

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
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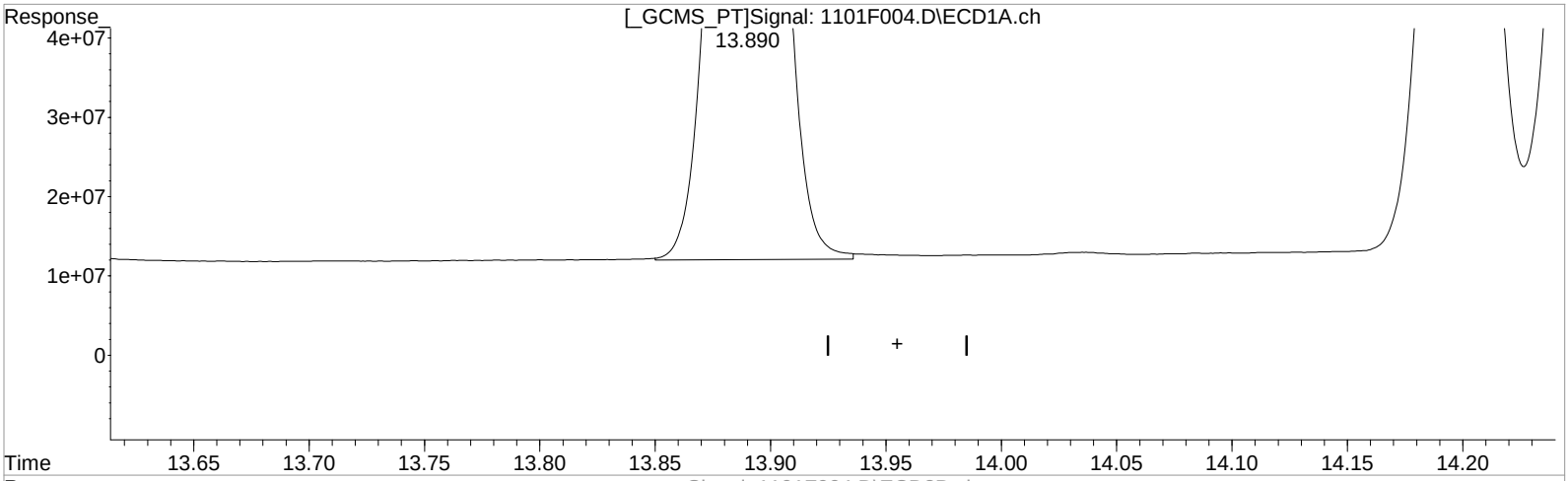
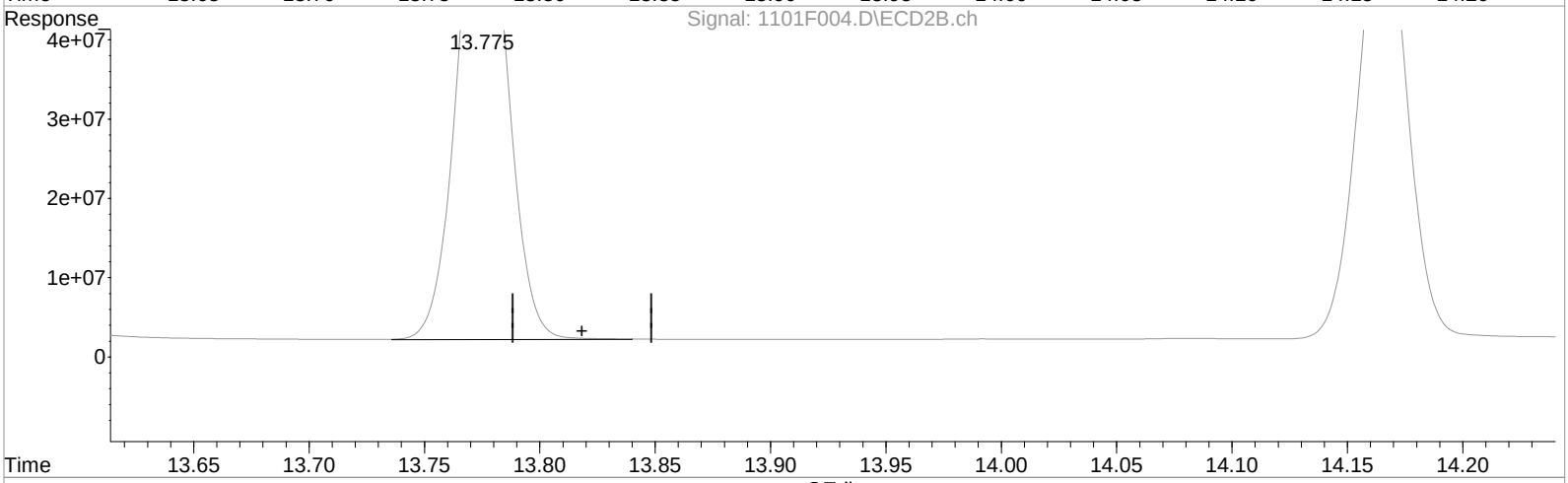
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(16) Dieldrin (m)

13.890min 82.661 ug/L m

response 290358625

Manual Integration:

After

Missed Peak

11/01/23

(16) Dieldrin #2 (m)

13.775min 83.666 ug/L m

response 92331156

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Sample : DWSTD08-85L 608 75PPB Inst : GC33
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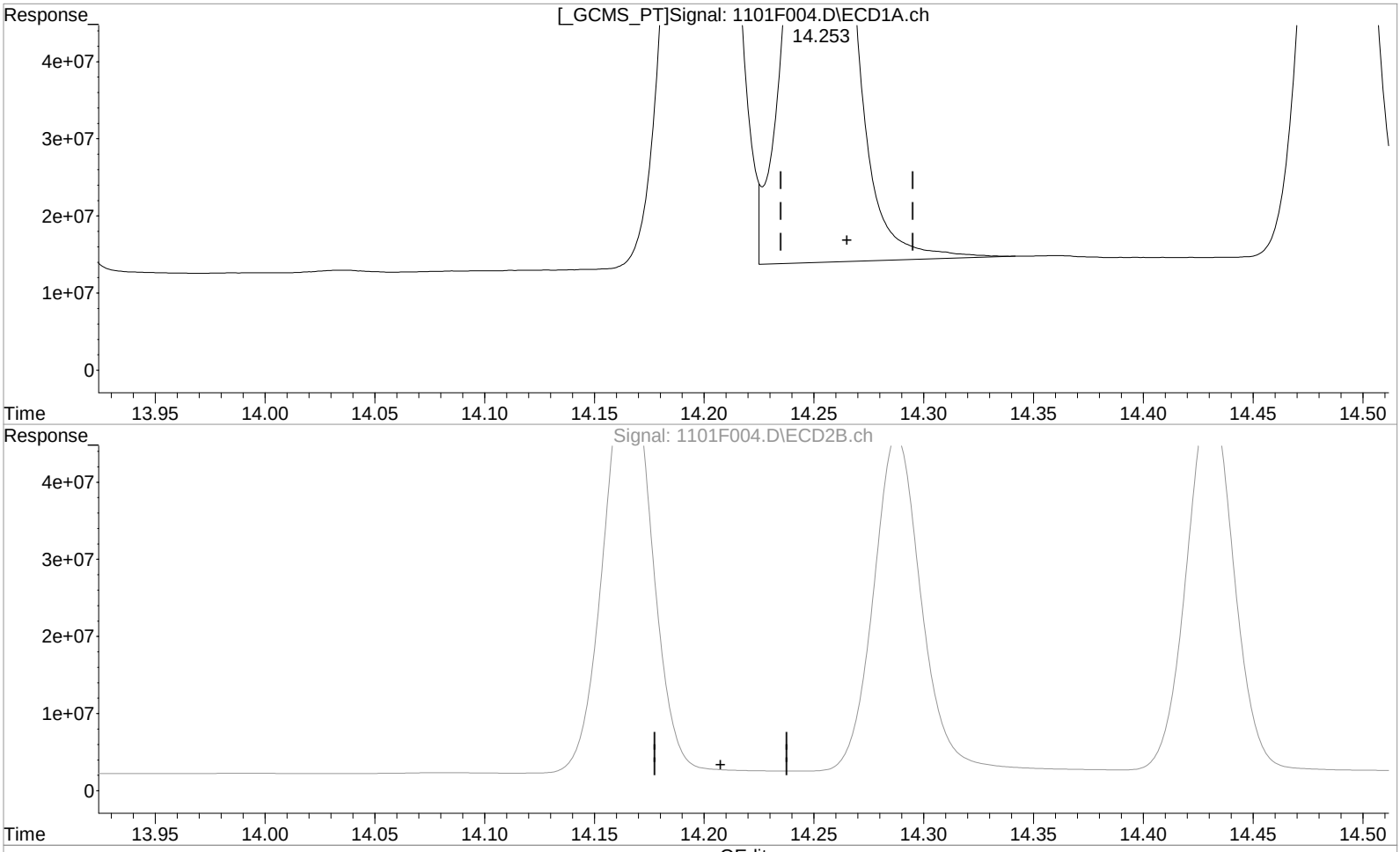
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(17) Endrin (m)

14.253min 67.469 ug/L

response 187012710

Manual Integration:

Before

11/01/23

(17) Endrin #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

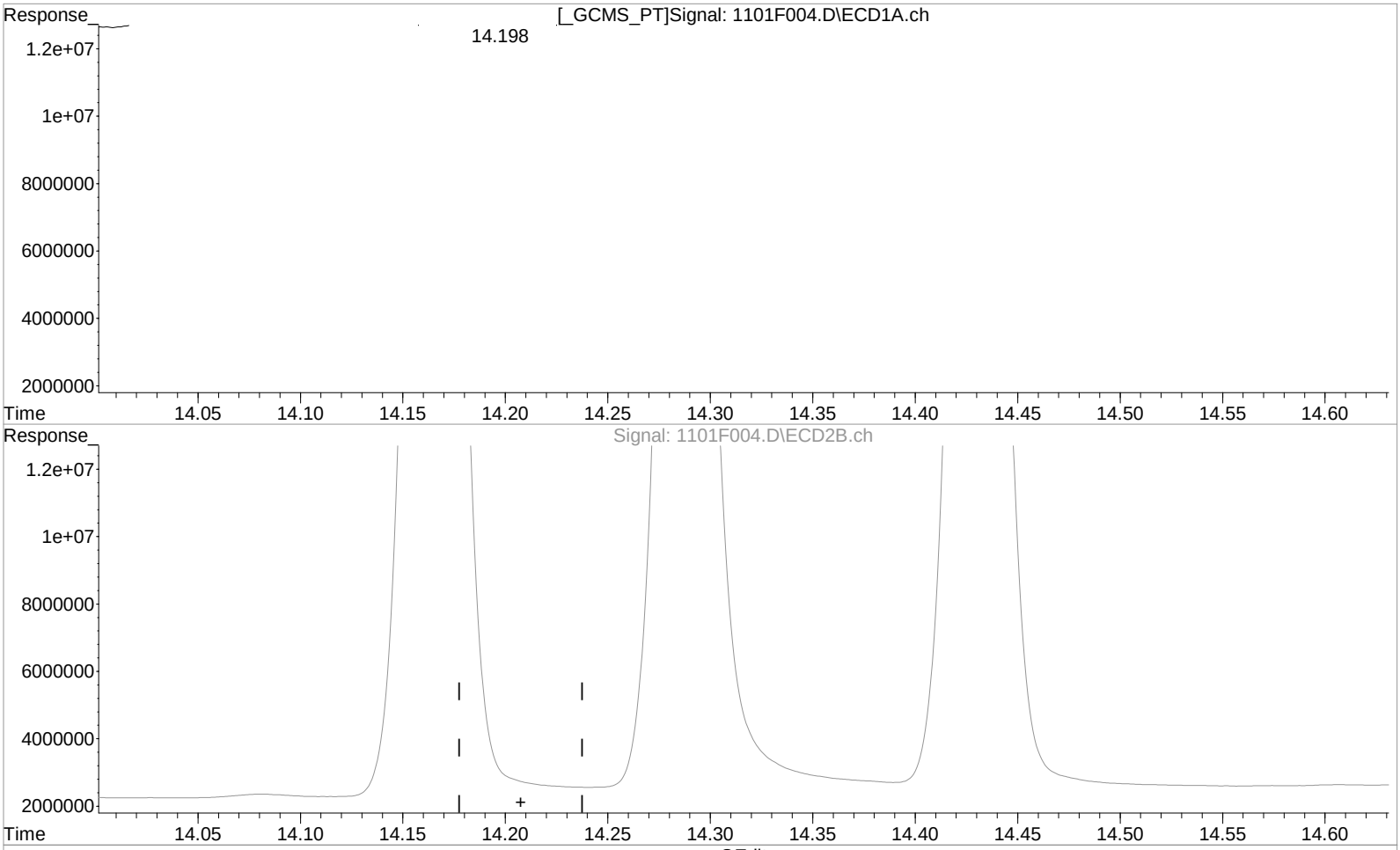
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(17) Endrin (m)

14.198min 92.518 ug/L m

response 256443744

Manual Integration:

Before

11/01/23

(17) Endrin #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
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Quant Time: Nov 01 14:12:33 2023
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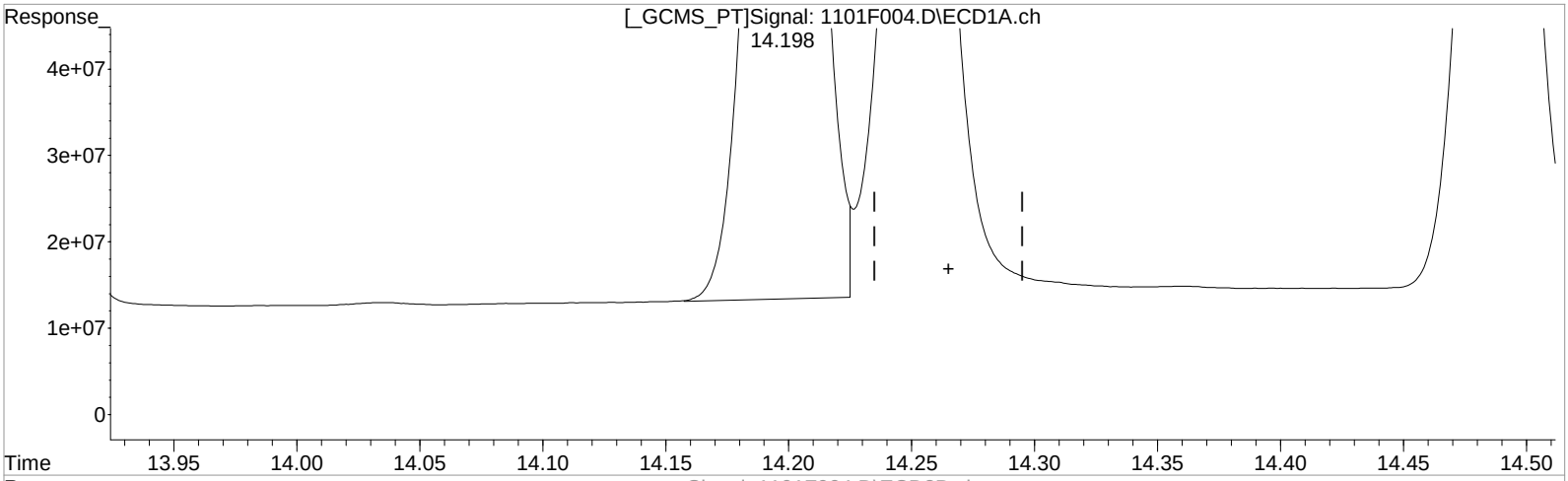
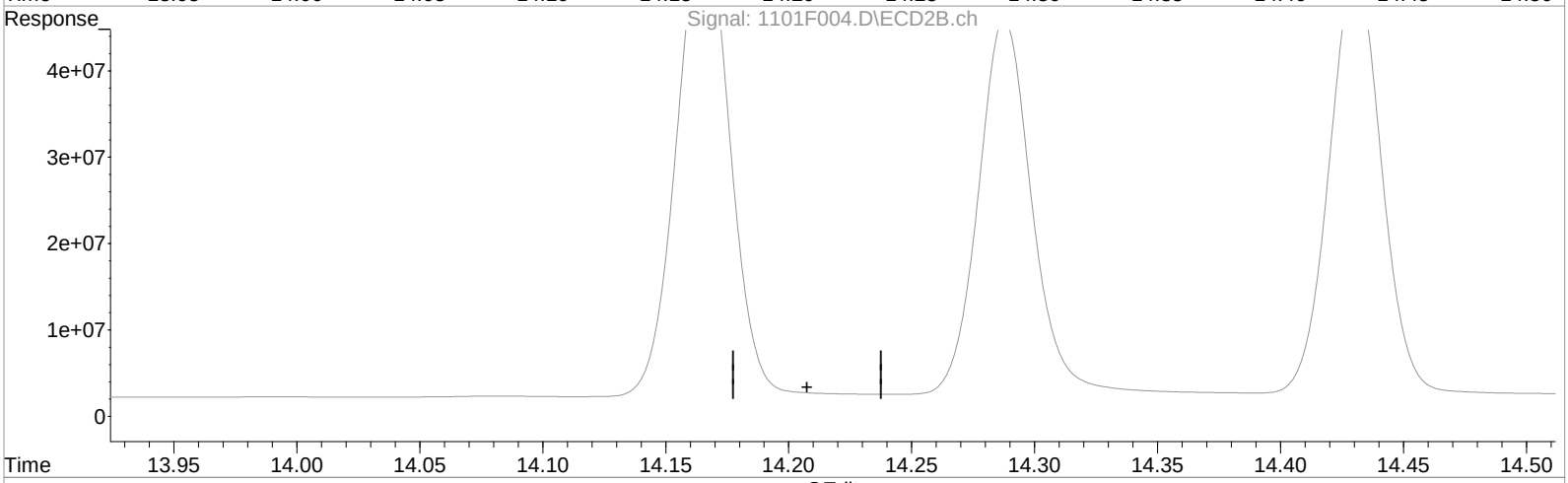
Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

14.198min 92.518 ug/L m

response 256443744

Manual Integration:

After

Missed Peak

11/01/23

(17) Endrin #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

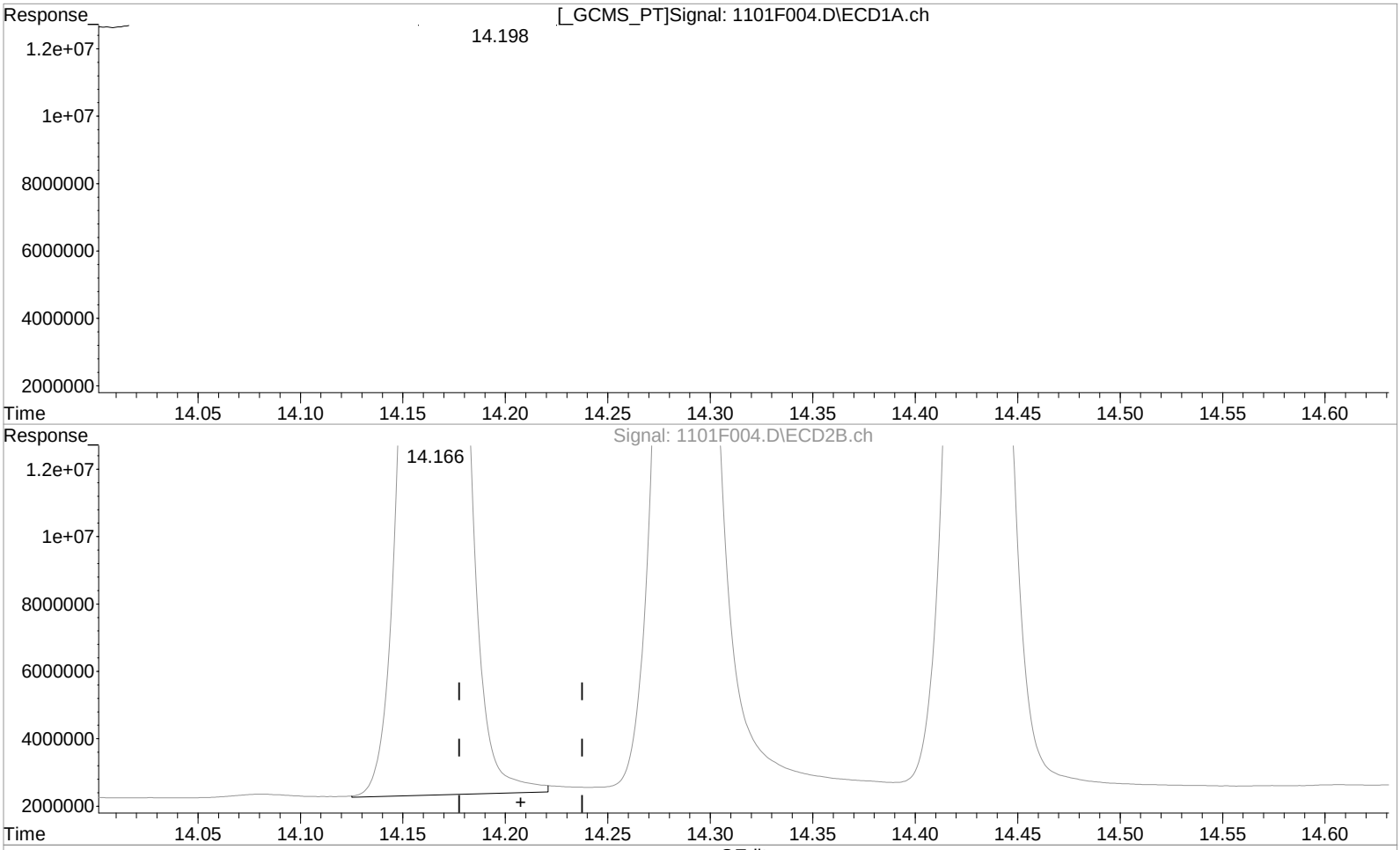
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(17) Endrin (m)

14.198min 92.518 ug/L m

response 256443744

Manual Integration:

After

Missed Peak

11/01/23

(17) Endrin #2 (m)

14.166min 97.642 ug/L m

response 81832157

(+) = Expected Retention Time

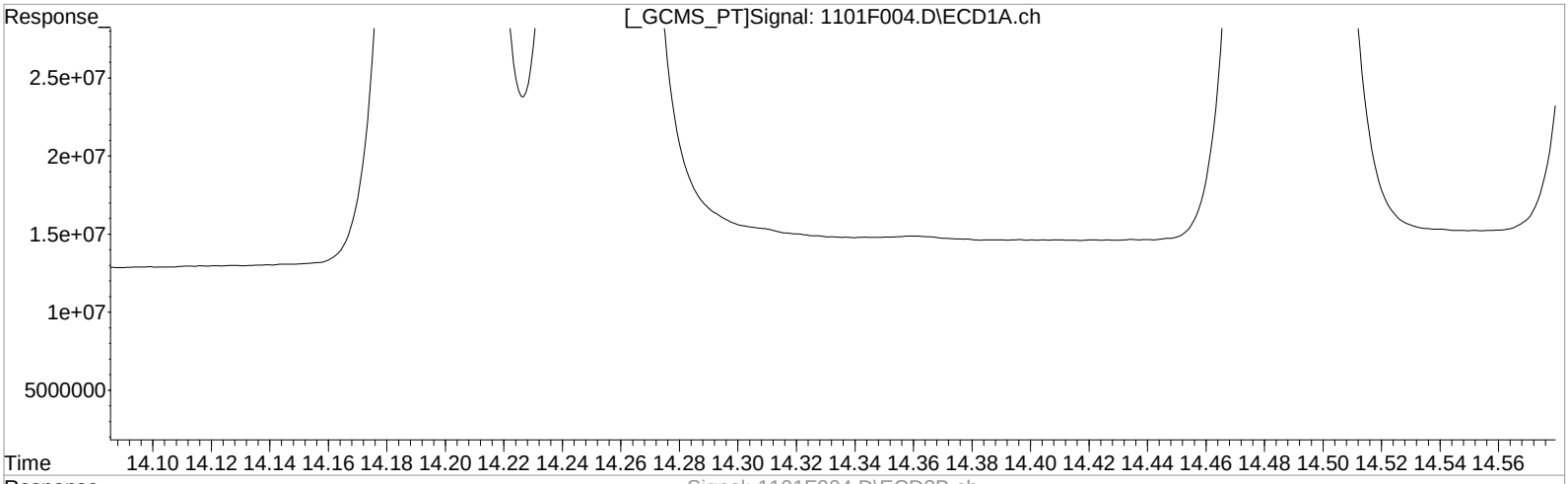
Quantitation Report (Qedit)

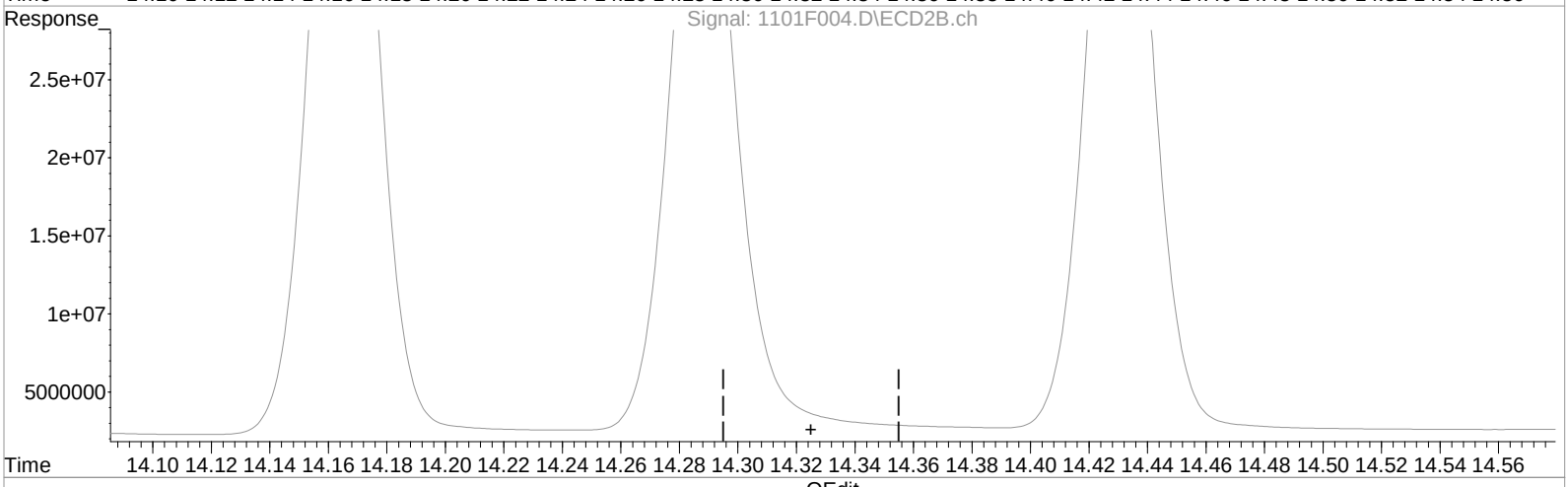
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(18) 4,4'-DDD #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

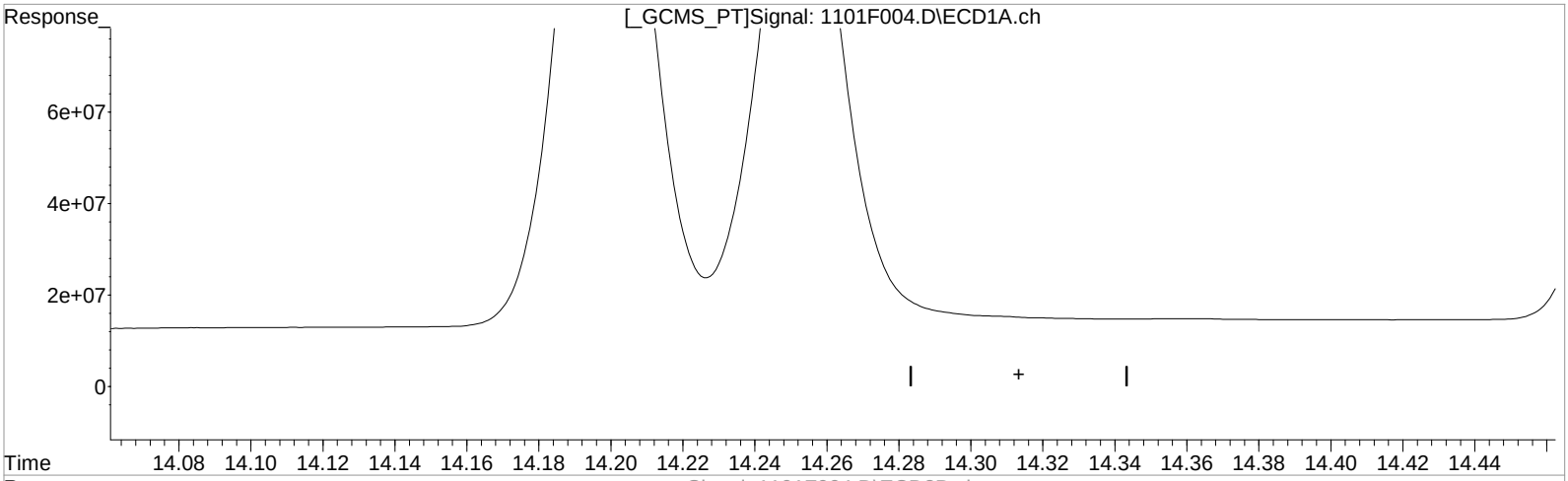
Quantitation Report (Qedit)

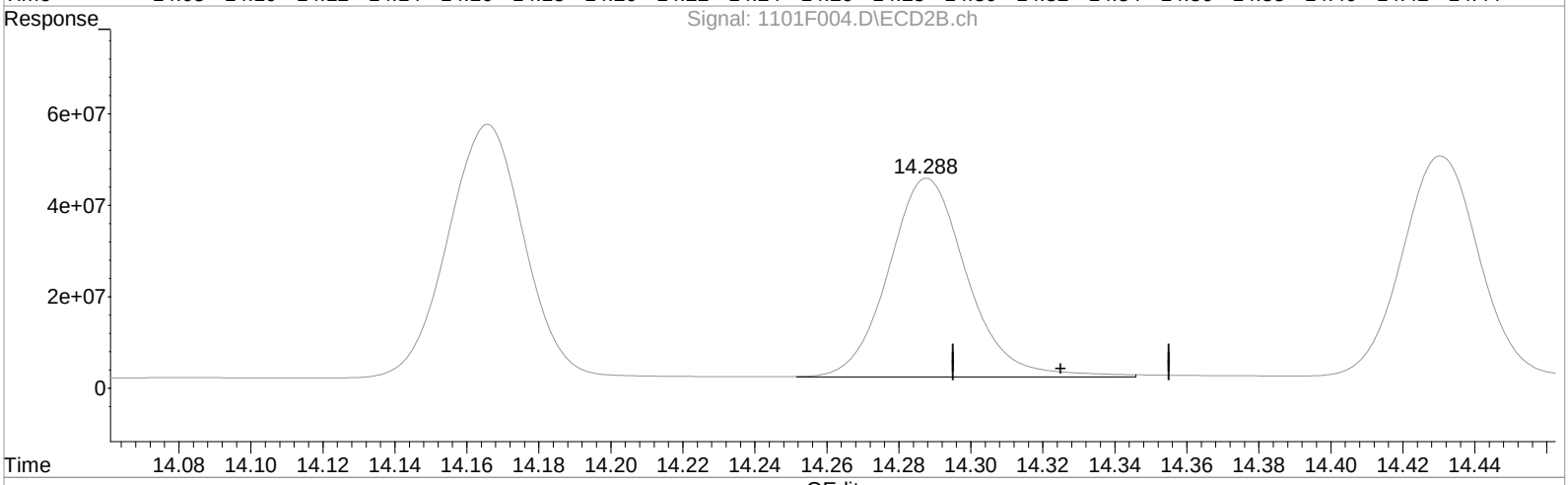
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

0.000min 0.000 ug/L

response 0

(18) 4,4'-DDD #2 (m)

14.288min 88.134 ug/L m

response 65968804

Manual Integration:

Before

11/01/23

(+) = Expected Retention Time

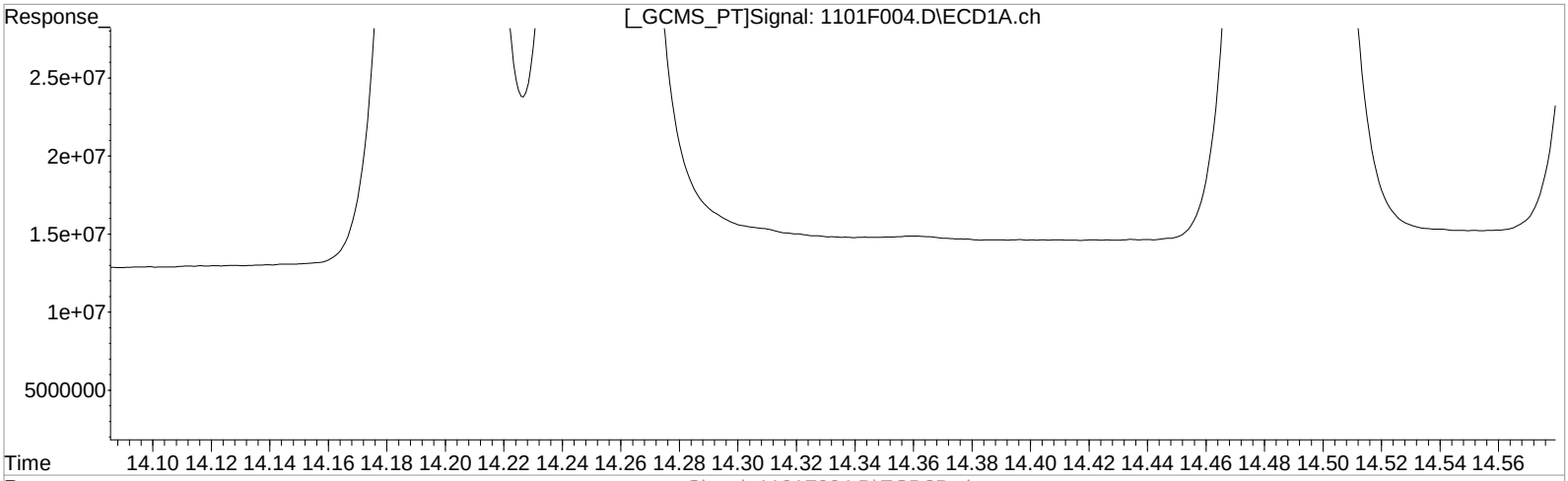
Quantitation Report (Qedit)

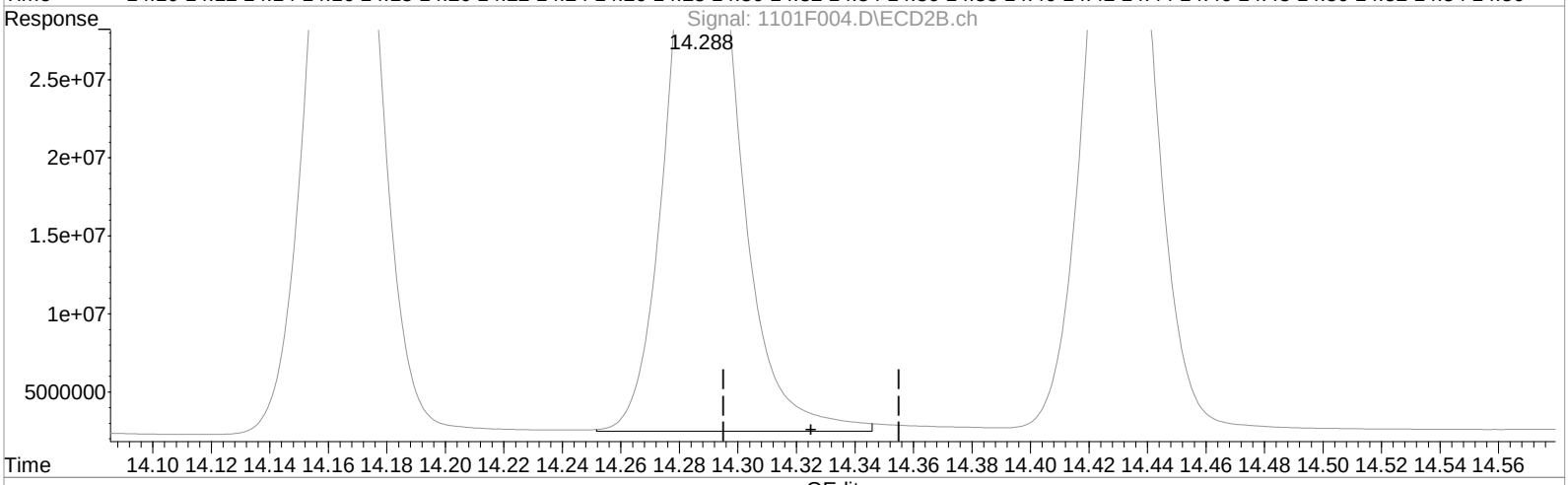
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(18) 4,4'-DDD #2 (m)

14.288min 88.134 ug/L m

response 65968804

(+) = Expected Retention Time

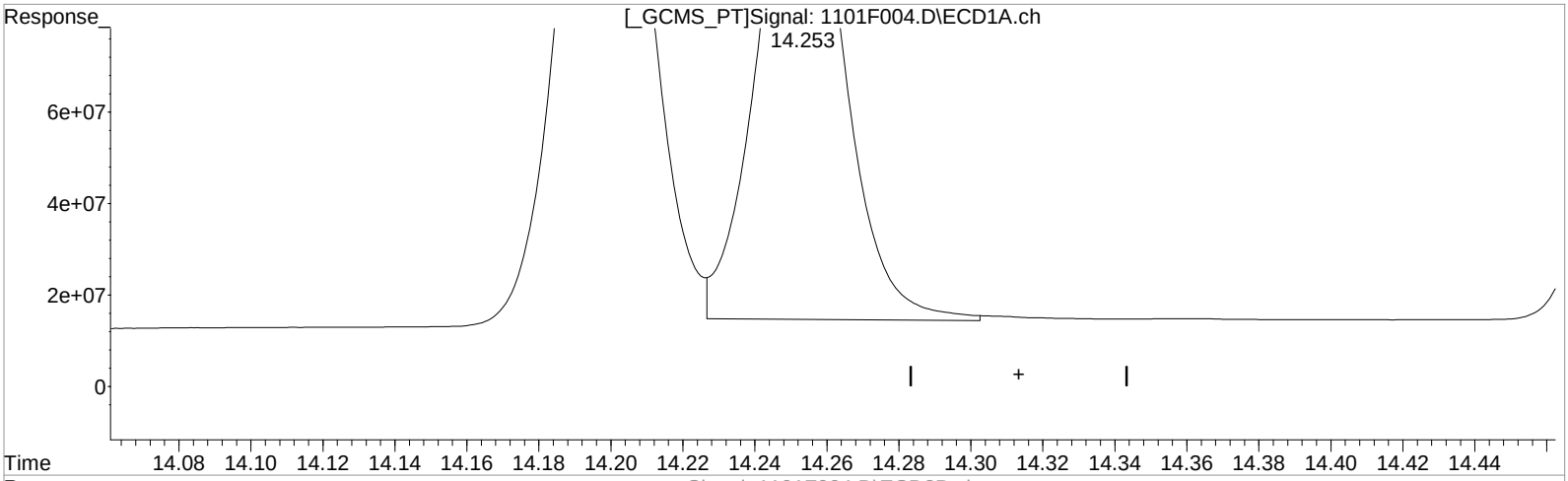
Quantitation Report (Qedit)

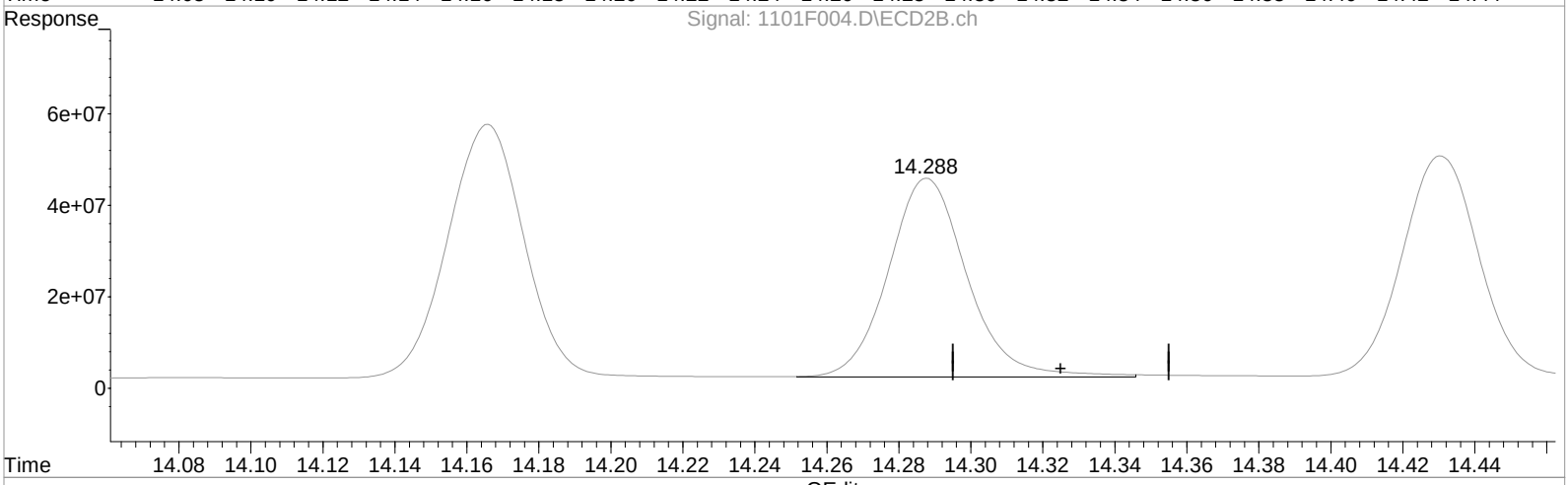
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

14.253min 85.105 ug/L m

response 182646826

Manual Integration:

After

Missed Peak

11/01/23

(18) 4,4'-DDD #2 (m)

14.288min 88.134 ug/L m

response 65968804

(+) = Expected Retention Time

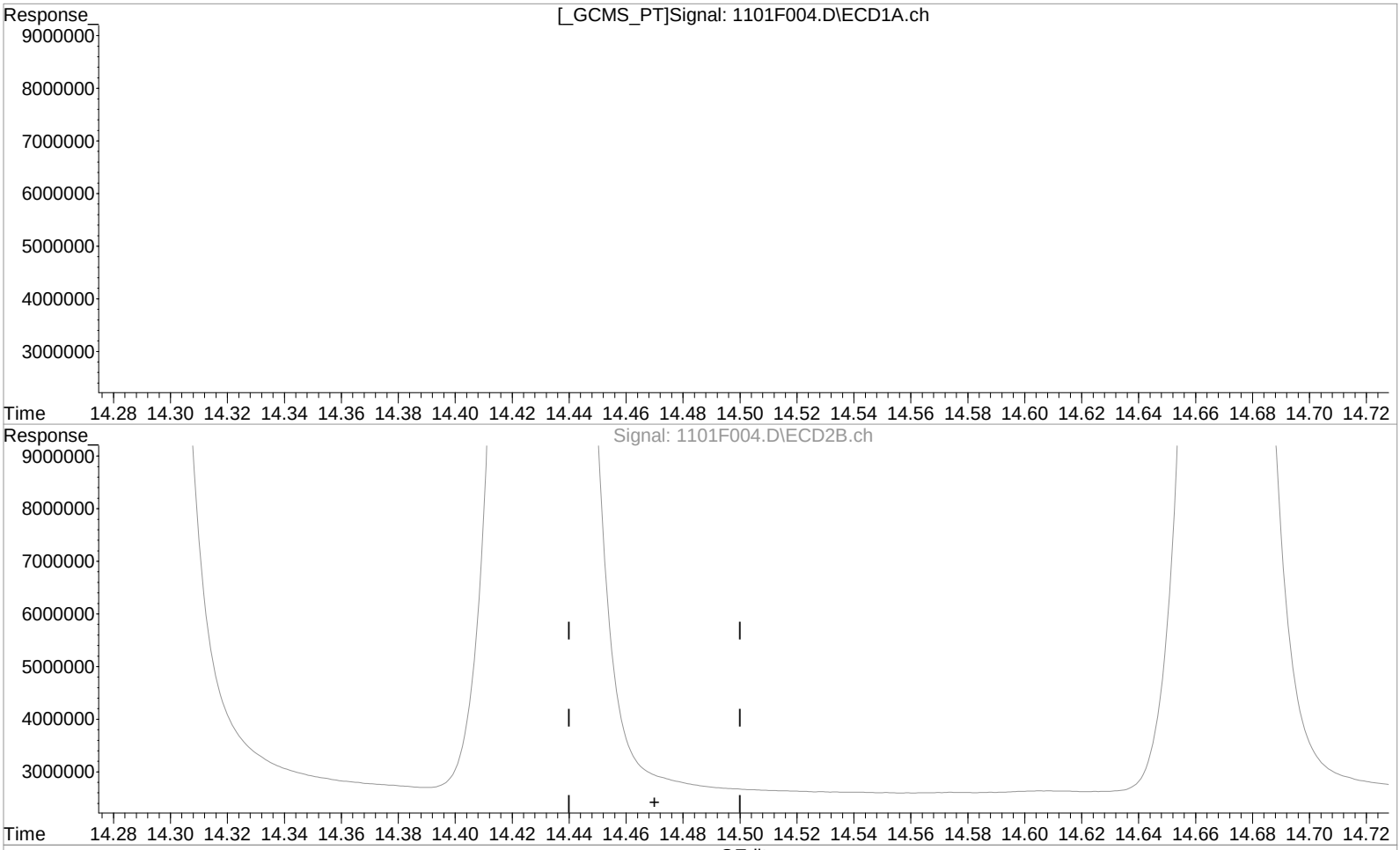
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(19) Endosulfan II (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(19) Endosulfan II #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

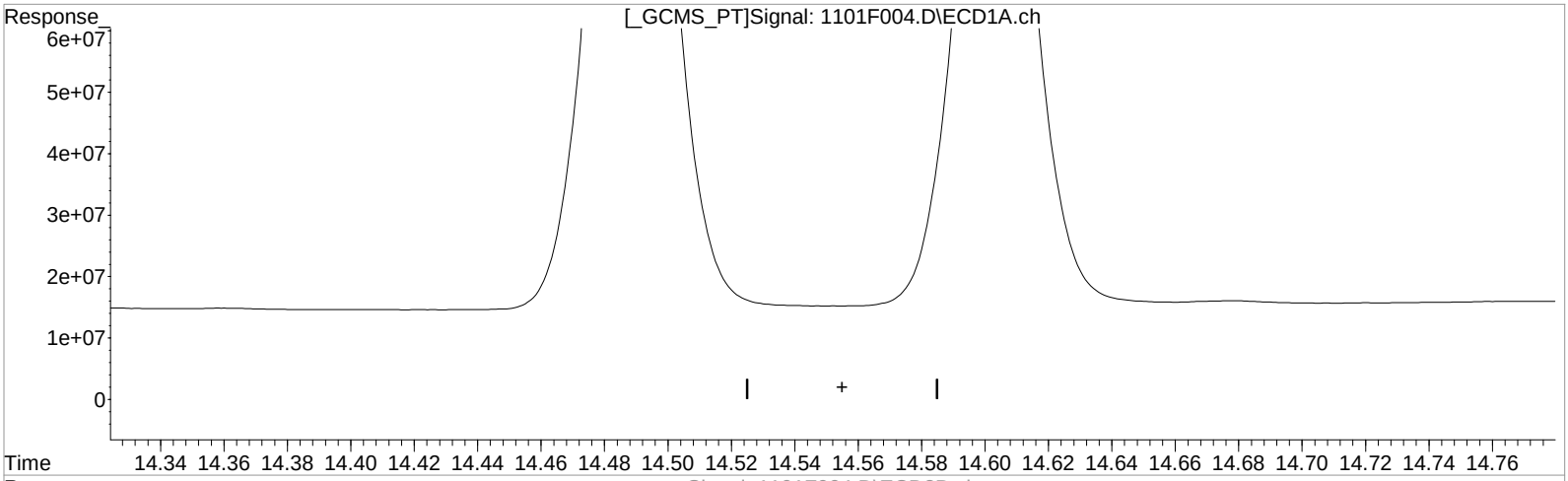
Quantitation Report (Qedit)

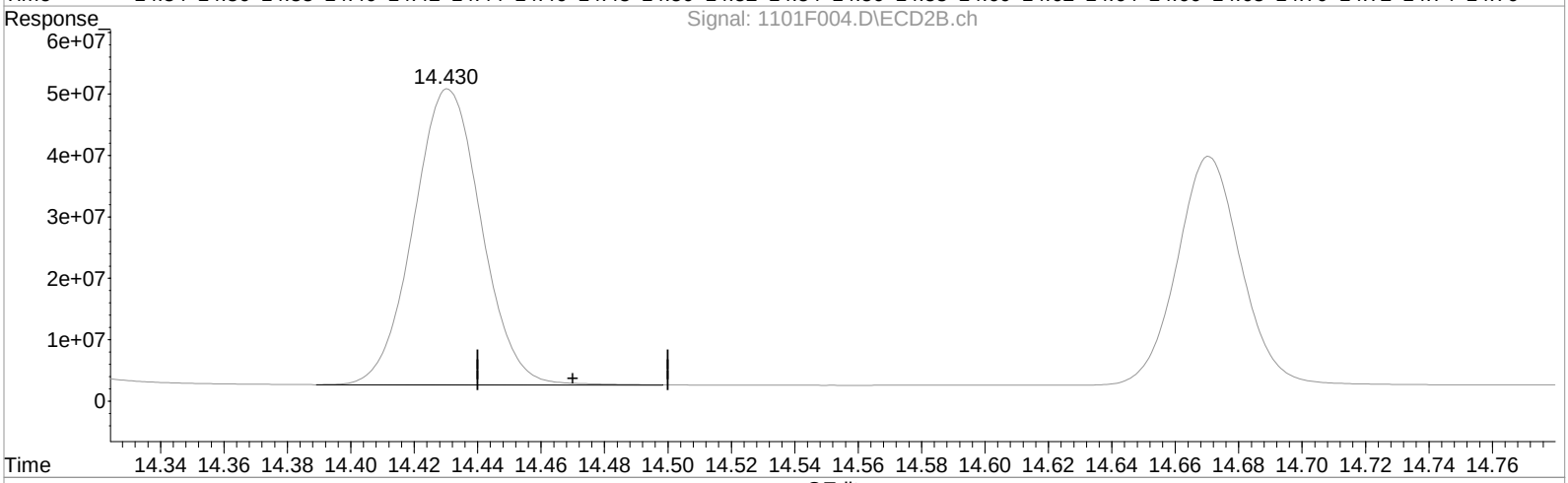
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(19) Endosulfan II (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(19) Endosulfan II #2 (m)

14.430min 86.200 ug/L m

response 71667388

(+) = Expected Retention Time

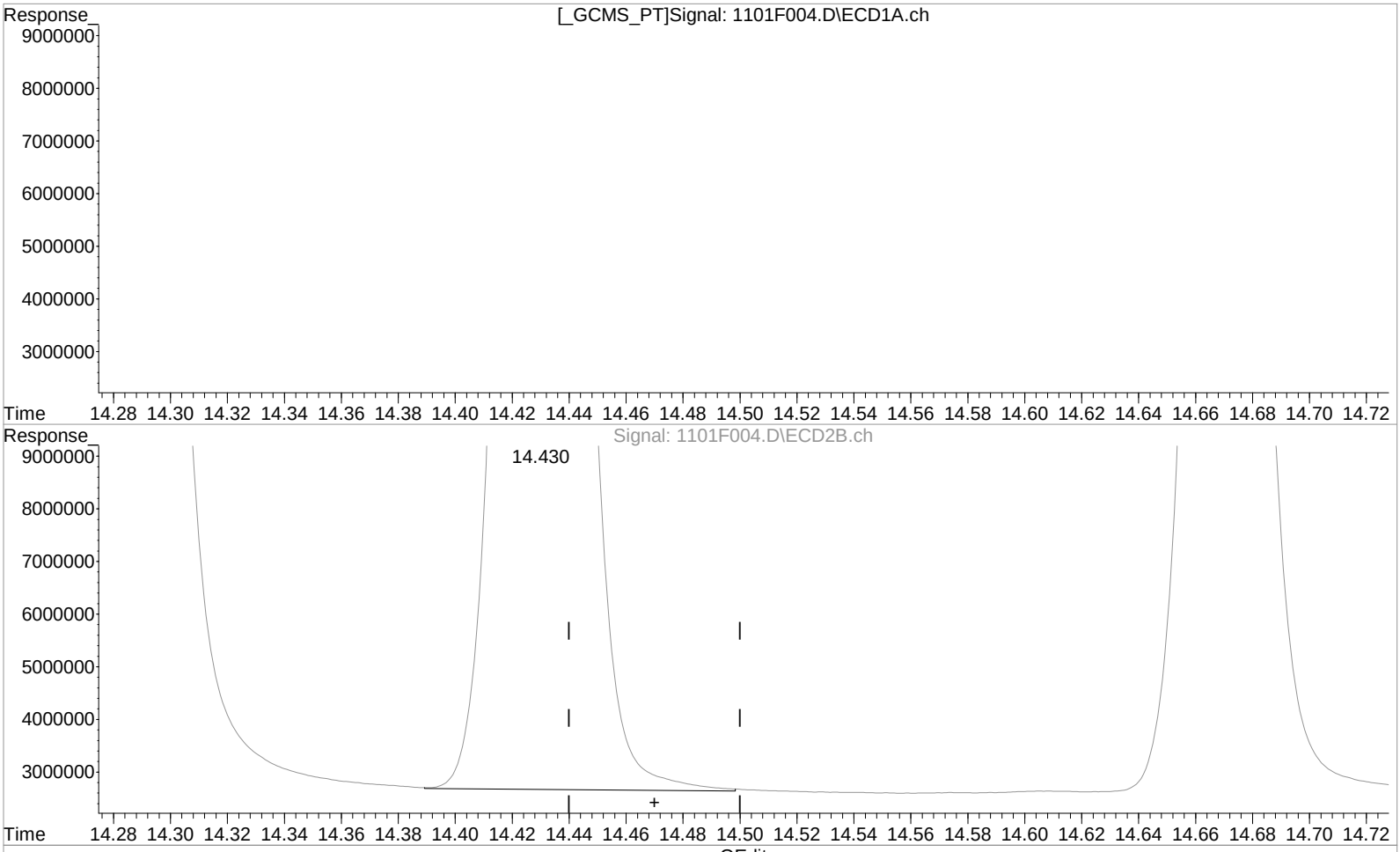
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(19) Endosulfan II (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(19) Endosulfan II #2 (m)

14.430min 86.200 ug/L m

response 71667388

(+) = Expected Retention Time

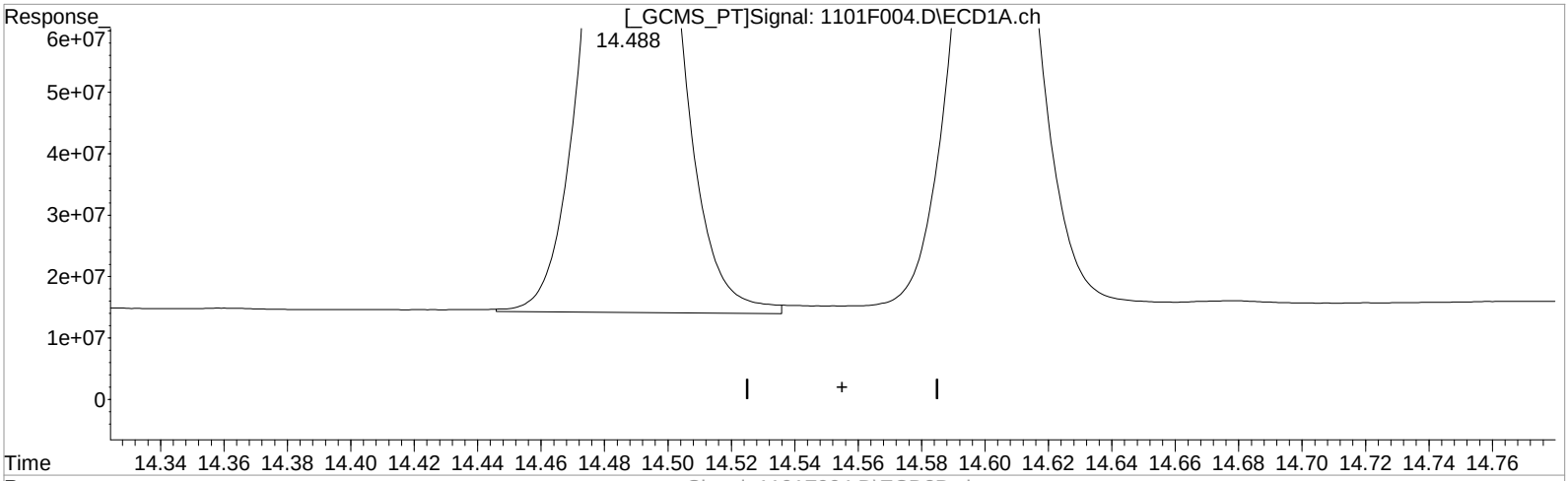
Quantitation Report (Qedit)

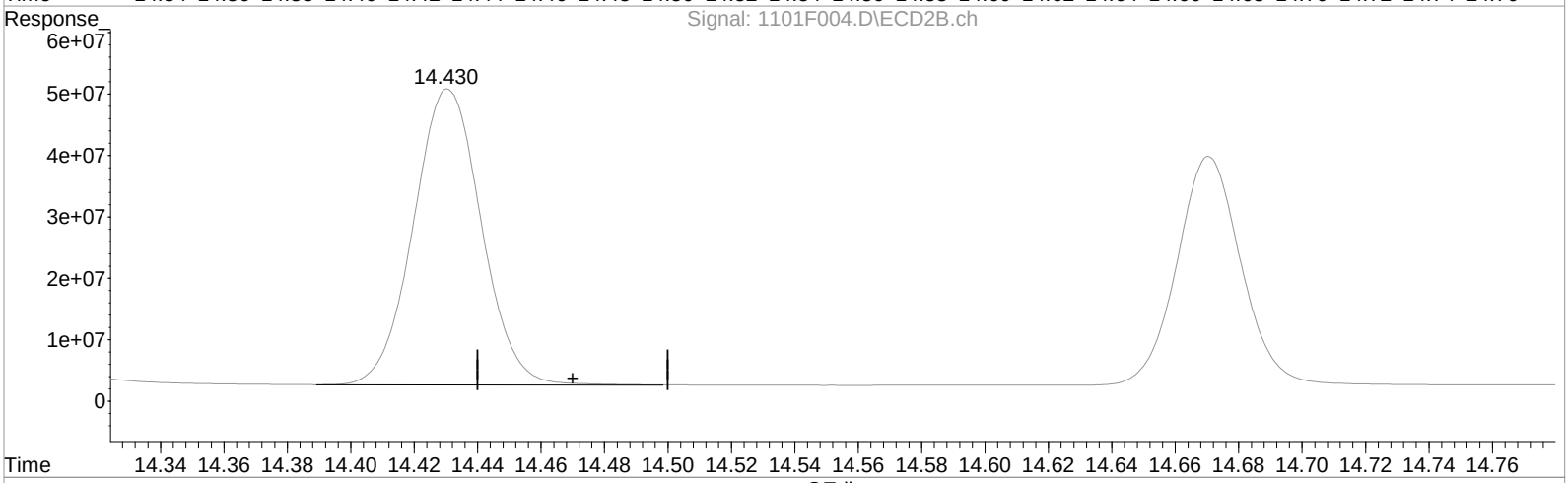
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(19) Endosulfan II (m)

14.488min 80.018 ug/L m

response 223997515

Manual Integration:

After

Missed Peak

11/01/23

(19) Endosulfan II #2 (m)

14.430min 86.200 ug/L m

response 71667388

(+) = Expected Retention Time

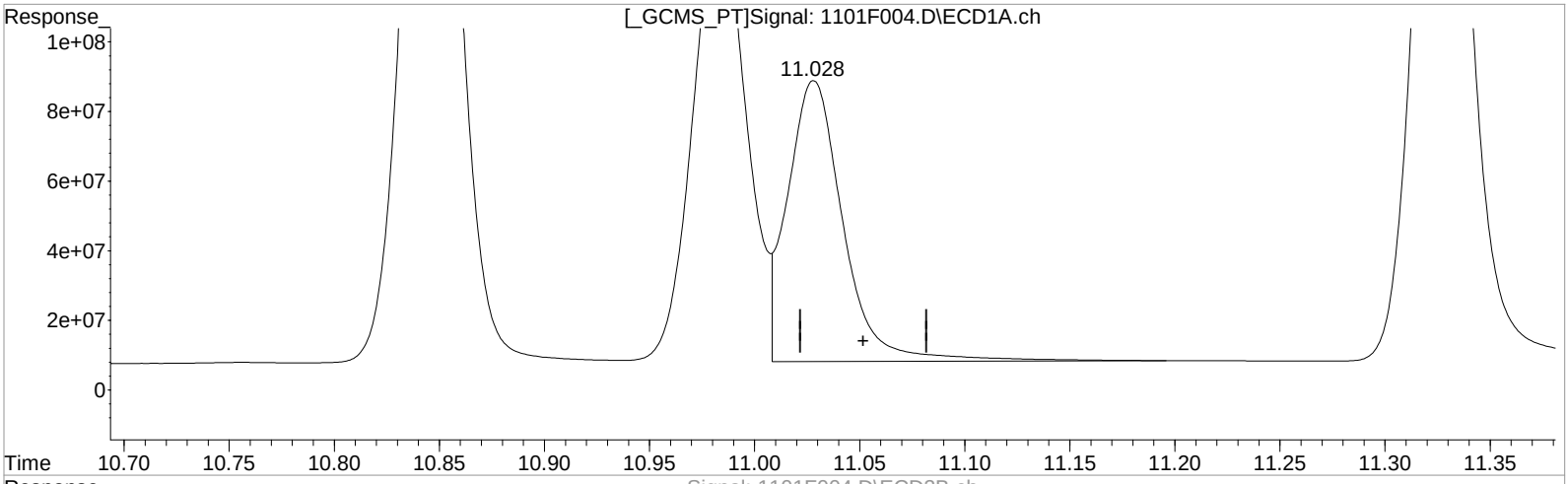
Quantitation Report (Qedit)

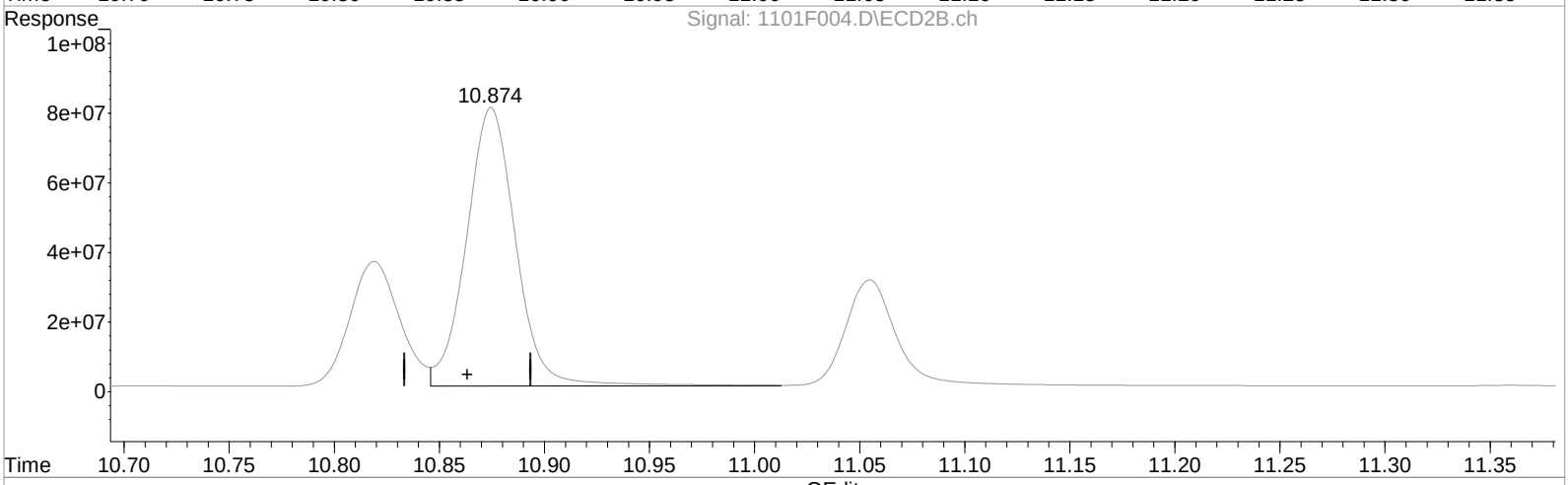
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:08:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

11.028min 50.000 ug/L

response 148010682

Manual Integration:

Before

11/01/23

(1) Pentachloronitrobenzene #2 (I)

10.874min 50.000 ug/L

response 130673940

(+) = Expected Retention Time

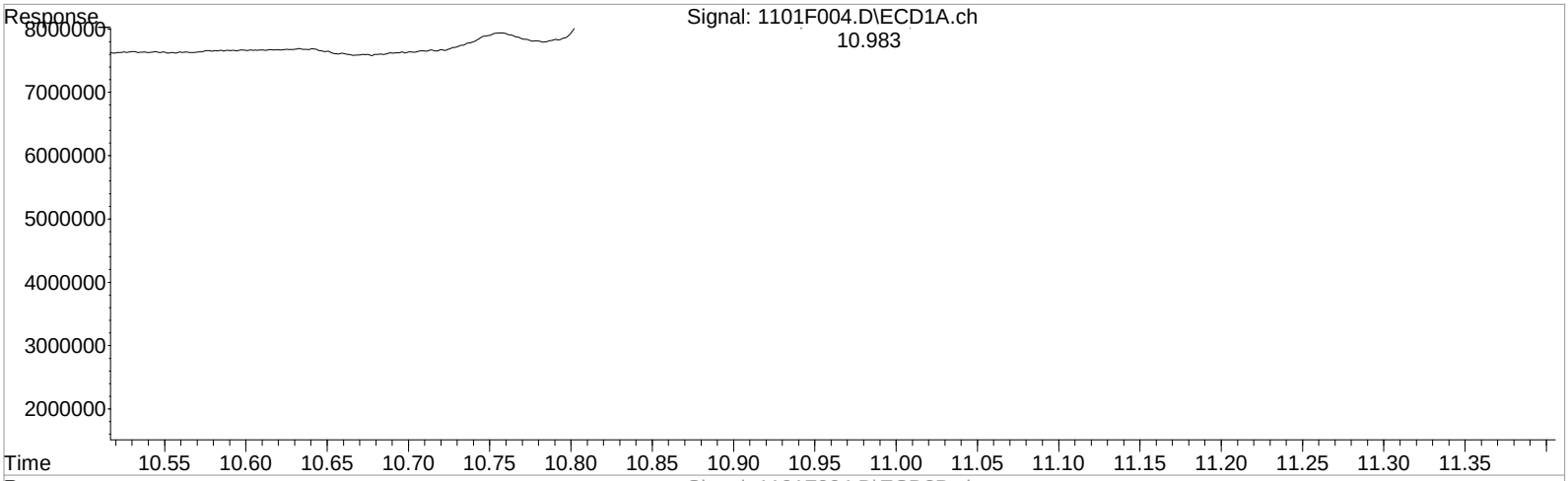
Quantitation Report (Qedit)

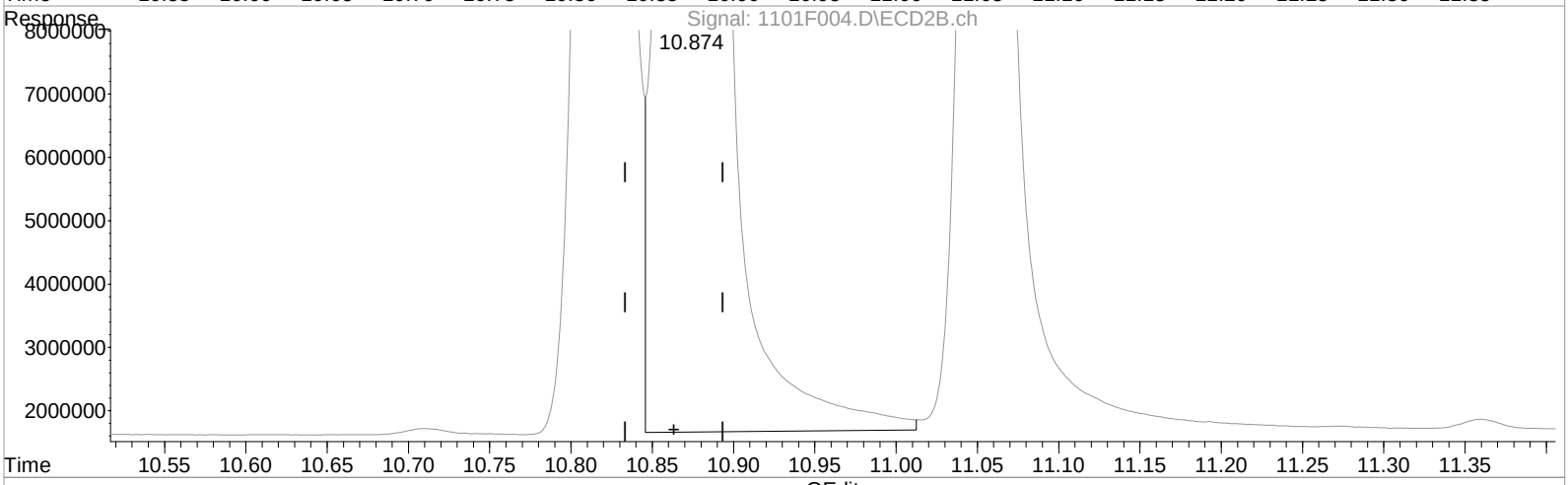
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:08:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

10.983min 50.000 ug/L m

response 228309771

Manual Integration:

Before

11/01/23

(1) Pentachloronitrobenzene #2 (I)

10.874min 50.000 ug/L

response 130673940

(+) = Expected Retention Time

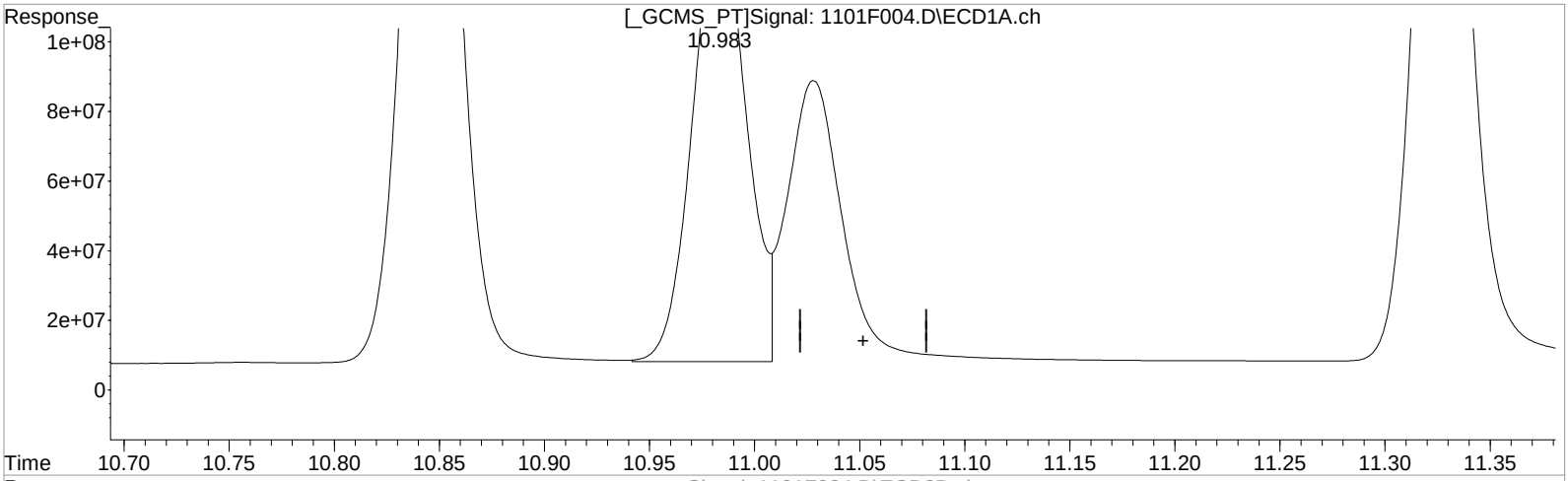
Quantitation Report (Qedit)

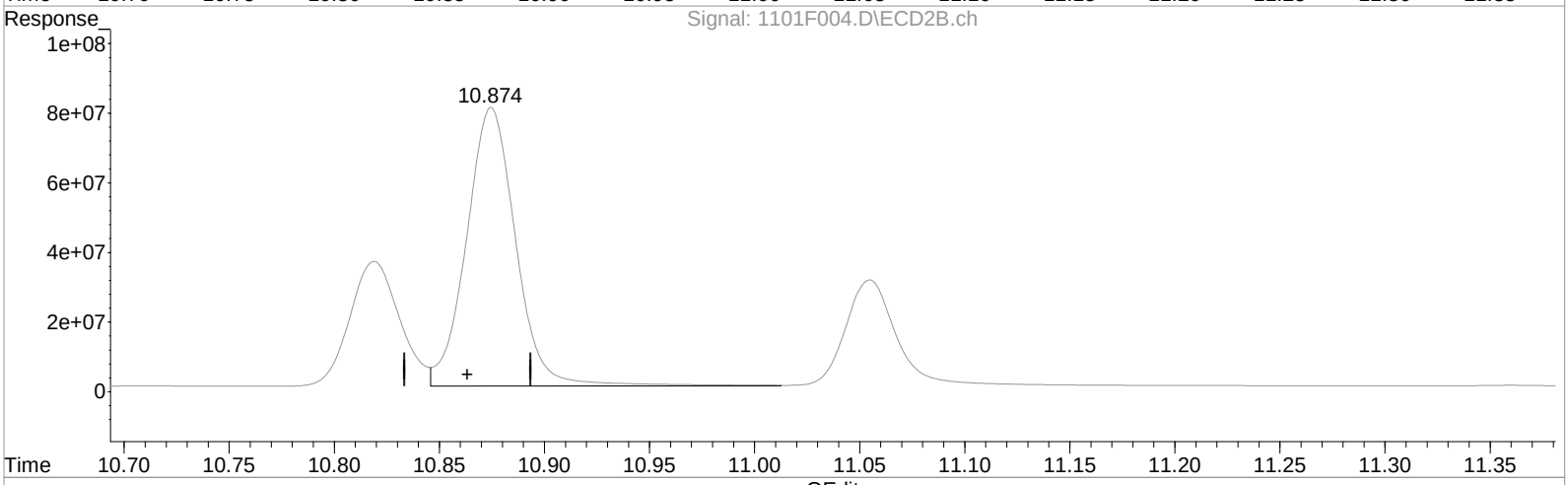
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:08:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

10.983min 50.000 ug/L m

response 228309771

Manual Integration:

After

Wrong Peak

11/01/23

(1) Pentachloronitrobenzene #2 (I)

10.874min 50.000 ug/L

response 130673940

(+) = Expected Retention Time

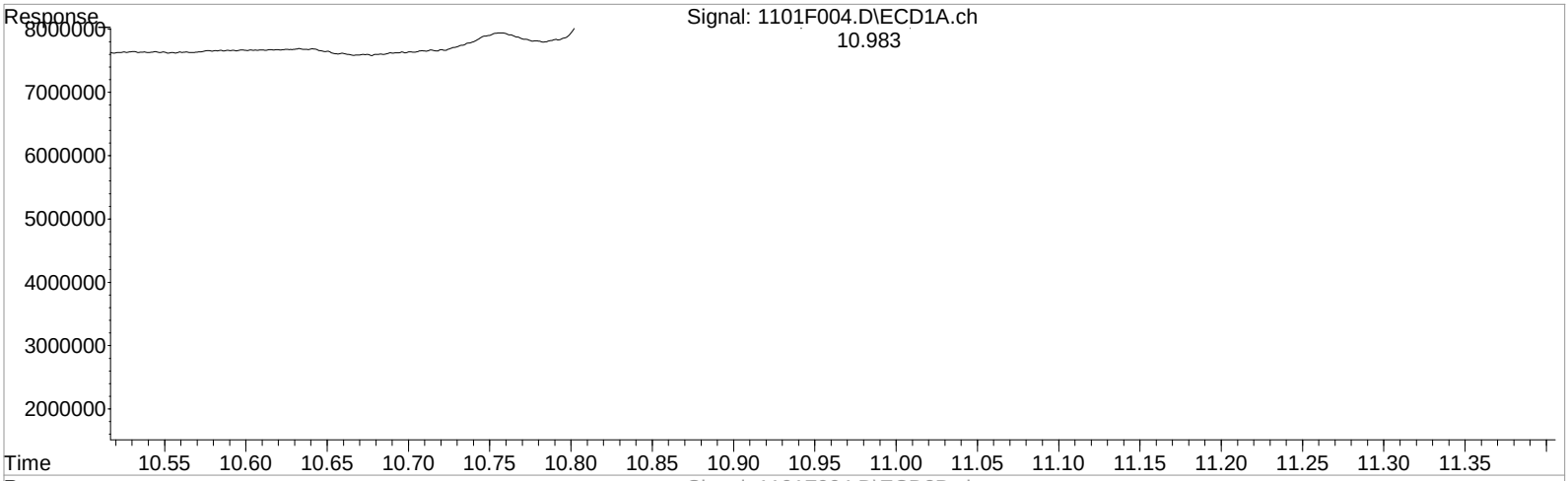
Quantitation Report (Qedit)

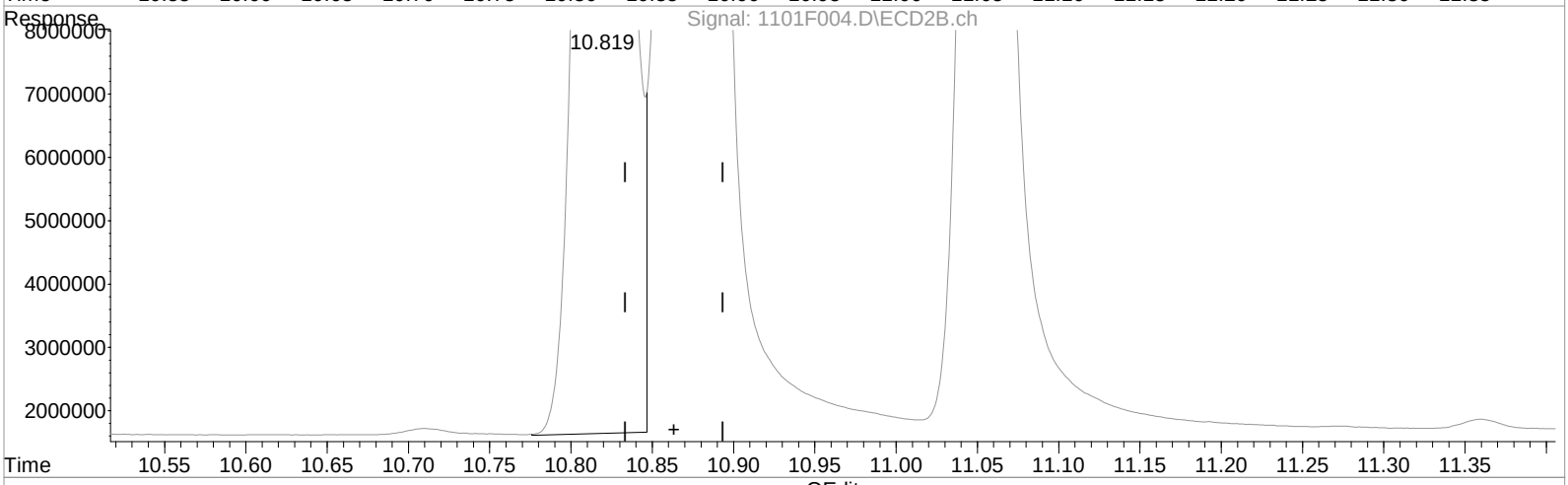
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:08:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

10.983min 50.000 ug/L m

response 228309771

Manual Integration:

After

Wrong Peak

11/01/23

(1) Pentachloronitrobenzene #2 (I)

10.819min 50.000 ug/L m

response 59233267

(+) = Expected Retention Time

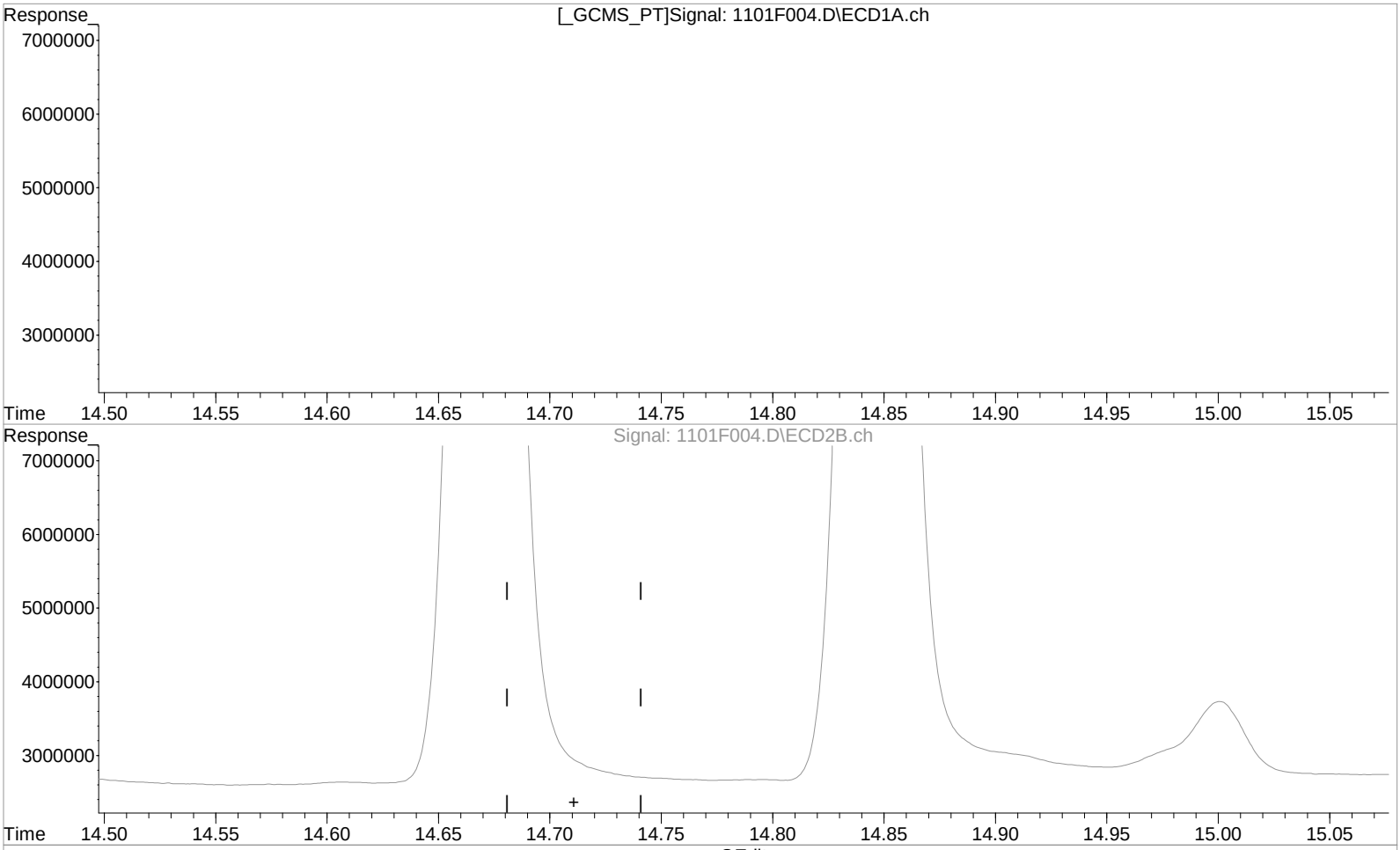
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(20) 4,4'-DDT (m)

0.000min 0.000 ug/L

response 0

(20) 4,4'-DDT #2 (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
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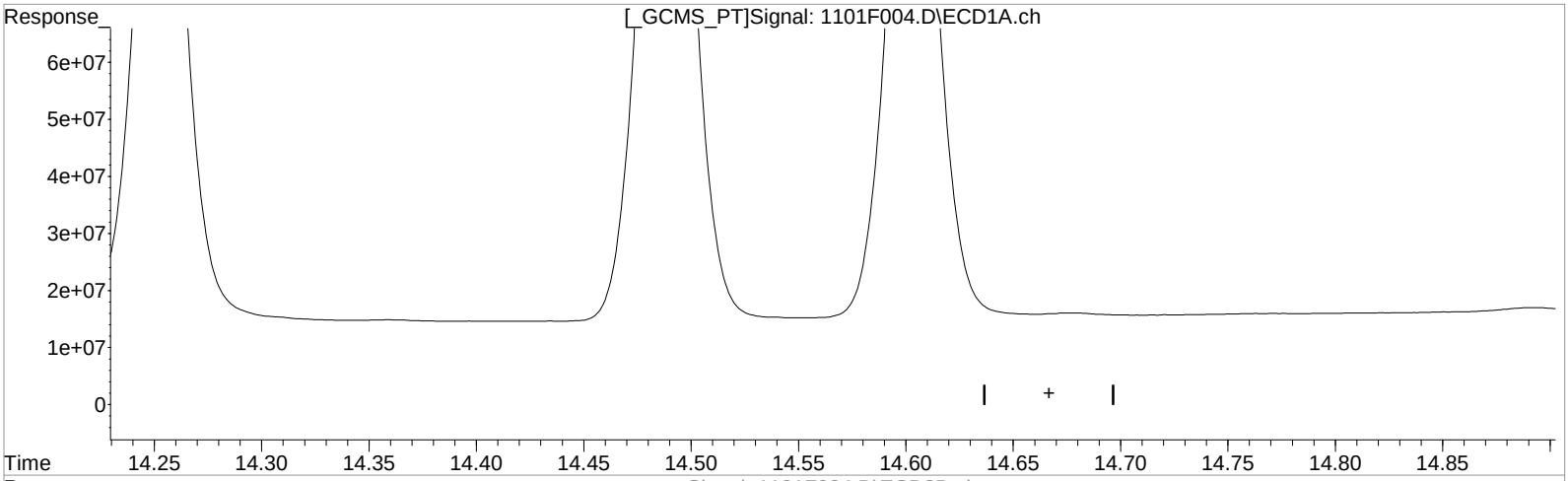
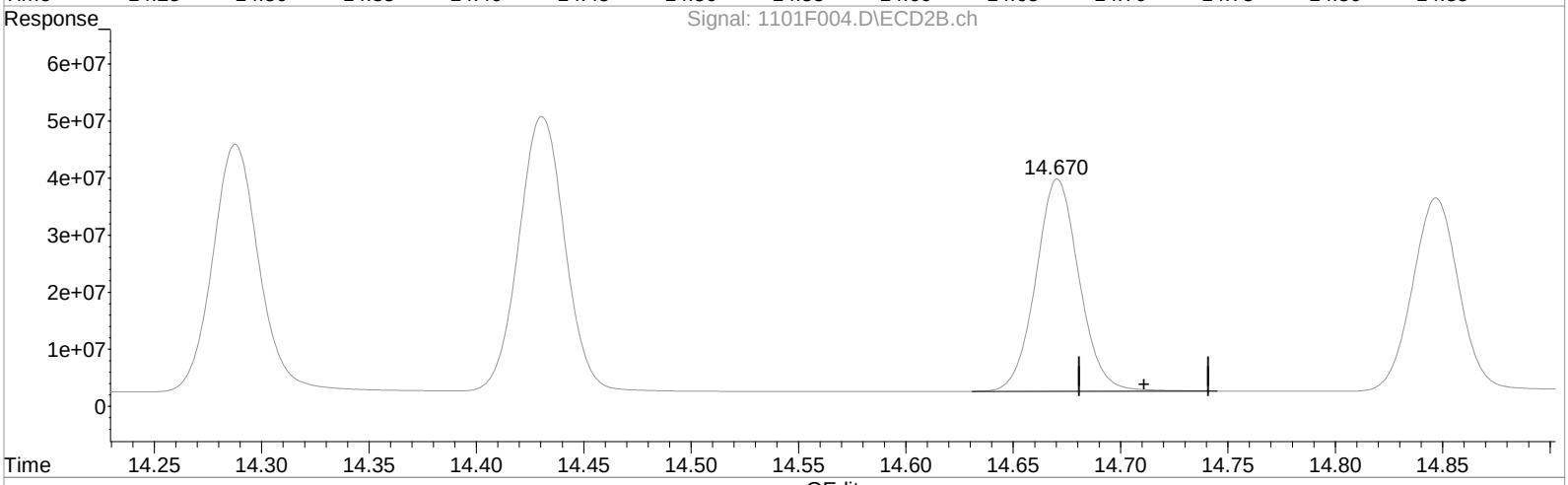
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(20) 4,4'-DDT (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(20) 4,4'-DDT #2 (m)

14.670min 73.986 ug/L m

response 52344914

(+) = Expected Retention Time

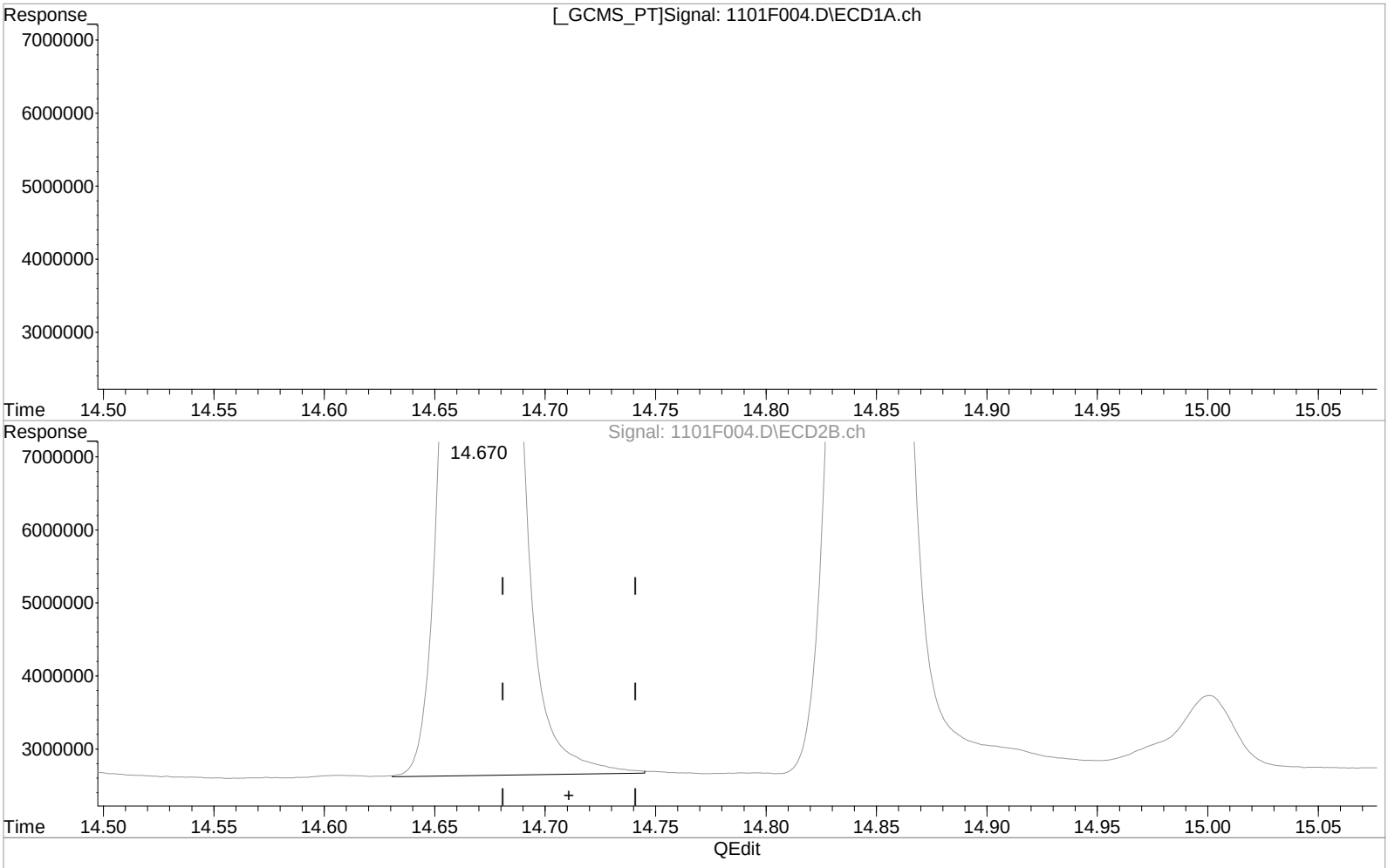
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(20) 4,4'-DDT (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Baseline/Shoulder

11/01/23

(20) 4,4'-DDT #2 (m)

14.670min 73.986 ug/L m

response 52344914

(+) = Expected Retention Time

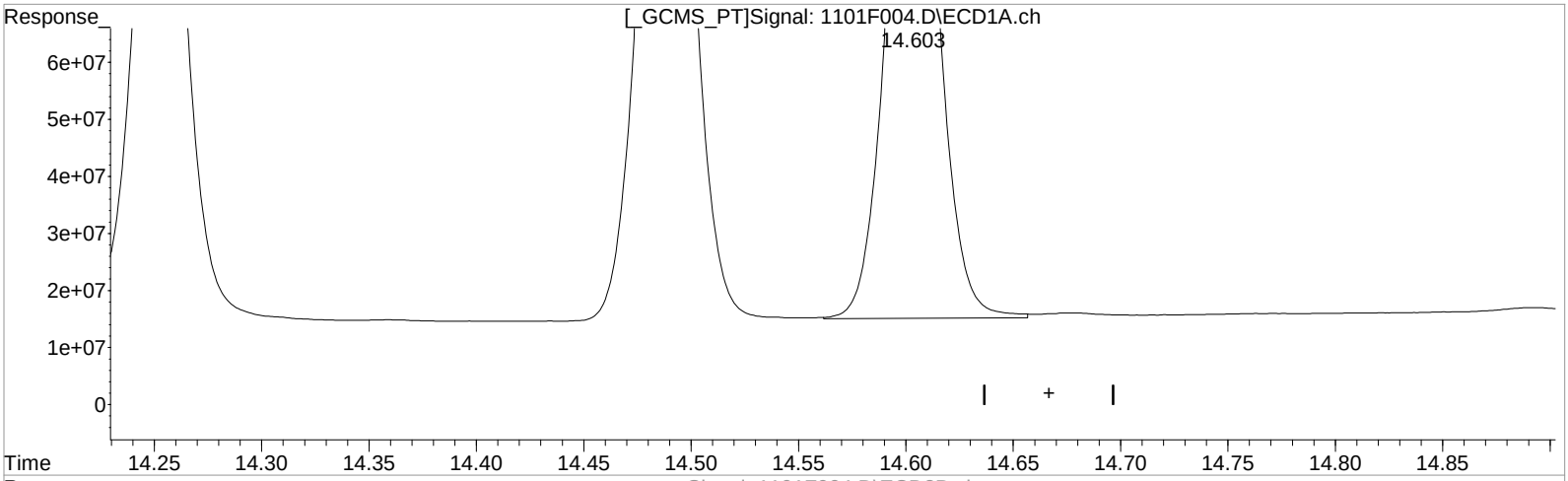
Quantitation Report (Qedit)

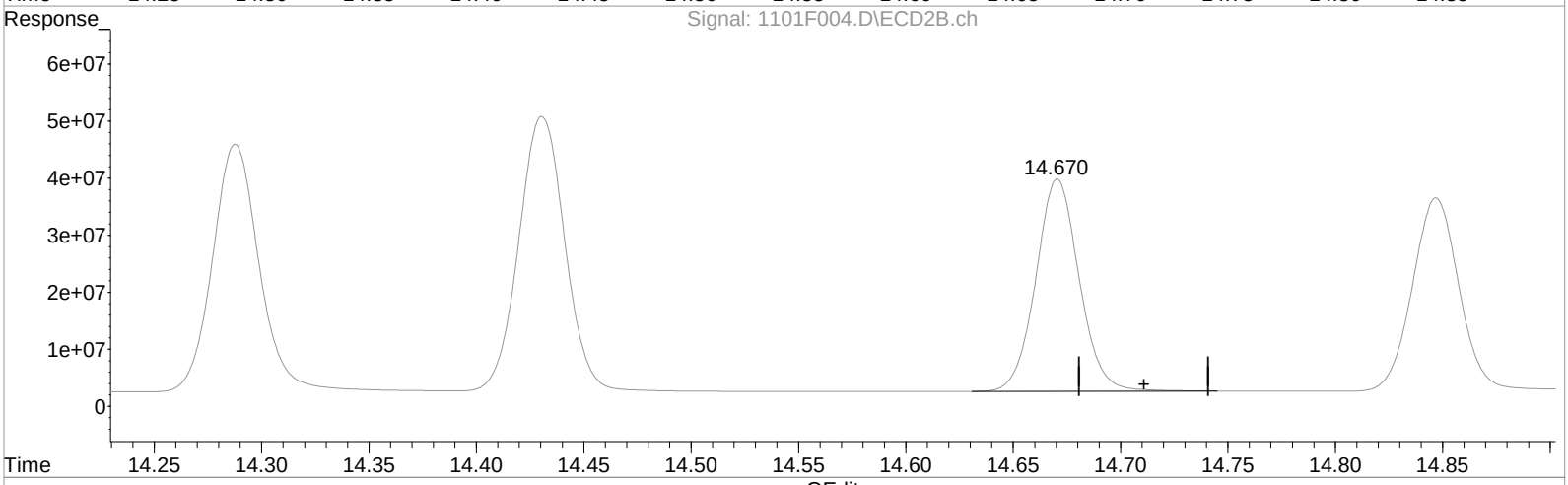
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(20) 4,4'-DDT (m)

14.603min 87.292 ug/L m

response 182152386

(20) 4,4'-DDT #2 (m)

14.670min 73.986 ug/L m

response 52344914

Manual Integration:

After

Missed Peak

11/01/23

(+) = Expected Retention Time

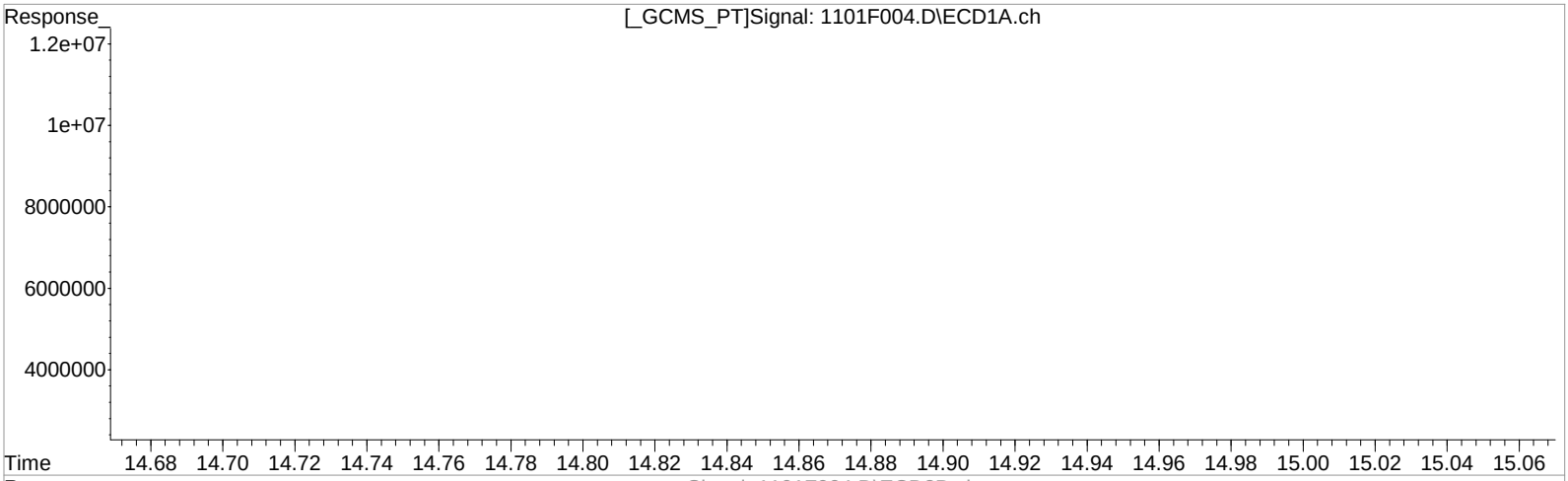
Quantitation Report (Qedit)

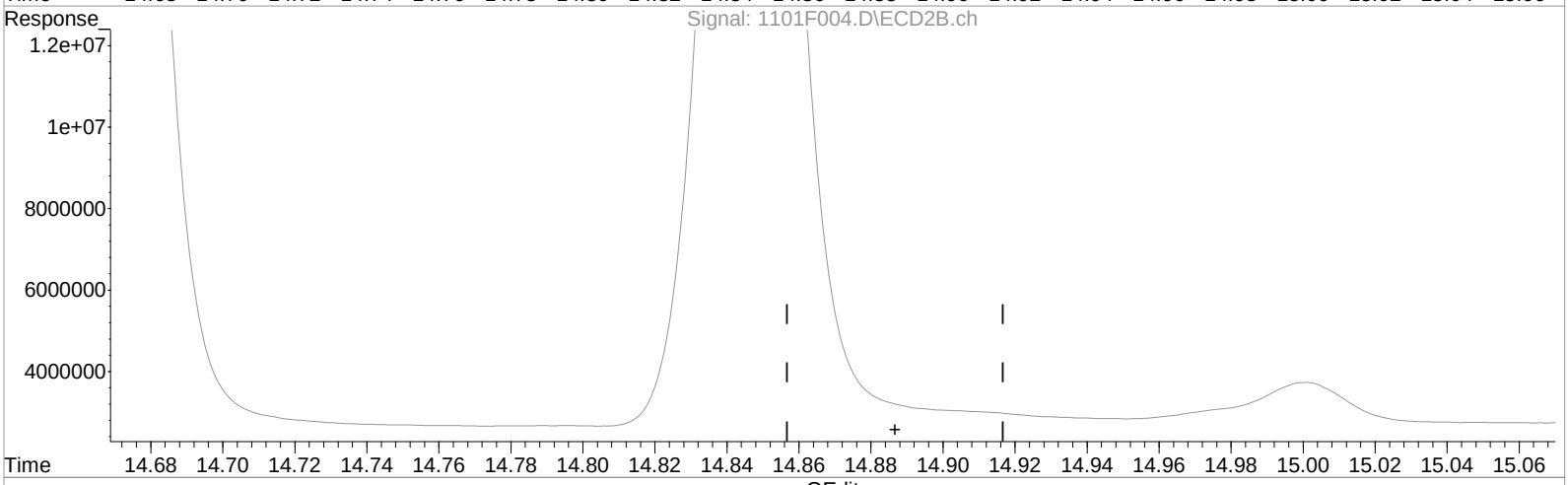
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(21) Endrin Aldehyde (m)

15.080min 2.043 ug/L

response 4334966

Manual Integration:

Before

11/01/23

(21) Endrin Aldehyde #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

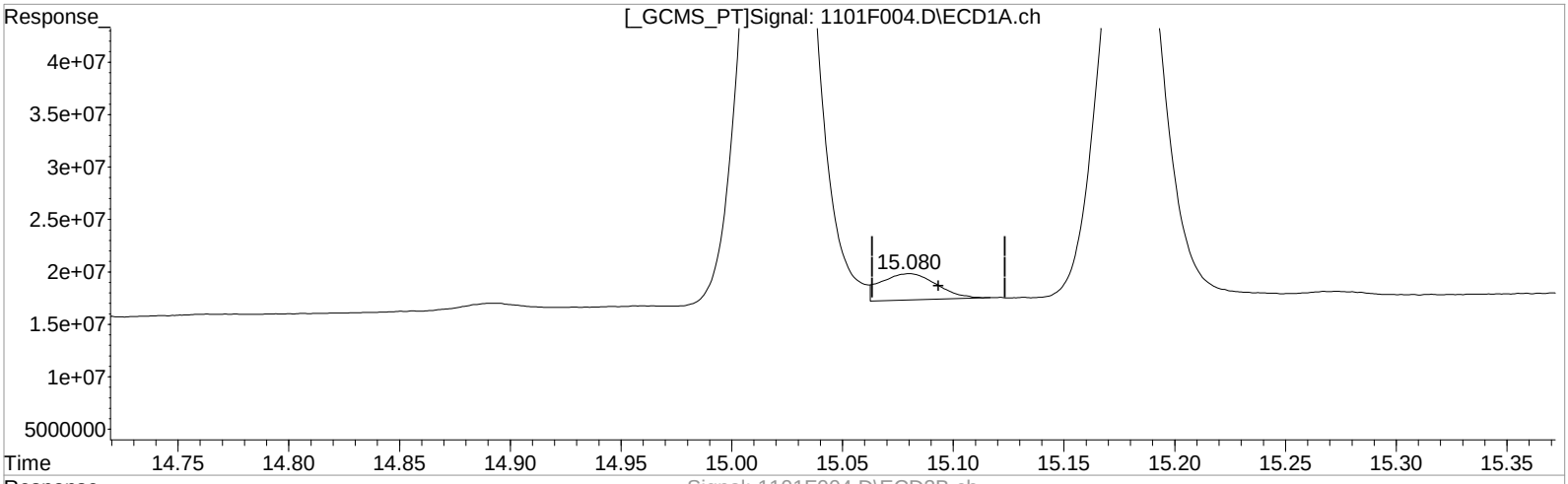
Quantitation Report (Qedit)

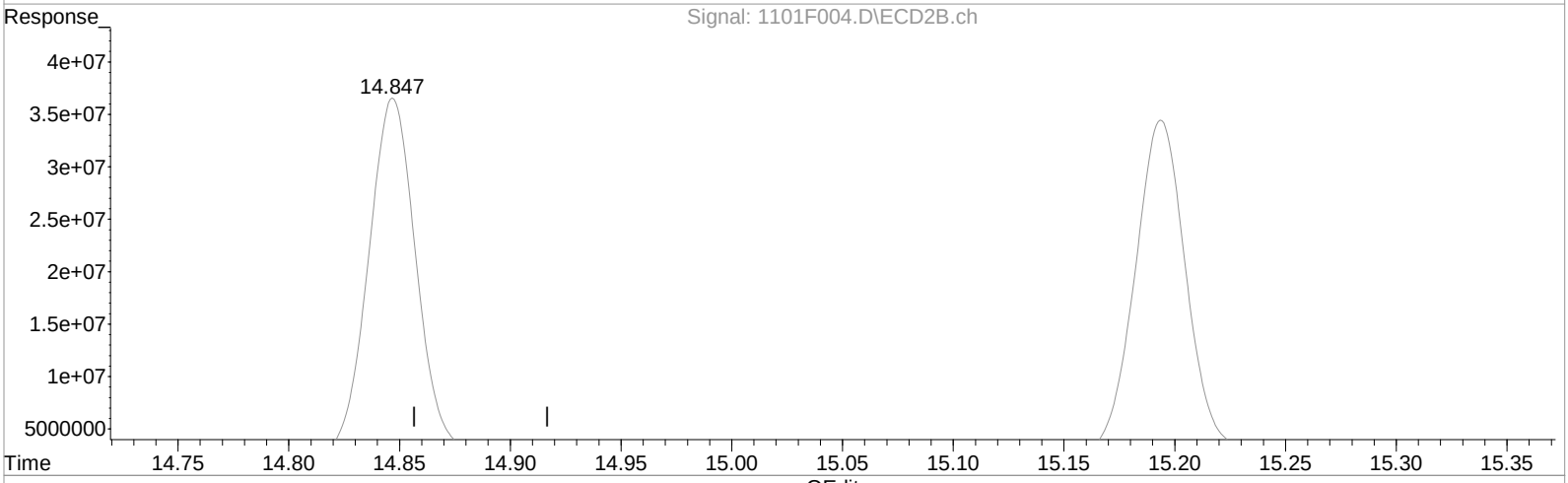
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(21) Endrin Aldehyde (m)

15.080min 2.043 ug/L

response 4334966

Manual Integration:

Before

11/01/23

(21) Endrin Aldehyde #2 (m)

14.847min 80.448 ug/L m

response 51416957

(+) = Expected Retention Time

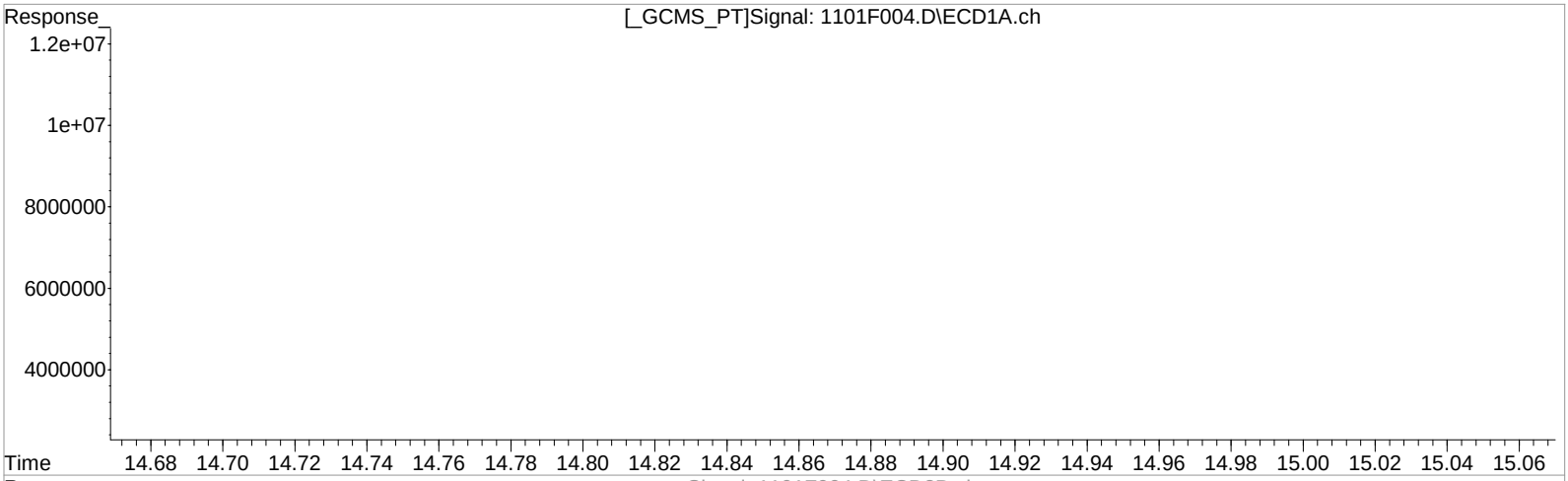
Quantitation Report (Qedit)

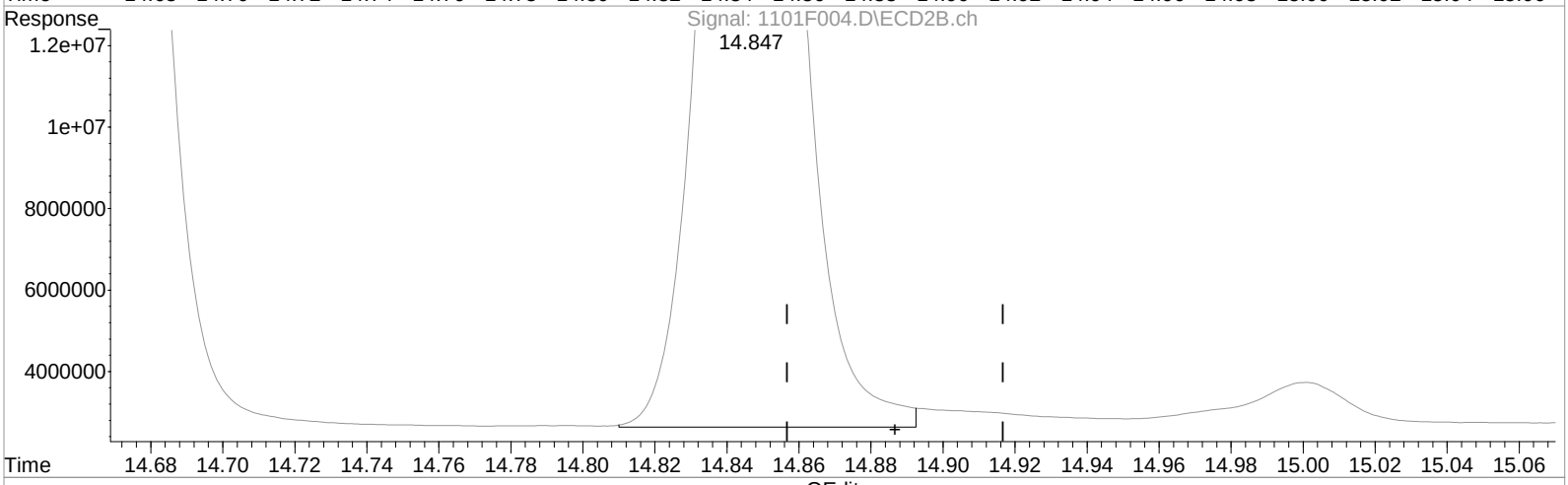
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(21) Endrin Aldehyde (m)

15.080min 2.043 ug/L

response 4334966

Manual Integration:

After

Missed Peak

11/01/23

(21) Endrin Aldehyde #2 (m)

14.847min 80.448 ug/L m

response 51416957

(+) = Expected Retention Time

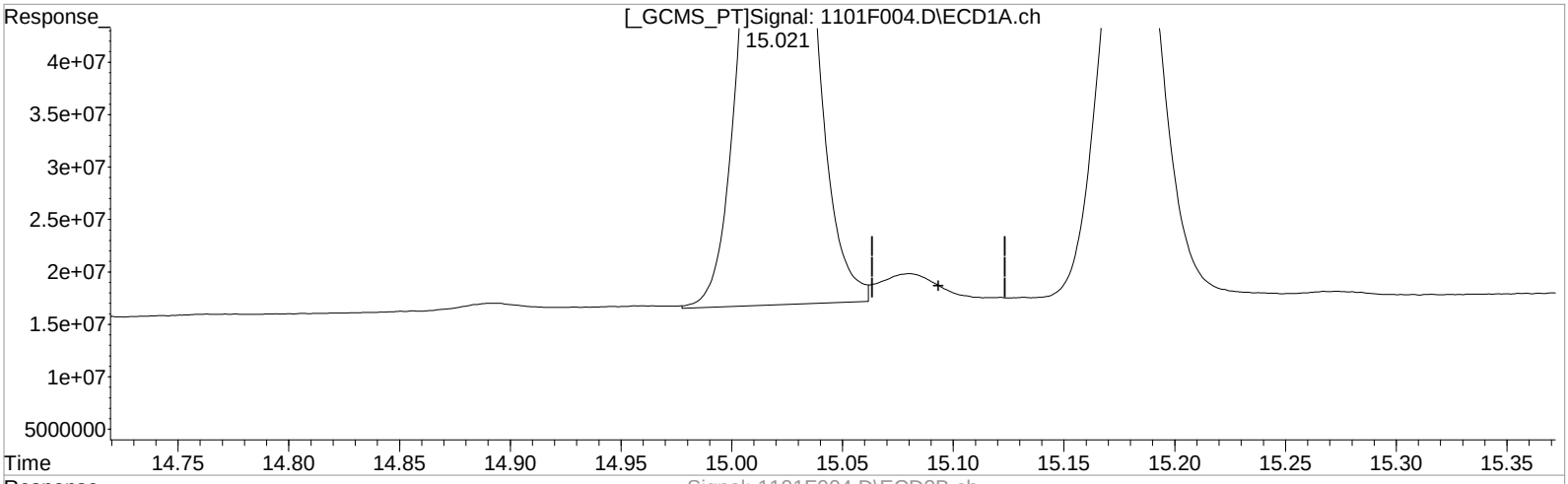
Quantitation Report (Qedit)

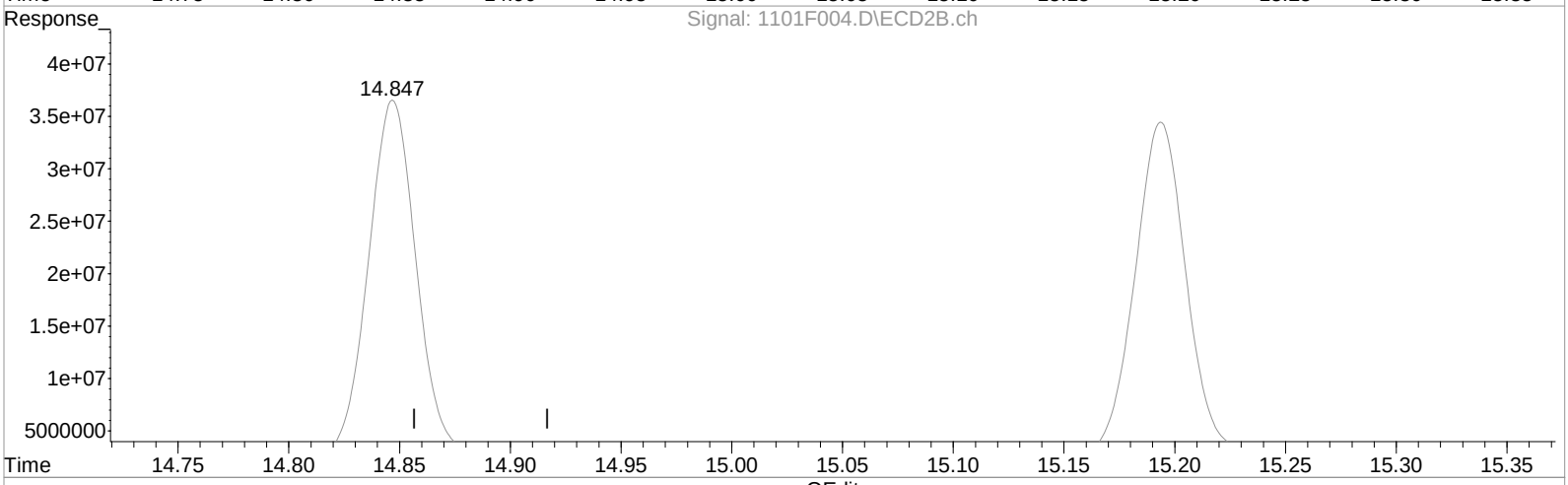
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(21) Endrin Aldehyde (m)

15.021min 72.687 ug/L m

response 154239954

Manual Integration:

After

Missed Peak

11/01/23

(21) Endrin Aldehyde #2 (m)

14.847min 80.448 ug/L m

response 51416957

(+) = Expected Retention Time

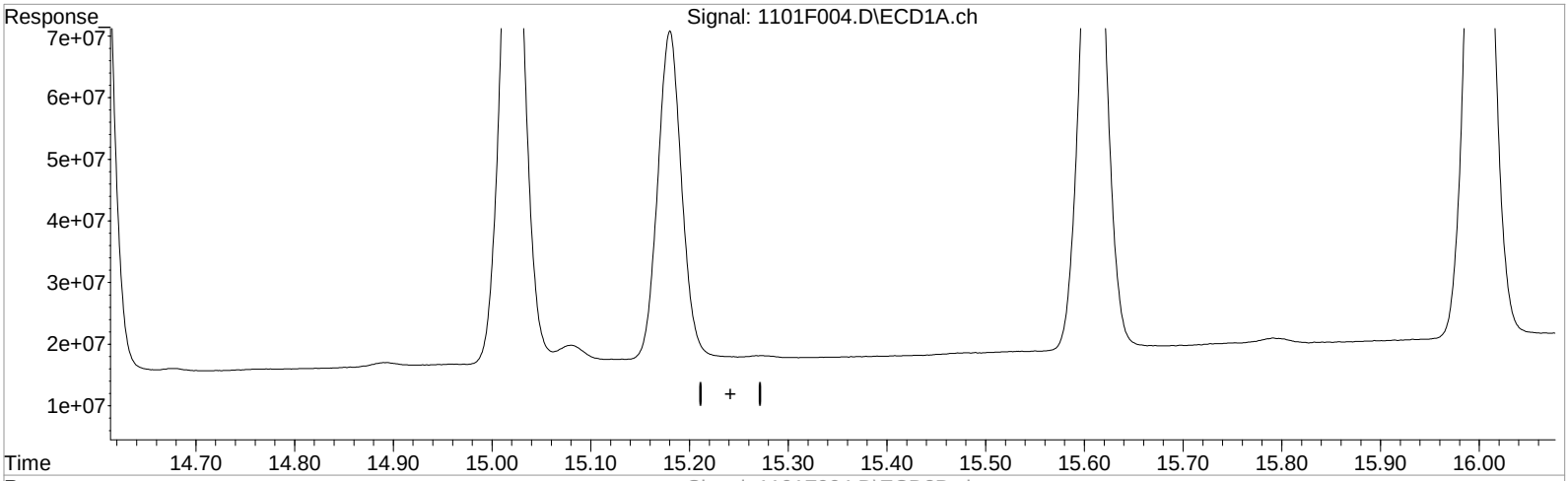
Quantitation Report (Qedit)

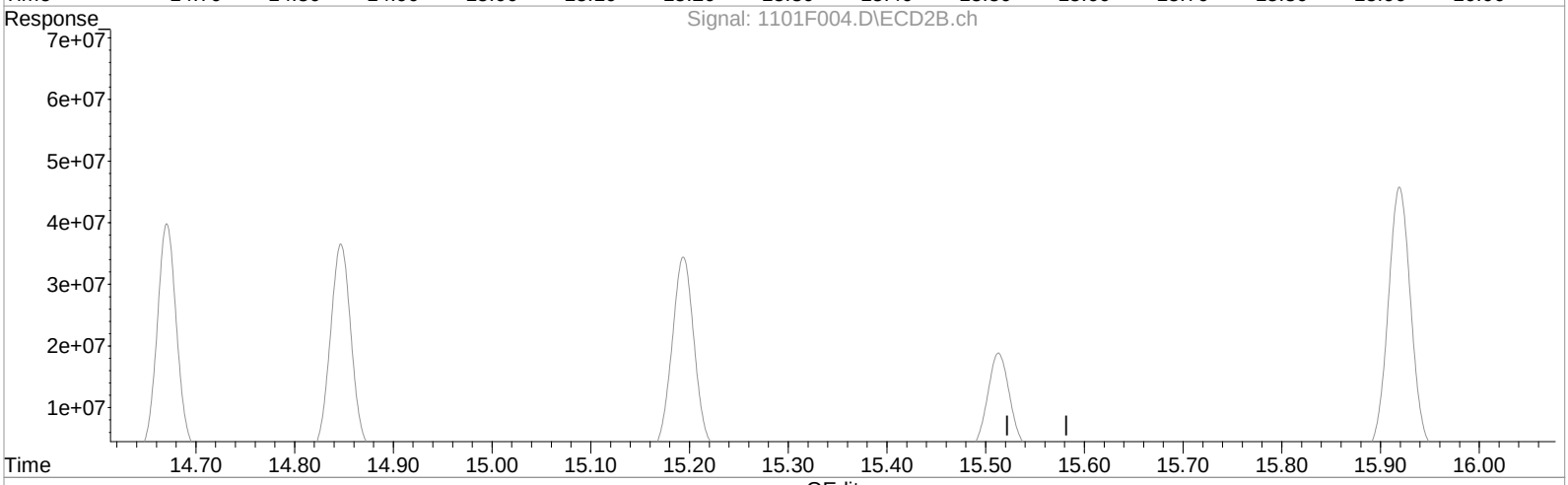
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(22) Methoxychlor (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(22) Methoxychlor #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

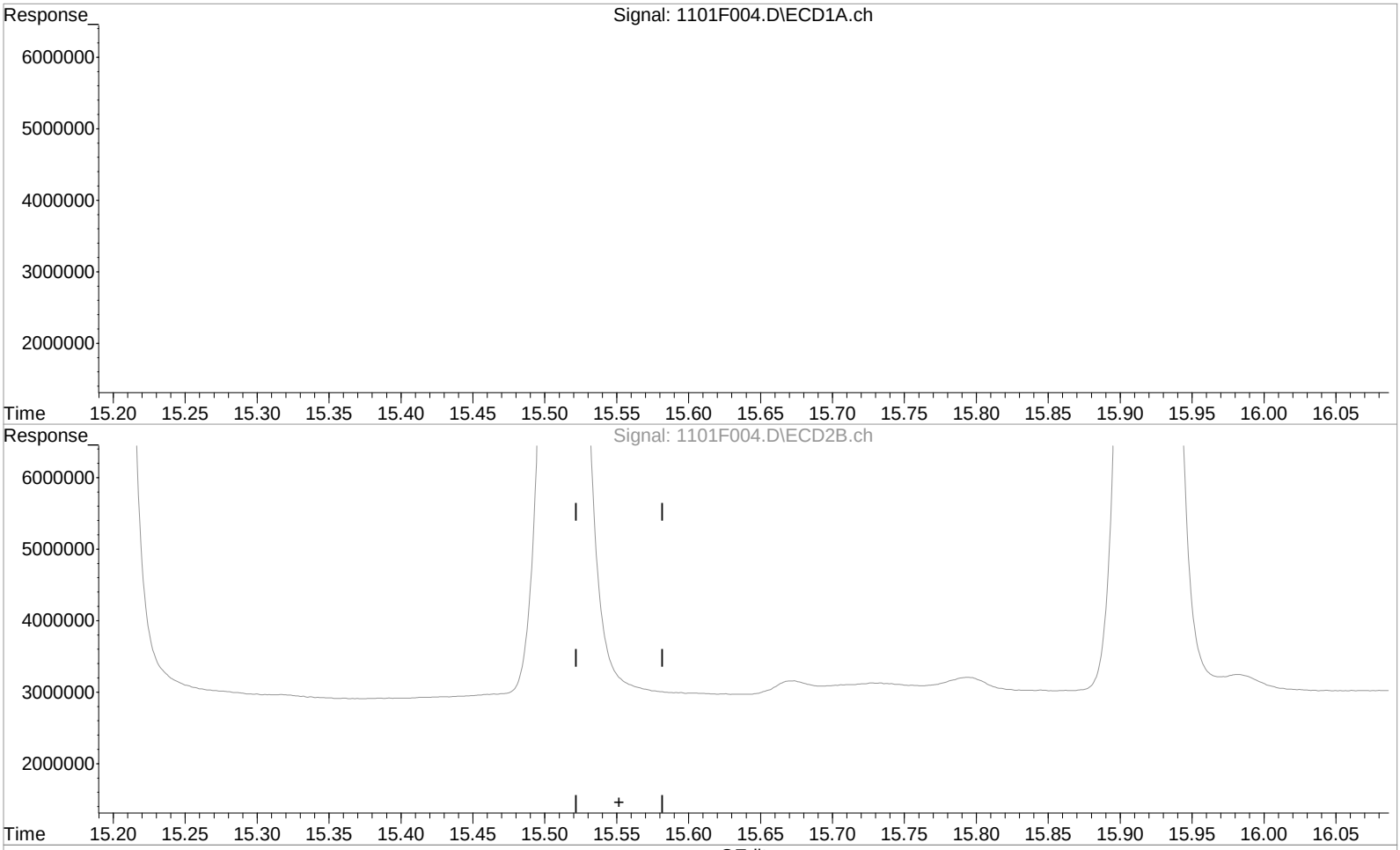
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(22) Methoxychlor (m)

15.180min 90.844 ug/L m

response 91667318

Manual Integration:

Before

11/01/23

(22) Methoxychlor #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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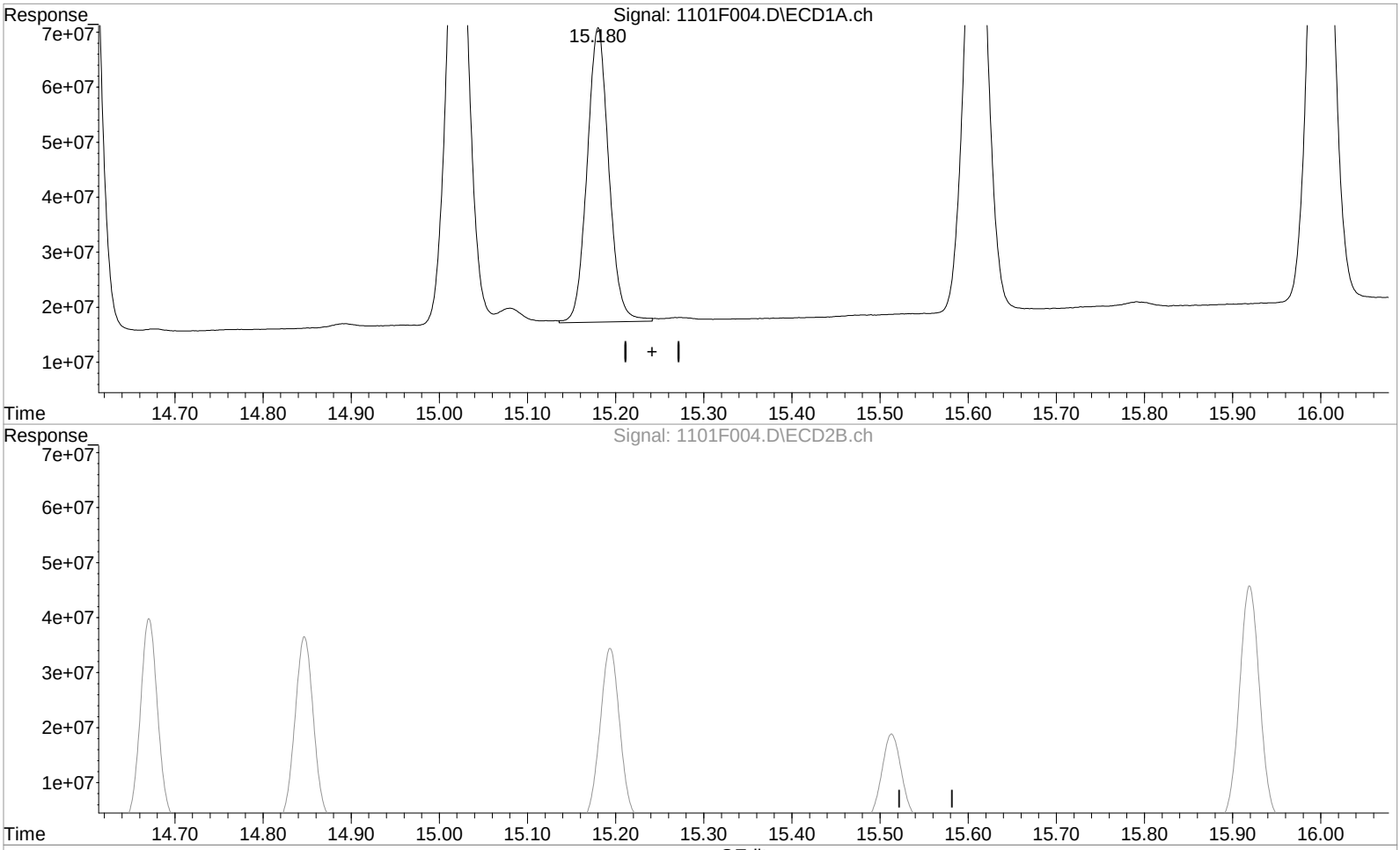
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(22) Methoxychlor (m)

15.180min 90.844 ug/L m

response 91667318

Manual Integration:

After

Missed Peak

11/01/23

(22) Methoxychlor #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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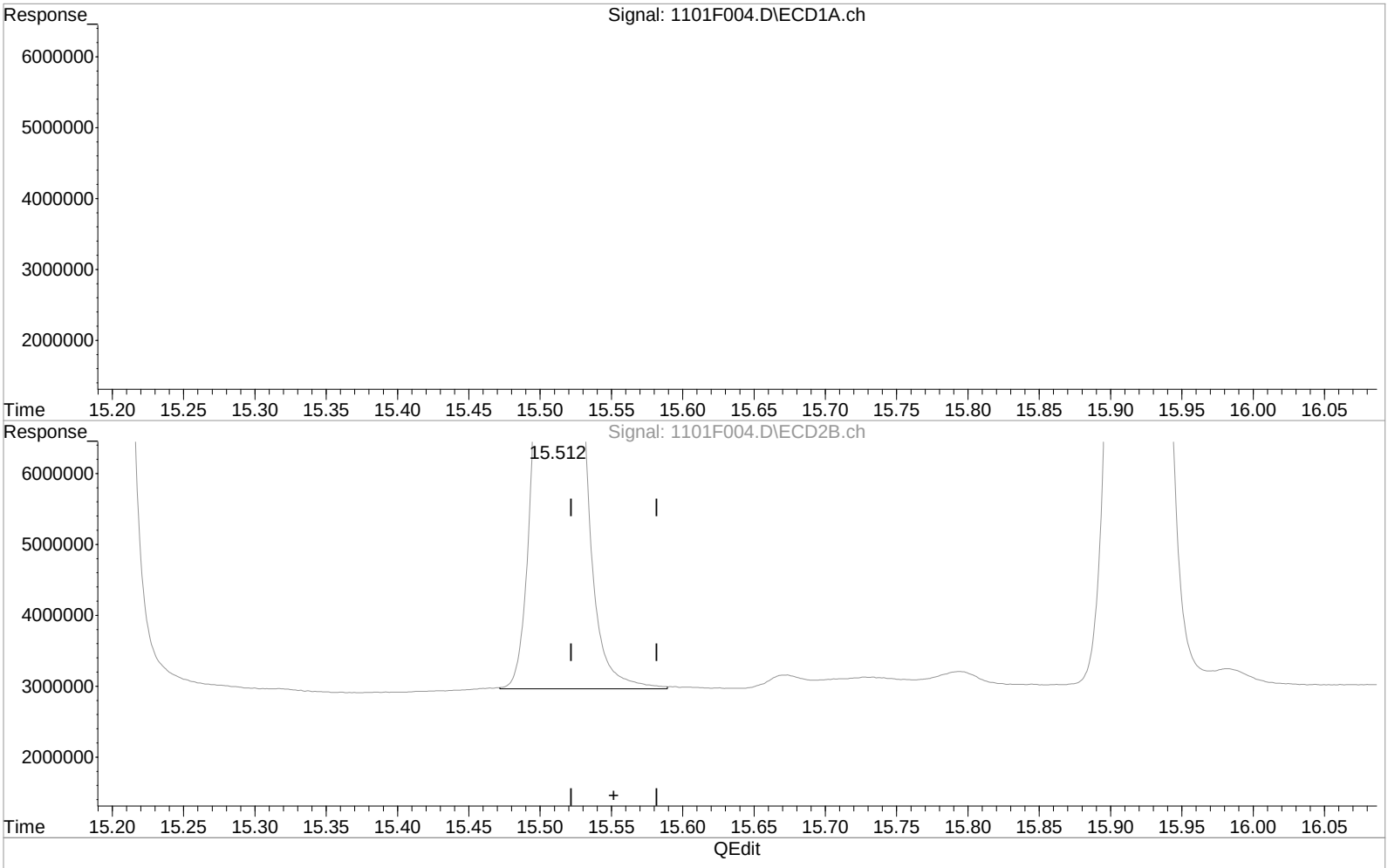
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(22) Methoxychlor (m)

15.180min 90.844 ug/L m

response 91667318

Manual Integration:

After

Missed Peak

11/01/23

(22) Methoxychlor #2 (m)

15.512min 83.540 ug/L m

response 25951516

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
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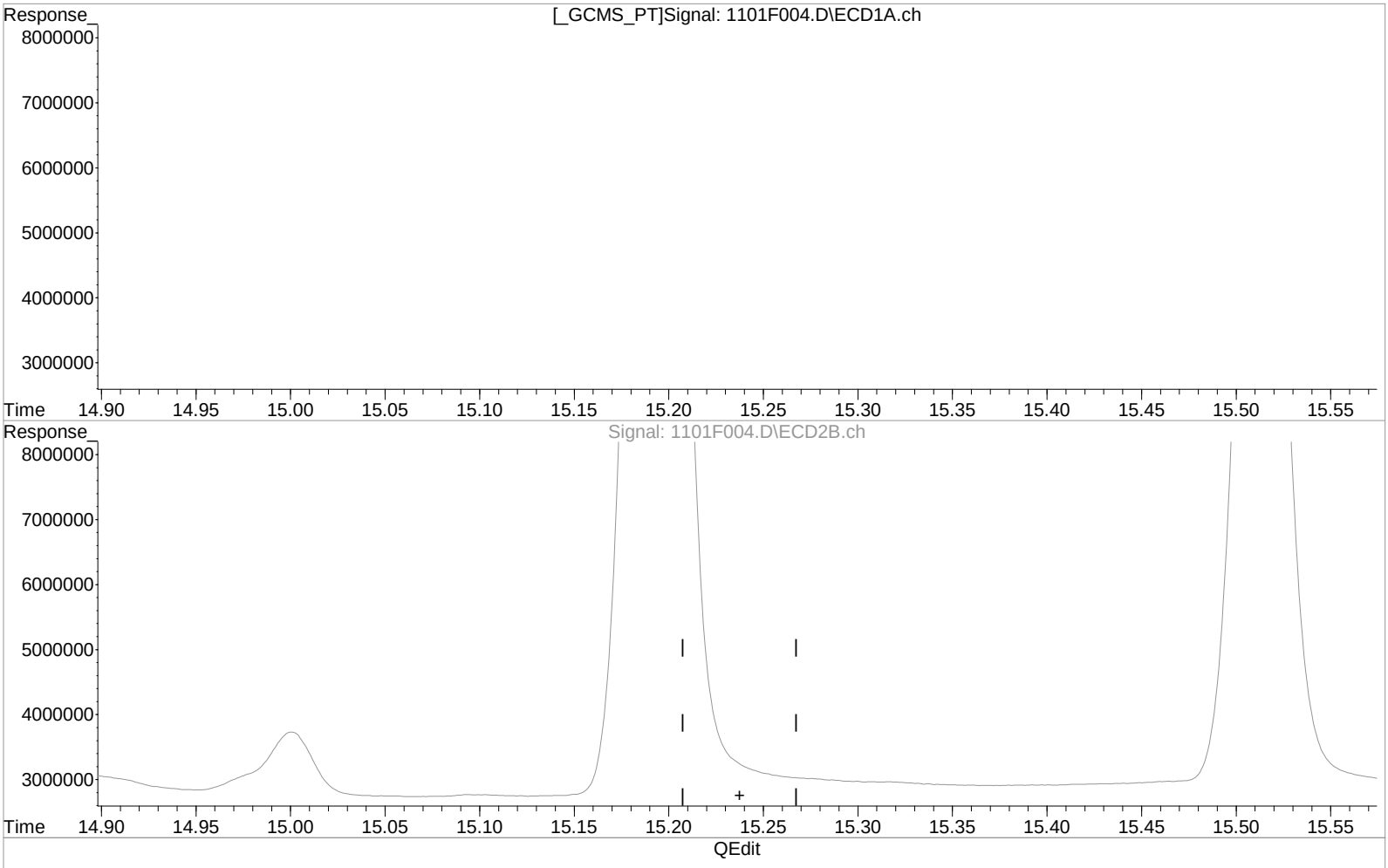
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(23) Endosulfan Sulfate (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(23) Endosulfan Sulfate #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
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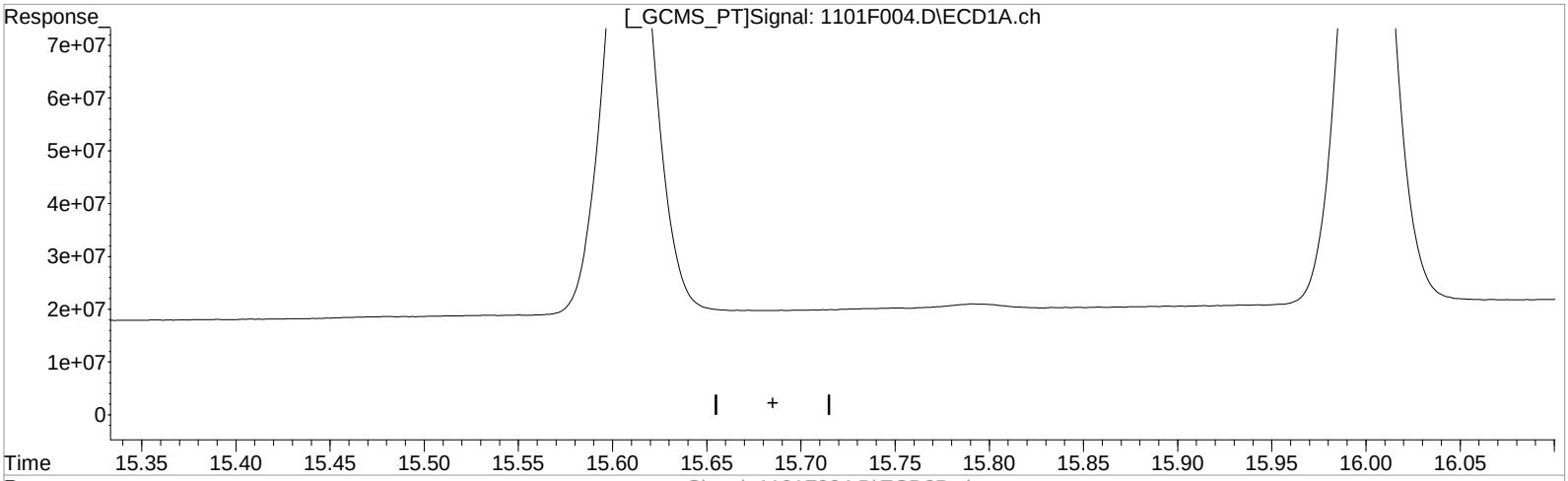
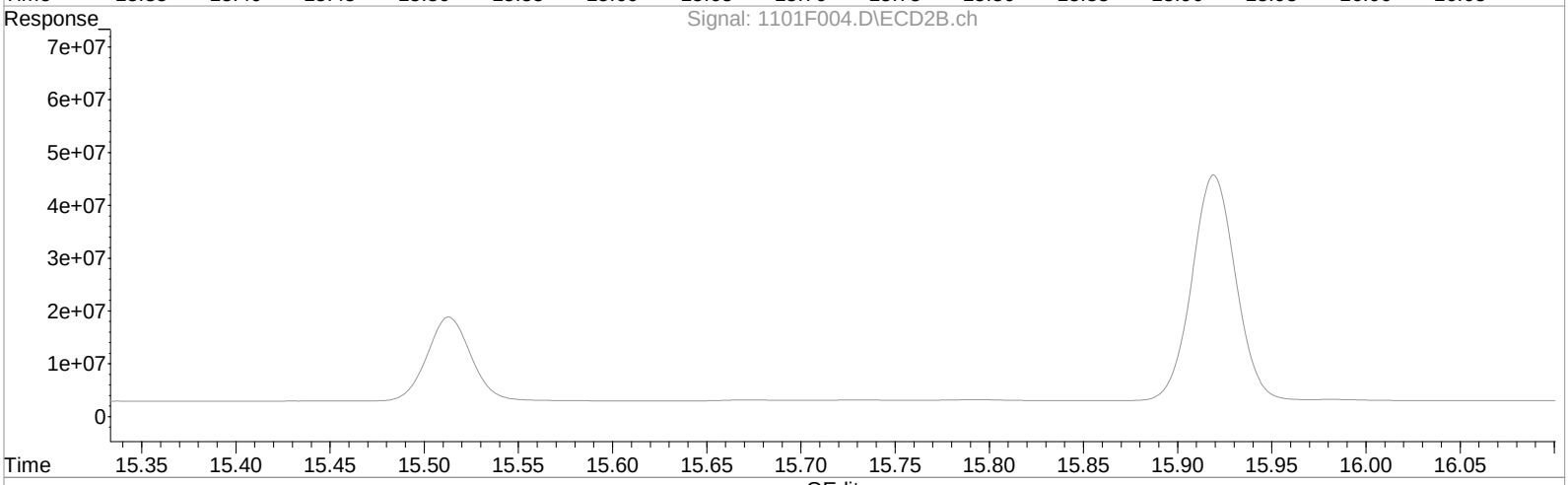
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(23) Endosulfan Sulfate (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(23) Endosulfan Sulfate #2 (m)

15.193min 72.394 ug/L m

response 51662914

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
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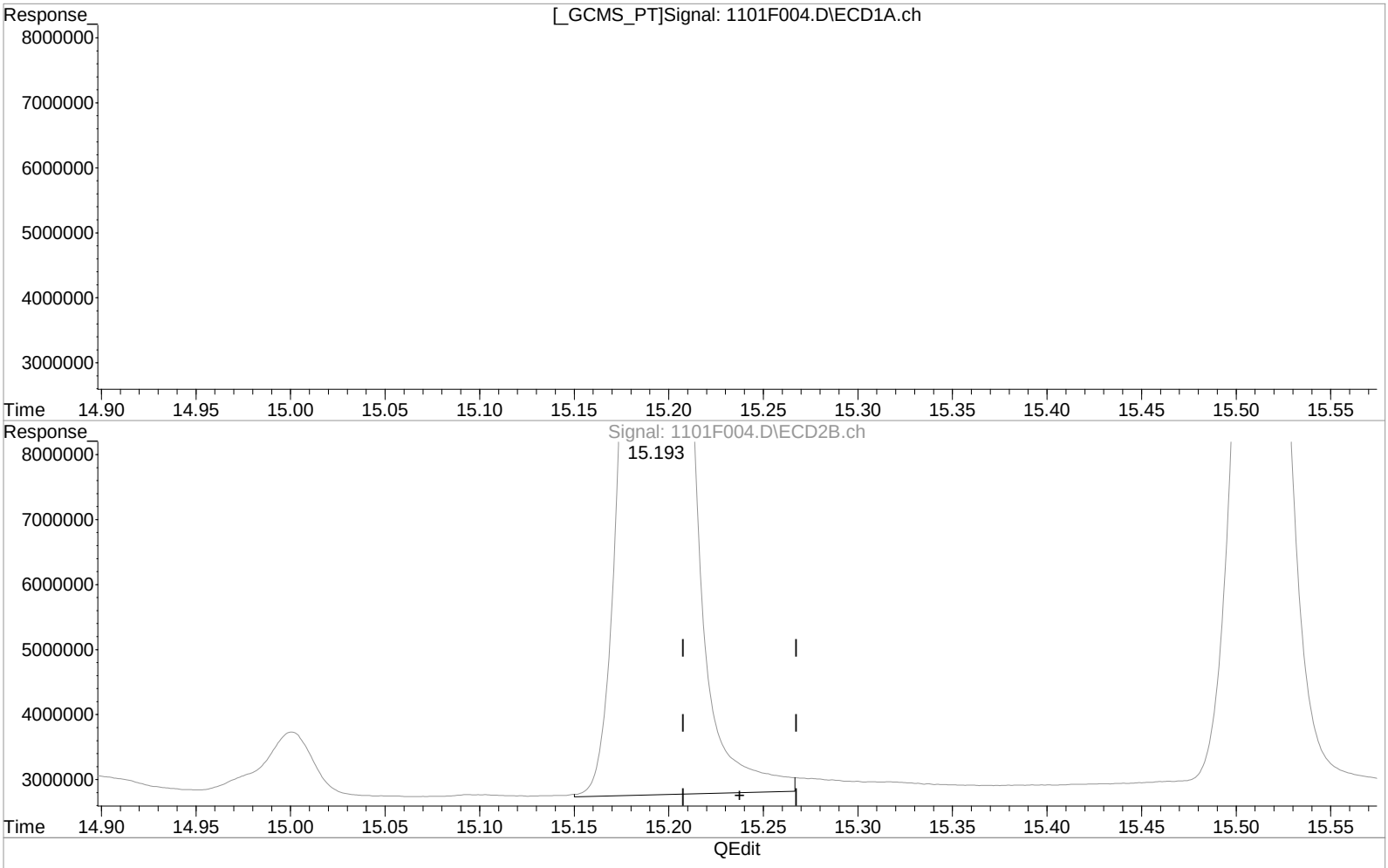
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(23) Endosulfan Sulfate (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(23) Endosulfan Sulfate #2 (m)

15.193min 72.394 ug/L m

response 51662914

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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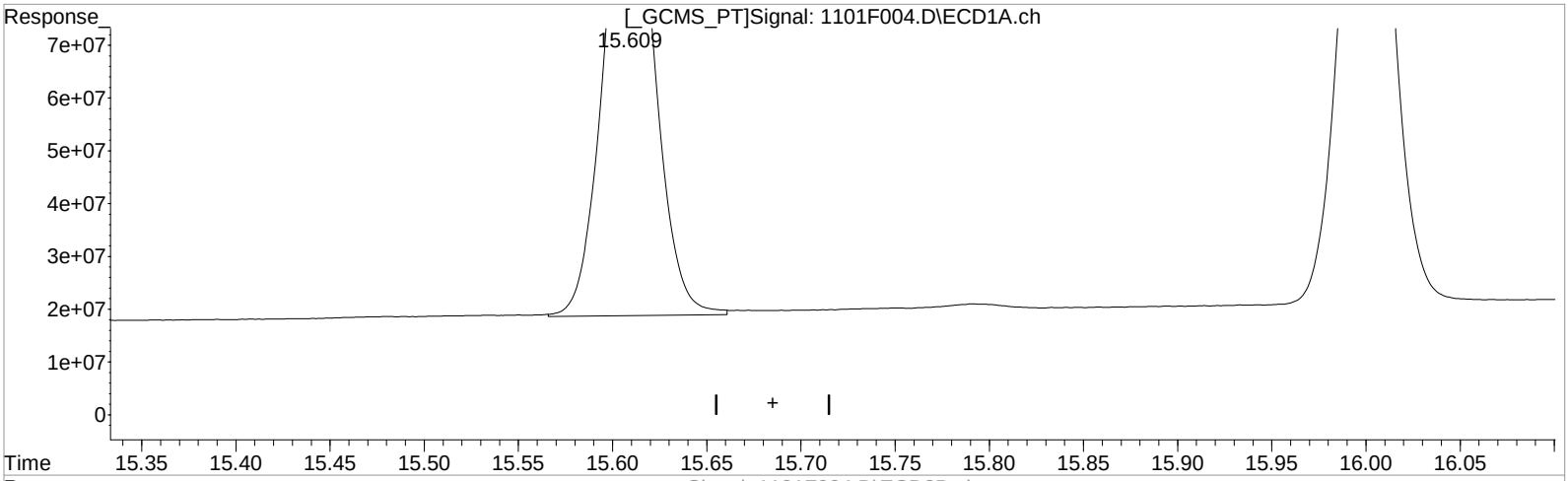

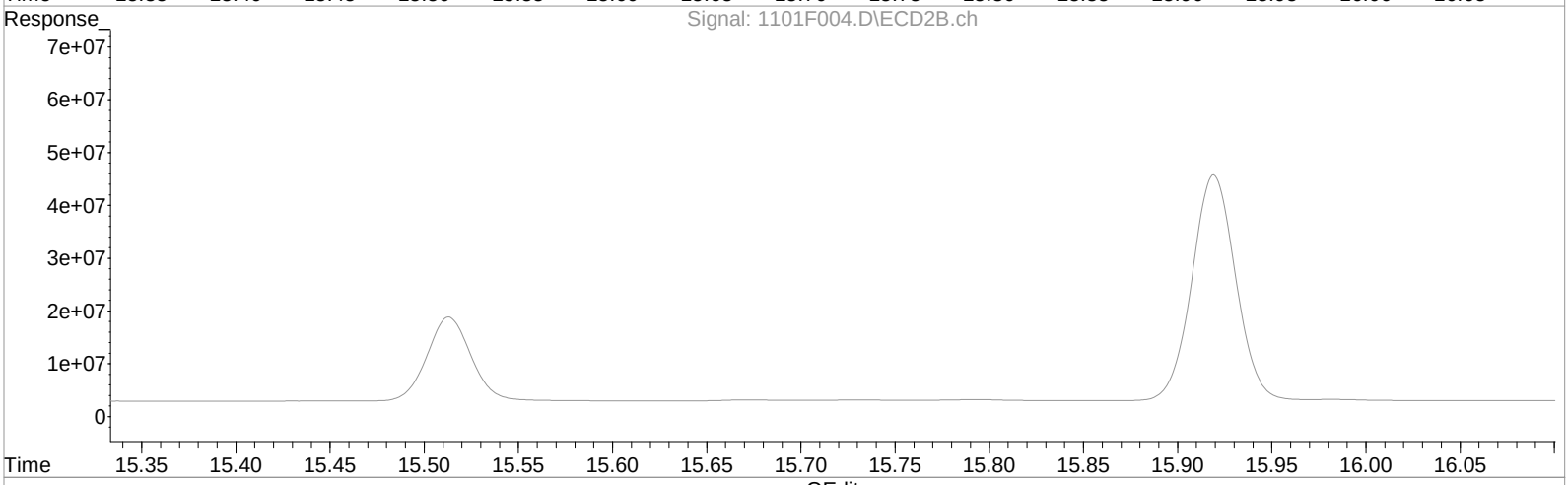

QEdit

(23) Endosulfan Sulfate (m)

15.609min 69.780 ug/L m

response 170347338

Manual Integration:

After

Missed Peak

11/01/23

(23) Endosulfan Sulfate #2 (m)

15.193min 72.394 ug/L m

response 51662914

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
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Quant Method : J:\GC33\Methods\GC33_091823_608.M
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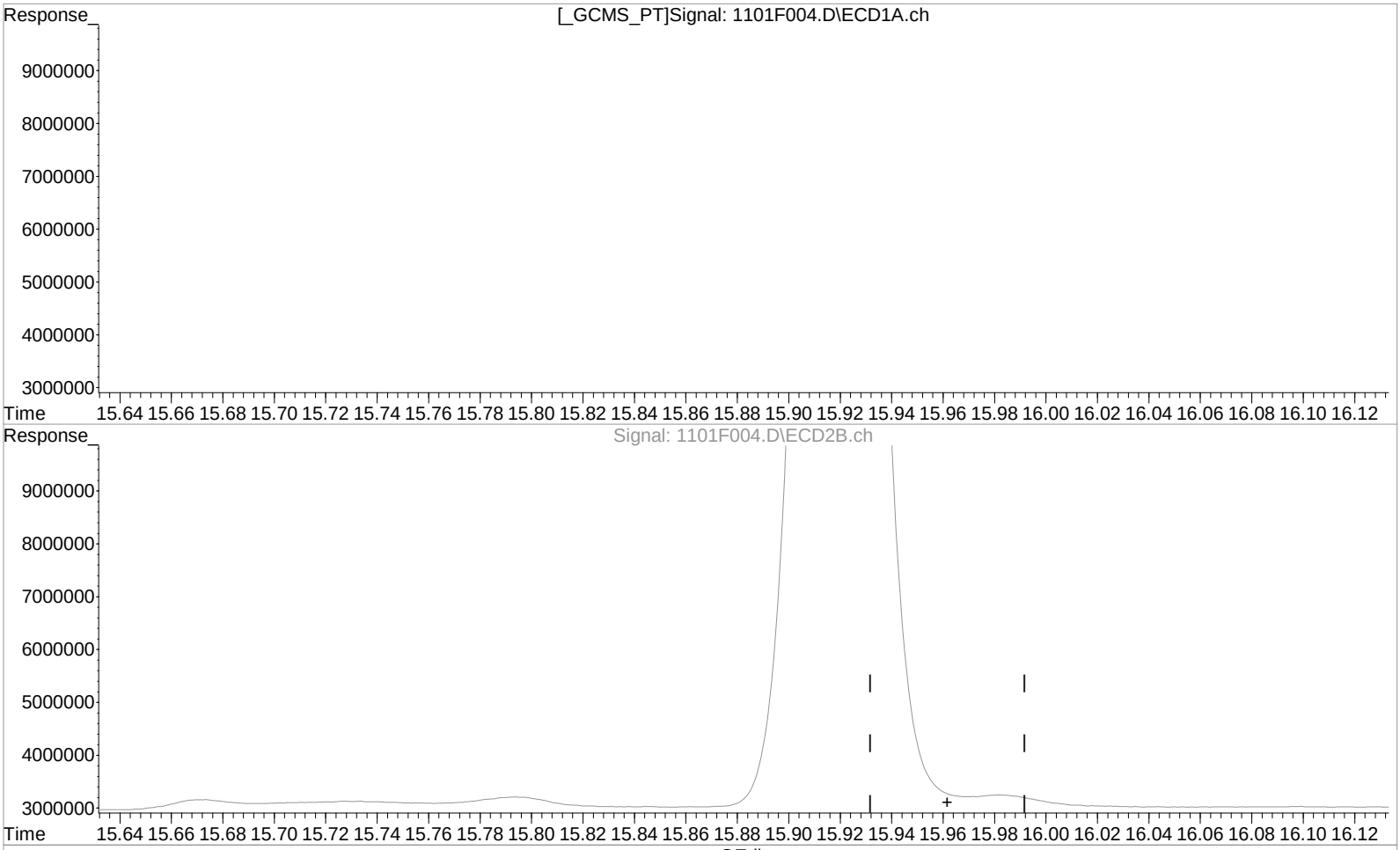
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(24) Endrin Ketone (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(24) Endrin Ketone #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
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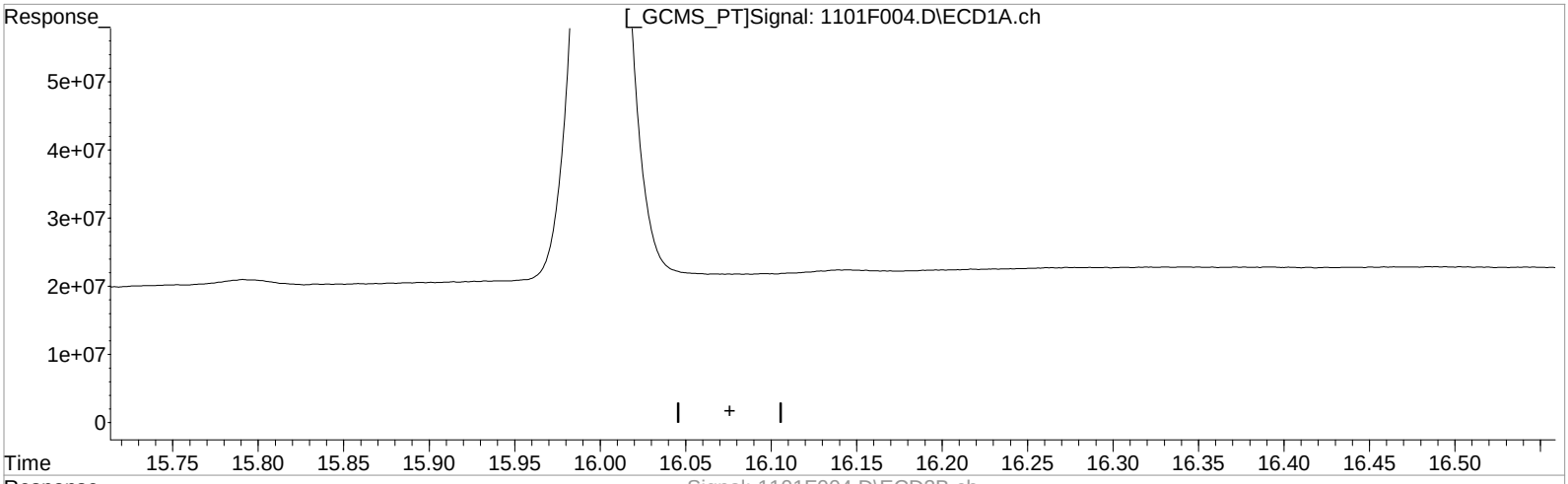
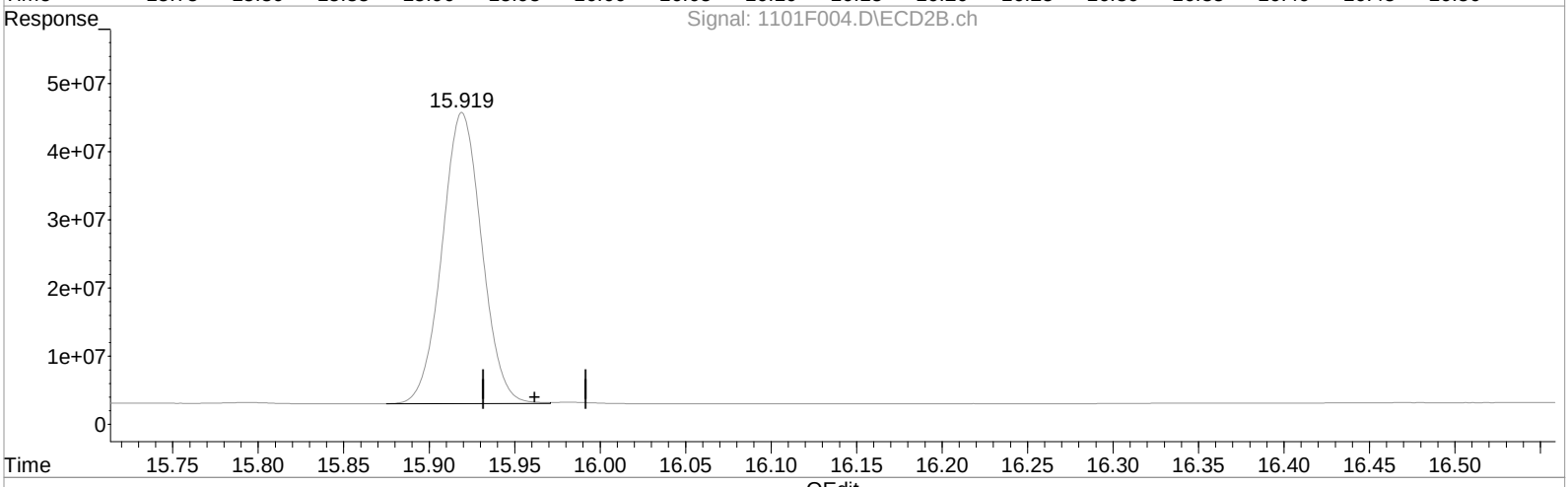
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(24) Endrin Ketone #2 (m)

15.919min 91.798 ug/L m

response 69002720

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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QLast Update : Mon Oct 16 10:58:24 2023
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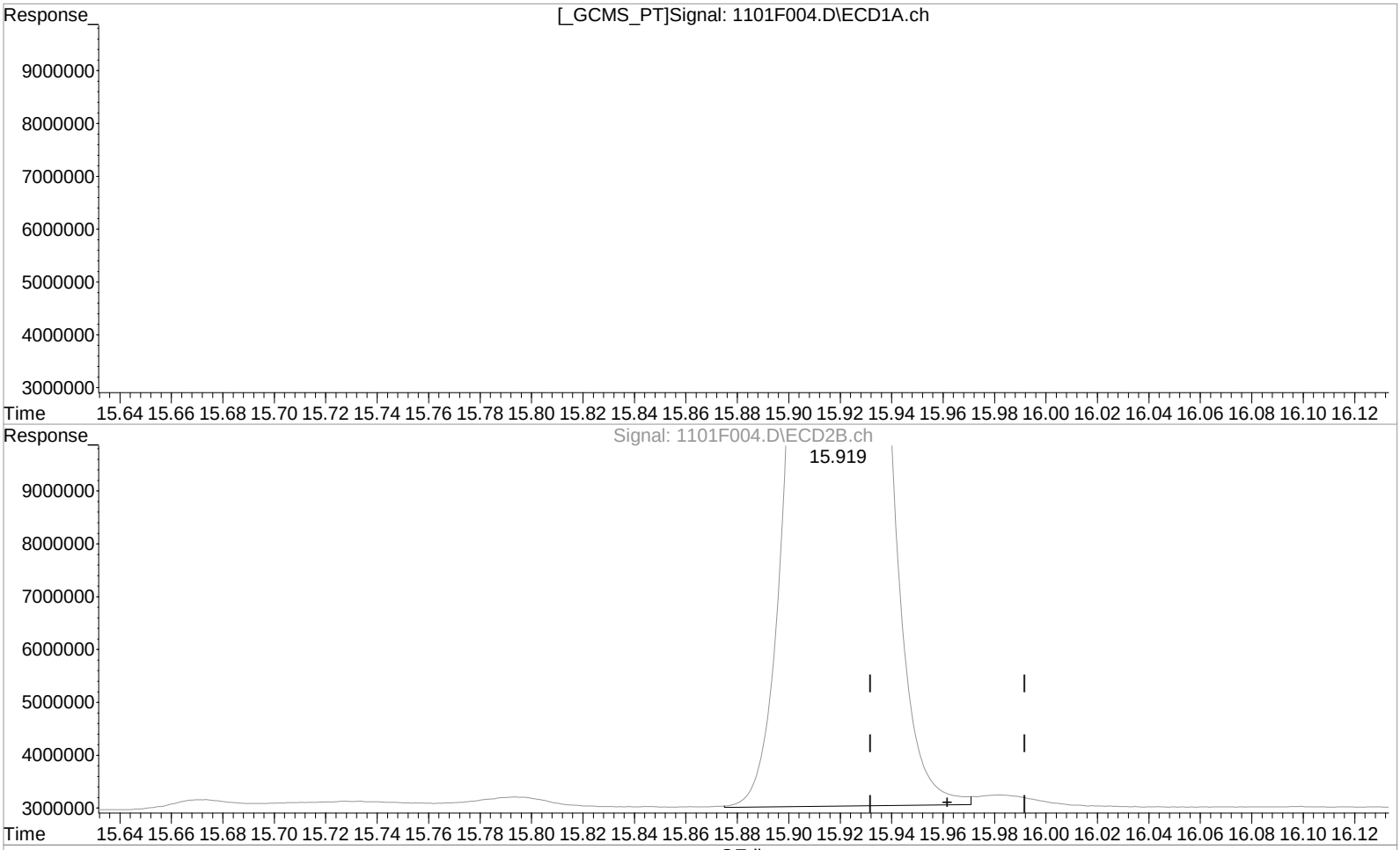
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(24) Endrin Ketone (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(24) Endrin Ketone #2 (m)

15.919min 91.798 ug/L m

response 69002720

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
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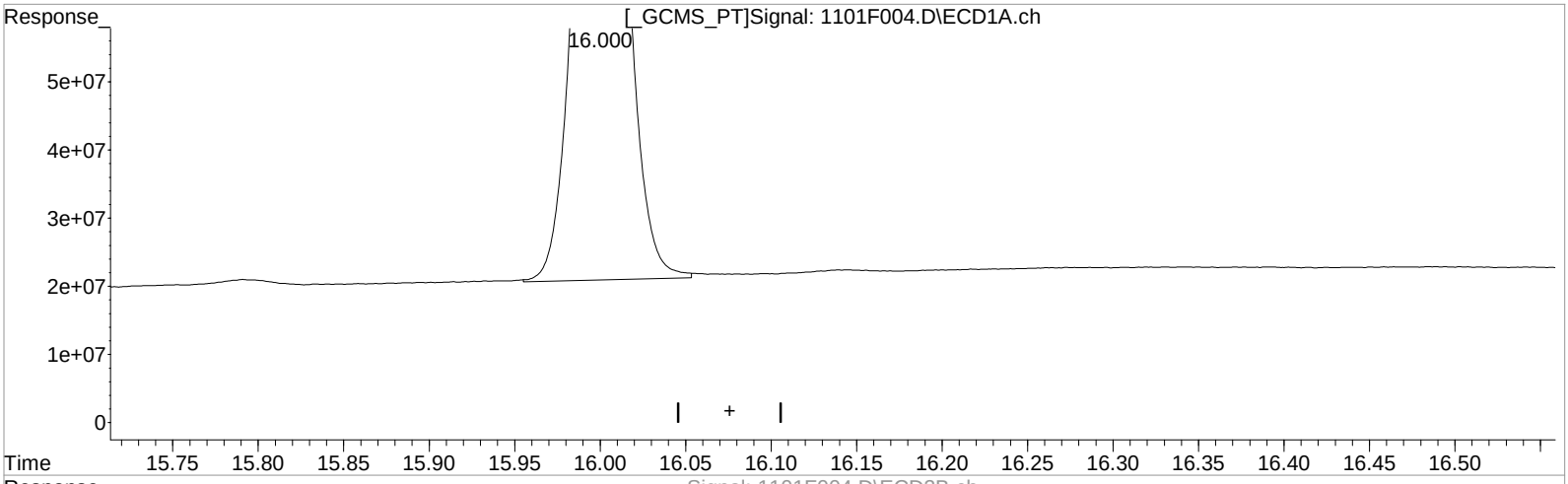
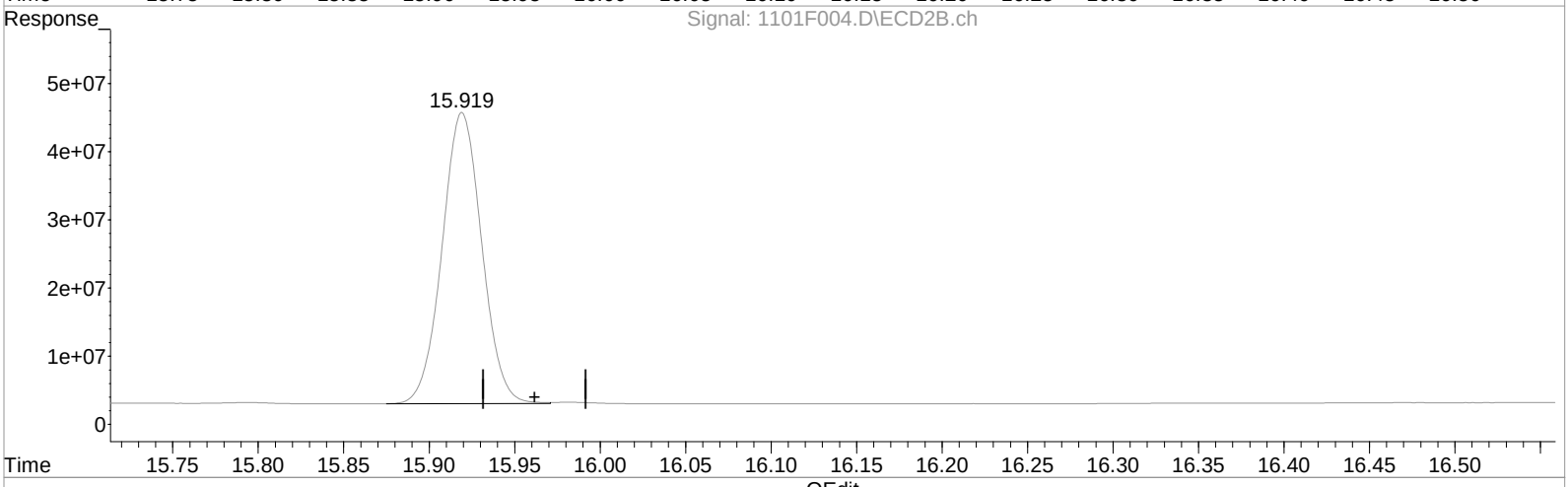
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

16.000min 80.119 ug/L m

response 221685139

Manual Integration:

After

Missed Peak

11/01/23

(24) Endrin Ketone #2 (m)

15.919min 91.798 ug/L m

response 69002720

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Sample : DWSTD08-85L 608 75PPB Inst : GC33
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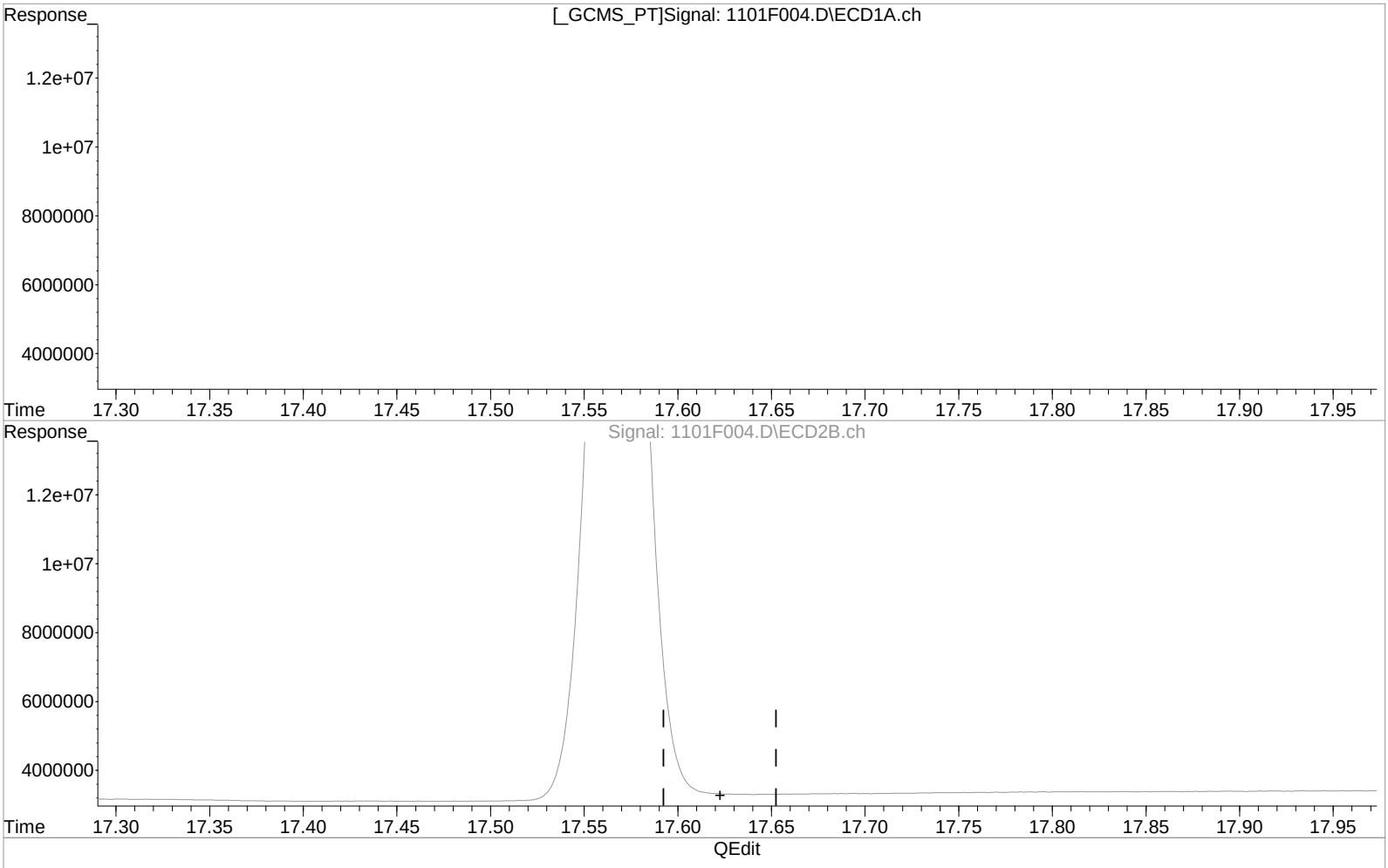
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(25) Decachlorobiphenyl (S)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(25) Decachlorobiphenyl #2 (S)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Sample : DWSTD08-85L 608 75PPB Inst : GC33
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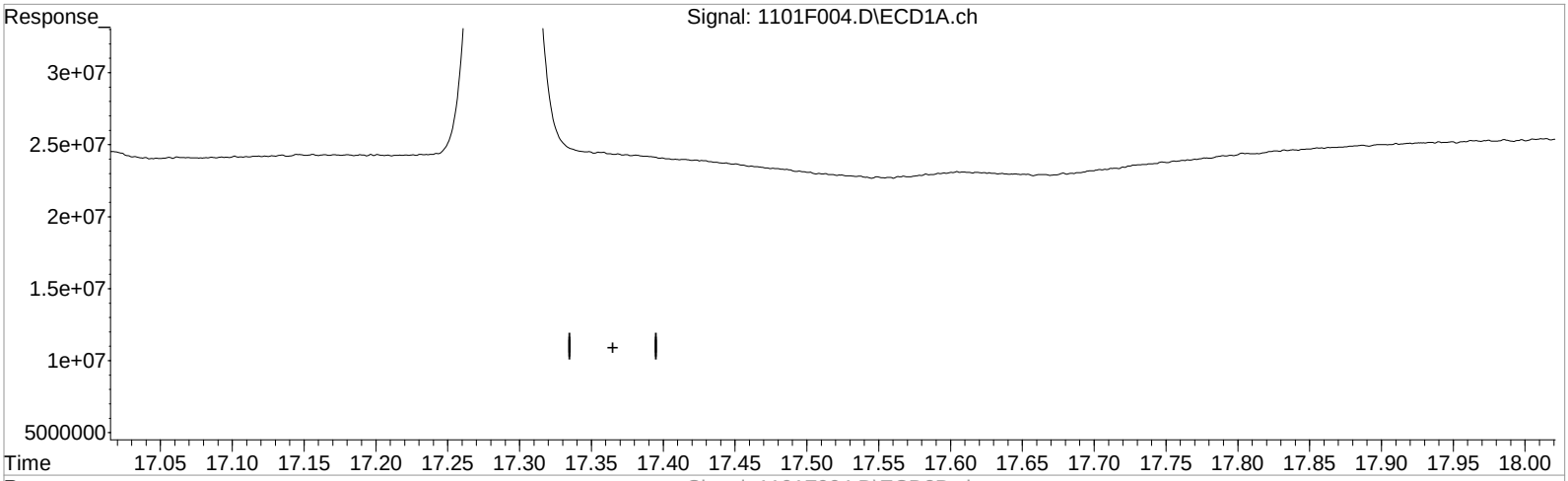
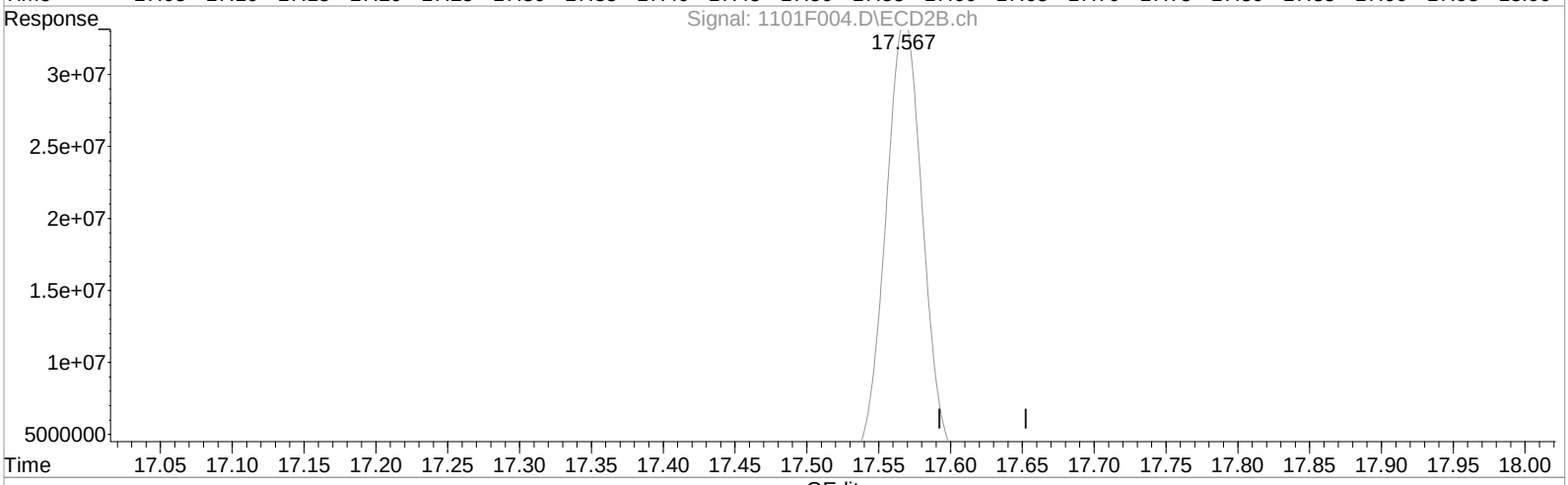
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(25) Decachlorobiphenyl #2 (S)

17.567min 87.207 ug/L m

response 55256481

(+) = Expected Retention Time

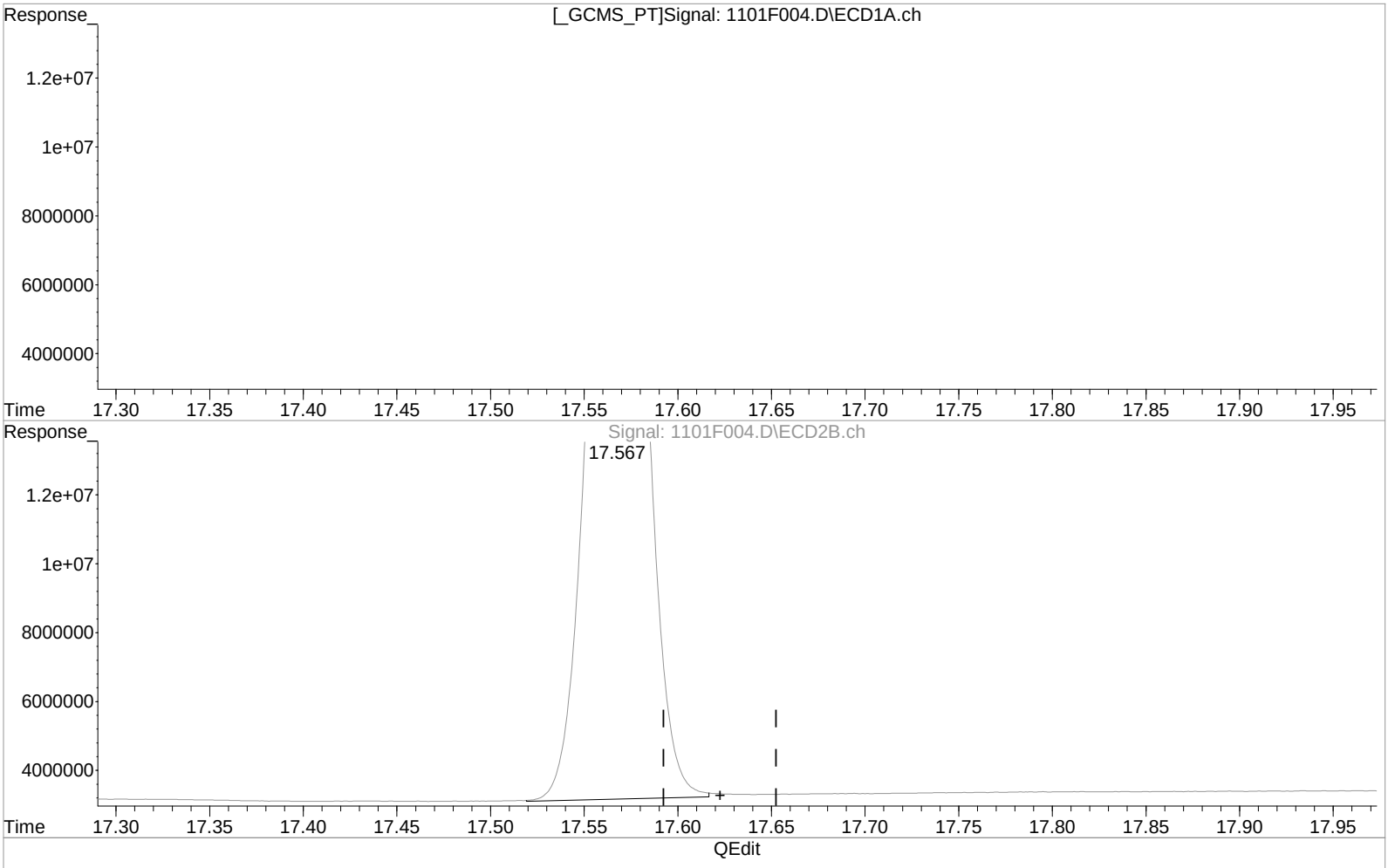
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(25) Decachlorobiphenyl (S)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(25) Decachlorobiphenyl #2 (S)

17.567min 87.207 ug/L m

response 55256481

(+) = Expected Retention Time

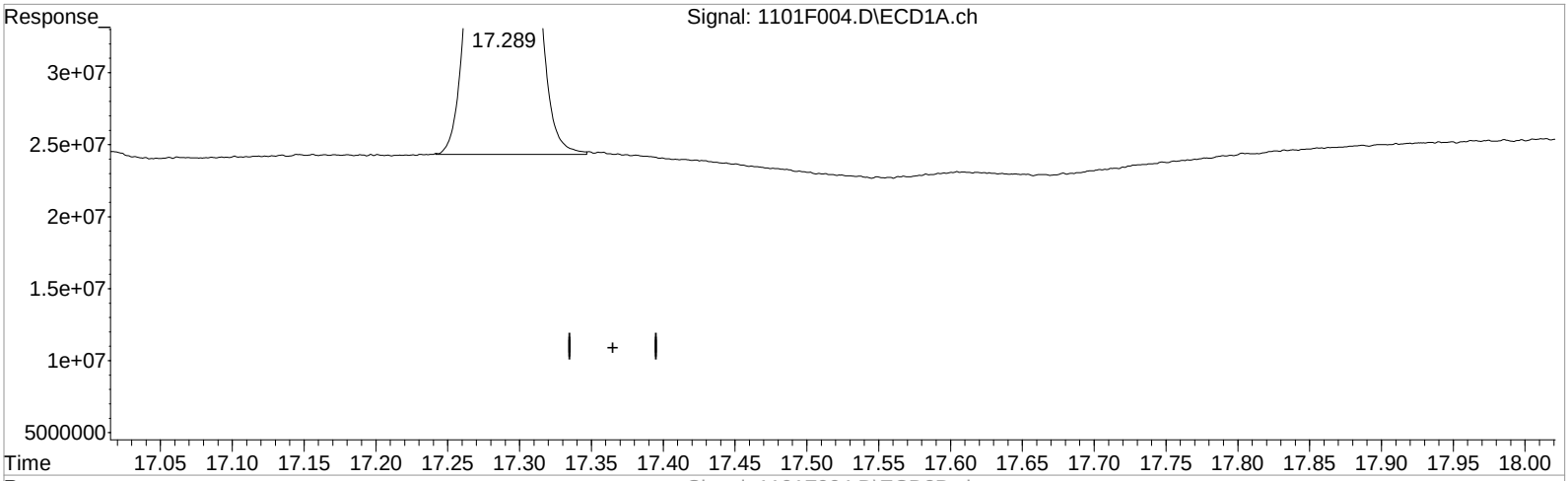
Quantitation Report (Qedit)

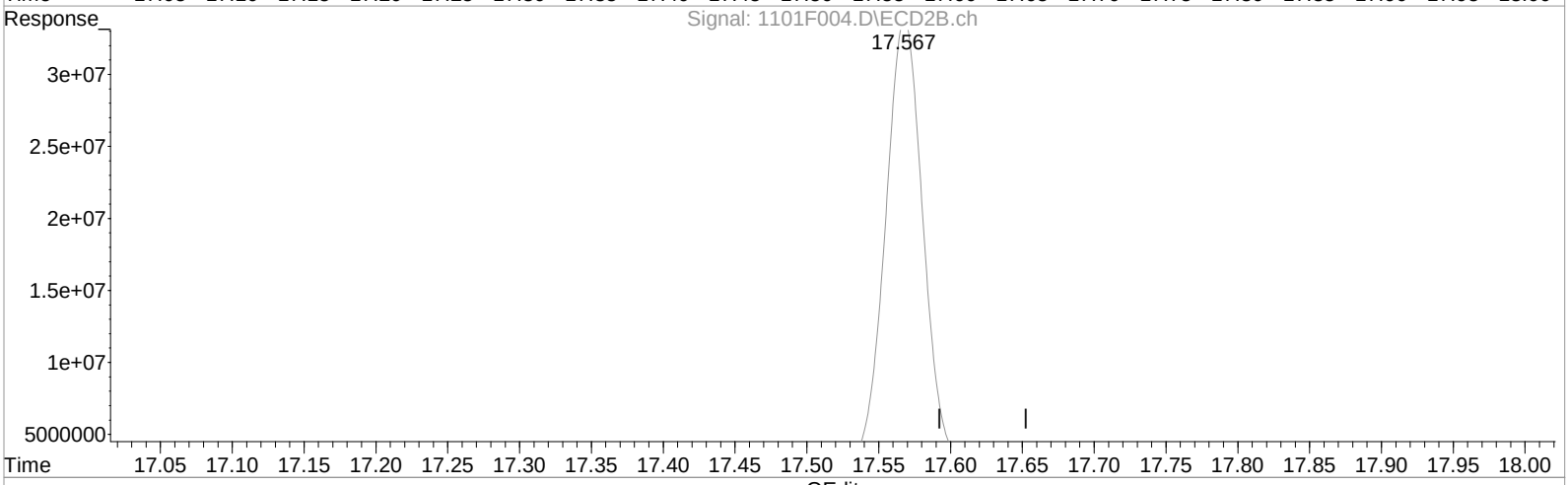
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.289min 70.325 ug/L m

response 202773252

Manual Integration:

After

Missed Peak

11/01/23

(25) Decachlorobiphenyl #2 (S)

17.567min 87.207 ug/L m

response 55256481

(+) = Expected Retention Time

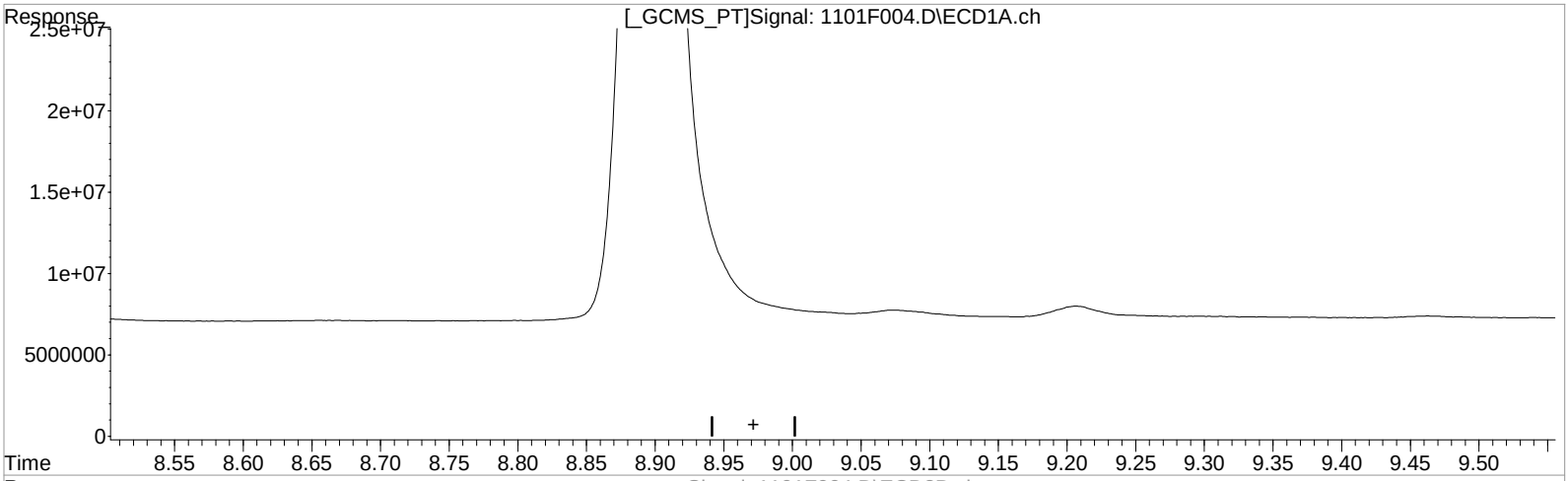
Quantitation Report (Qedit)

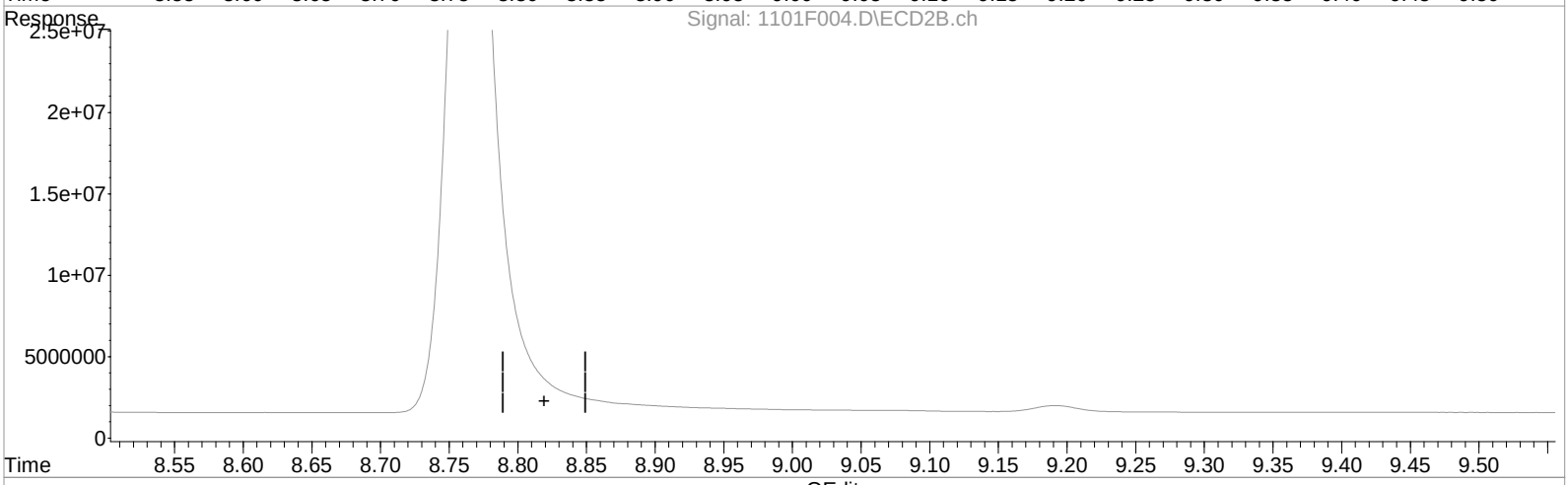
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:08:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(2) TCMX (s)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(2) TCMX #2 (s)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

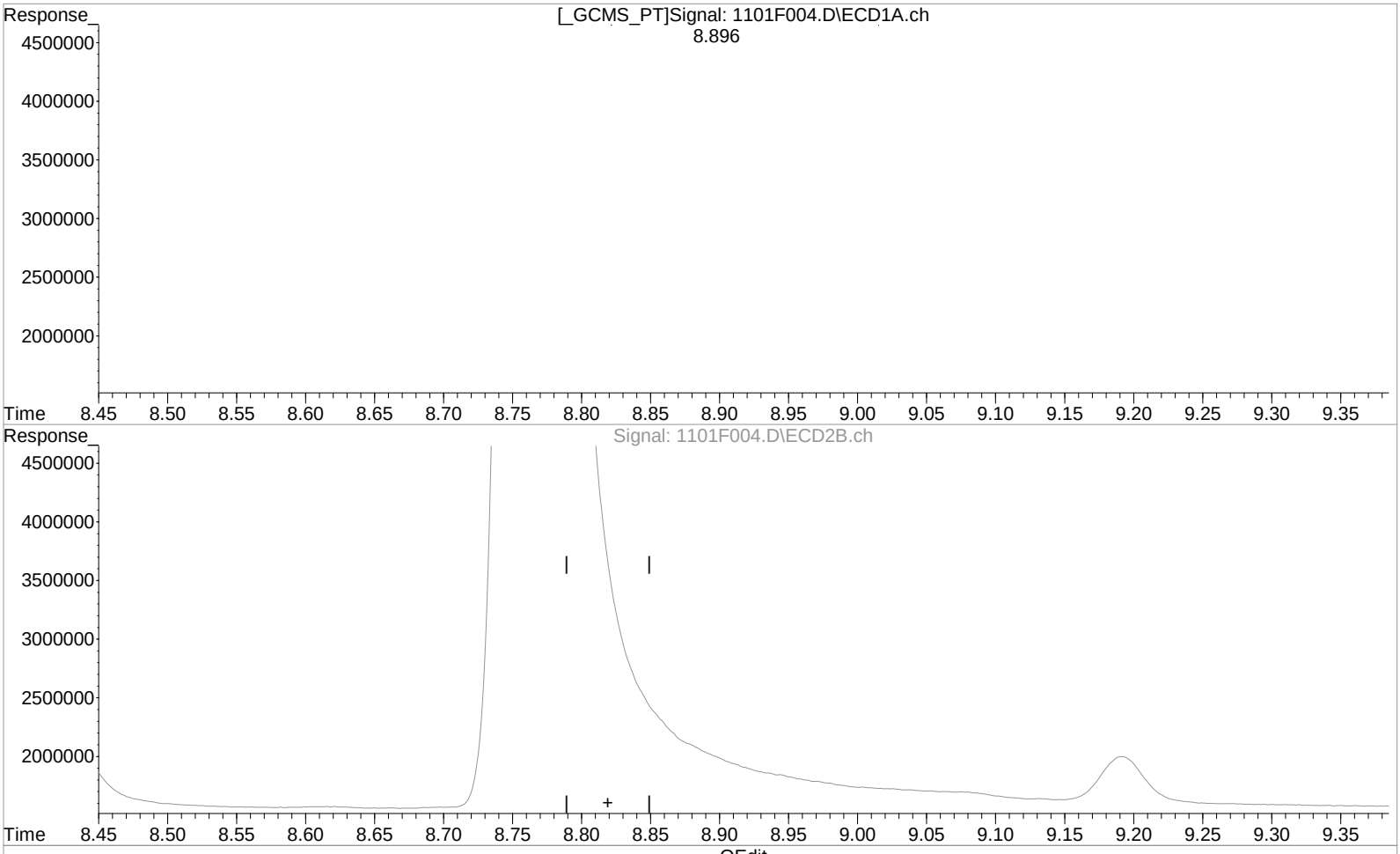
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:08:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(2) TCMX (s)

8.896min 79.810 ug/L m

response 195561242

(2) TCMX #2 (s)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
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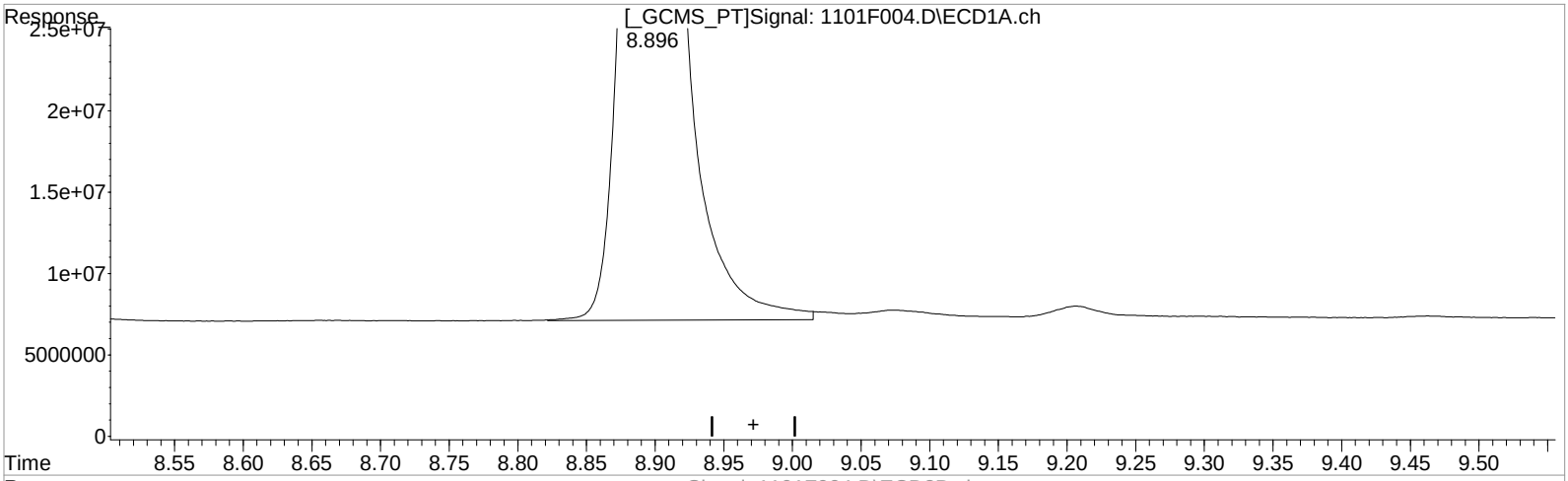
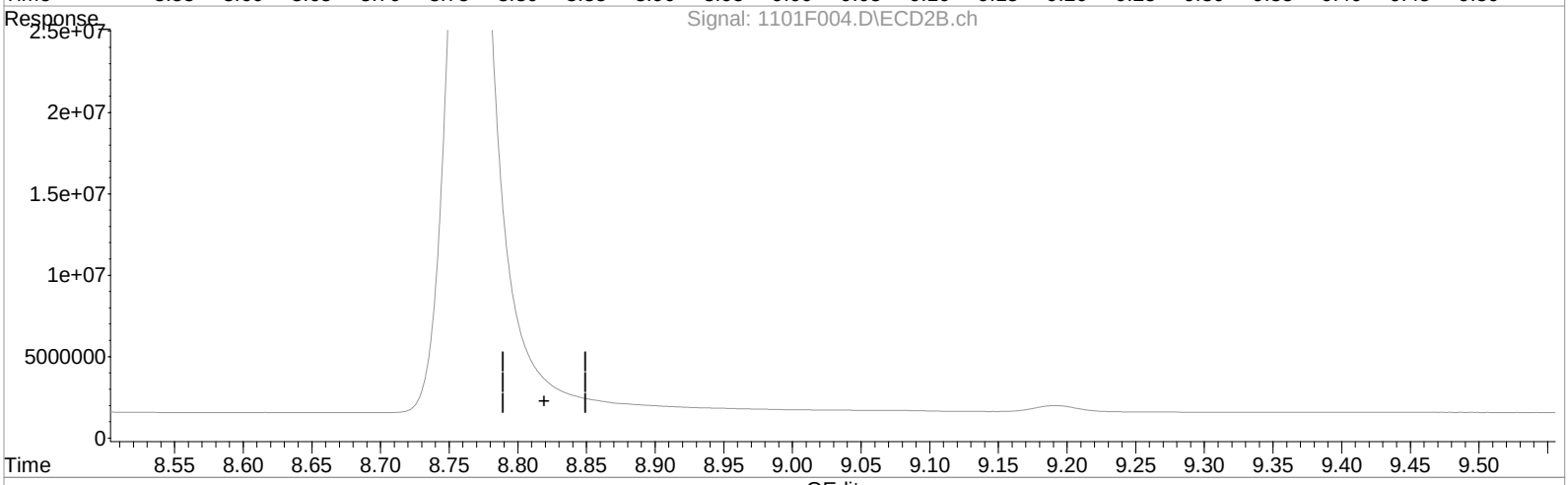
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(2) TCMX (s)

8.896min 79.810 ug/L m

response 195561242

Manual Integration:

After

Missed Peak

11/01/23

(2) TCMX #2 (s)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

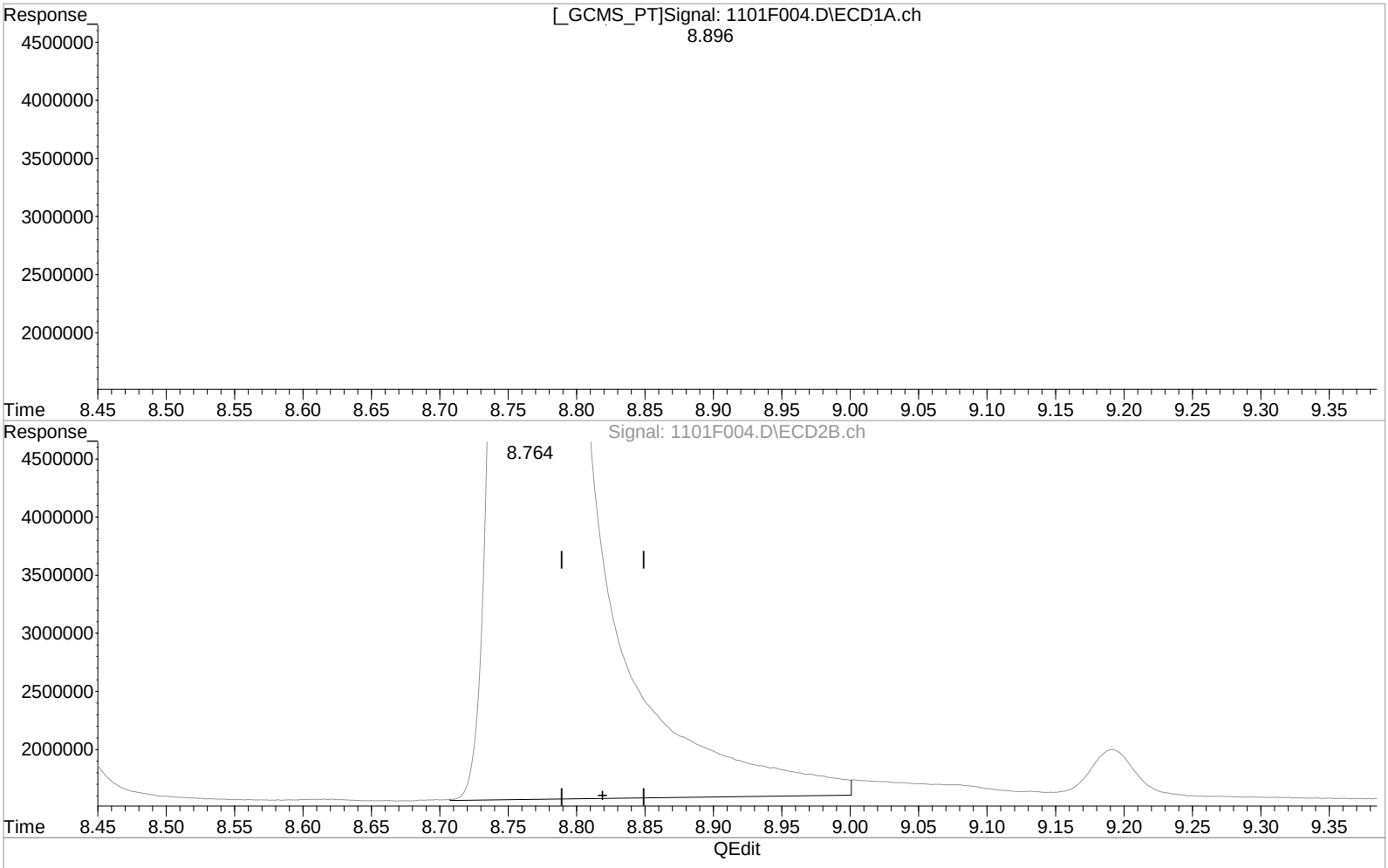
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:08:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(2) TCMX (s)

8.896min 79.810 ug/L m

response 195561242

(2) TCMX #2 (s)

8.764min 85.222 ug/L m

response 110780596

Manual Integration:

After

Missed Peak

11/01/23

(+) = Expected Retention Time

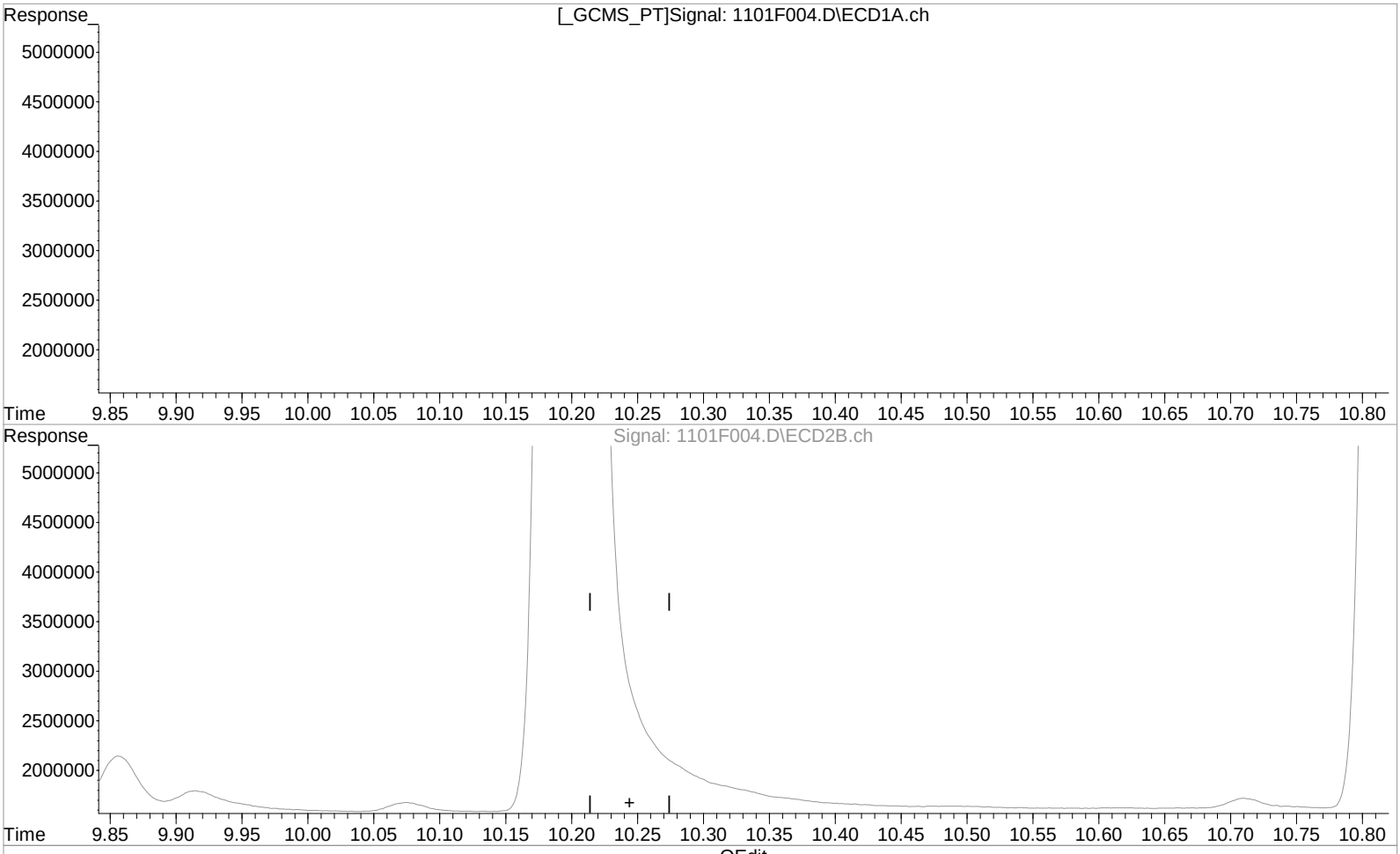
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:10:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(3) alpha-BHC (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(3) alpha-BHC #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

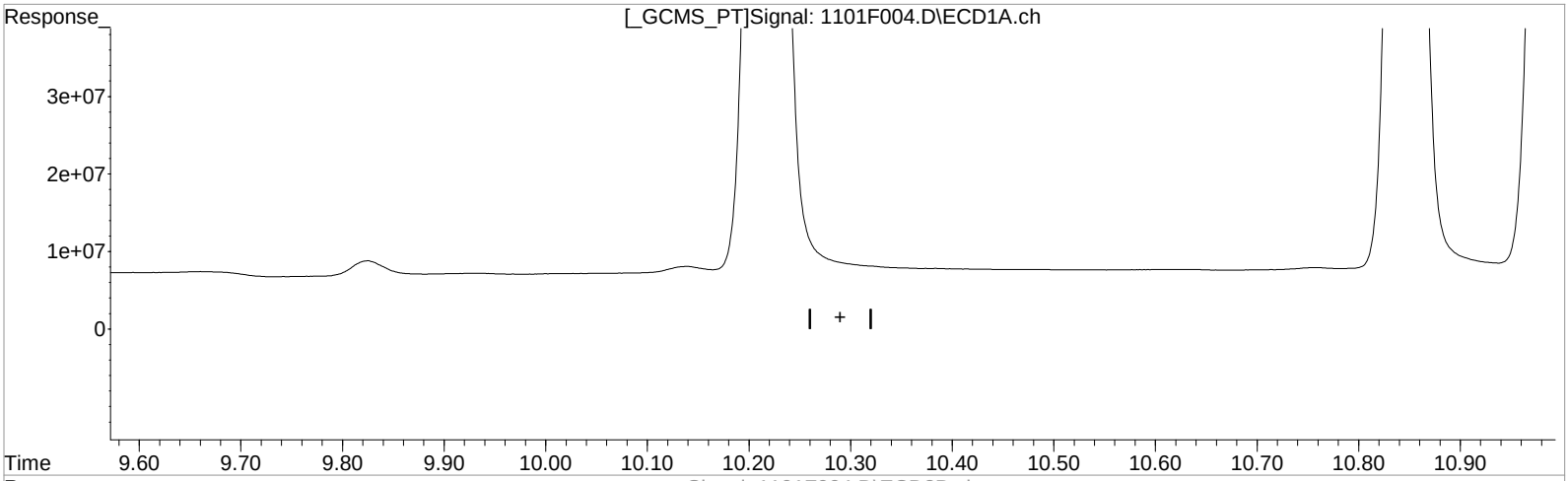
Quantitation Report (Qedit)

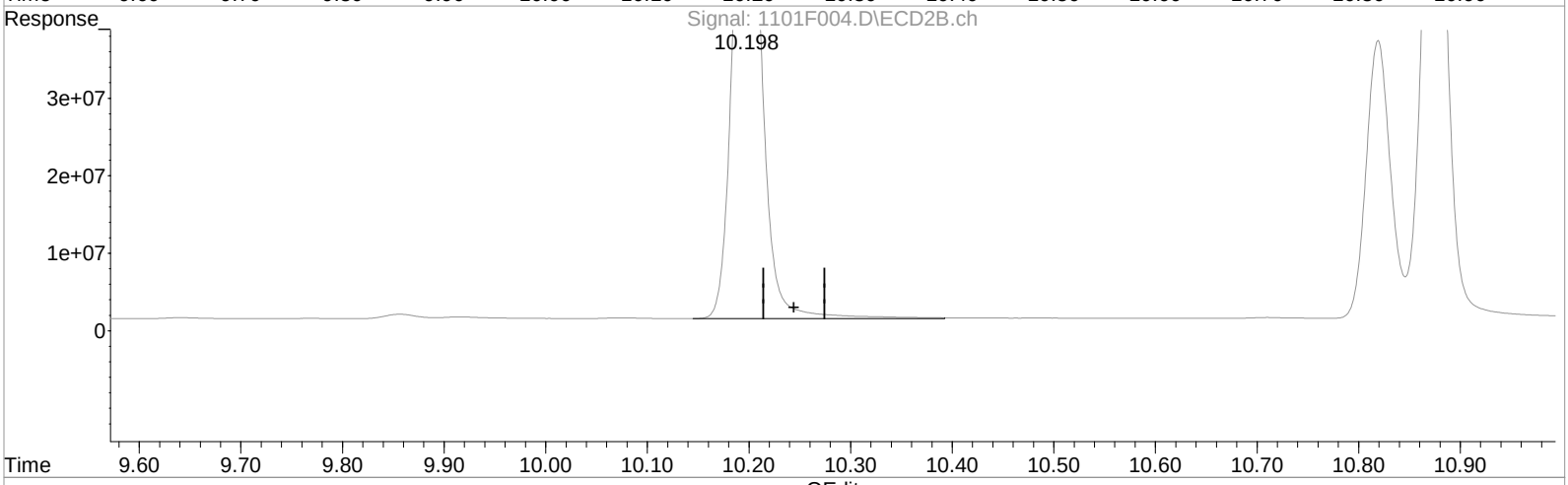
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:10:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(3) alpha-BHC (m)

0.000min 0.000 ug/L

response 0

(3) alpha-BHC #2 (m)

10.198min 86.974 ug/L m

response 138268937

Manual Integration:

Before

11/01/23

(+) = Expected Retention Time

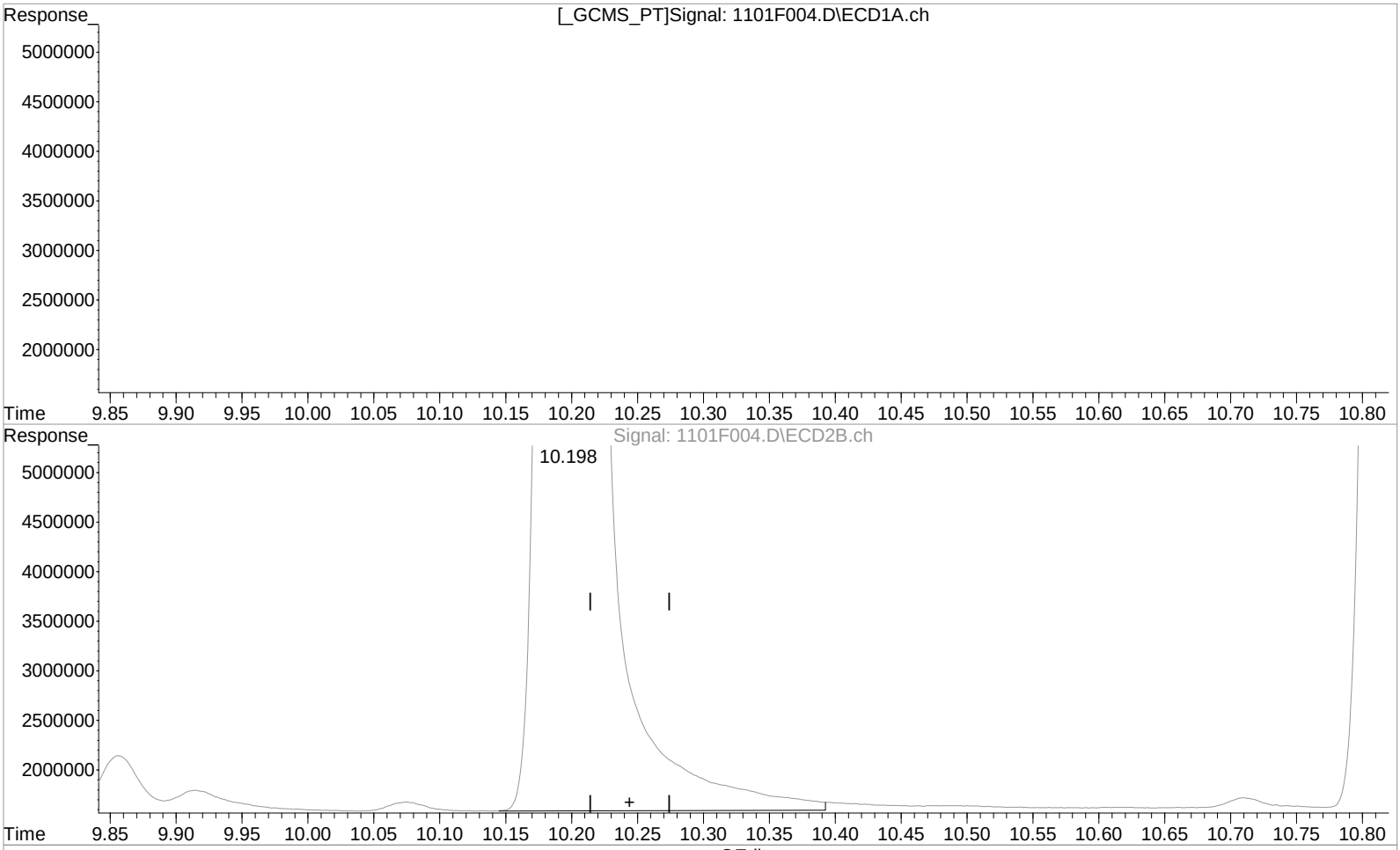
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:10:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(3) alpha-BHC (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(3) alpha-BHC #2 (m)

10.198min 86.974 ug/L m

response 138268937

(+) = Expected Retention Time

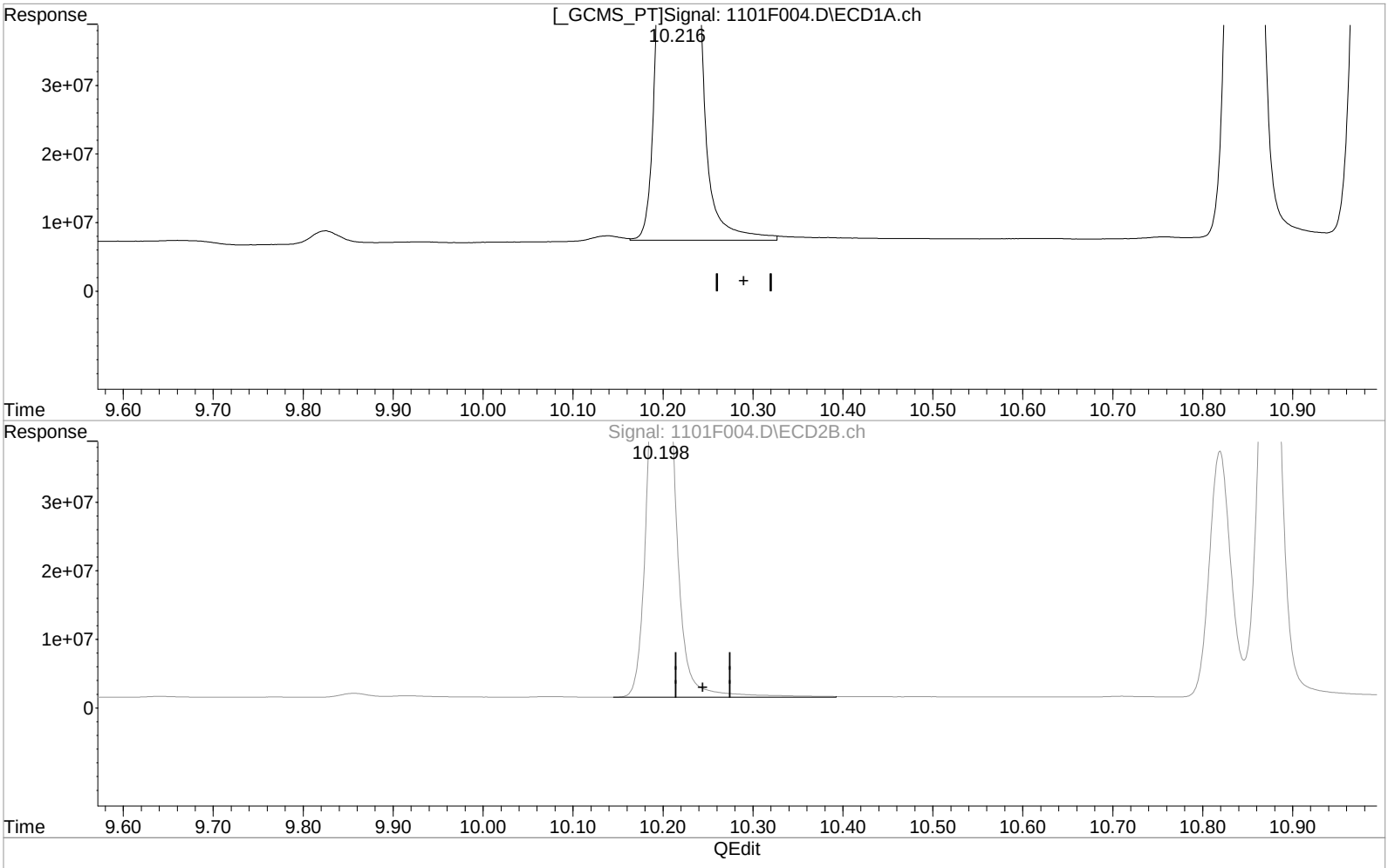
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:10:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(3) alpha-BHC (m)

10.216min 83.480 ug/L m

response 479865752

Manual Integration:

After

Missed Peak

11/01/23

(3) alpha-BHC #2 (m)

10.198min 86.974 ug/L m

response 138268937

(+) = Expected Retention Time

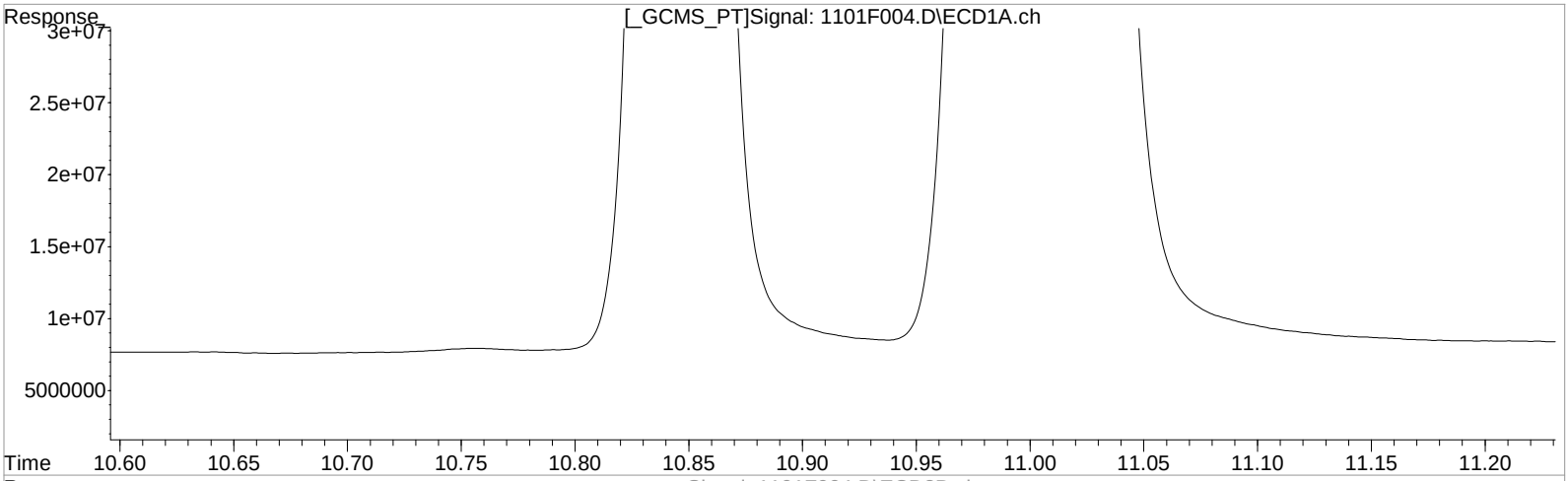
Quantitation Report (Qedit)

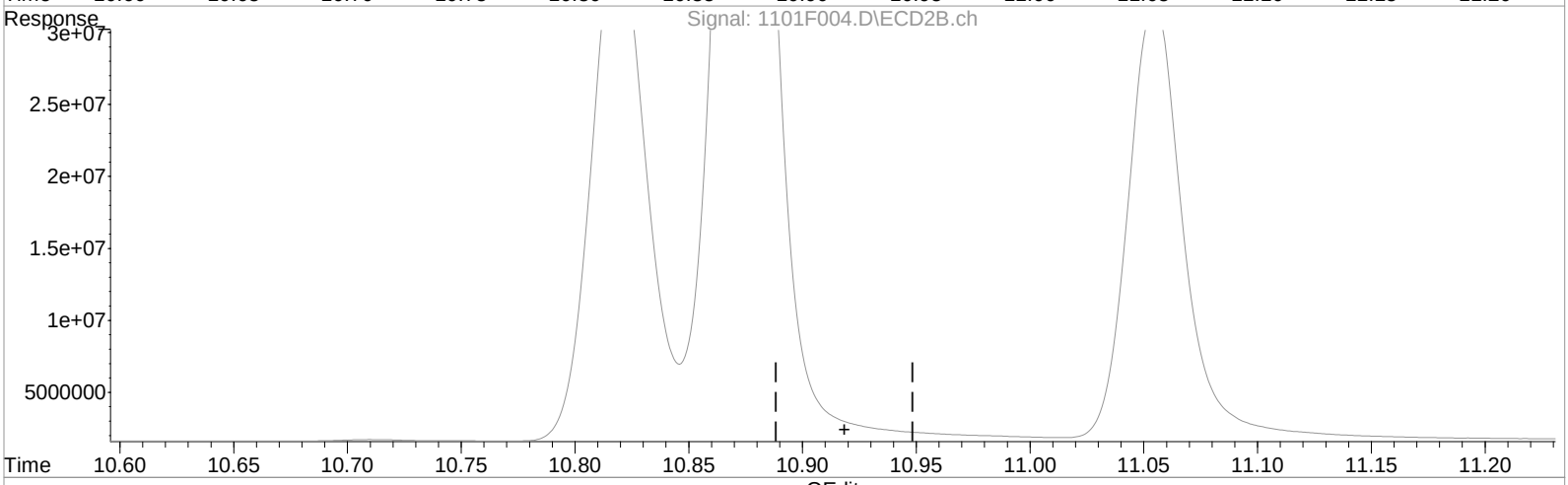
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(5) gamma-BHC (Lindane) (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(5) gamma-BHC (Lindane) #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

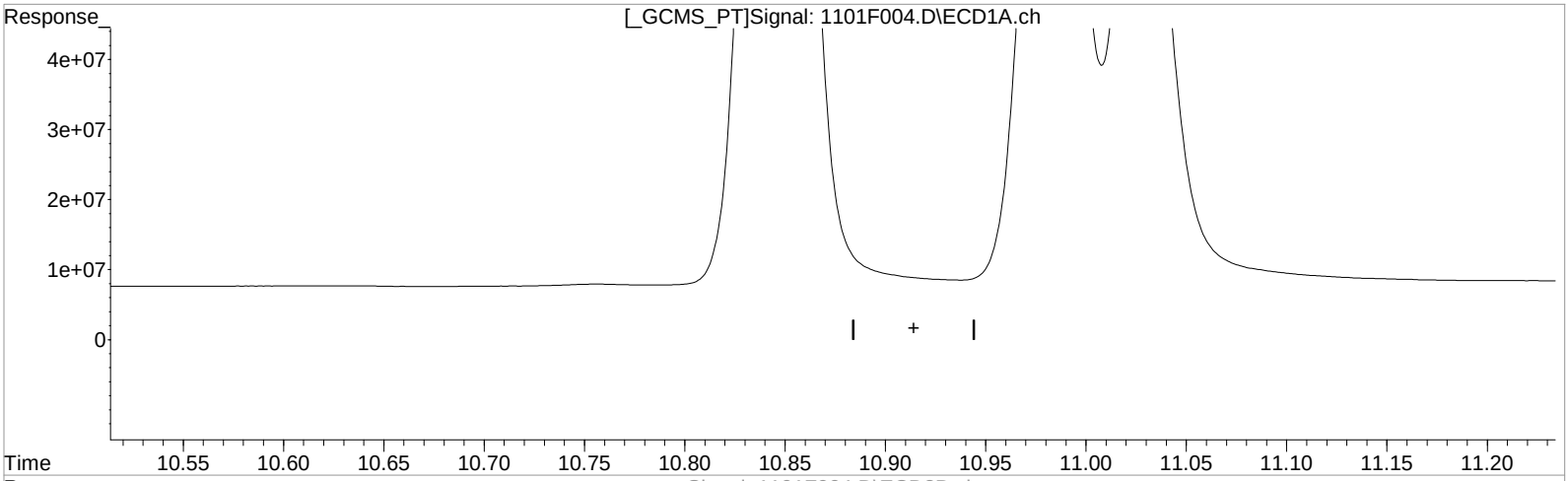
Quantitation Report (Qedit)

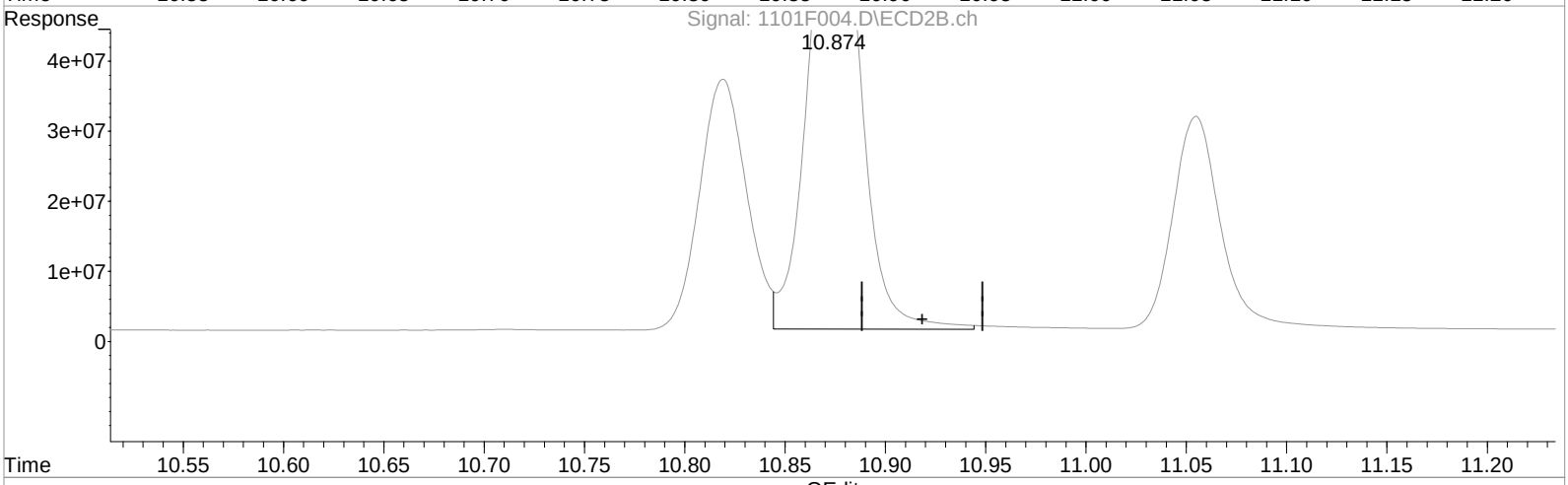
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(5) gamma-BHC (Lindane) (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(5) gamma-BHC (Lindane) #2 (m)

10.874min 88.961 ug/L m

response 129290232

(+) = Expected Retention Time

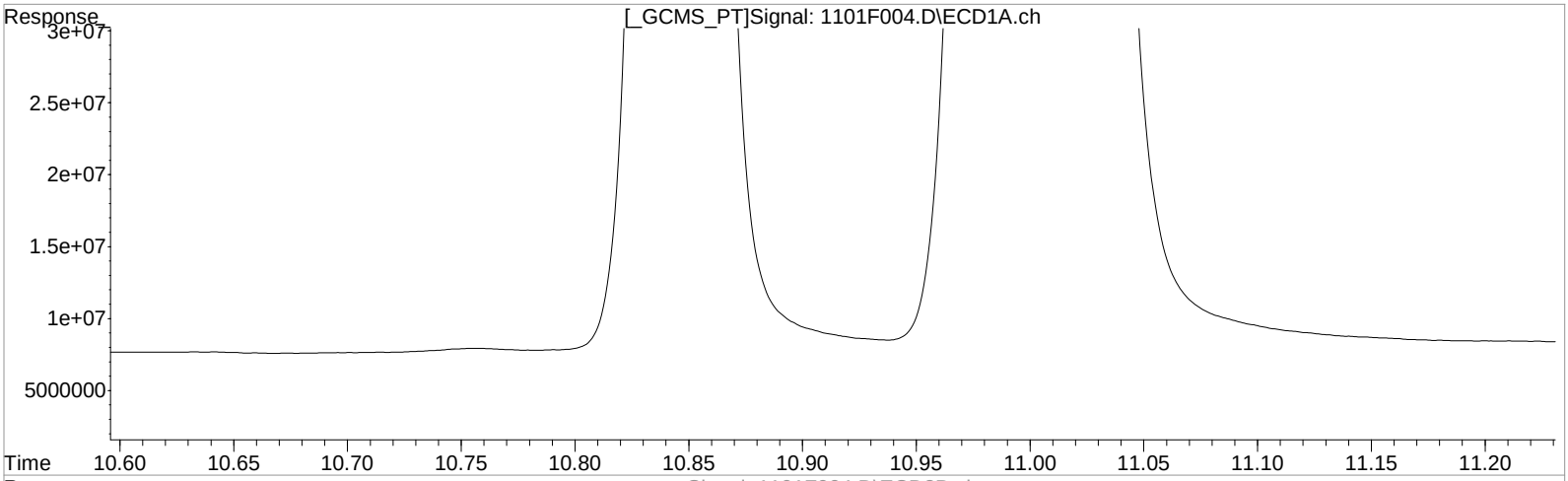
Quantitation Report (Qedit)

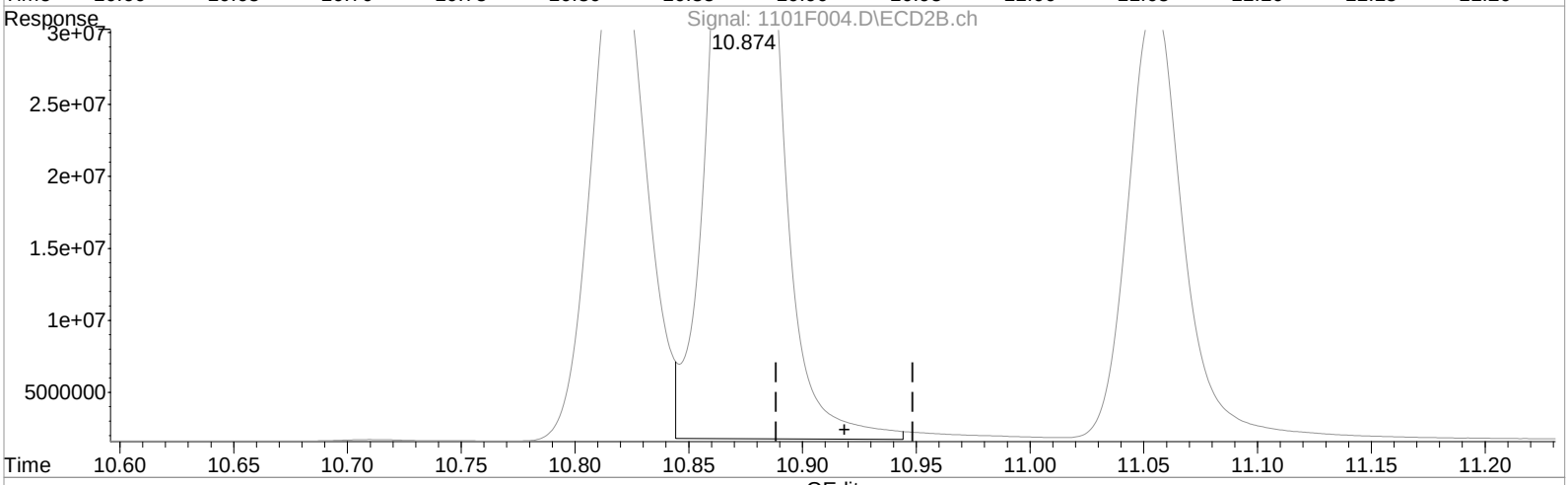
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(5) gamma-BHC (Lindane) (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(5) gamma-BHC (Lindane) #2 (m)

10.874min 88.961 ug/L m

response 129290232

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
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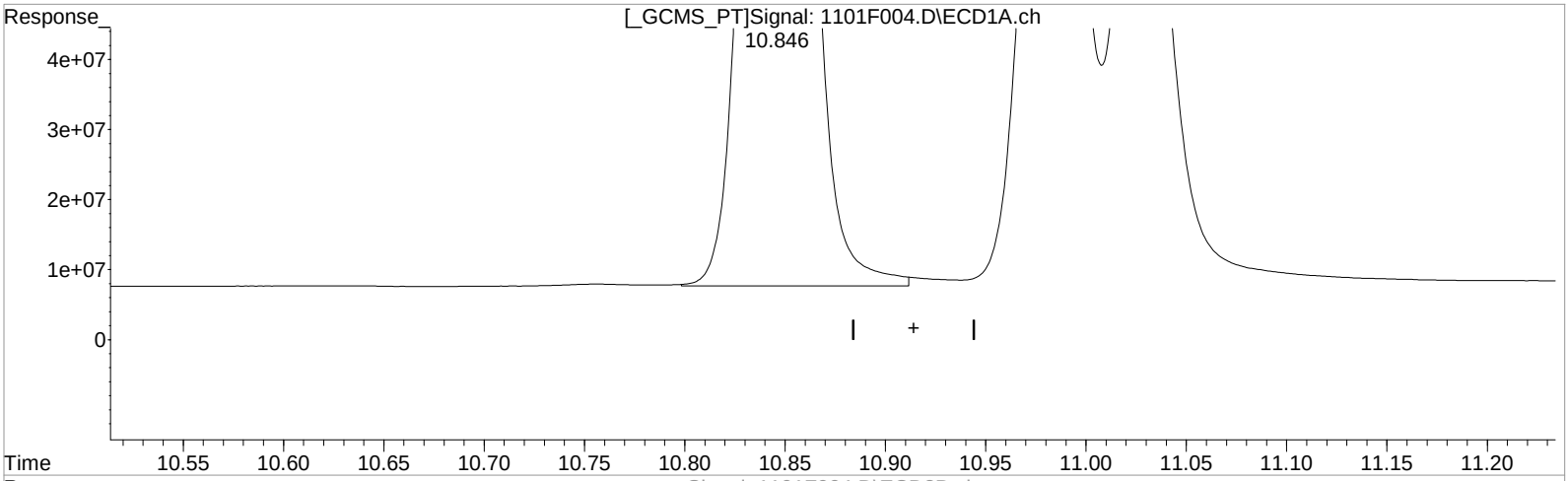
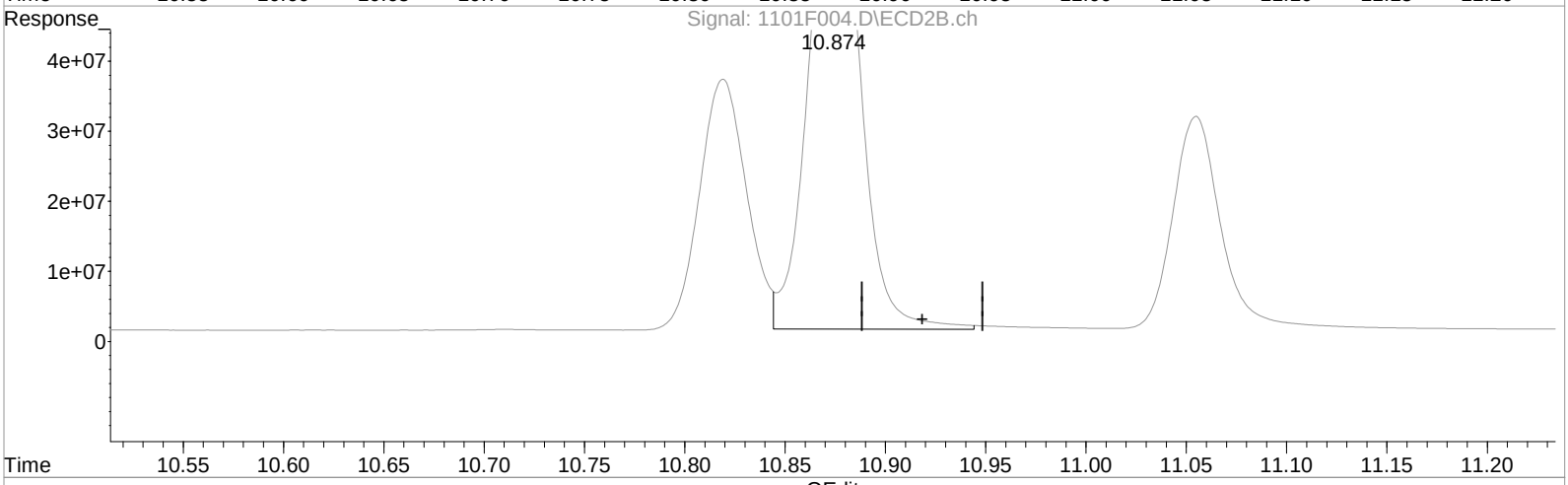
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(5) gamma-BHC (Lindane) (m)

10.846min 83.184 ug/L m

response 441299673

Manual Integration:

After

Missed Peak

11/01/23

(5) gamma-BHC (Lindane) #2 (m)

10.874min 88.961 ug/L m

response 129290232

(+) = Expected Retention Time

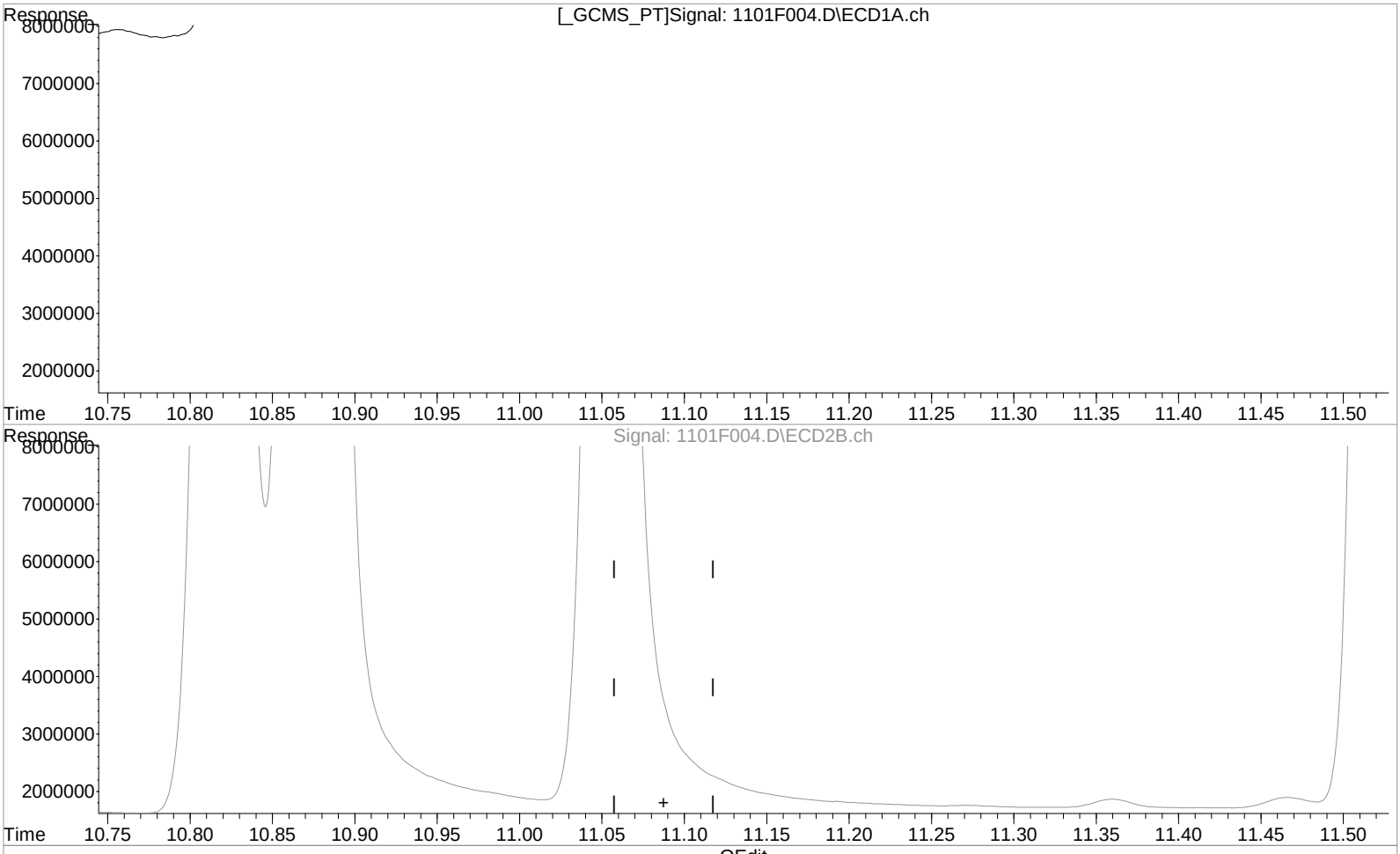
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(6) beta-BHC (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(6) beta-BHC #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Misc : Multiplr: 1.00
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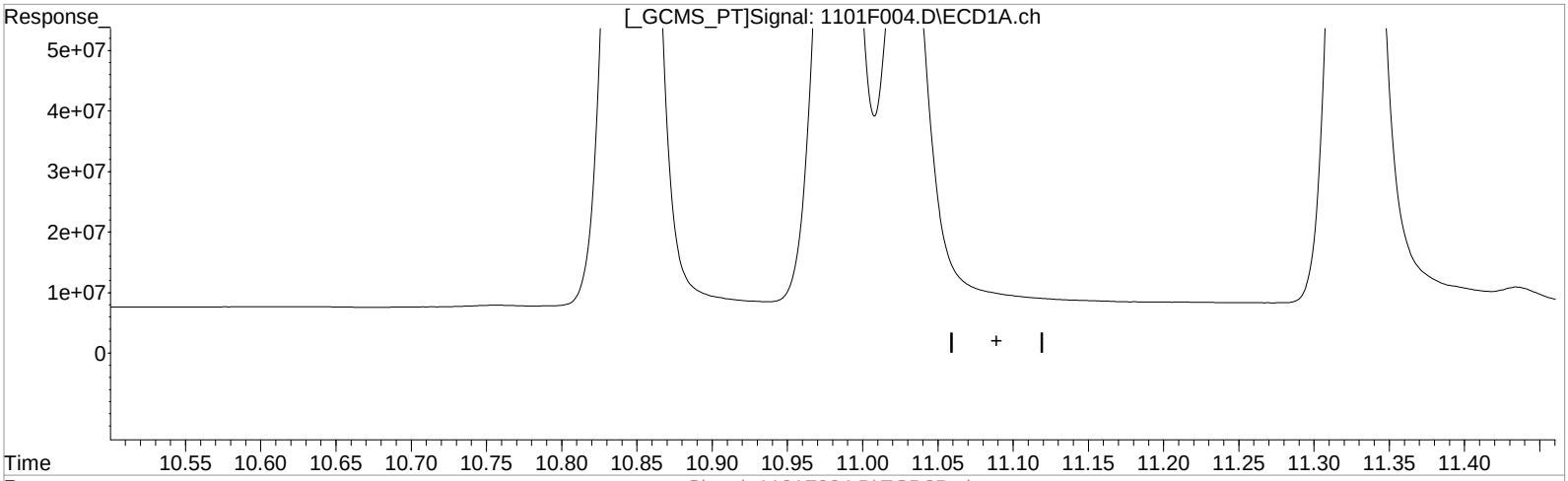
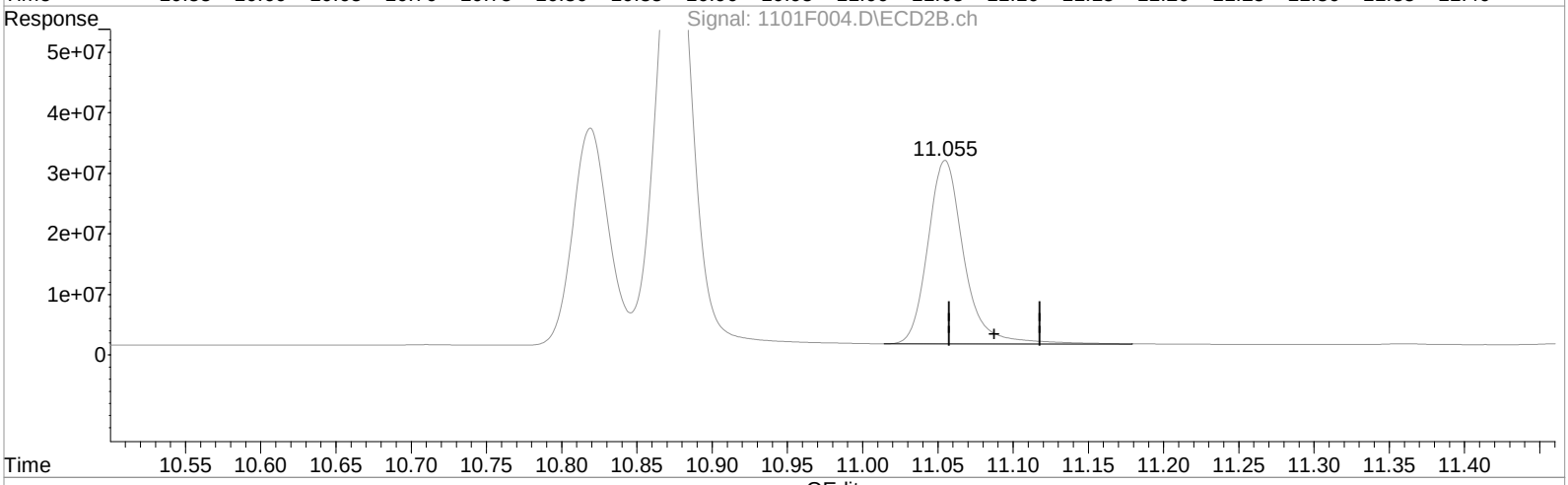
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(6) beta-BHC (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(6) beta-BHC #2 (m)

11.055min 87.796 ug/L m

response 50952324

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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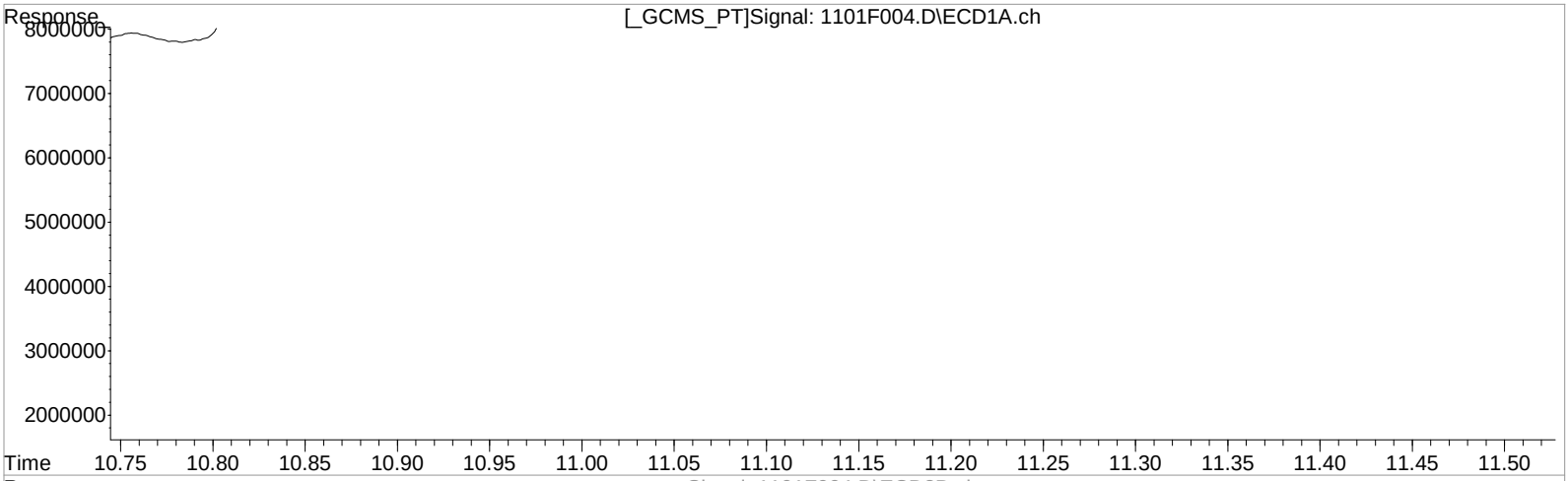
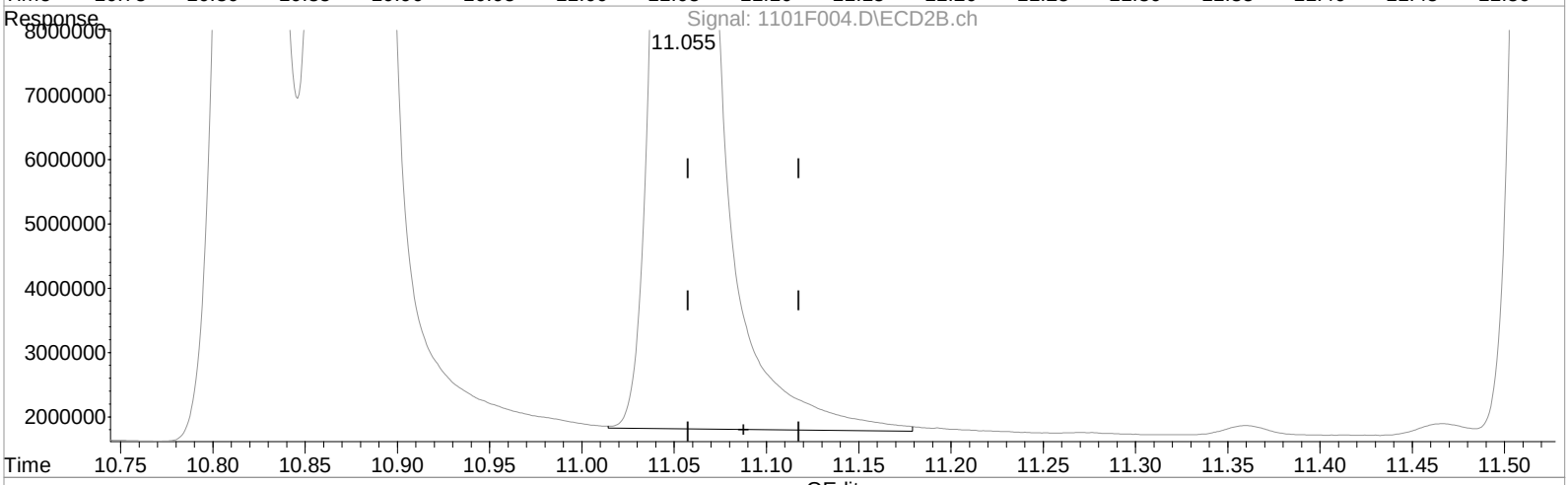
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(6) beta-BHC (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(6) beta-BHC #2 (m)

11.055min 87.796 ug/L m

response 50952324

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
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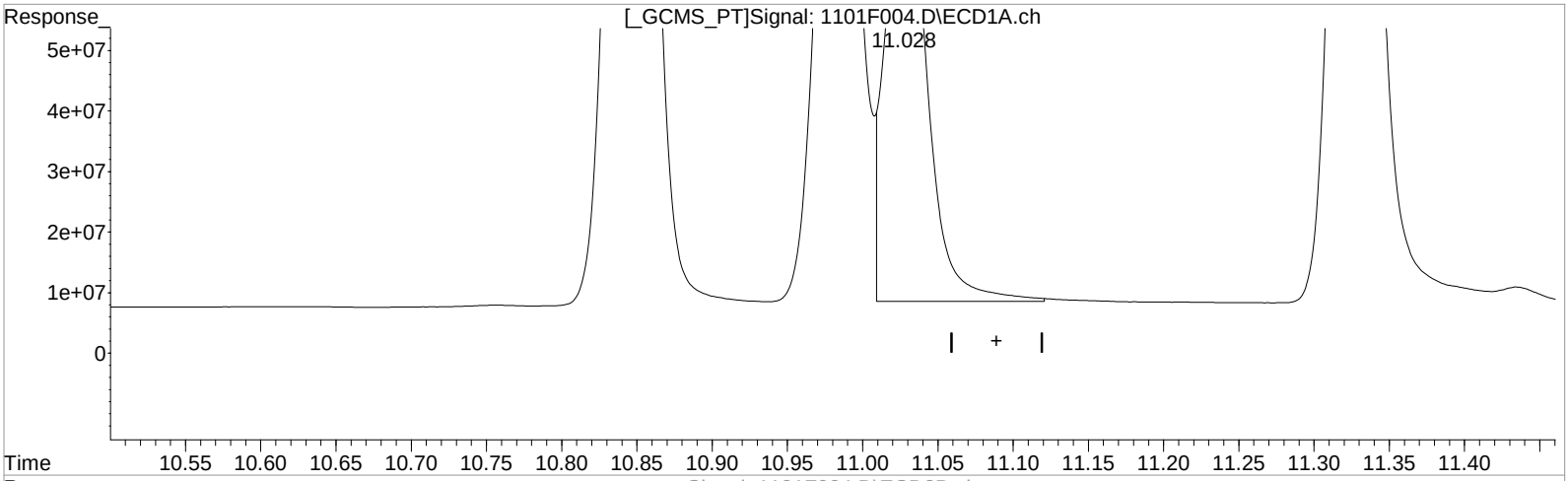
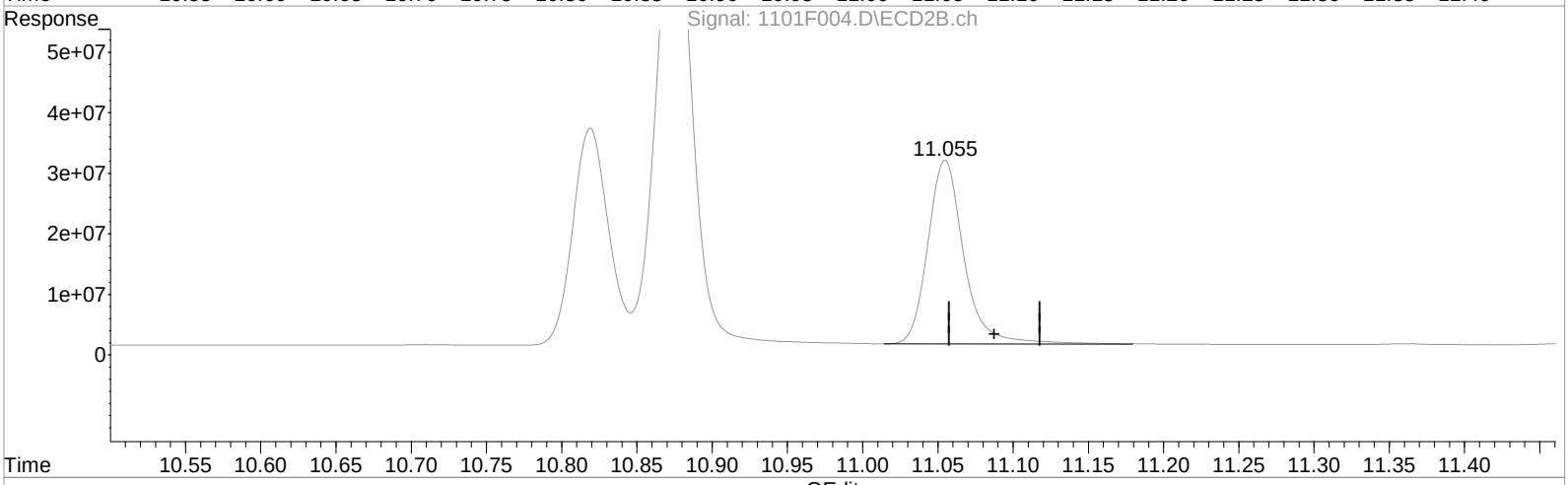
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(6) beta-BHC (m)

11.028min 88.357 ug/L m

response 142885800

Manual Integration:

After

Missed Peak

11/01/23

(6) beta-BHC #2 (m)

11.055min 87.796 ug/L m

response 50952324

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
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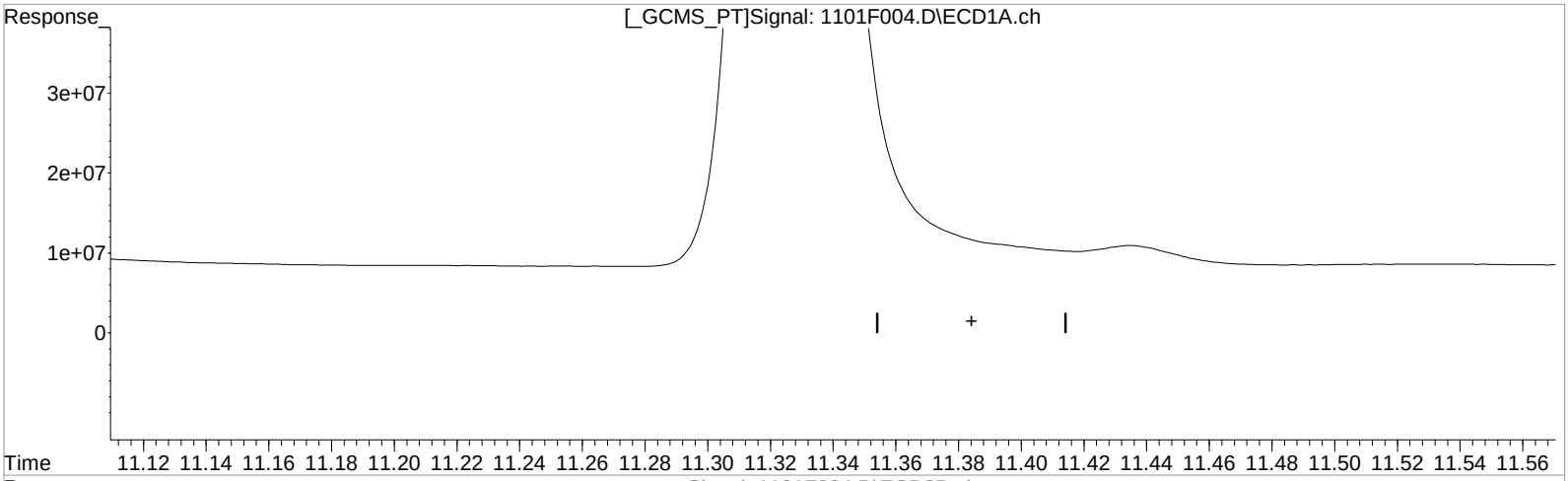
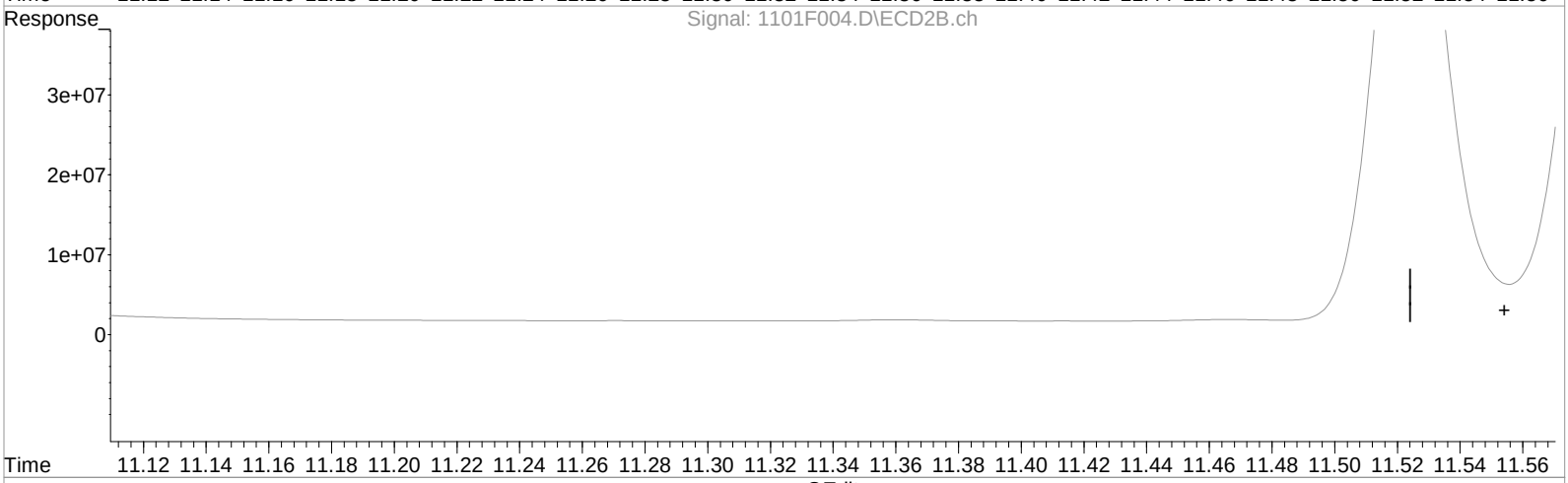
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(7) delta-BHC (m)

0.000min 0.000 ug/L

response 0

(7) delta-BHC #2 (m)

11.584min 73.296 ug/L

response 95751276

Manual Integration:

Before

11/01/23

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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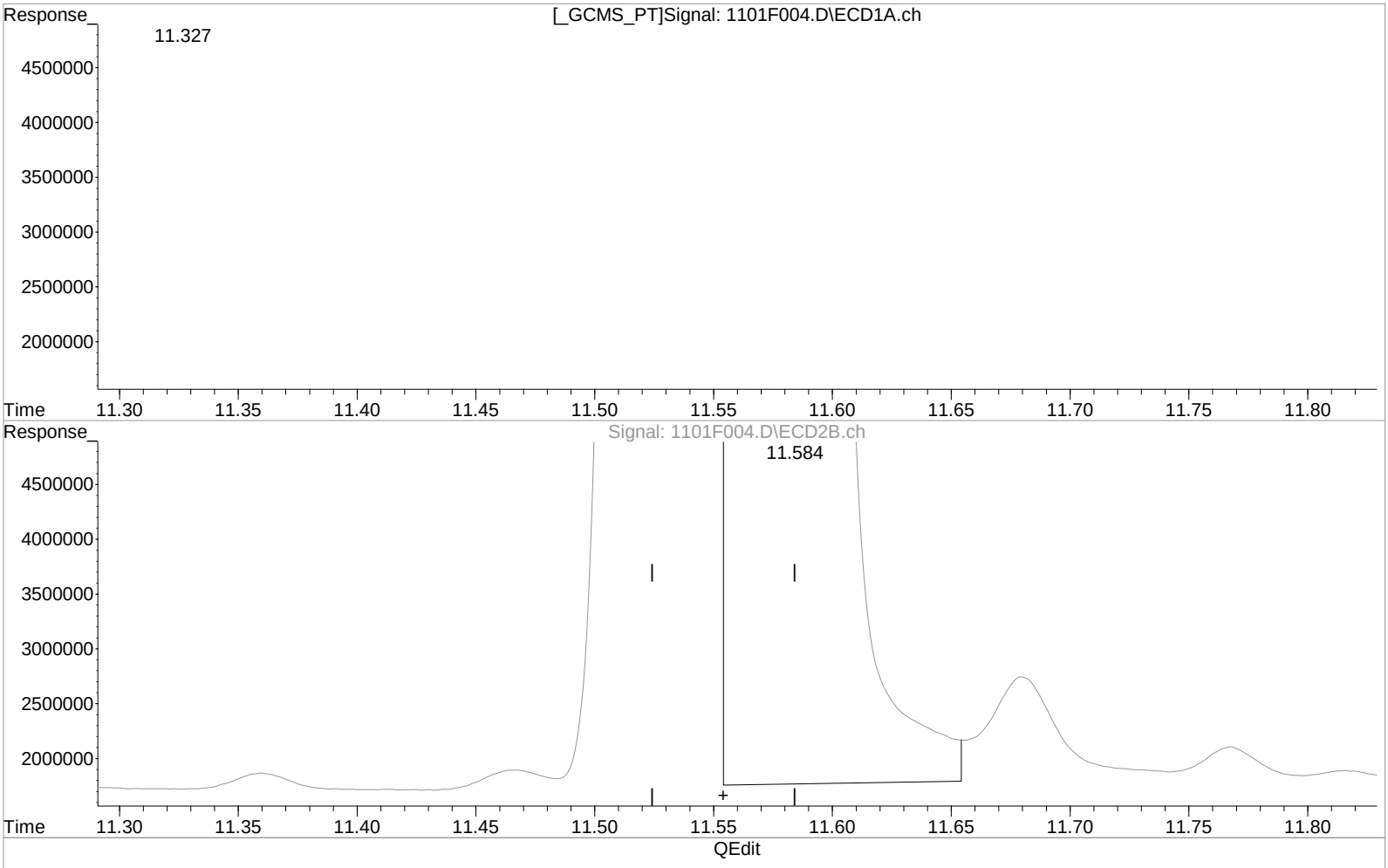
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(7) delta-BHC (m)

11.327min 83.098 ug/L m

response 421185288

(7) delta-BHC #2 (m)

11.584min 73.296 ug/L

response 95751276

Manual Integration:

Before

11/01/23

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
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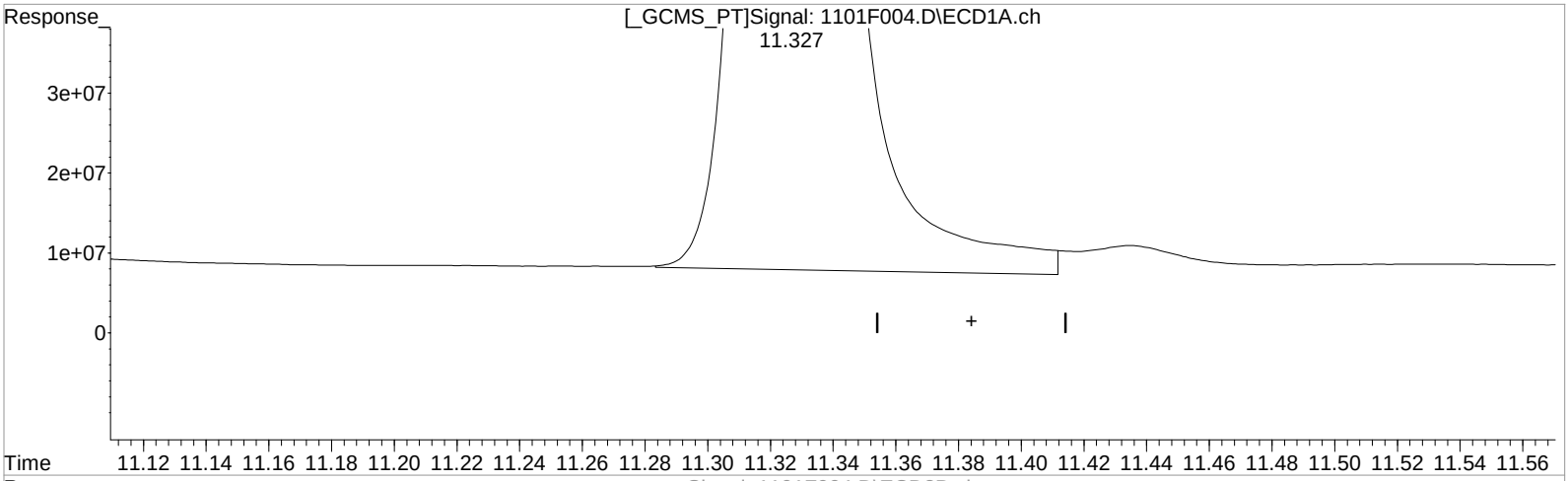
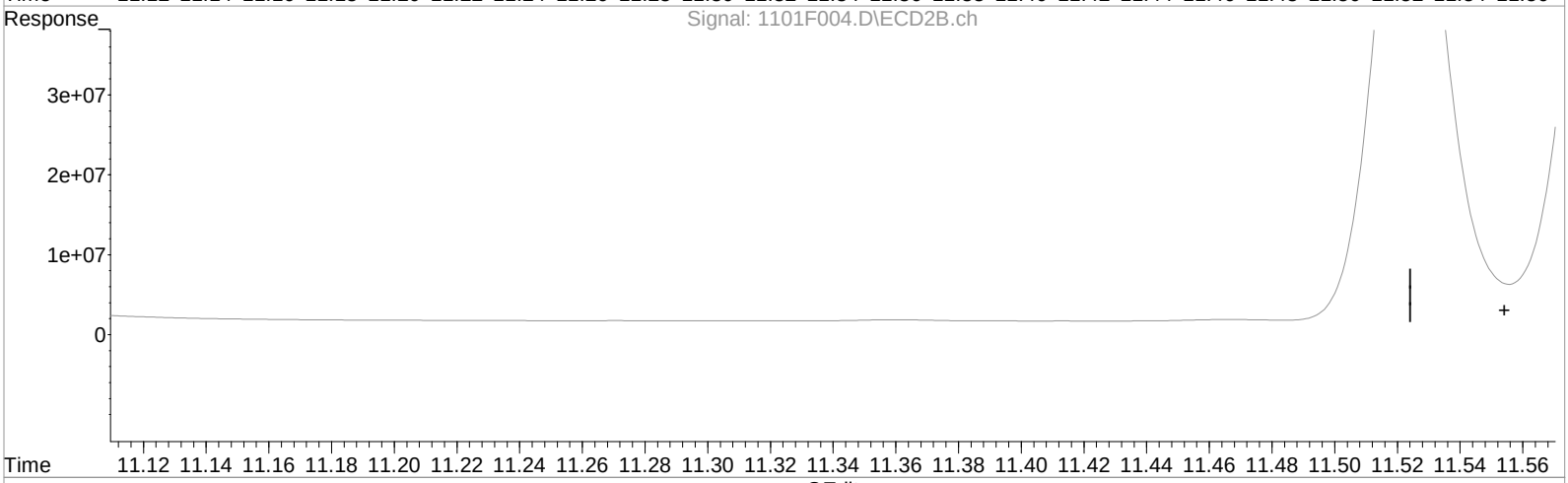
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(7) delta-BHC (m)

11.327min 83.098 ug/L m

response 421185288

(7) delta-BHC #2 (m)

11.584min 73.296 ug/L

response 95751276

Manual Integration:

After

Missed Peak

11/01/23

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
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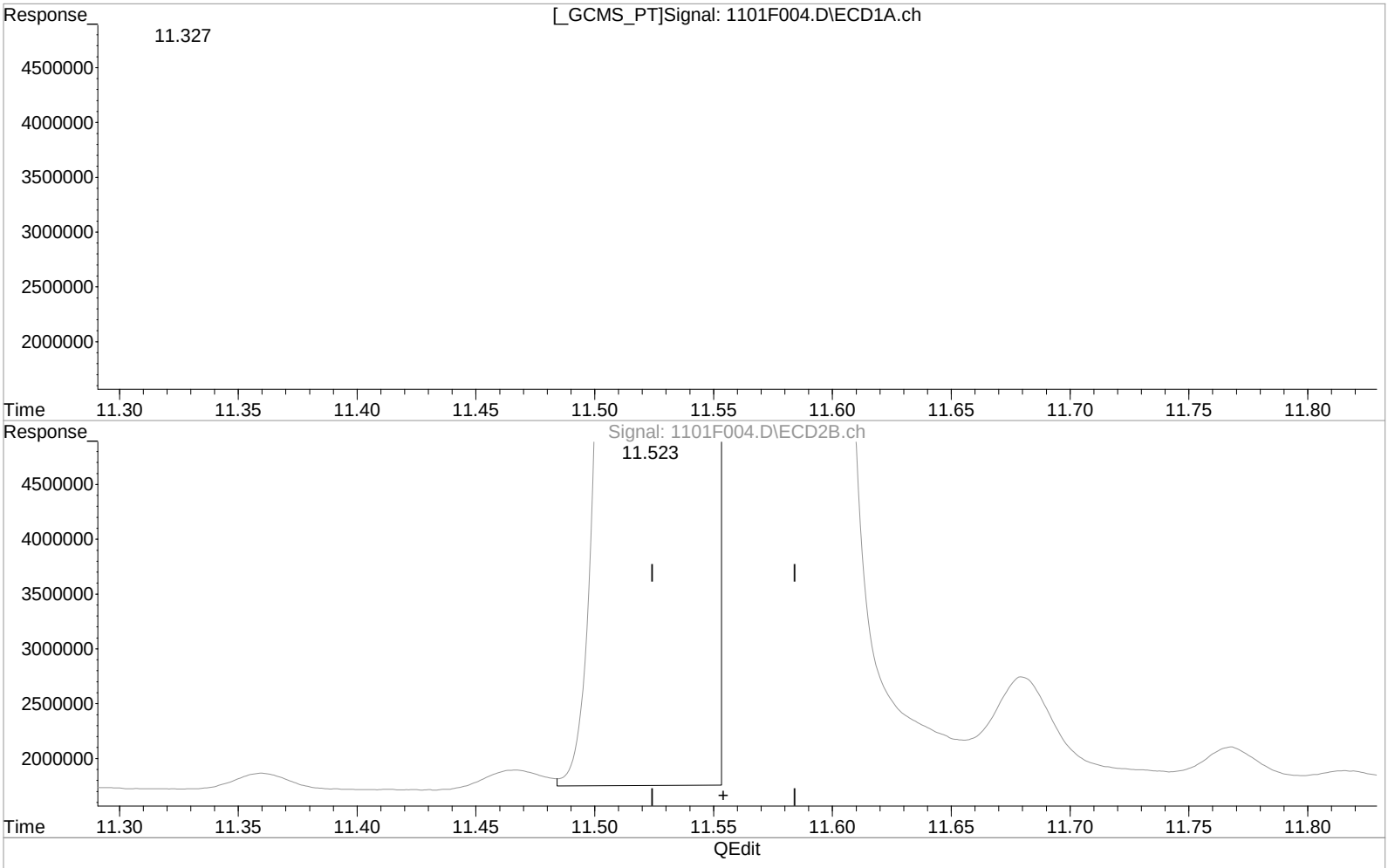
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(7) delta-BHC (m)

11.327min 83.098 ug/L m

response 421185288

Manual Integration:

After

Wrong Peak

11/01/23

(7) delta-BHC #2 (m)

11.523min 83.451 ug/L m

response 109017671

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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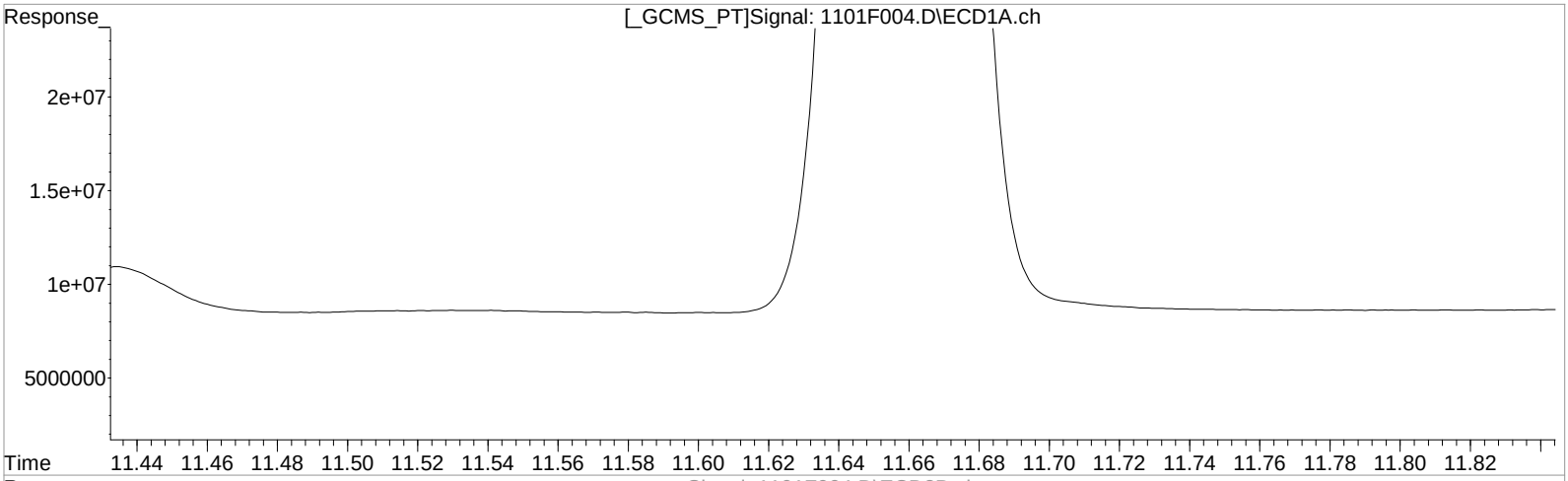
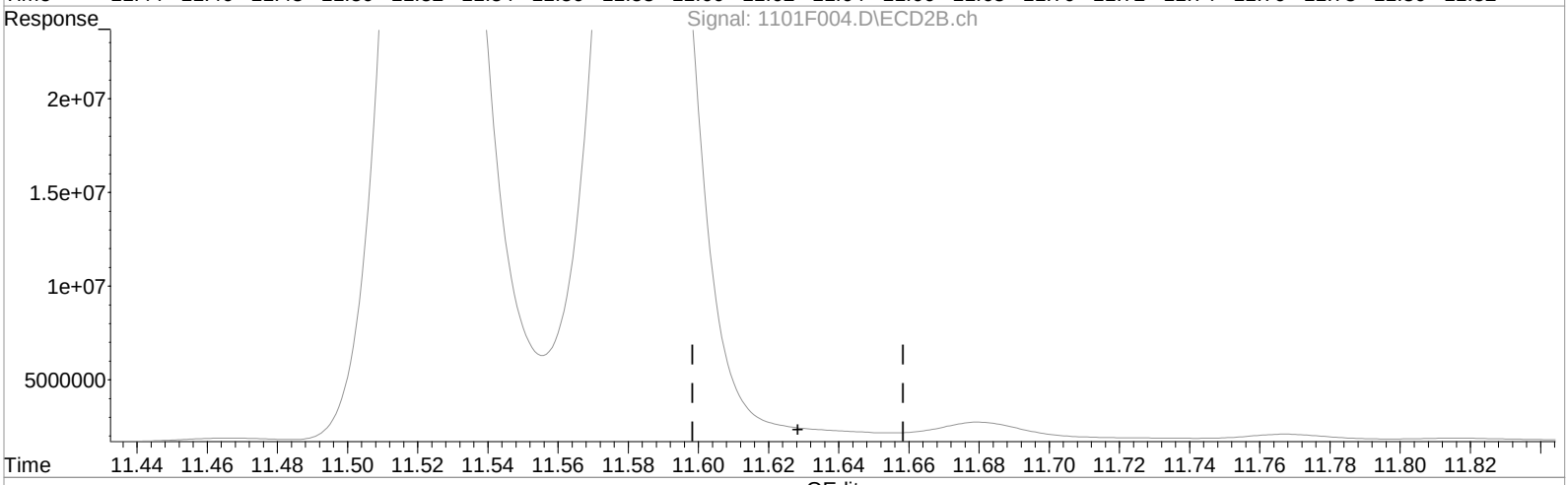
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(8) Heptachlor (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(8) Heptachlor #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
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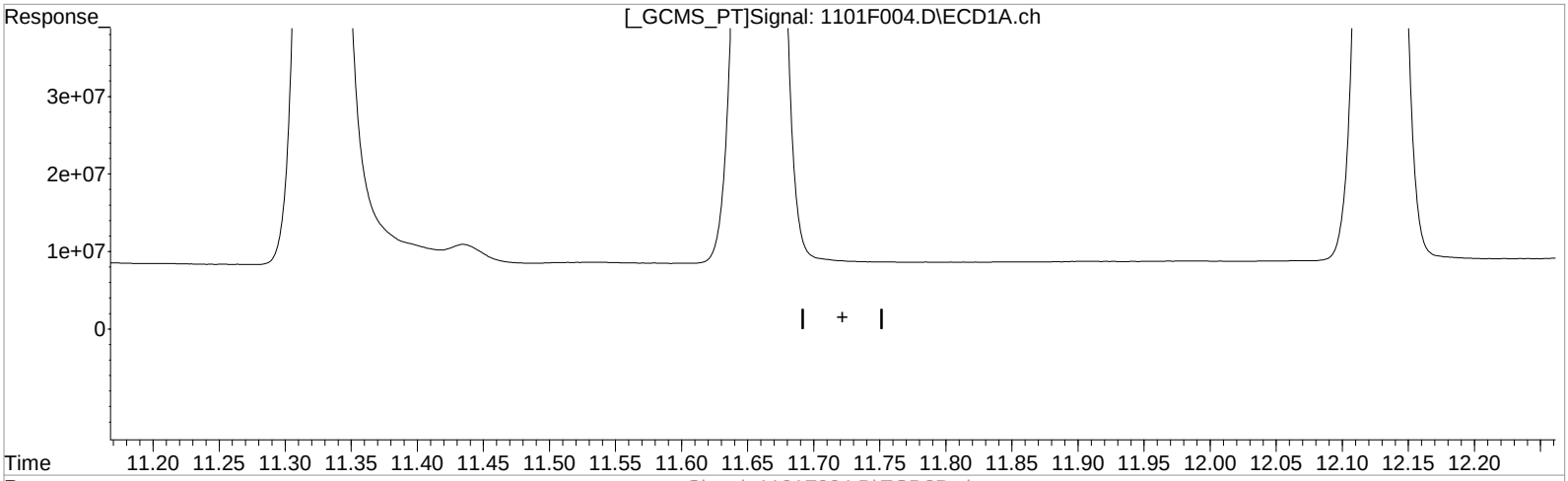
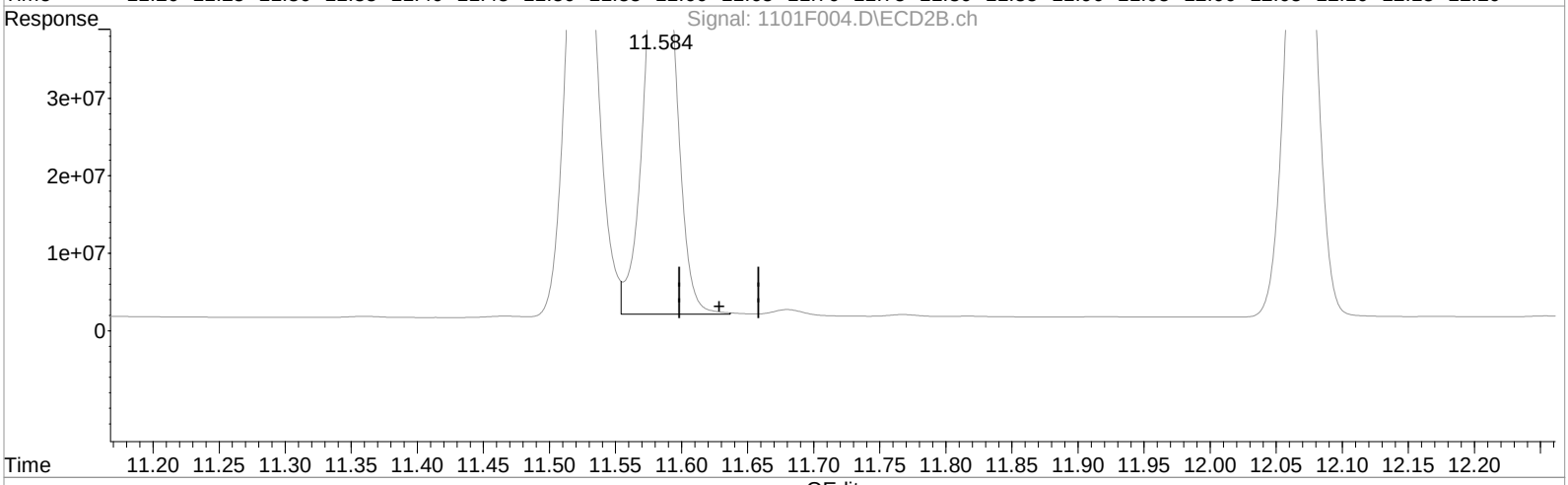
Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(8) Heptachlor (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(8) Heptachlor #2 (m)

11.584min 74.324 ug/L m

response 93420527

(+) = Expected Retention Time

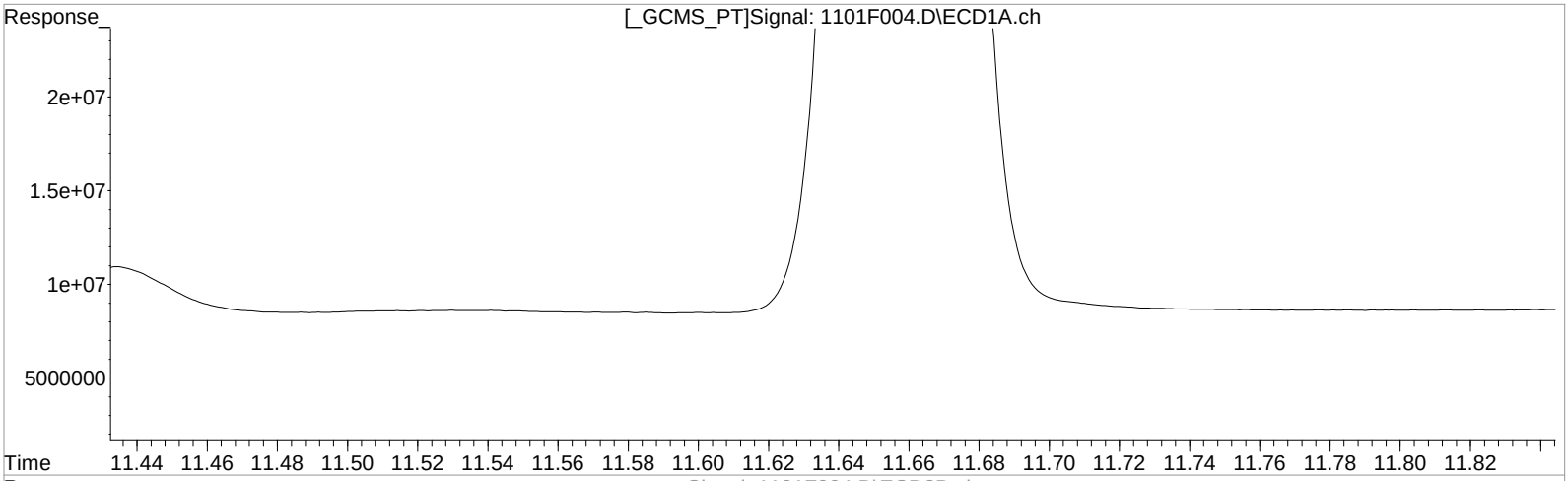
Quantitation Report (Qedit)

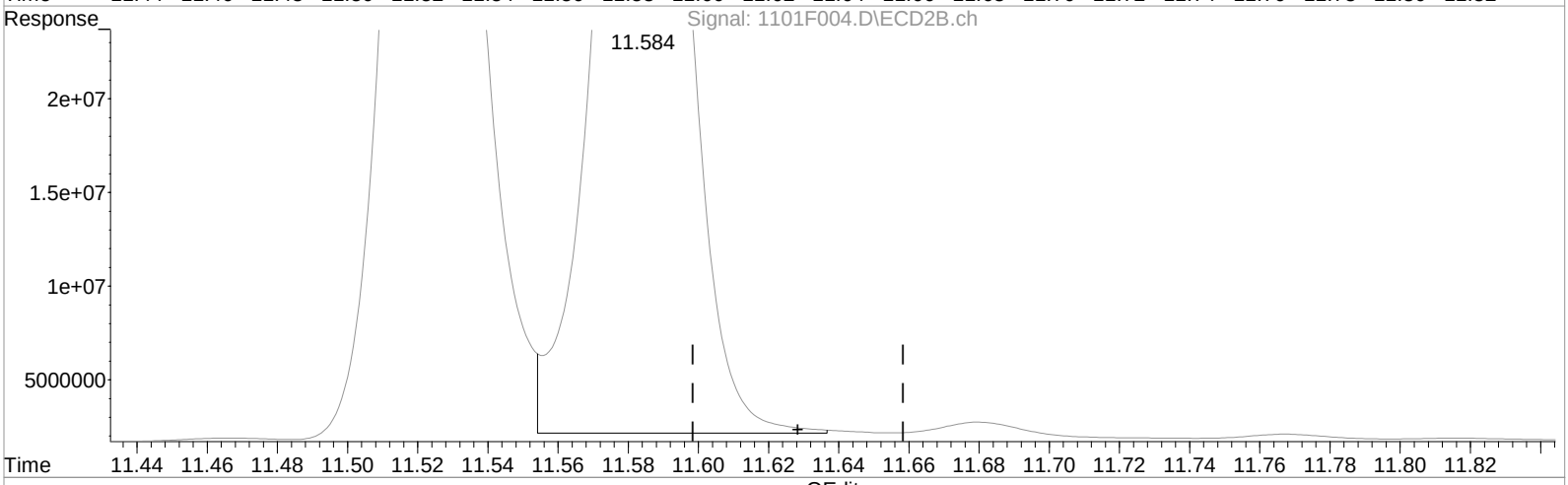
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(8) Heptachlor (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(8) Heptachlor #2 (m)

11.584min 74.324 ug/L m

response 93420527

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
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Misc : Multiplr: 1.00
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Quant Results File: GC33_091823_608.RES

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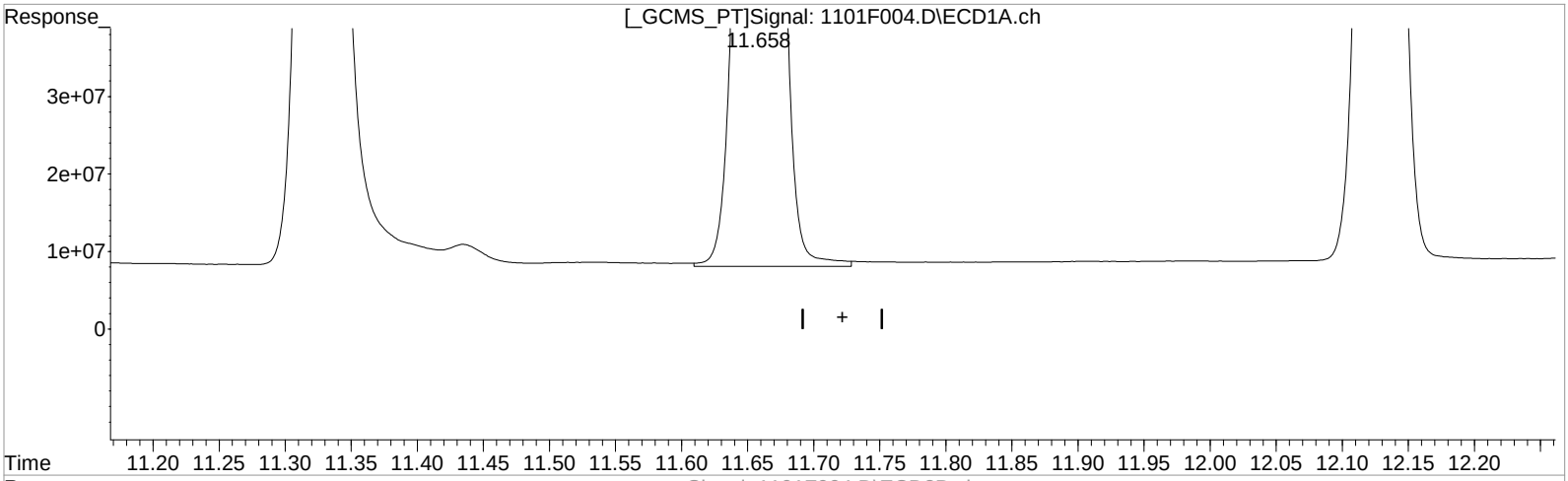
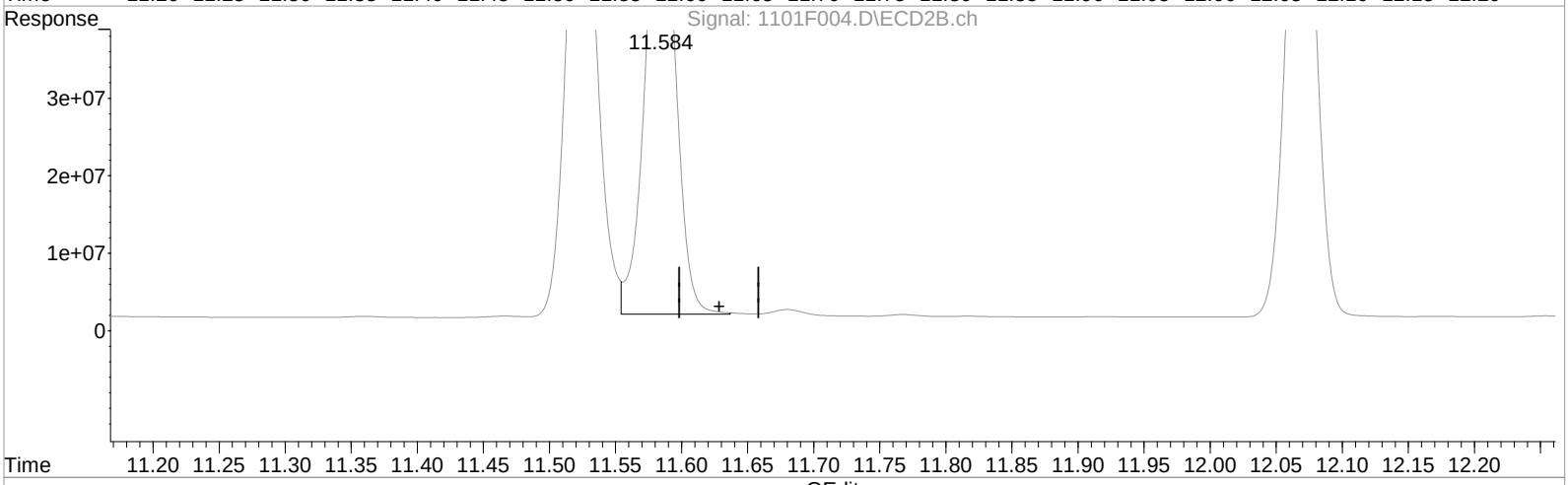
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(8) Heptachlor (m)

11.658min 91.617 ug/L m

response 399599506

Manual Integration:

After

Missed Peak

11/01/23

(8) Heptachlor #2 (m)

11.584min 74.324 ug/L m

response 93420527

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
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Misc : Multiplr: 1.00
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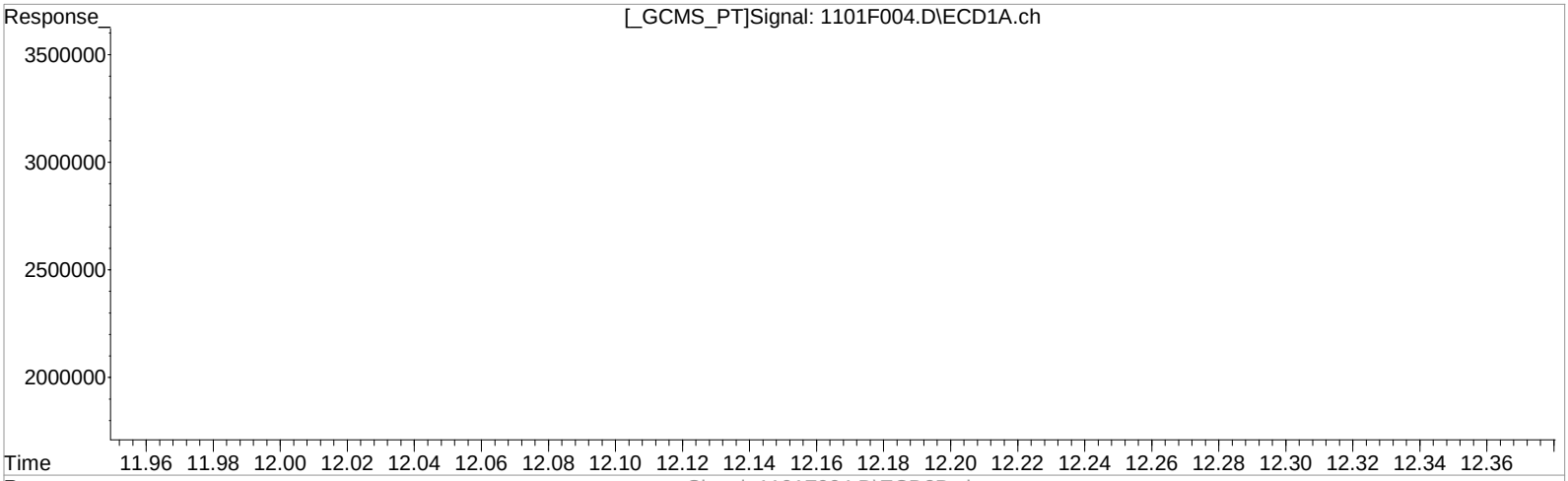
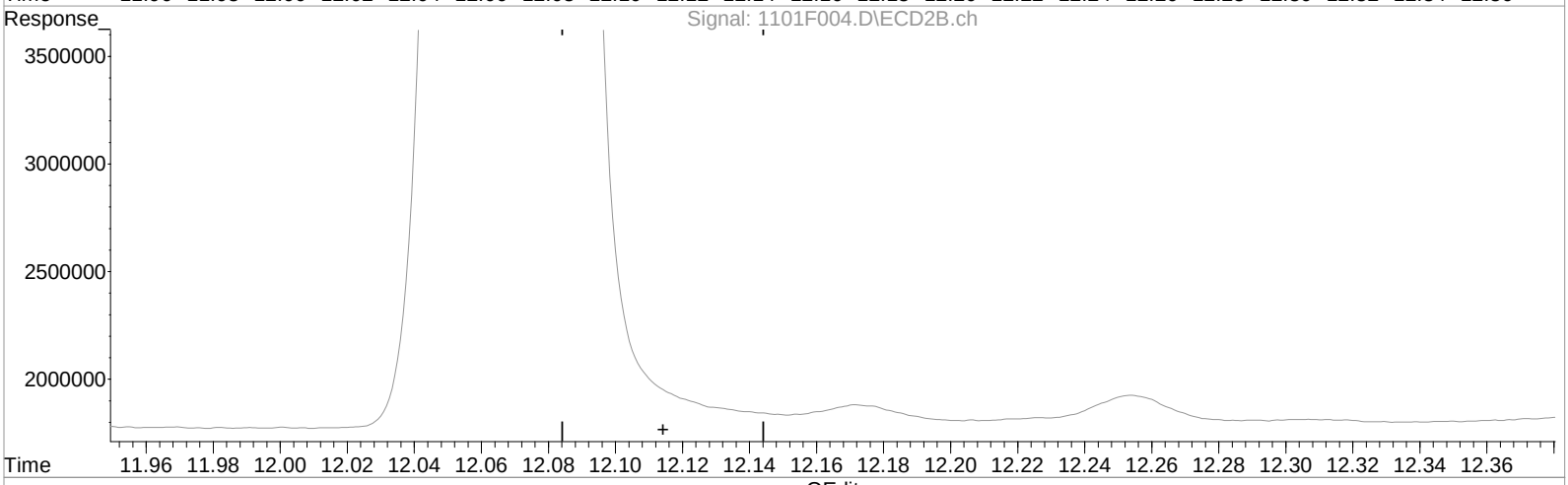
Integration File signal 2: AR1242.p
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(9) Aldrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(9) Aldrin #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:42 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
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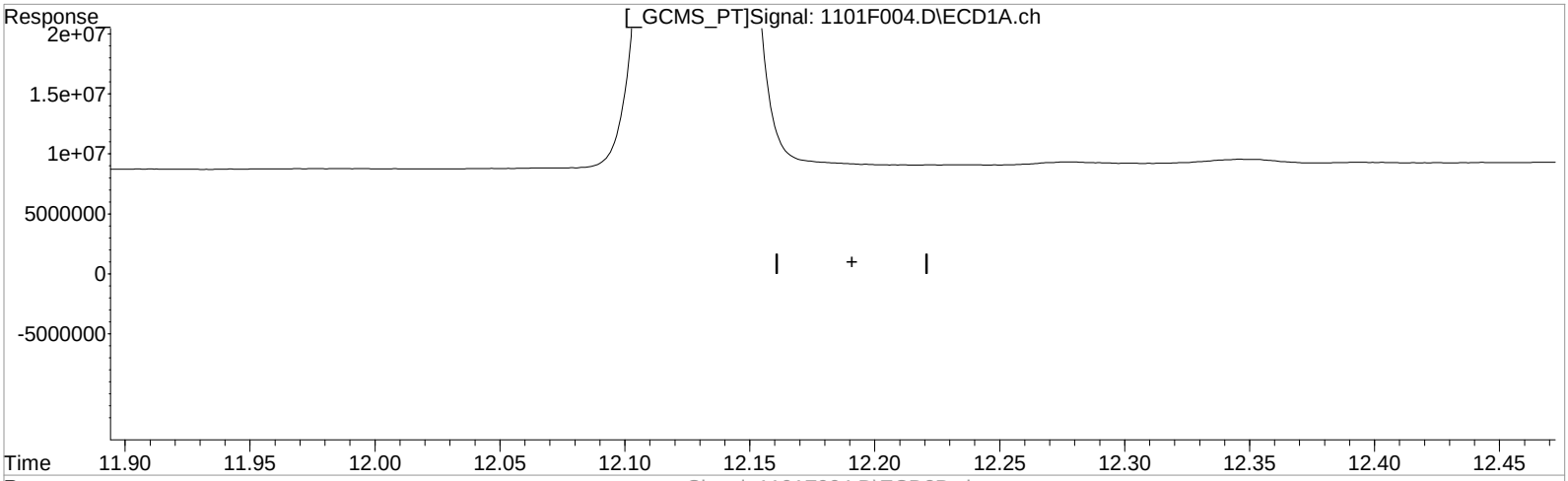
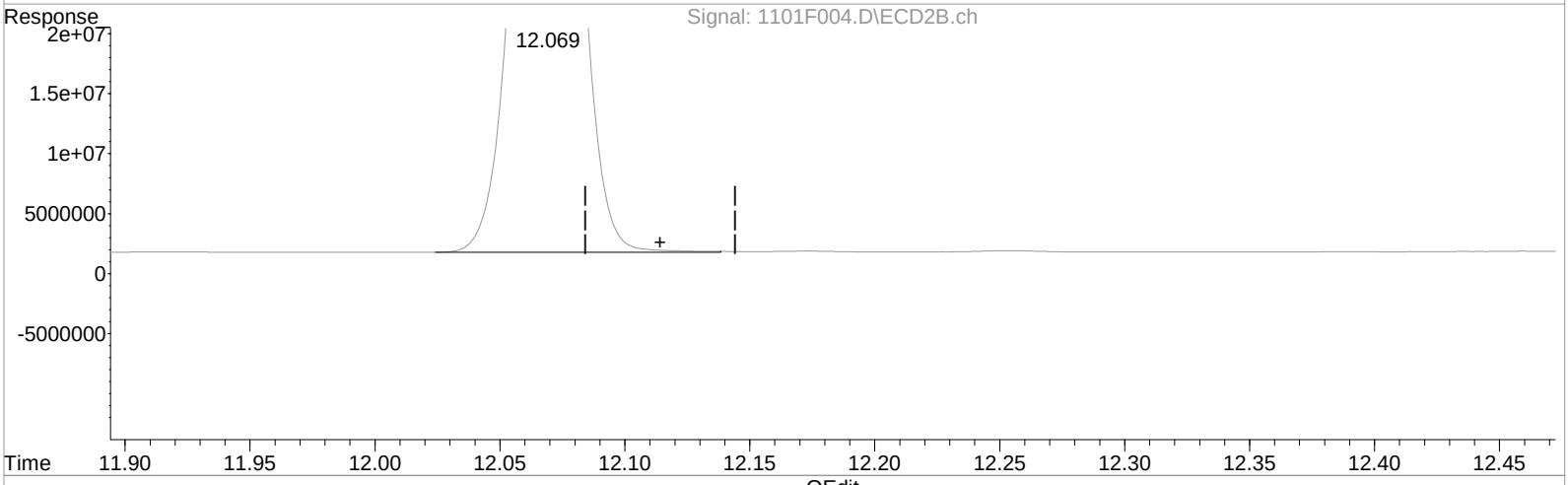
Quant Time: Nov 01 14:12:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(9) Aldrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(9) Aldrin #2 (m)

12.069min 80.657 ug/L m

response 111396280

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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DataAcq Meth:608.M

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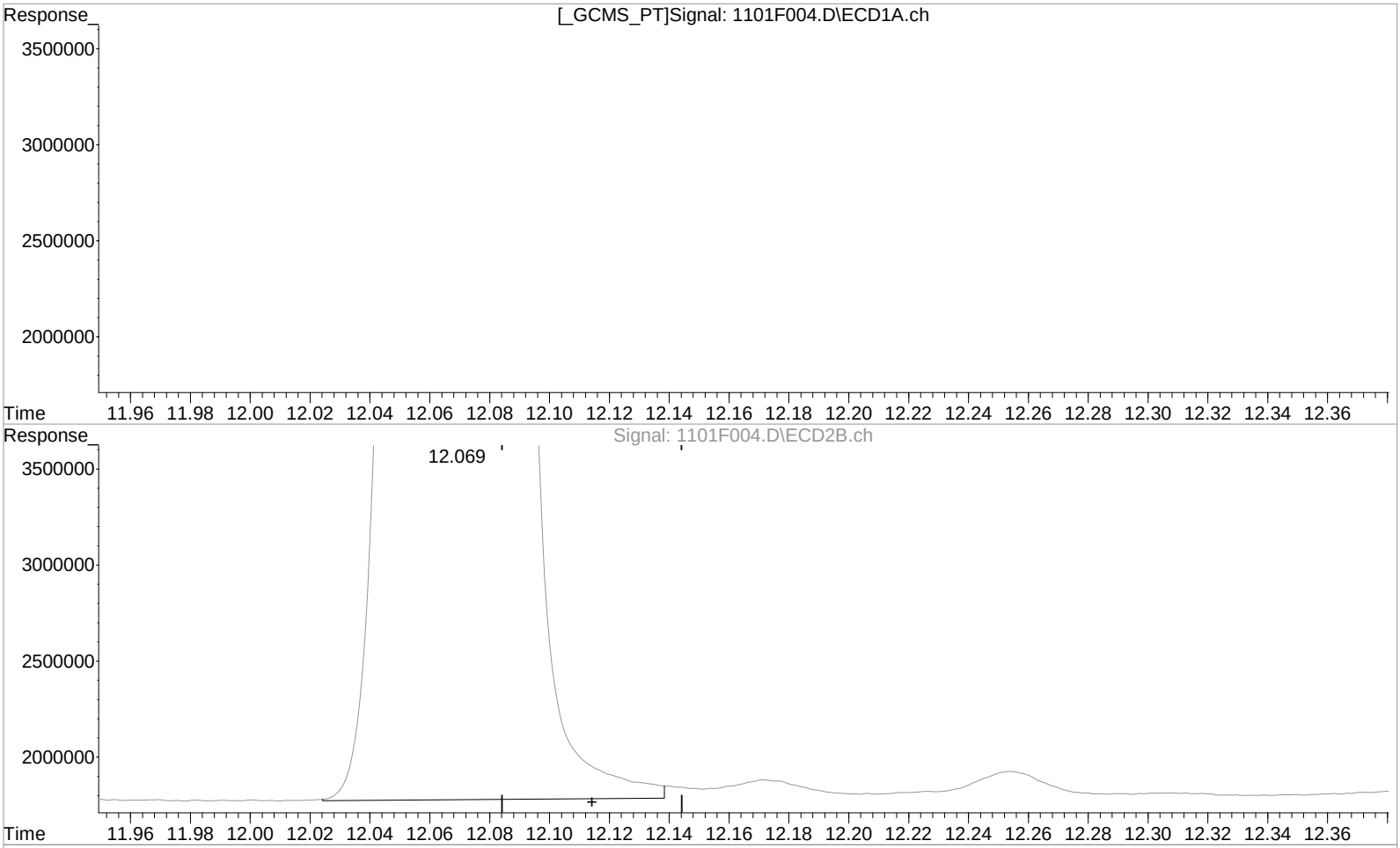

QEdit

(9) Aldrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(9) Aldrin #2 (m)

12.069min 80.657 ug/L m

response 111396280

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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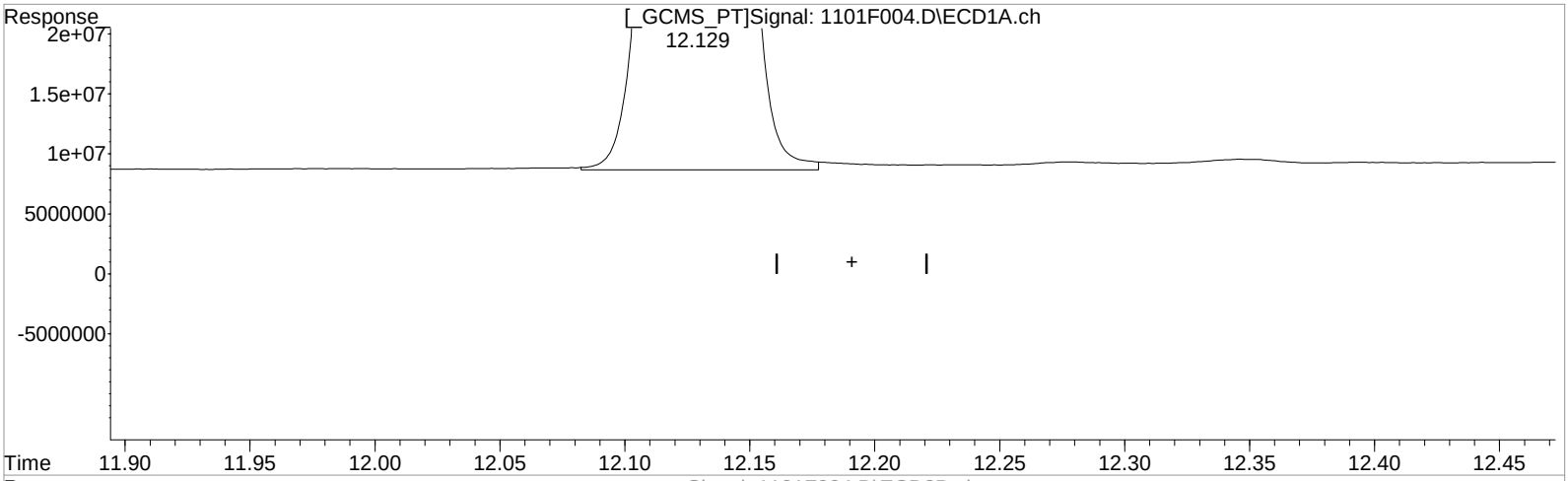

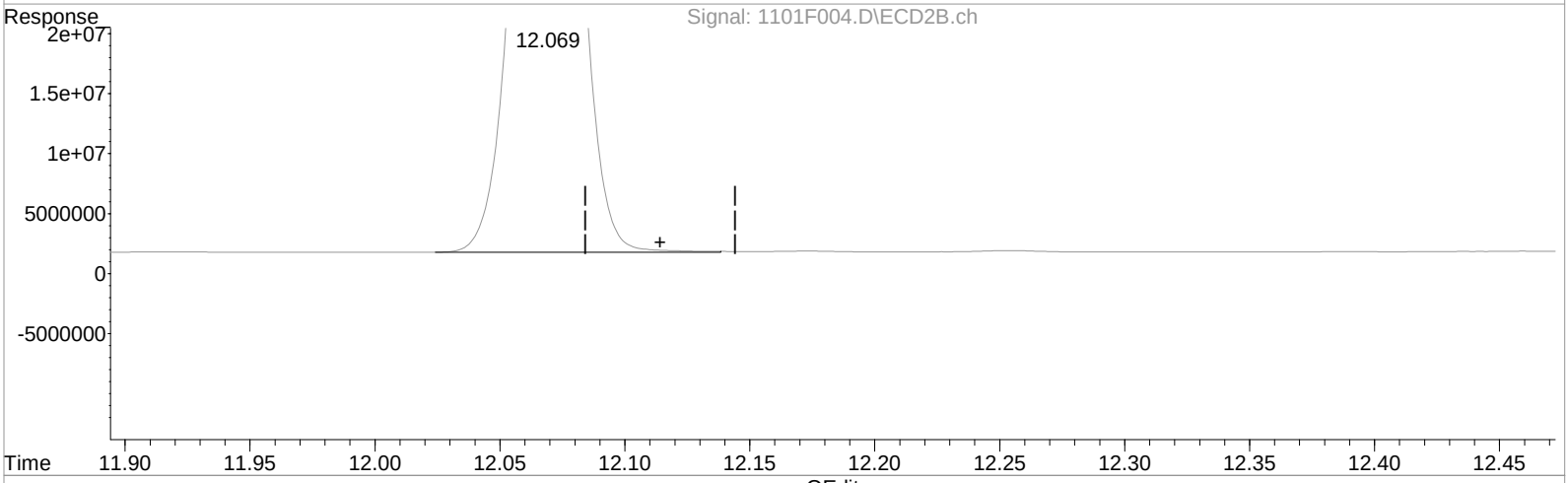

QEdit

(9) Aldrin (m)

12.129min 82.051 ug/L m

response 383836334

Manual Integration:

After

Missed Peak

11/01/23

(9) Aldrin #2 (m)

12.069min 80.657 ug/L m

response 111396280

(+) = Expected Retention Time

1st B B 11/03/23
2nd AA 11/06/23

Validation Report

Data File: J:\GC33\DATA\110123\1101F005.D\
Lab ID: KQ2318924-02.R01
RunType: CCV
Matrix: Water

Date Acquired: 11/1/23 14:15:00
Batch ID: 821707
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	247433839	48515187	194060748	CCVOK
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	65519706	100430009	401720034	CCVOK
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.98			SA
	Pentachloronitrobenzene {2}	10.98			
	Pentachloronitrobenzene {3}	10.98			
	Pentachloronitrobenzene{4}	10.98			
	Pentachloronitrobenzene{5}	10.98			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.82			
	Pentachloronitrobenzene {2}	10.82			
	Pentachloronitrobenzene {3}	10.82			
	Pentachloronitrobenzene{4}	10.82			
	Pentachloronitrobenzene{5}	10.82			

Primary Review: _____

Printed: 11/3/23 14:29
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Secondary Review: _____

1st B B 11/03/23
2nd AA 11/06/23

Quantitation Report

Data File:	J:\GC33\DATA\110123\1101F005.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 14:15:00	**Vial:**	15
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02.R01	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821707	**Prep Lot:**		**Report Group:**	KQ2318924
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.98	c	10.82	c	247433839*	65519706	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {2}	10.98	c	10.82	c	247433839	65519706*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.98	c	10.82	c	247433839	65519706	50.000	50.000		
Pentachloronitrobenzene {4}	10.98	c	10.82	c	247433839	65519706	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.98	c	10.82	c	247433839	65519706	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Aroclor 1016					247.760	299.390	248	299	N
Aroclor 1221					0.000	0.000	0	0	N
Aroclor 1232					0.000	0.000	0	0	N
Aroclor 1242					0.000	0.000	0	0	N
Aroclor 1248					0.000	0.000	0	0	N
Aroclor 1254					0.000	0.000	0	0	N
Aroclor 1260					198.600	261.430	199	261	N
Aroclor 1016 {1}	11.26	11.06	4634532	4141611	214.763	294.973	215	295	
Aroclor 1016 {2}	11.34	11.11	12807099	5919899	220.275	318.071	220	318	
Aroclor 1016 {3}	11.38	11.29	24864124	2362127	280.836	254.086	281	254	
Aroclor 1016 {4}	11.58	11.34	16836221	1956236	275.165	330.446	275	330	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/3/23 14:29
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1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F005.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 14:15:00	**Vial:**	15
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02.R01	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	15.02	15.15	16342844	11874351	204.712	270.302	205	270	
Aroclor 1260 {2}	15.08	15.25	6964200	5828783	162.535	228.955	163	229	
Aroclor 1260 {3}	15.14	15.32	4818931	3962385	194.731	279.947	195	280	
Aroclor 1260 {4}	15.34	15.37	4933792	2568747	232.405	266.529	232	267	
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
beta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
delta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Chlordane					0.000	0.000	0	0	N
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
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?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st B B 11/03/23
2nd A A 11/06/23

Data File:	J:\GC33\DATA\110123\1101F005.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 14:15:00	**Vial:**	15
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02.R01	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Toxaphene					0.000	0.000	0	0	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F005.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 02:15 pm Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:25:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.985	10.819	247.4E6	65519706	50.000	50.000	
26)	I Pentachlo...	10.985	10.819	247.4E6	65519706	50.000	50.000	
34)	I Pentachlo...	10.985	10.819	247.4E6	65519706	50.000	50.000	
51)	I Pentachlo...	10.985	10.819	247.4E6	65519706	50.000	50.000	
60)	I Pentachlo...	10.985	10.819	247.4E6	65519706	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
35)	L3 Aroclor 1016	11.258	11.061	4634532	4141611	214.763	294.973	#
36)	L3 Aroclor 1...	11.342	11.113	12807099	5919899	220.275	318.071	#
37)	L3 Aroclor 1...	11.375	11.294	24864124	2362127	280.836	254.086	
38)	L3 Aroclor 1...	11.583	11.335	16836221	1956236	275.165	330.446	
39)	L4 Aroclor 1260	15.023	15.153	16342844	11874351	204.712	270.302	#
40)	L4 Aroclor 1...	15.080	15.248	6964200	5828783	162.535	228.955	#
41)	L4 Aroclor 1...	15.144	15.323	4818931	3962385	194.731	279.947	#
42)	L4 Aroclor 1...	15.339	15.368	4933792	2568747	232.405	266.529	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

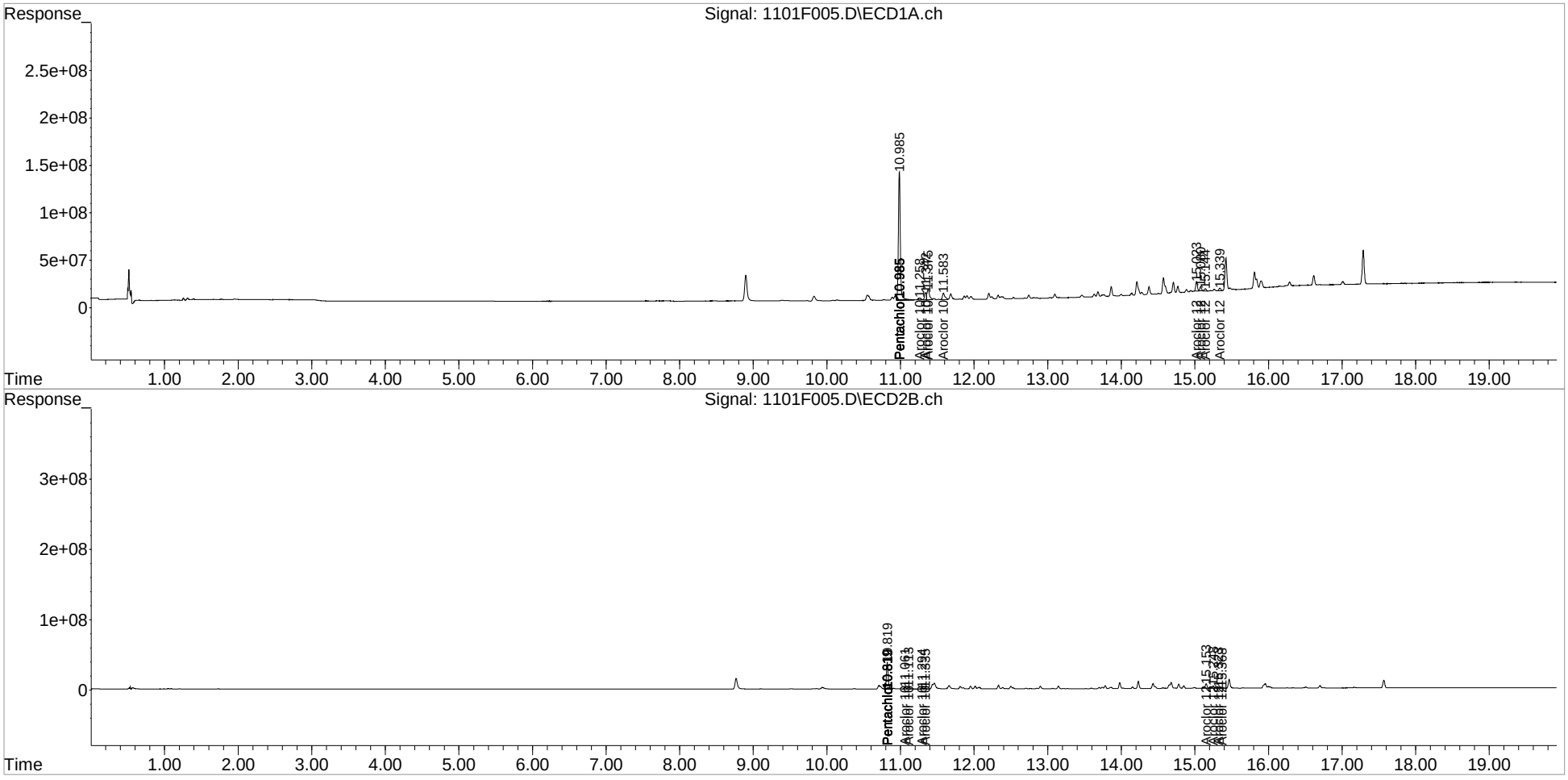
1st BB 11/03/23
2nd AA 11/06/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110123\1101F005.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 02:15 pm Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:25:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Validation Report

1st B B 11/03/23
2nd A A 11/06/23

Data File: J:\GC33\DATA\110123\1101F007.D\
Lab ID: KQ2318924-02.R03
RunType: CCV
Matrix: Water

Date Acquired: 11/1/23 15:19:00
Batch ID: 821707
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	255930925	48515187	194060748	CCVOK
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	67282518	100430009	401720034	CCVOK
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.98			SA
	Pentachloronitrobenzene {2}	10.98			
	Pentachloronitrobenzene {3}	10.98			
	Pentachloronitrobenzene{4}	10.98			
	Pentachloronitrobenzene{5}	10.98			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.82			
	Pentachloronitrobenzene {2}	10.82			
	Pentachloronitrobenzene {3}	10.82			
	Pentachloronitrobenzene{4}	10.82			
	Pentachloronitrobenzene{5}	10.82			

Primary Review: _____

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Secondary Review: _____

1st B B 11/03/23
2nd AA 11/06/23

Quantitation Report

Data File:	J:\GC33\DATA\110123\1101F007.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 15:19:00	**Vial:**	17
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02.R03	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821707	**Prep Lot:**		**Report Group:**	KQ2318924
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.98	c	10.82	c	255930925*	67282518	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {2}	10.98	c	10.82	c	255930925	67282518*	50.000	50.000		
Pentachloronitrobenzene {3}	10.98	c	10.82	c	255930925	67282518	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.98	c	10.82	c	255930925	67282518	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.98	c	10.82	c	255930925	67282518	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Aroclor 1016					0.000	0.000	0	0	N
Aroclor 1221					0.000	0.000	0	0	N
Aroclor 1232					0.000	0.000	0	0	N
Aroclor 1242					0.000	0.000	0	0	N
Aroclor 1248					0.000	0.000	0	0	N
Aroclor 1254					0.000	0.000	0	0	N
Aroclor 1260					0.000	0.000	0	0	N
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F007.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 15:19:00	**Vial:**	17
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02.R03	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
beta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
delta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Chlordane					167.900	203.390	168	203	N
Chlordane {1}	12.35	12.31	26954302	8891966	178.864	215.738	179	216	
Chlordane {2}	13.20	13.15	84037510	26570516	153.053	197.573	153	198	
Chlordane {3}	14.40	13.27	19523389	21965544	171.789	196.868	172	197	
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F007.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 15:19:00	**Vial:**	17
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02.R03	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Toxaphene					0.000	0.000	0	0	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F007.D Vial: 98
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 03:19 pm Operator:
Sample : CHLOR DWSD83D 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:29:07 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.985	10.821	255.9E6	67282518	50.000	50.000	
26)	I Pentachlo...	10.985	10.821	255.9E6	67282518	50.000	50.000	
34)	I Pentachlo...	10.985	10.821	255.9E6	67282518	50.000	50.000	
51)	I Pentachlo...	10.985	10.821	255.9E6	67282518	50.000	50.000	
60)	I Pentachlo...	10.985	10.821	255.9E6	67282518	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
31)	L2 Chlordane	12.348	12.311	26954302	8891966	178.864	215.738	
32)	L2 Chlordane...	13.199	13.151	84037510	26570516	153.053	197.573	#
33)	L2 Chlordane...	14.398	13.274	19523389	21965544	171.789	196.868	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

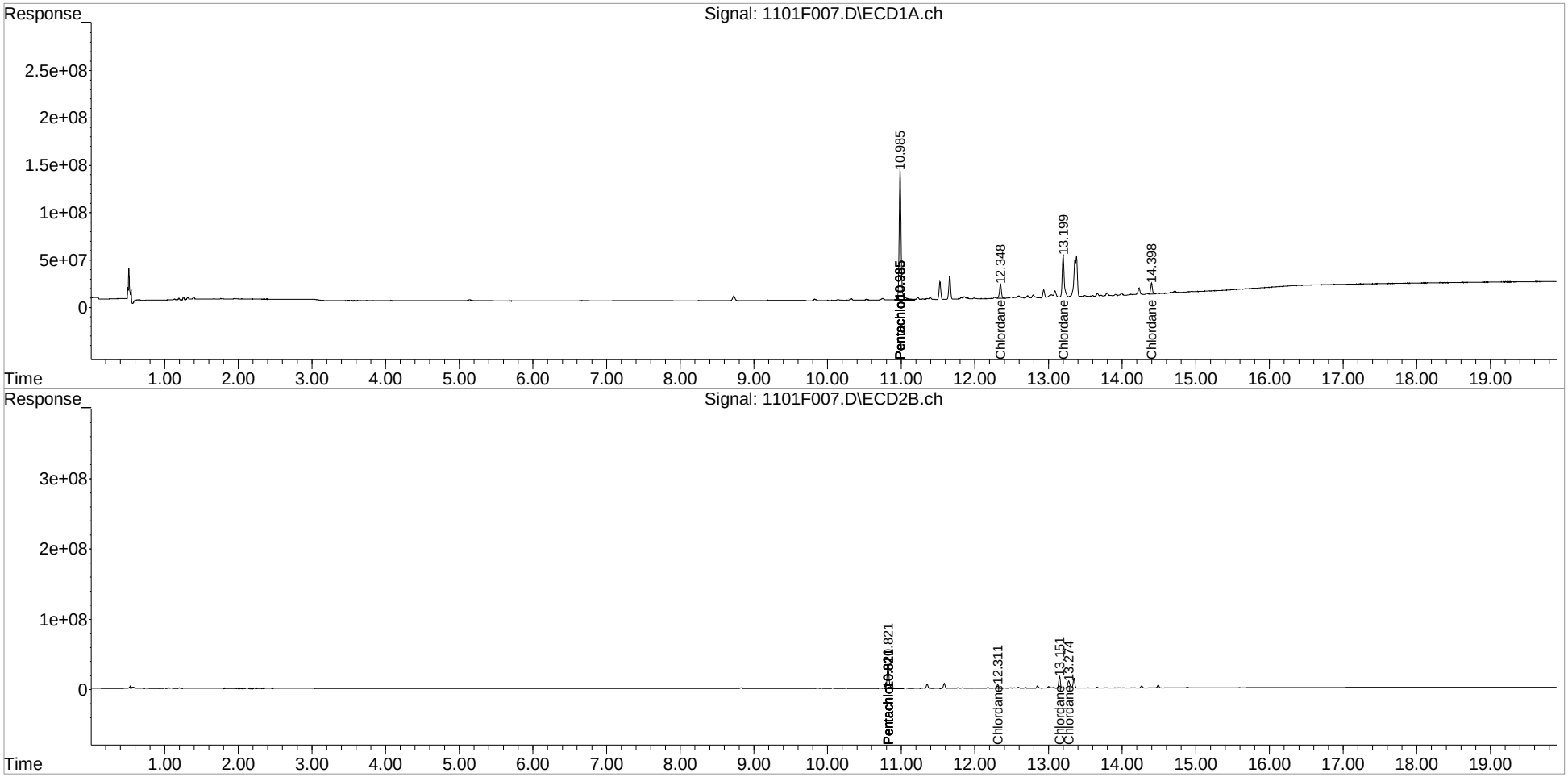
1st BB 11/03/23
2nd AA 11/06/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110123\1101F007.D Vial: 98
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 03:19 pm Operator:
Sample : CHLOR DWSD83D 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:29:07 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st BB 11/03/23
2nd AA 11/06/23

Validation Report

Data File: J:\GC33\DATA\110123\1101F006.D\
Lab ID: KQ2318924-02.R02
RunType: CCV
Matrix: Water

Date Acquired: 11/1/23 14:47:00
Batch ID: 821707
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	247110526	48515187	194060748	CCVOK
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	66136007	100430009	401720034	CCVOK
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.98			SA
	Pentachloronitrobenzene {2}	10.98			
	Pentachloronitrobenzene {3}	10.98			
	Pentachloronitrobenzene{4}	10.98			
	Pentachloronitrobenzene{5}	10.98			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.82			
	Pentachloronitrobenzene {2}	10.82			
	Pentachloronitrobenzene {3}	10.82			
	Pentachloronitrobenzene{4}	10.82			
	Pentachloronitrobenzene{5}	10.82			

Primary Review: _____

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Secondary Review: _____

1st B B 11/03/23
2nd A A 11/06/23

Quantitation Report

Data File:	J:\GC33\DATA\110123\1101F006.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 14:47:00	**Vial:**	16
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02.R02	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821707	**Prep Lot:**		**Report Group:**	KQ2318924
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.98	c	10.82	c	247110526*	66136007	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {2}	10.98	c	10.82	c	247110526	66136007*	50.000	50.000		
Pentachloronitrobenzene {3}	10.98	c	10.82	c	247110526	66136007	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.98	c	10.82	c	247110526	66136007	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.98	c	10.82	c	247110526	66136007	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Aroclor 1016					0.000	0.000	0	0	N
Aroclor 1221					0.000	0.000	0	0	N
Aroclor 1232					0.000	0.000	0	0	N
Aroclor 1242					0.000	0.000	0	0	N
Aroclor 1248					0.000	0.000	0	0	N
Aroclor 1254					0.000	0.000	0	0	N
Aroclor 1260					0.000	0.000	0	0	N
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F006.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 14:47:00	**Vial:**	16
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02.R02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
beta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
delta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Chlordane					0.000	0.000	0	0	N
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N

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D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st BB 11/03/23
2nd AA 11/06/23

Data File:	J:\GC33\DATA\110123\1101F006.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 14:47:00	**Vial:**	16
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318924-02.R02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Toxaphene					421.720	536.580	422	537	N
Toxaphene {1}	14.47	14.36	35020493	5520365	408.060	594.003	408	594	
Toxaphene {2}	14.90	14.41	25568238	9224568	411.508	492.682	412	493	
Toxaphene {3}	15.34	14.53	25654949	18444159	417.141	483.192	417	483	
Toxaphene {4}	15.48	15.53	22880189	10556613	450.165	576.461	450	576	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F006.D Vial: 97
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 02:47 pm Operator:
Sample : TOX DWSTD08-83C 500PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:26:54 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.984	10.820	247.1E6	66136007	50.000	50.000	
26)	I Pentachlo...	10.984	10.820	247.1E6	66136007	50.000	50.000	
34)	I Pentachlo...	10.984	10.820	247.1E6	66136007	50.000	50.000	
51)	I Pentachlo...	10.984	10.820	247.1E6	66136007	50.000	50.000	
60)	I Pentachlo...	10.984	10.820	247.1E6	66136007	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
27)	L1 Toxaphene	14.472	14.363	35020493	5520365	408.060	594.003	#
28)	L1 Toxaphene...	14.900	14.413	25568238	9224568	411.508	492.682	
29)	L1 Toxaphene...	15.343	14.533	25654949	18444159	417.141	483.192	
30)	L1 Toxaphene...	15.483	15.525	22880189	10556613	450.165	576.461	#
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

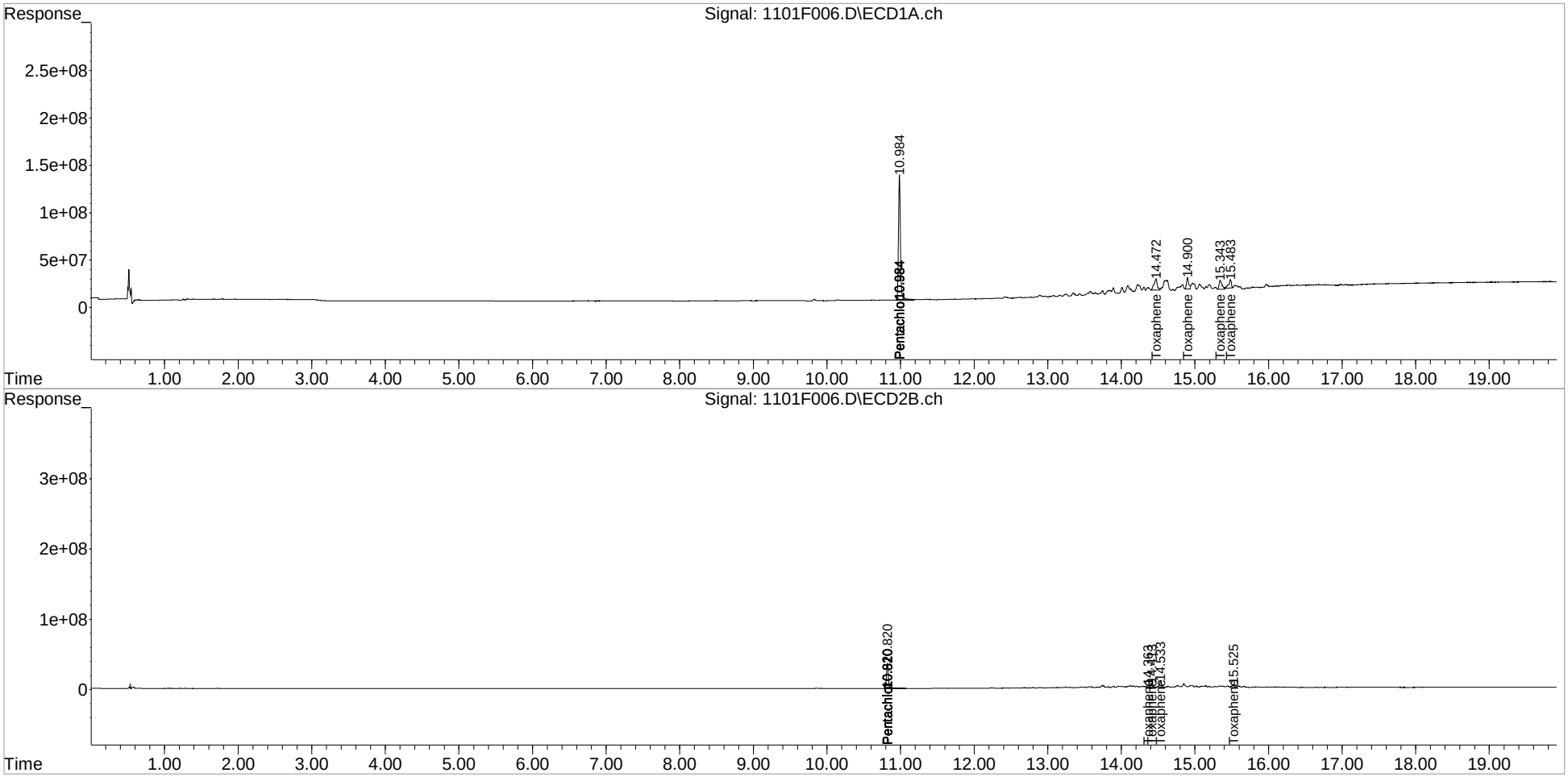
1st BB 11/03/23
2nd AA 11/06/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110123\1101F006.D Vial: 97
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 02:47 pm Operator:
Sample : TOX DWSTD08-83C 500PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:26:54 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Nov 02 12:18:38 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st B B 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F007.D\
Lab ID: KQ2318956-02
RunType: CCV
Matrix: Water

Date Acquired: 11/2/23 19:53:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	230073606	48515187	194060748	CCVOK
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	52200416	100430009	401720034	
	Pentachloronitrobenzene {3}	52200416	63144776	252579102	
	Pentachloronitrobenzene{4}	52200416	63178516	252714064	
	Pentachloronitrobenzene{5}	52200416	62034723	248138892	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.91			SA
	Pentachloronitrobenzene {2}	10.91			
	Pentachloronitrobenzene {3}	10.91			
	Pentachloronitrobenzene{4}	10.91			
	Pentachloronitrobenzene{5}	10.91			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.78			
	Pentachloronitrobenzene {2}	10.78			
	Pentachloronitrobenzene {3}	10.78			
	Pentachloronitrobenzene{4}	10.78			
	Pentachloronitrobenzene{5}	10.78			

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F007.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 19:53:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821752	**Prep Lot:**		**Report Group:**	KQ2318956
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.91	c	10.78	c	230073606*	52200416	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {2}	10.91	c	10.78	c	230073606	52200416*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.91	c	10.78	c	230073606	52200416*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.91	c	10.78	c	230073606	52200416*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.91	c	10.78	c	230073606	52200416*	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2		Rpt?
Decachlorobiphenyl	17.20	17.50	212419753	64875179	73.106	116.573			P	Y
Tetrachloro-m-xylene	8.82	8.72	219934770	118879618	89.069	103.774				Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	12.06	12.03	432441734	118566118	91.733	97.415	91.7	97.4	Y
Aroclor 1016					0.000	0.000	0	0	Y
Aroclor 1221					0.000	0.000	0	0	Y
Aroclor 1232					0.000	0.000	0	0	Y
Aroclor 1242					0.000	0.000	0	0	Y
Aroclor 1248					0.000	0.000	0	0	Y
Aroclor 1254					0.000	0.000	0	0	Y
Aroclor 1260					0.000	0.000	0	0	Y
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

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E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F007.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 19:53:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
alpha-BHC	10.14	10.15	547729689	151646720	94.404	108.240	94.4	108	Y
beta-BHC	10.96	11.01	204270807	62008020	121.382	121.241	121	121	Y
delta-BHC	11.26	11.48	468745496	115886487	91.651	100.661	91.7	101	Y
gamma-BHC (Lindane)	10.77	10.83	499043952	152590373	93.226	119.397	93.2	119	Y
Chlordane					0.000	0.000	0	0	Y
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
4,4'-DDD	14.19	14.25	192637743	71997124	89.072	109.147	89.1	109	Y
4,4'-DDE	13.41	13.53	264330918	91794563	87.070	108.911	87.1	109	Y
4,4'-DDT	14.53	14.63	199866813	61423920	95.047	98.515	95.0	98.5	Y
Dieldrin	13.82	13.73	314028965	99856452	88.714	102.676	88.7	103	Y
Endosulfan I	13.50	13.37	299831341	89236621	91.143	101.927	91.1	102	Y
Endosulfan II	14.41	14.38	233459505	80332753	82.759	109.640	82.8	110	Y
Endosulfan Sulfate	15.53	15.14	183864491	60945456	74.740	96.907	74.7	96.9	Y
Endrin	14.13	14.12	275890693	89049837	98.771	120.570	98.8	121	Y
Endrin Aldehyde	14.95	14.80	164749060	58027871	77.044	103.024	77.0	103	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F007.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 19:53:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	11.59	11.54	455118949	110760852	103.404	99.992	103	100	Y
Heptachlor Epoxide	12.96	12.85	335726988	100982553	87.800	100.744	87.8	101	Y
Toxaphene					0.000	0.000	0	0	Y
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/9/23 15:58
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Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:07:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	10.914	10.778	230.1E6	52200416	50.000	50.000	
26)	I	Pentachlo...	10.914	10.778	230.1E6	52200416	50.000	50.000	
34)	I	Pentachlo...	10.914	10.778	230.1E6	52200416	50.000	50.000	
51)	I	Pentachlo...	10.914	10.778	230.1E6	52200416	50.000	50.000	
60)	I	Pentachlo...	10.914	10.778	230.1E6	52200416	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.818	8.720	219.9E6	118.9E6	89.069	103.774	
4)	S	4,4'-Dibr...	0.000	0.028	0	49713	N.D.	4.096	#
25)	S	Decachlor...	17.203	17.505	212.4E6	64875179	73.106	116.573	#
		Target Compounds							
3)	m	alpha-BHC	10.139	10.152	547.7E6	151.6E6	94.404	108.240	
5)	m	gamma-BHC...	10.772	10.830	499.0E6	152.6E6	93.226	119.397	#
6)	m	beta-BHC	10.956	11.012	204.3E6	62008020	121.382	121.241	
7)	m	delta-BHC	11.257	11.482	468.7E6	115.9E6	91.651m	100.661	
8)	m	Heptachlor	11.588	11.539	455.1E6	110.8E6	103.404	99.992	
9)	m	Aldrin	12.057	12.025	432.4E6	118.6E6	91.733	97.415	
11)	m	Heptachlo...	12.956	12.851	335.7E6	101.0E6	87.800	100.744	
12)	m	beta-Chlo...	13.128	13.107	318.6E6	98279033	83.774	98.703	
13)	m	alpha-Chl...	13.311	13.300	302.1E6	93744582	85.018	97.332	
14)	m	4,4'-DDE	13.415	13.525	264.3E6	91794563	87.070	108.911	#
15)	m	Endosulfan I	13.498	13.373	299.8E6	89236621	91.143	101.927	
16)	m	Dieldrin	13.818	13.729	314.0E6	99856452	88.714	102.676	
17)	m	Endrin	14.125	14.118	275.9E6	89049837	98.771	120.570	
18)	m	4,4'-DDD	14.188	14.246	192.6E6	71997124	89.072	109.147	
19)	m	Endosulfa...	14.414	14.383	233.5E6	80332753	82.759	109.640	#
20)	m	4,4'-DDT	14.533	14.625	199.9E6	61423920	95.047	98.515	
21)	m	Endrin Al...	14.945	14.797	164.7E6	58027871	77.044	103.024	#
22)	m	Methoxychlor	15.109	15.463	95870251	30245539	94.281	110.780	
23)	m	Endosulfa...	15.526	15.141	183.9E6	60945456	74.740m	96.907	#
24)	m	Endrin Ke...	15.916	15.863	226.3E6	77569052	81.172m	117.098m	#
		SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

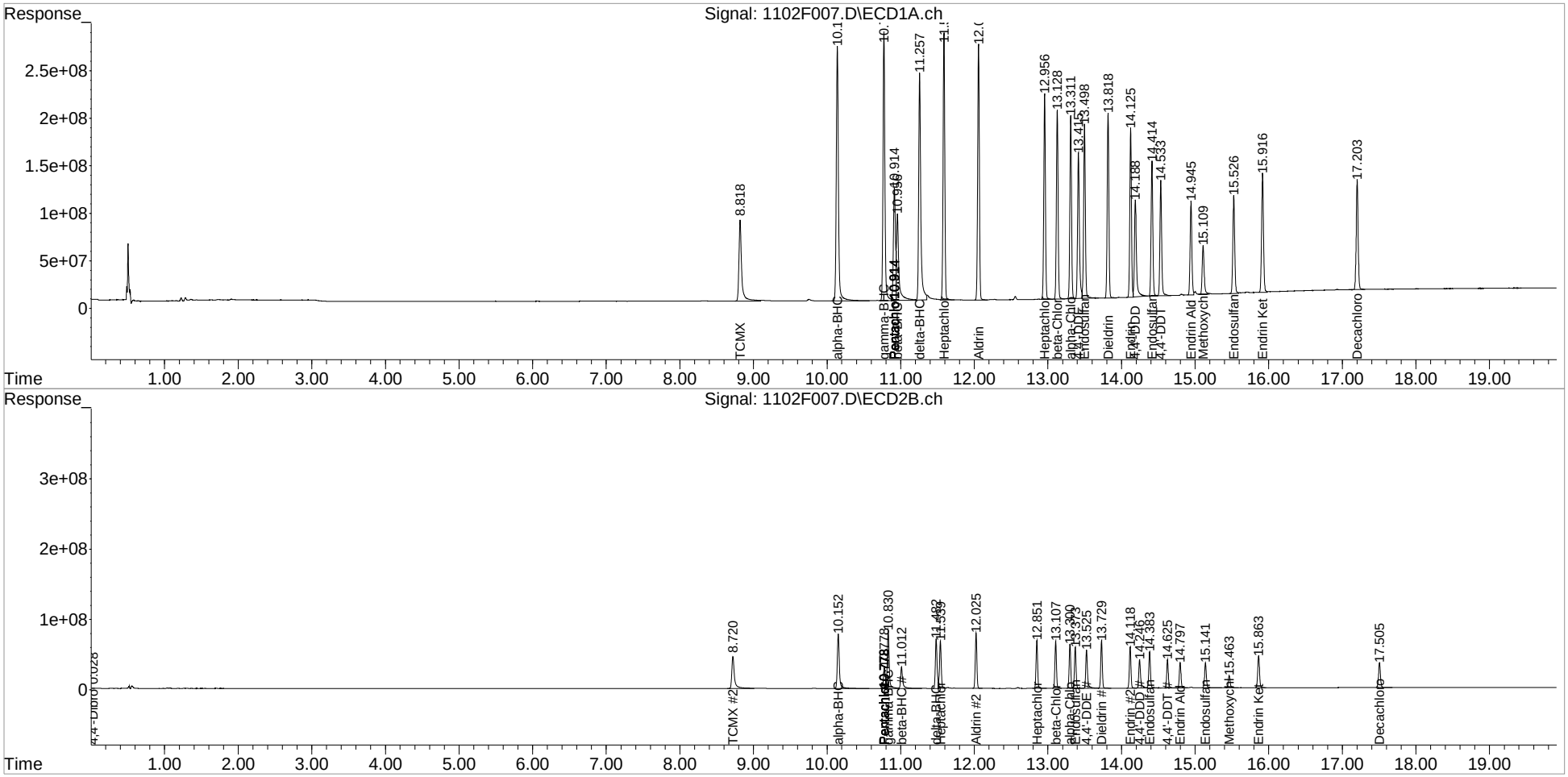
1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:07:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



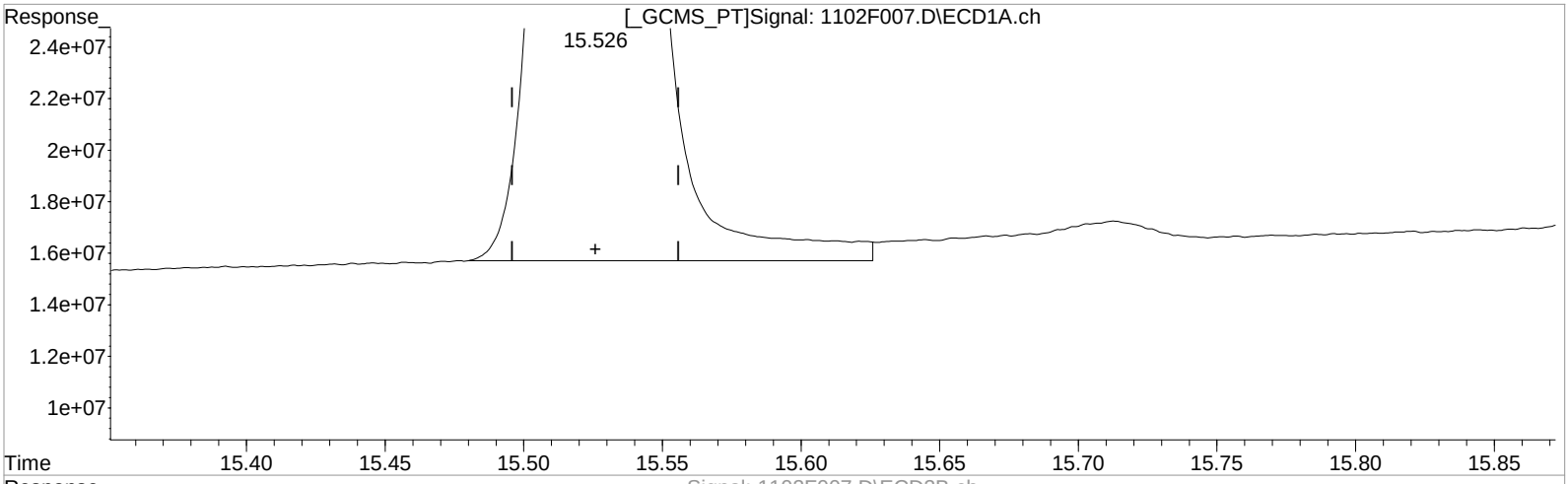
Quantitation Report (Qedit)

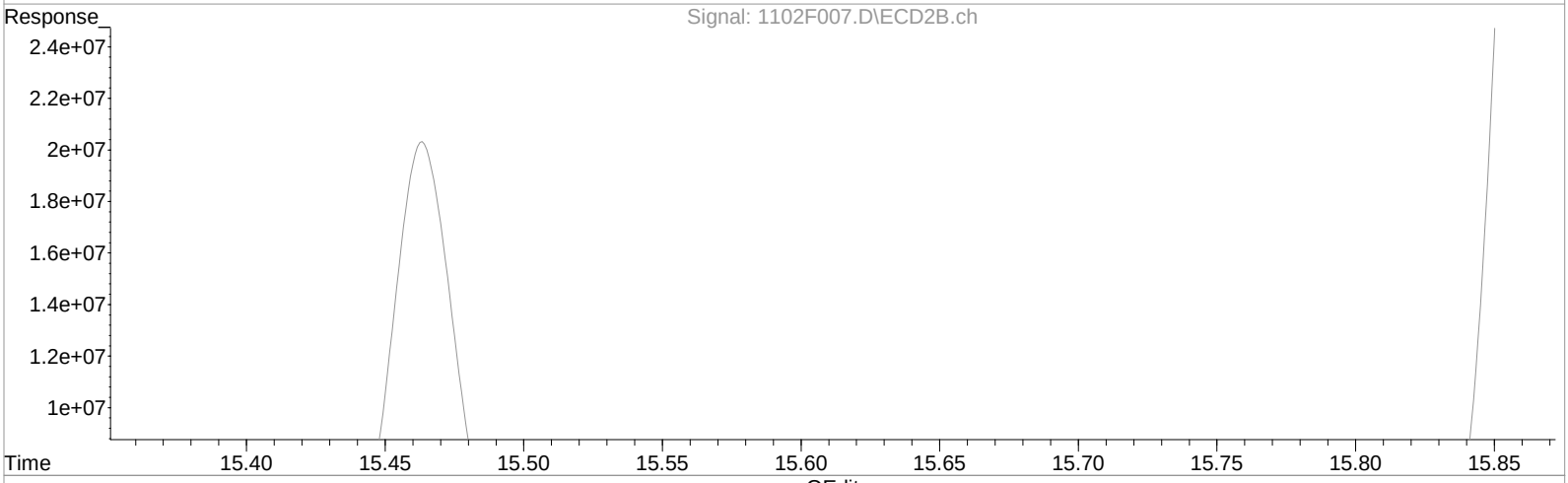
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:44:27 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(23) Endosulfan Sulfate (m)

15.526min 75.228 ug/L

response 185066164

Manual Integration:

Before

11/03/23

(23) Endosulfan Sulfate #2 (m)

15.141min 96.907 ug/L

response 60945456

(+) = Expected Retention Time

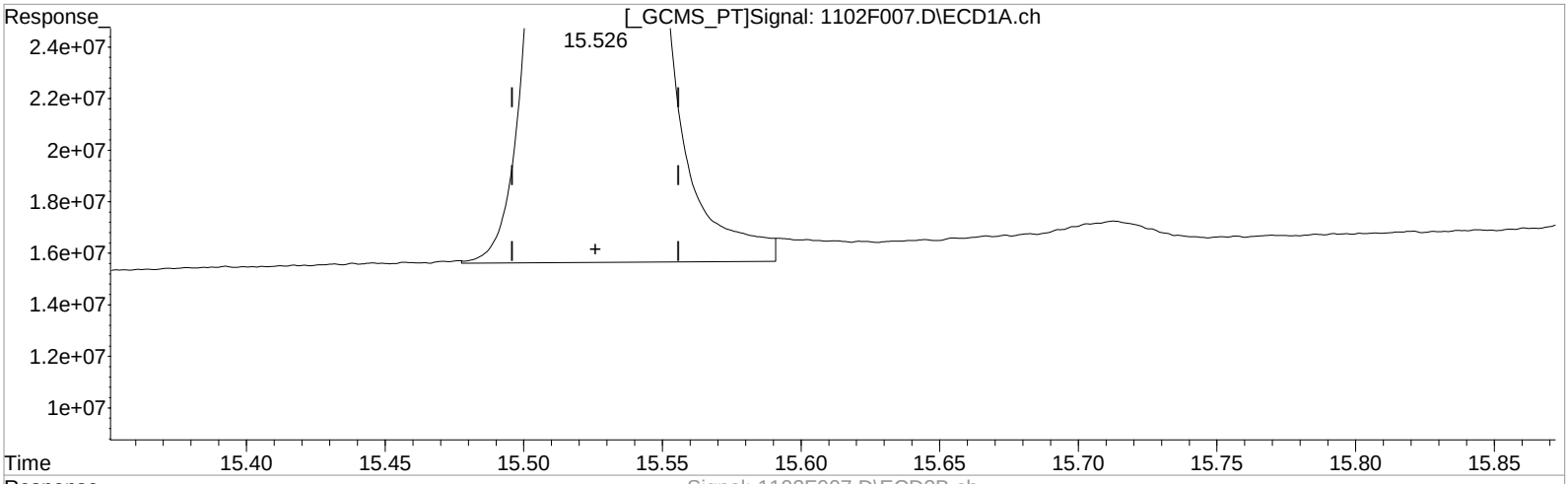
Quantitation Report (Qedit)

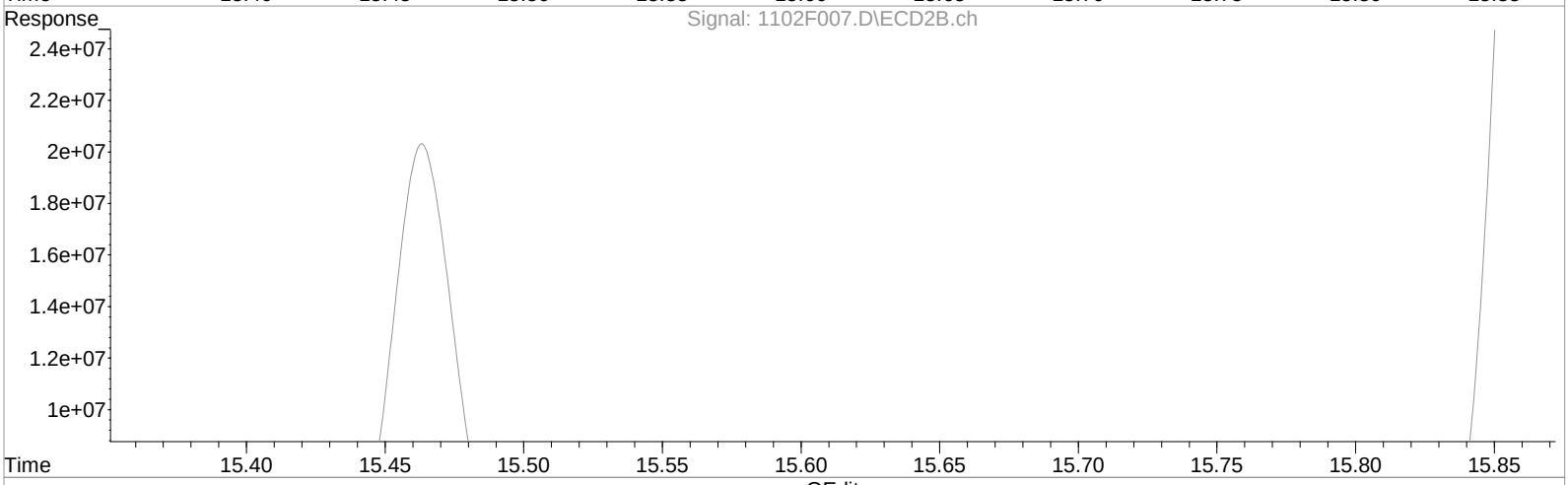
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:44:27 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(23) Endosulfan Sulfate (m)

15.526min 74.740 ug/L m

response 183864491

Manual Integration:

After

Baseline/Shoulder

11/03/23

(23) Endosulfan Sulfate #2 (m)

15.141min 96.907 ug/L

response 60945456

(+) = Expected Retention Time

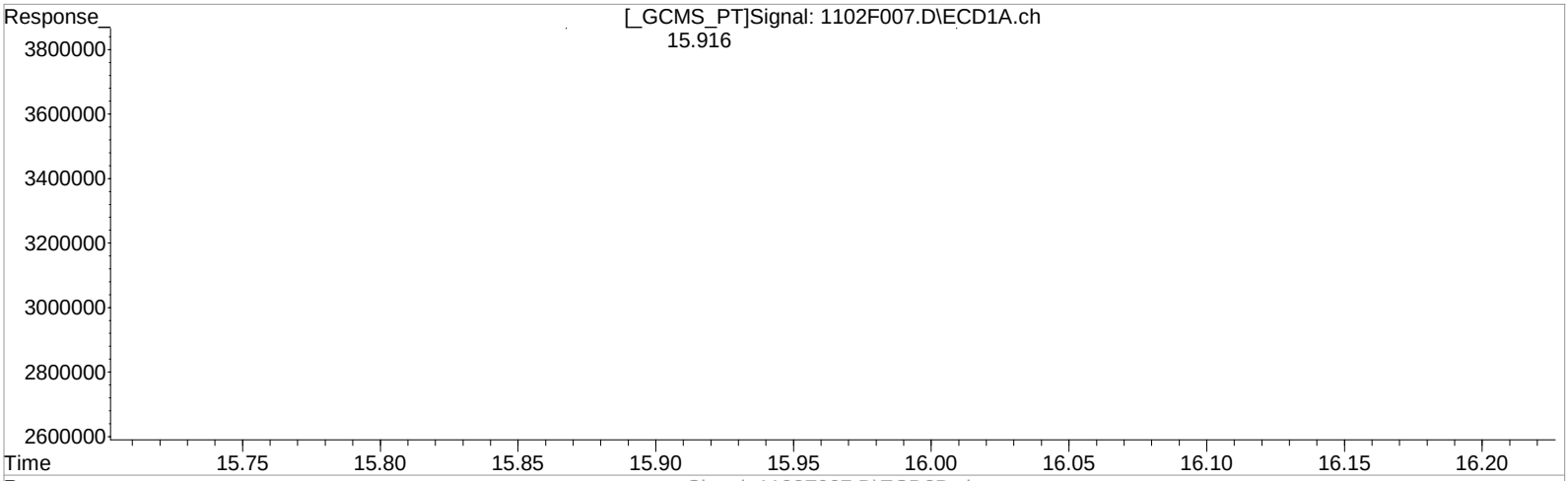
Quantitation Report (Qedit)

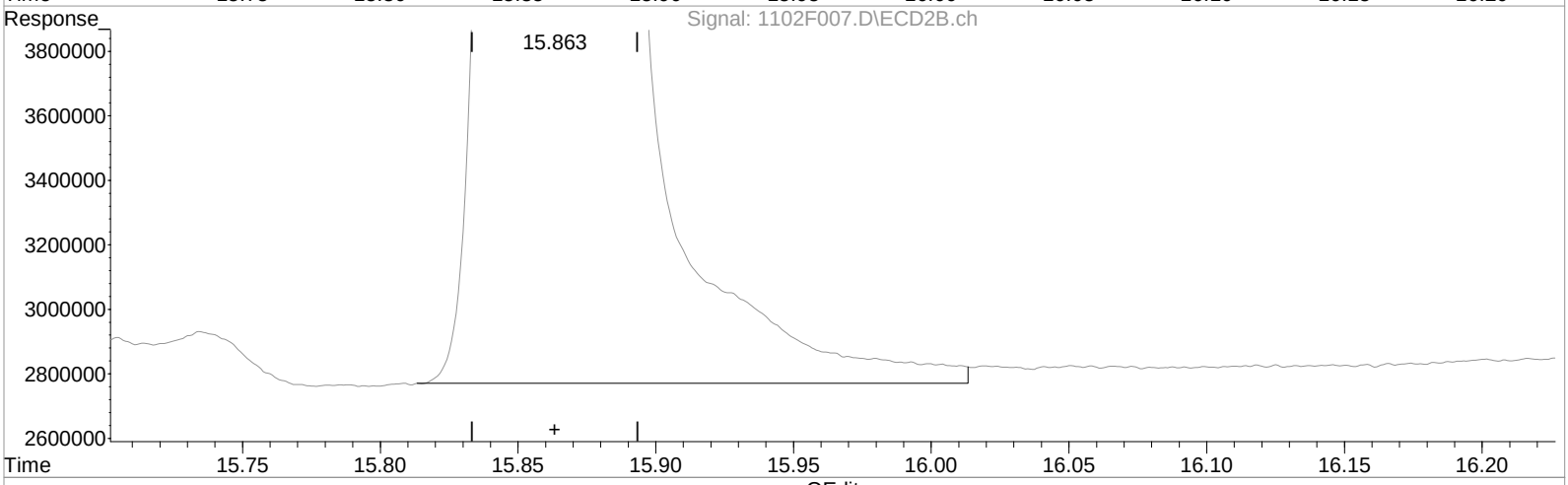
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:44:27 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

15.916min 81.486 ug/L

response 227209499

Manual Integration:

Before

11/03/23

(24) Endrin Ketone #2 (m)

15.863min 117.313 ug/L

response 77711676

(+) = Expected Retention Time

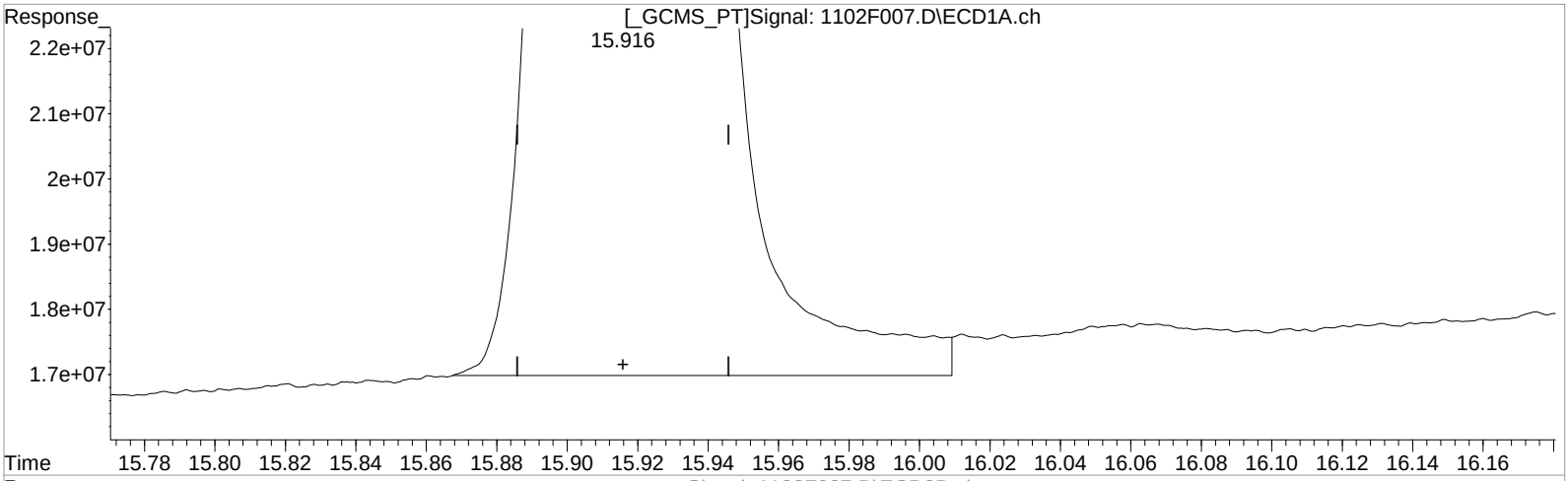
Quantitation Report (Qedit)

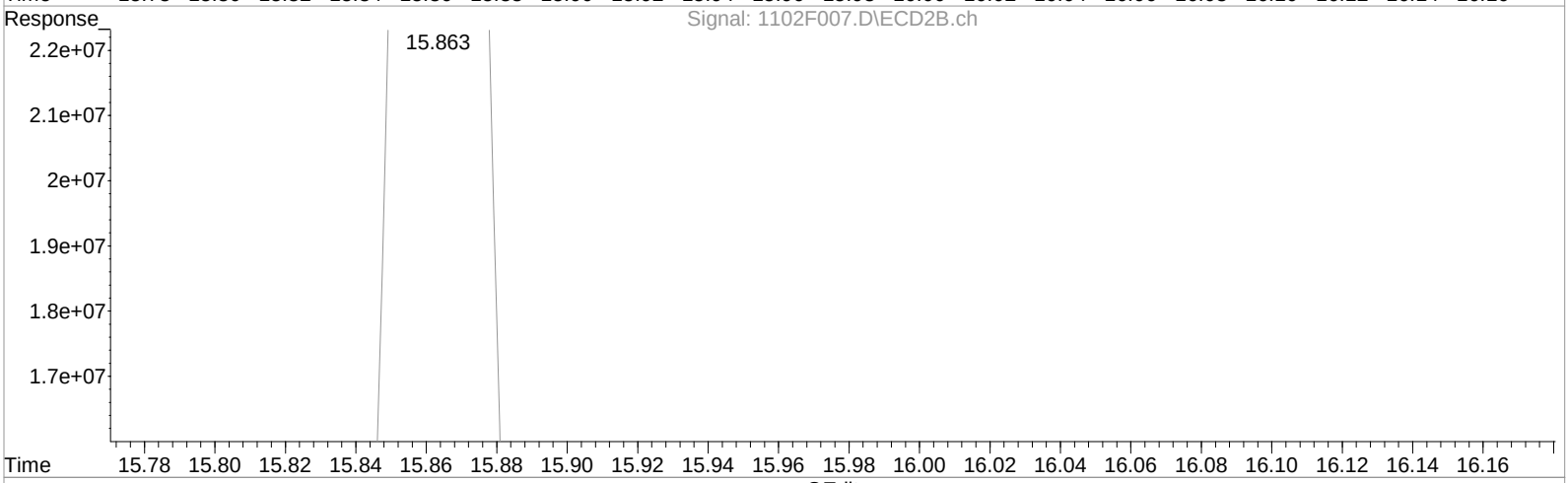
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:44:27 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

15.916min 81.486 ug/L

response 227209499

Manual Integration:

Before

11/03/23

(24) Endrin Ketone #2 (m)

15.863min 117.098 ug/L m

response 77569052

(+) = Expected Retention Time

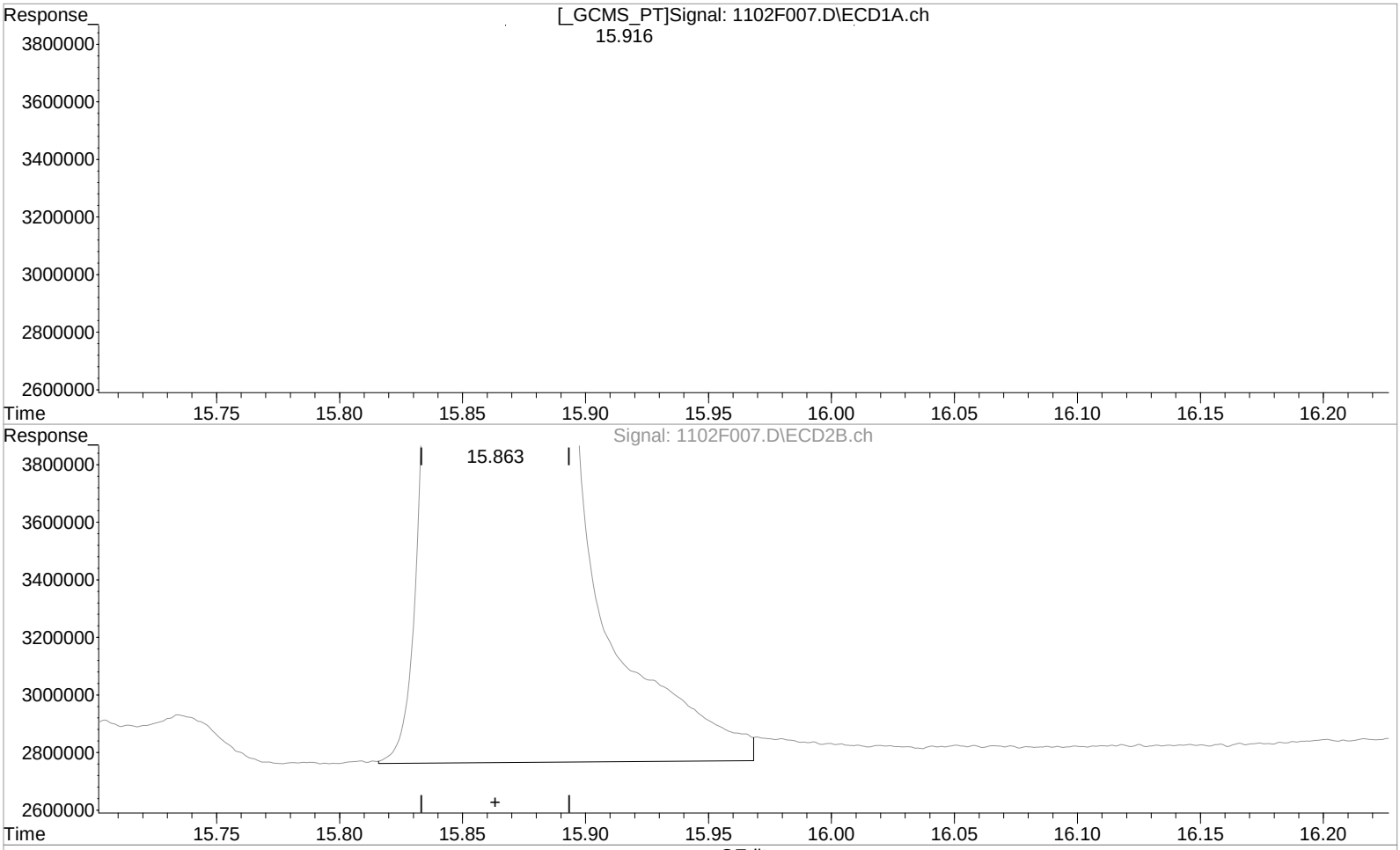
Quantitation Report (Qedit)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:44:27 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(24) Endrin Ketone (m)

15.916min 81.486 ug/L

response 227209499

Manual Integration:

After

Baseline/Shoulder

11/03/23

(24) Endrin Ketone #2 (m)

15.863min 117.098 ug/L m

response 77569052

(+) = Expected Retention Time

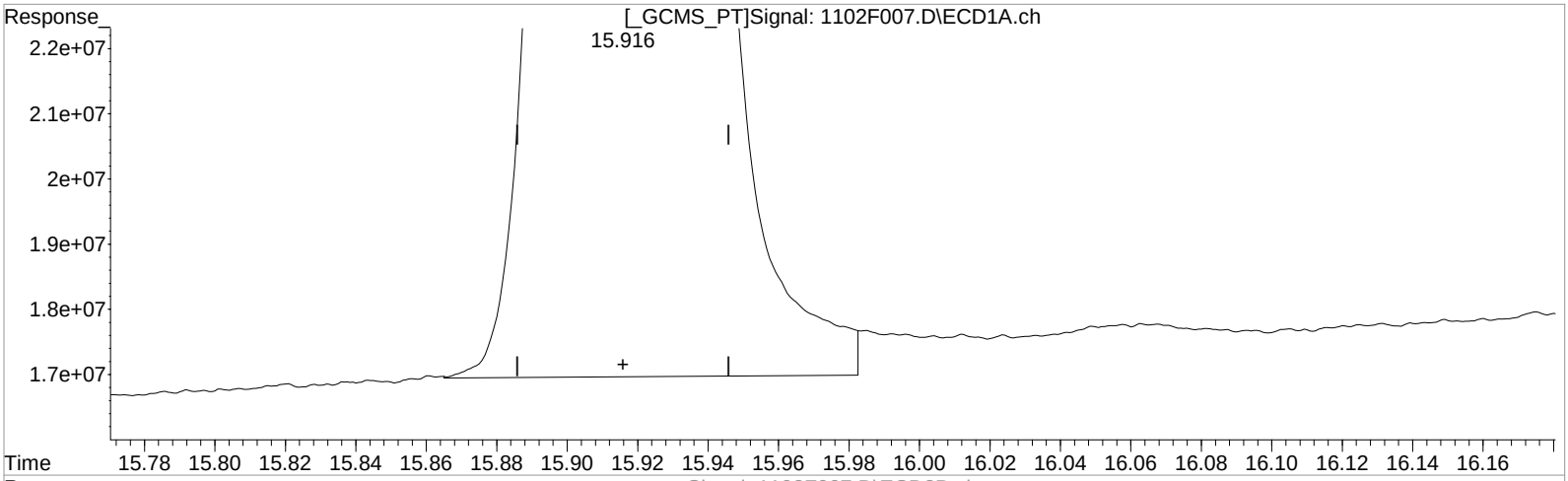
Quantitation Report (Qedit)

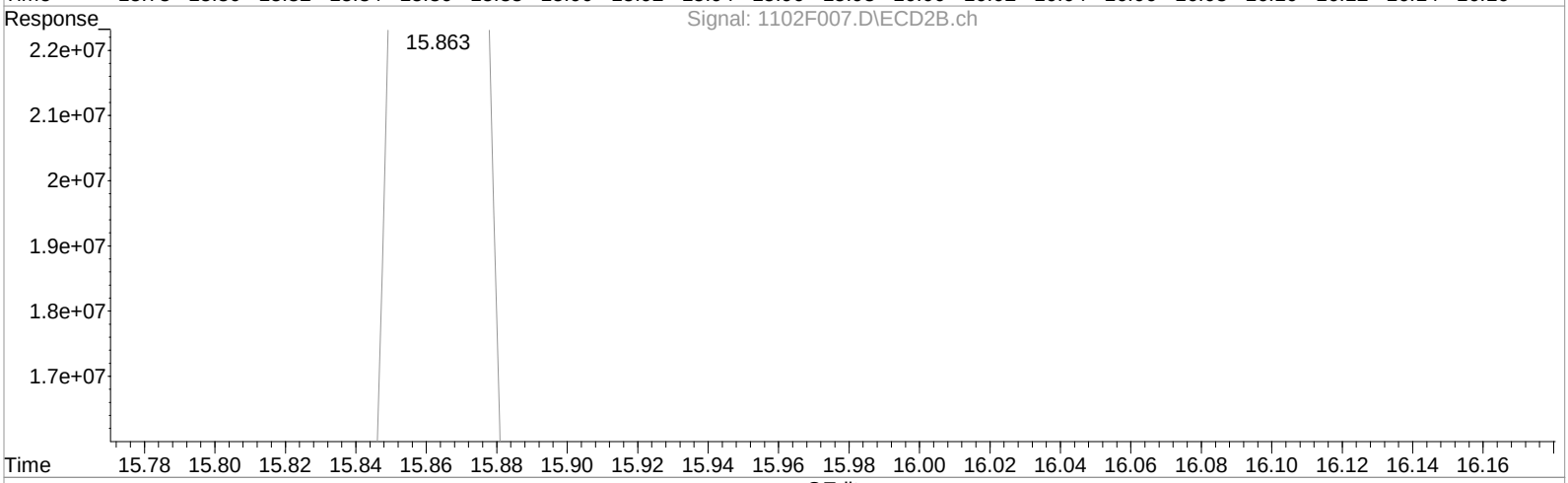
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:44:27 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

15.916min 81.172 ug/L m

response 226333210

Manual Integration:

After

Baseline/Shoulder

11/03/23

(24) Endrin Ketone #2 (m)

15.863min 117.098 ug/L m

response 77569052

(+) = Expected Retention Time

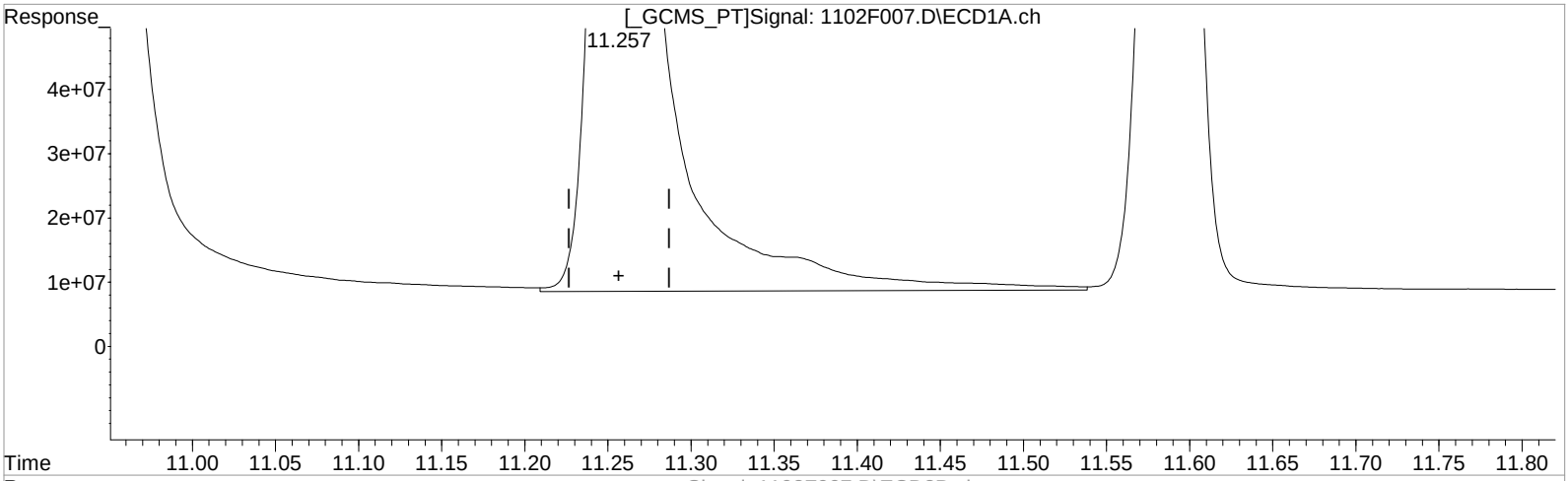
Quantitation Report (Qedit)

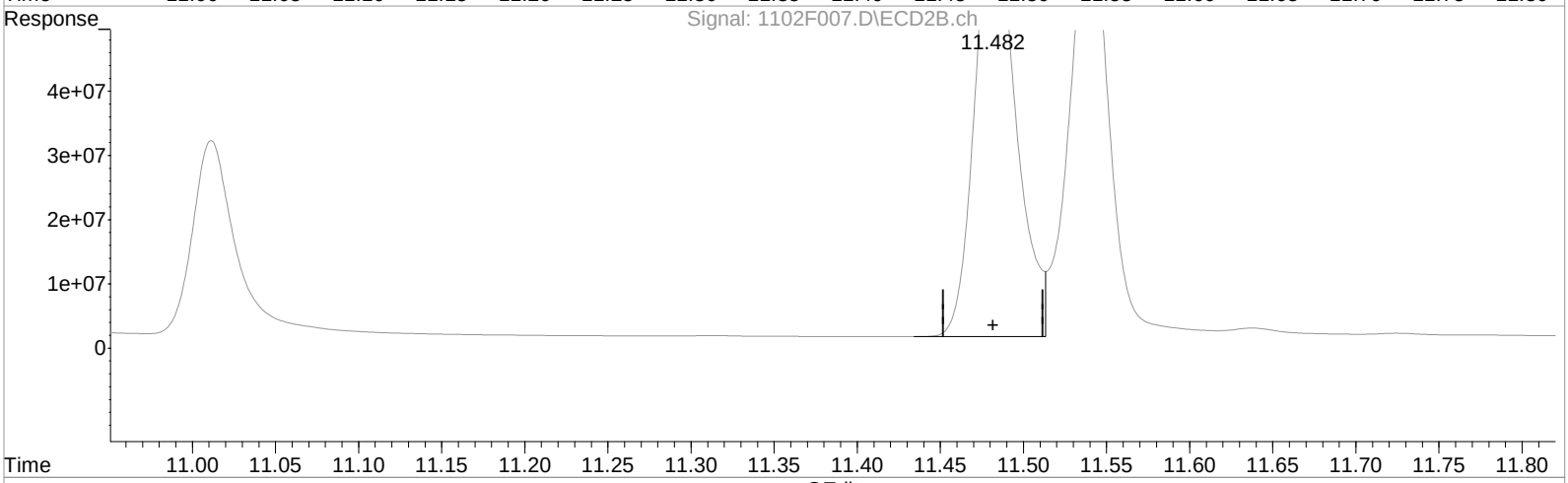
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:44:27 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(7) delta-BHC (m)

11.257min 95.904 ug/L

response 490779157

Manual Integration:

Before

11/03/23

(7) delta-BHC #2 (m)

11.482min 100.661 ug/L

response 115886487

(+) = Expected Retention Time

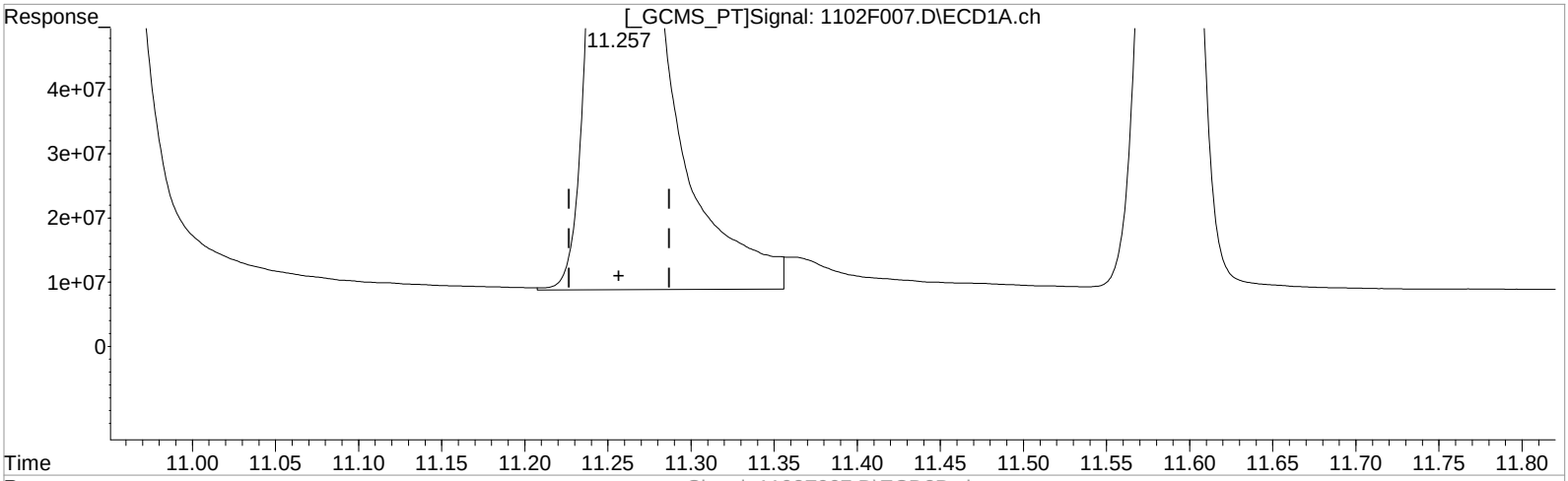
Quantitation Report (Qedit)

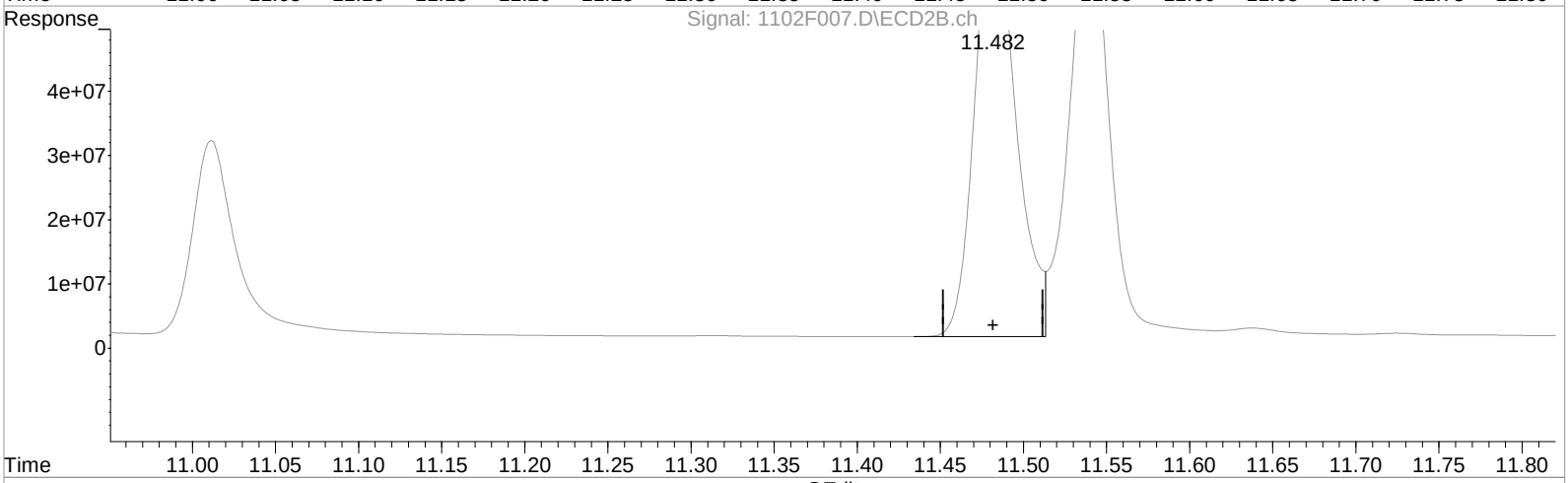
1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F007.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:53 pm Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 03 09:44:27 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(7) delta-BHC (m)

11.257min 91.651 ug/L m

response 468745496

Manual Integration:

After

Baseline/Shoulder

11/03/23

(7) delta-BHC #2 (m)

11.482min 100.661 ug/L

response 115886487

(+) = Expected Retention Time

1st BB 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F008.D\
Lab ID: KQ2318956-02.R01
RunType: CCV
Matrix: Water

Date Acquired: 11/2/23 20:17:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	267784981	48515187	194060748	CCVOK
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	70007693	100430009	401720034	CCVOK
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.91			SA
	Pentachloronitrobenzene {2}	10.91			
	Pentachloronitrobenzene {3}	10.91			
	Pentachloronitrobenzene{4}	10.91			
	Pentachloronitrobenzene{5}	10.91			
Analyte Coelutions - RTX-CLP2	Aroclor 1016 {3}	11.31			int
	Aroclor 1016 {4}	11.31			int
	Pentachloronitrobenzene (PCNB)	10.78			SA
	Pentachloronitrobenzene {2}	10.78			
	Pentachloronitrobenzene {3}	10.78			
	Pentachloronitrobenzene{4}	10.78			
	Pentachloronitrobenzene{5}	10.78			

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F008.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 20:17:00	**Vial:**	8
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02.R01	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821752	**Prep Lot:**		**Report Group:**	KQ2318956
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.91	c	10.78	c	267784981*	70007693	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {2}	10.91	c	10.78	c	267784981	70007693*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.91	c	10.78	c	267784981	70007693	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.91	c	10.78	c	267784981	70007693	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.91	c	10.78	c	267784981	70007693	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Aroclor 1016					403.650	374.840	404	375	N
Aroclor 1221					0.000	0.000	0	0	N
Aroclor 1232					0.000	0.000	0	0	N
Aroclor 1242					0.000	0.000	0	0	N
Aroclor 1248					0.000	0.000	0	0	N
Aroclor 1254					0.000	0.000	0	0	N
Aroclor 1260					173.080	184.640	173	185	N
Aroclor 1016 {1}	0.00	11.07	0	7907899	0.000	561.918	0.00	562	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.00	0.00	
Aroclor 1016 {3}	11.33	11.31	c 38676938	2174203	403.649	218.879	404	219	P
Aroclor 1016 {4}	0.00	11.31	c 0	2174203	0.000	343.720	0.00	344	

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N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F008.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 20:17:00	**Vial:**	8
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02.R01	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	14.95	0.00	17763957	0	205.680	0.000	206	0.00	
Aroclor 1260 {2}	15.01	15.27	6855835	3353394	147.846	123.277	148	123	
Aroclor 1260 {3}	15.07	15.32	4484617	3750328	167.449	246.005	167	246	
Aroclor 1260 {4}	15.26	0.00	4016439	0	171.361	0.000	171	0.00	
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
beta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
delta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Chlordane					0.000	0.000	0	0	N
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N

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m: Manual integration performed
d: Compound manually deleted
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*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st BB 11/07/23

2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F008.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 20:17:00	**Vial:**	8
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02.R01	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Toxaphene					0.000	0.000	0	0	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F008.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 08:17 pm Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:33:09 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.914	10.777	267.8E6	70007693	50.000	50.000	
26)	I Pentachlo...	10.914	10.777	267.8E6	70007693	50.000	50.000	
34)	I Pentachlo...	10.914	10.777	267.8E6	70007693	50.000	50.000	
51)	I Pentachlo...	10.914	10.777	267.8E6	70007693	50.000	50.000	
60)	I Pentachlo...	10.914	10.777	267.8E6	70007693	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
35)	L3 Aroclor 1016	0.000	11.074	0	7907899	N.D.	561.918	#
37)	L3 Aroclor 1...	11.330f	11.312f	38676938	2174203	403.649	218.879	#
38)	L3 Aroclor 1...	0.000	11.312f	0	2174203	N.D.	343.720	#
39)	L4 Aroclor 1260	14.952f	0.000	17763957	0	205.680	N.D.	#
40)	L4 Aroclor 1...	15.006f	15.269f	6855835	3353394	147.846	123.277	
41)	L4 Aroclor 1...	15.069f	15.316	4484617	3750328	167.449	246.005	#
42)	L4 Aroclor 1...	15.264f	0.000	4016439	0	171.361	N.D.	#
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F008.D Vial: 96
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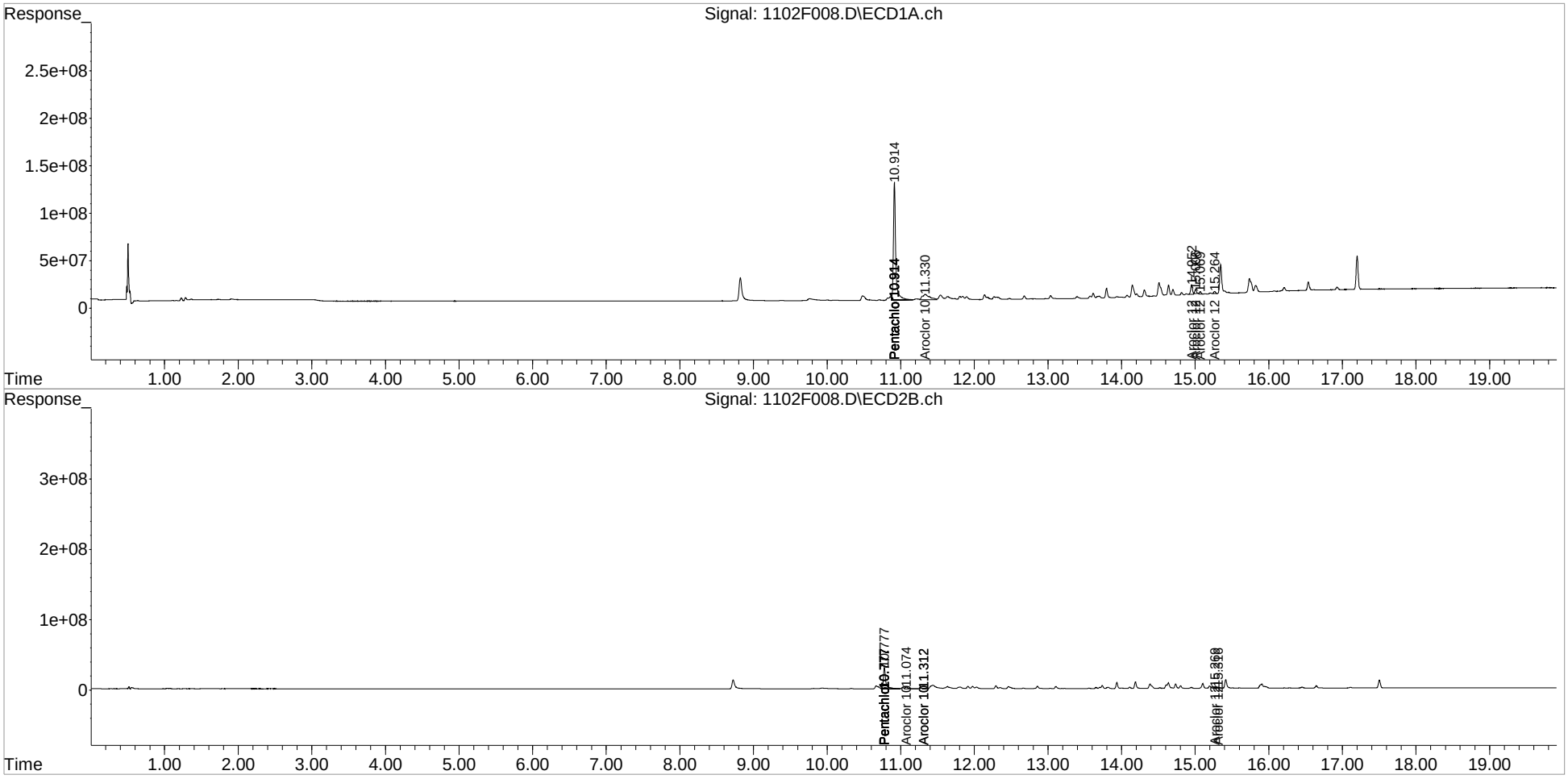

1st BB 11/07/23
2nd AA 11/07/23

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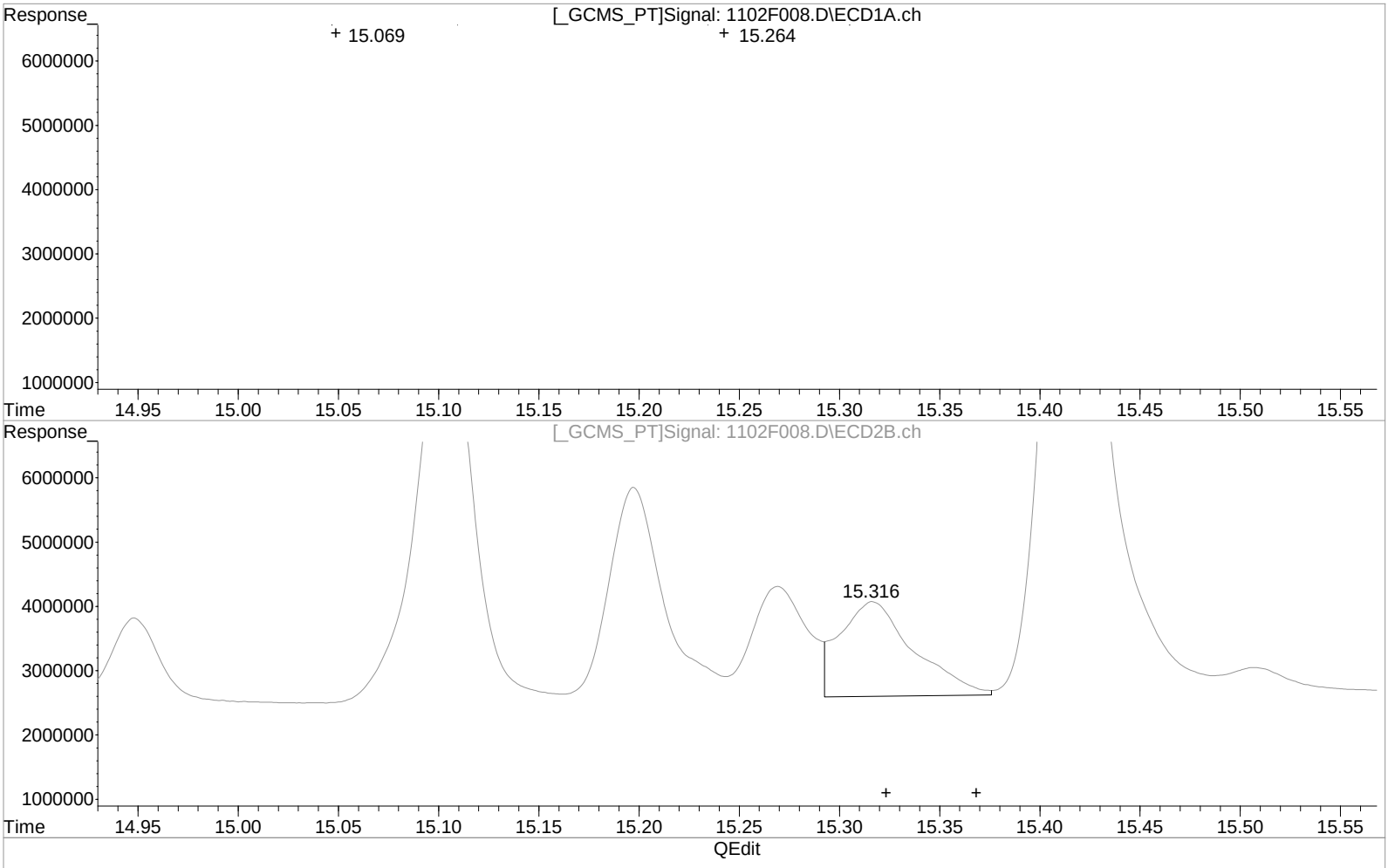

QEdit

(41) Aroclor 1260 {3} #2 (L4)

10.914min 50.000 ug/L

response 267784981

Manual Integration:

Before

11/07/23

(41) Aroclor 1260 {3} #2 (L4)

10.777min 50.000 ug/L

response 70007693

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F008.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 08:17 pm Operator:
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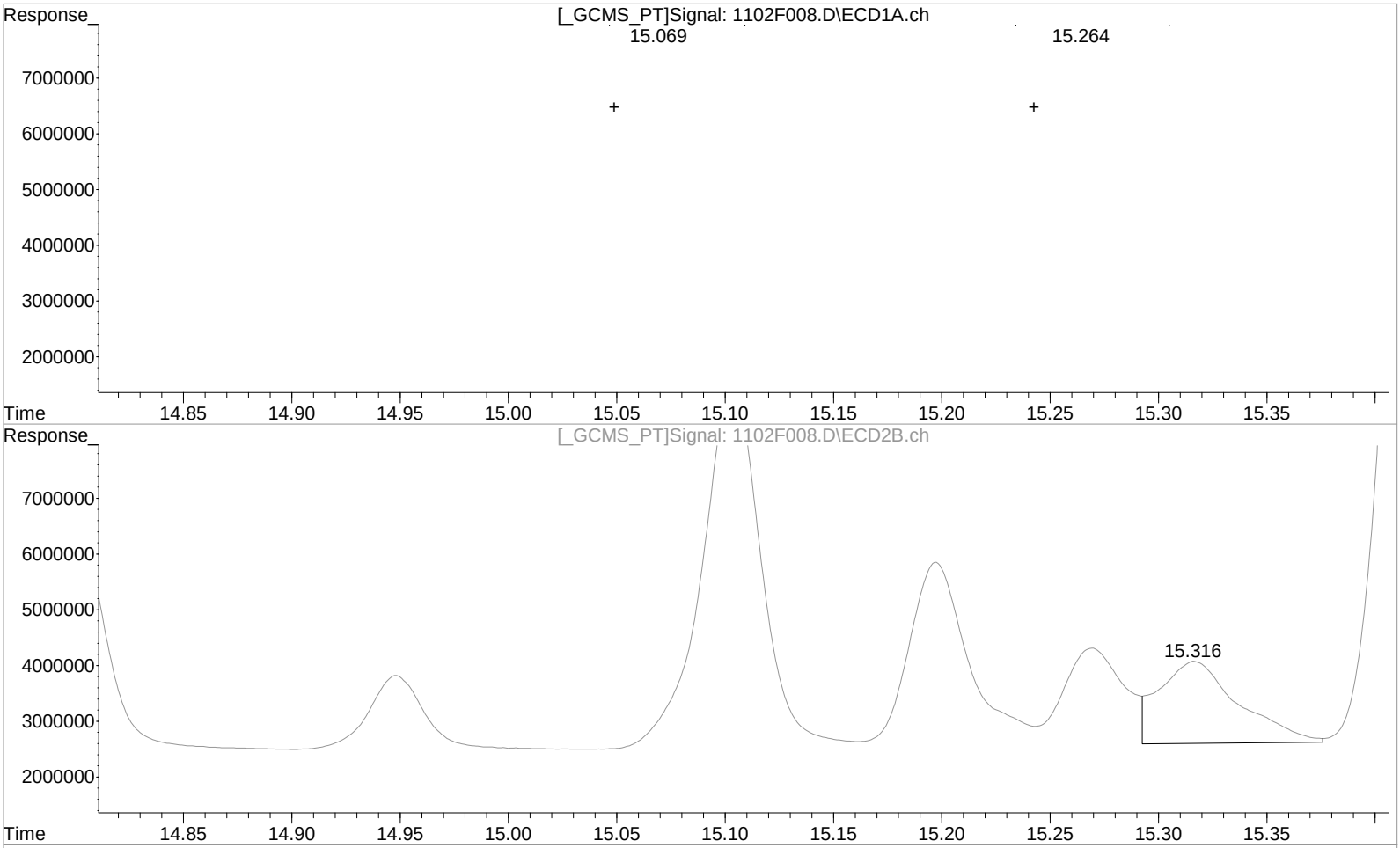
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



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Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
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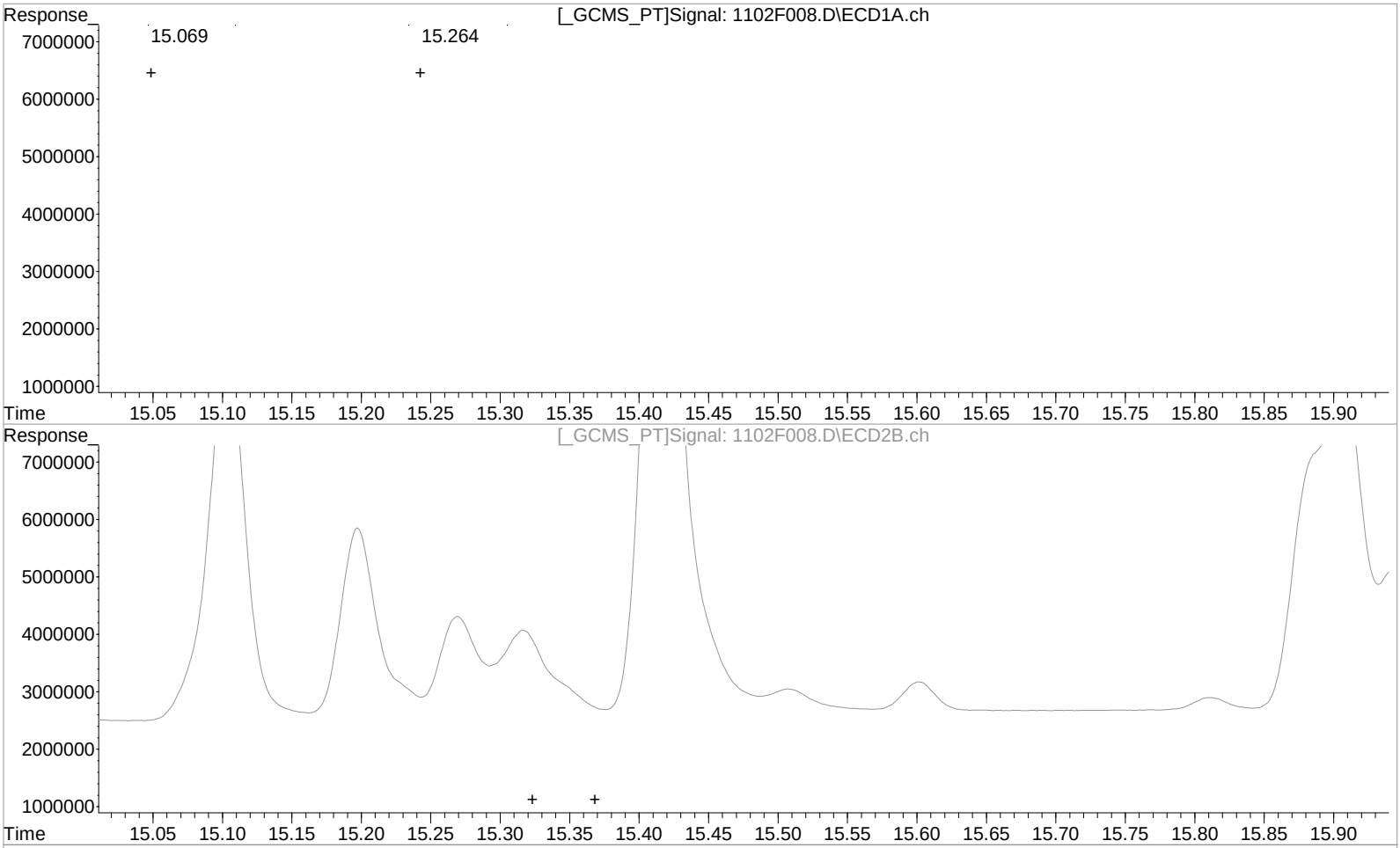

QEdit

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response 267784981

Manual Integration:

Before

11/07/23

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10.777min 50.000 ug/L

response 70007693

(+) = Expected Retention Time

Quantitation Report (Qedit)

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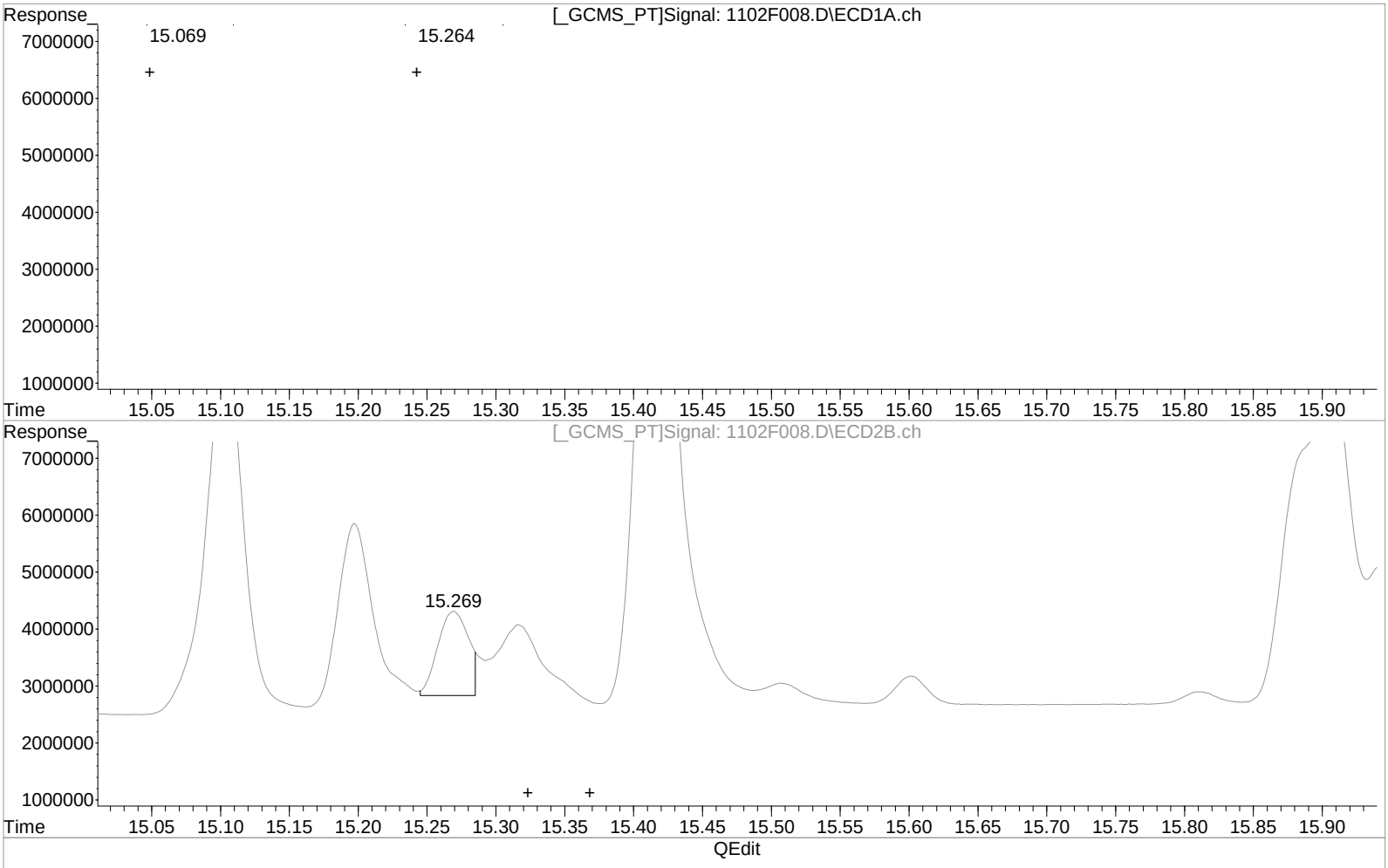
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F008.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 08:17 pm Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:33:09 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(41) Aroclor 1260 {3} #2 (L4)

10.914min 50.000 ug/L

response 267784981

Manual Integration:

After

Wrong Peak

11/07/23

(41) Aroclor 1260 {3} #2 (L4)

10.777min 50.000 ug/L

response 70007693

(+) = Expected Retention Time

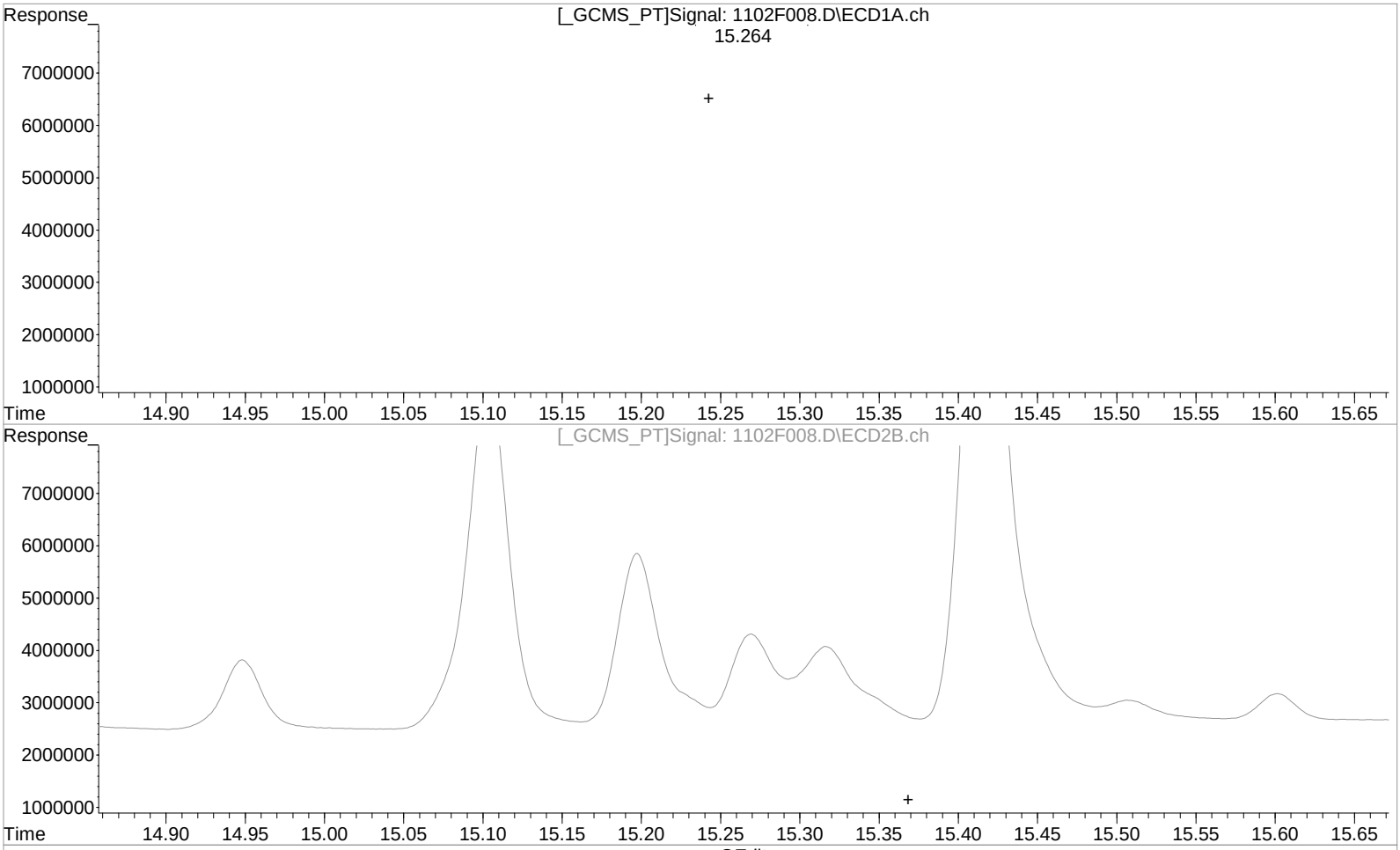
Quantitation Report (Qedit)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F008.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 08:17 pm Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:33:09 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(42) Aroclor 1260 {4} #2 (L4)

10.914min 50.000 ug/L

response 267784981

Manual Integration:

Before

11/07/23

(42) Aroclor 1260 {4} #2 (L4)

10.777min 50.000 ug/L

response 70007693

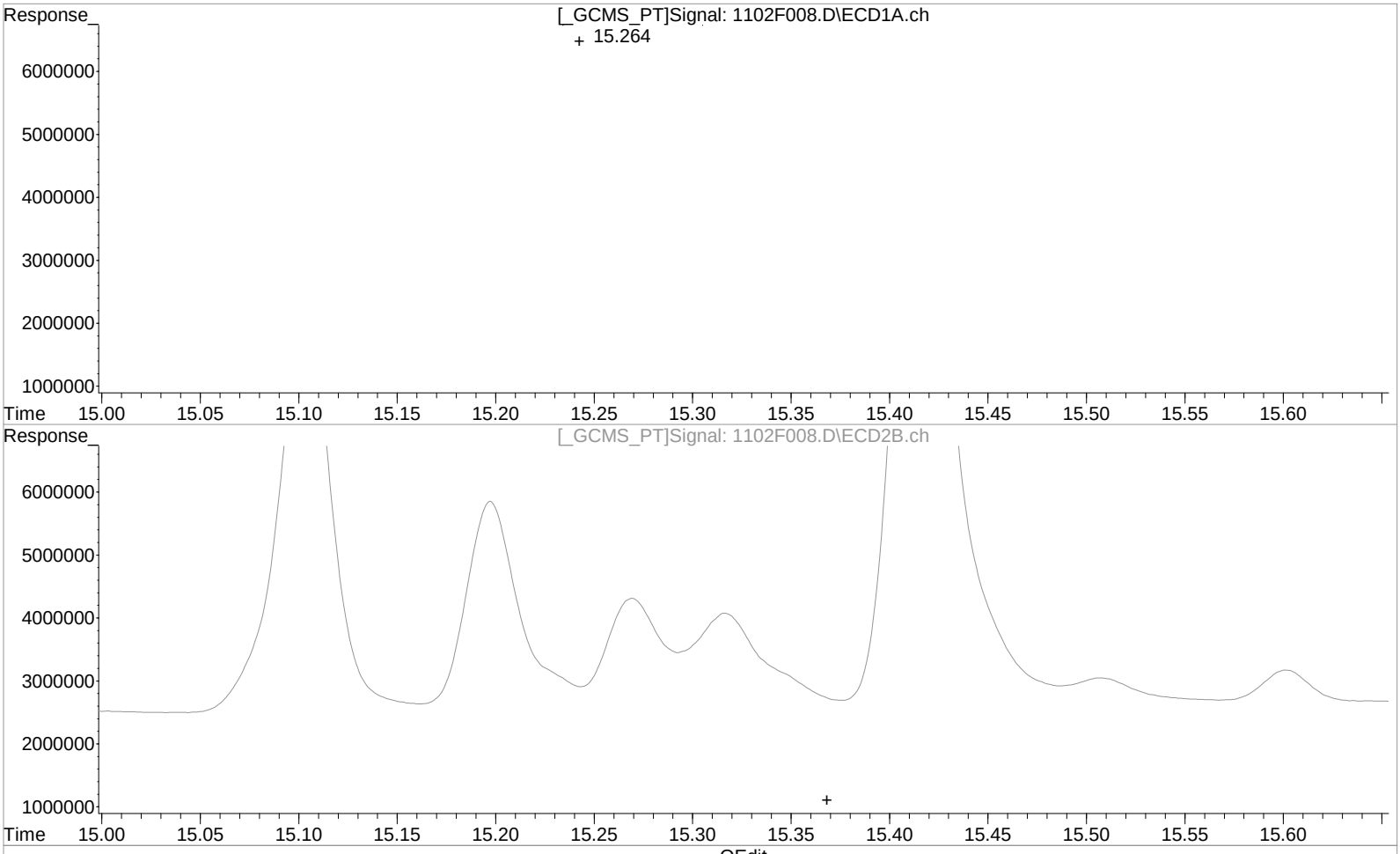
(+) = Expected Retention Time

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F008.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 08:17 pm Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:33:09 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(42) Aroclor 1260 {4} #2 (L4)

10.914min 50.000 ug/L

response 267784981

Manual Integration:

Before

11/07/23

(42) Aroclor 1260 {4} #2 (L4)

10.777min 50.000 ug/L

response 70007693

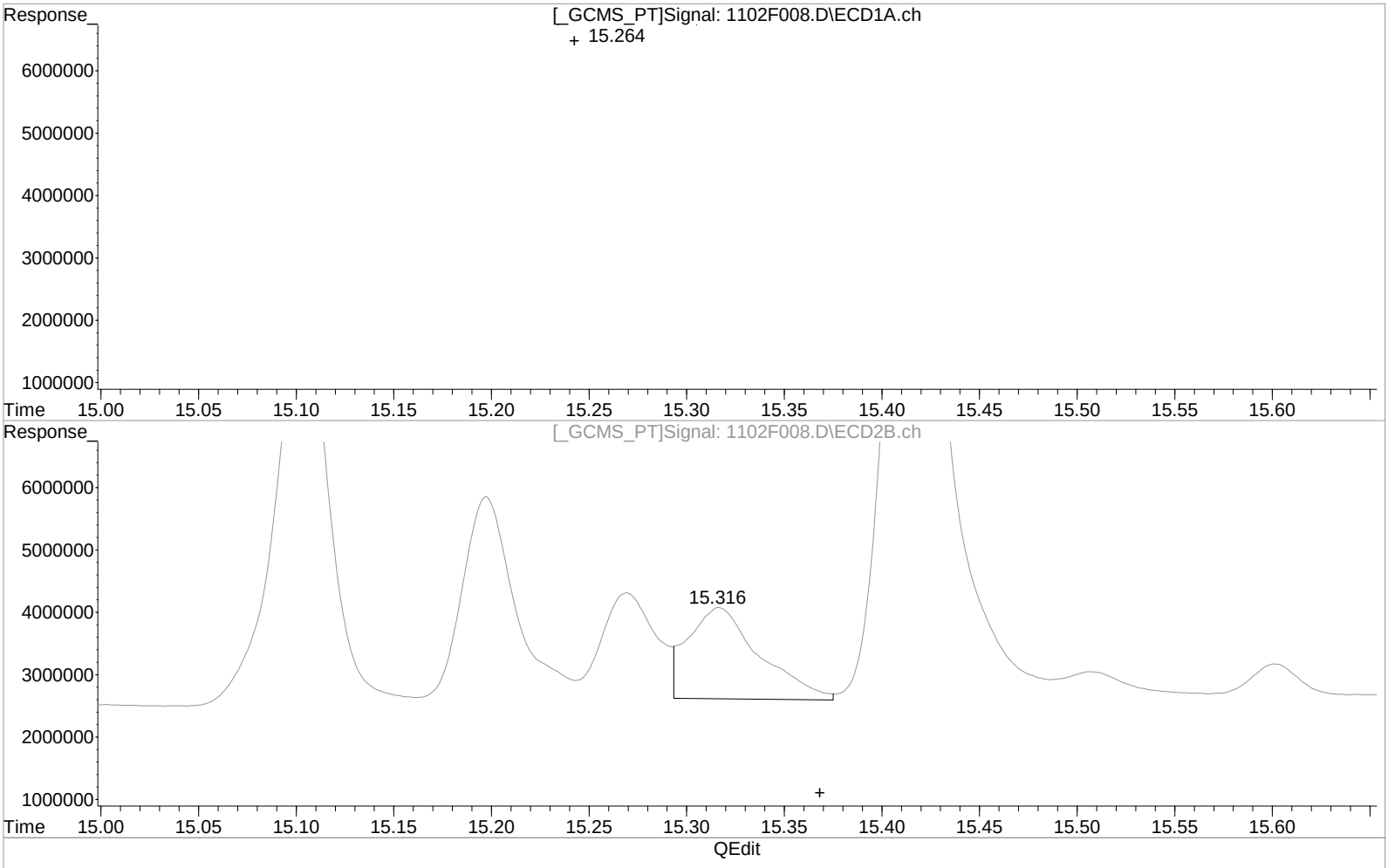
(+) = Expected Retention Time

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F008.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 08:17 pm Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:33:09 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(42) Aroclor 1260 {4} #2 (L4)

10.914min 50.000 ug/L

response 267784981

Manual Integration:

After

Missed Peak

11/07/23

(42) Aroclor 1260 {4} #2 (L4)

10.777min 50.000 ug/L

response 70007693

(+) = Expected Retention Time

1st BB 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F010.D\
Lab ID: KQ2318956-02.R03
RunType: CCV
Matrix: Water

Date Acquired: 11/2/23 21:06:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	263122004	48515187	194060748	CCVOK
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	65540187	100430009	401720034	CCVOK
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.92			SA
	Pentachloronitrobenzene {2}	10.92			
	Pentachloronitrobenzene {3}	10.92			
	Pentachloronitrobenzene{4}	10.92			
	Pentachloronitrobenzene{5}	10.92			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.78			
	Pentachloronitrobenzene {2}	10.78			
	Pentachloronitrobenzene {3}	10.78			
	Pentachloronitrobenzene{4}	10.78			
	Pentachloronitrobenzene{5}	10.78			

Primary Review: _____

Secondary Review: _____

1st B B 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F010.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 21:06:00	**Vial:**	10
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02.R03	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821752	**Prep Lot:**		**Report Group:**	KQ2318956
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.92	c	10.78	c	263122004*	65540187	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {2}	10.92	c	10.78	c	263122004	65540187*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.92	c	10.78	c	263122004	65540187	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.92	c	10.78	c	263122004	65540187	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.92	c	10.78	c	263122004	65540187	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Aroclor 1016					0.000	0.000	0	0	N
Aroclor 1221					0.000	0.000	0	0	N
Aroclor 1232					0.000	0.000	0	0	N
Aroclor 1242					0.000	0.000	0	0	N
Aroclor 1248					0.000	0.000	0	0	N
Aroclor 1254					0.000	0.000	0	0	N
Aroclor 1260					0.000	0.000	0	0	N
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st B B 11/07/23
2nd A A 11/07/23

Data File:	J:\GC33\DATA\110223\1102F010.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 21:06:00	**Vial:**	10
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02.R03	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2		Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {5}										
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
beta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
delta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Chlordane					172.350	109.420	172	109	P	N
Chlordane {1}	12.28	0.00	29310263	0	189.182	0.000	189	0.00		
Chlordane {2}	13.13	13.15	88934074	1099478	157.544	8.393	158	8.39	i	
Chlordane {3}	14.32	13.30	19900049	22872014	170.317	210.442	170	210		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F010.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 21:06:00	**Vial:**	10
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02.R03	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Toxaphene					0.000	0.000	0	0	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F010.D Vial: 98
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 09:06 pm Operator:
Sample : CHLOR DWSD83D 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:38:34 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.916	10.780	263.1E6	65540187	50.000	50.000	
26)	I Pentachlo...	10.916	10.780	263.1E6	65540187	50.000	50.000	
34)	I Pentachlo...	10.916	10.780	263.1E6	65540187	50.000	50.000	
51)	I Pentachlo...	10.916	10.780	263.1E6	65540187	50.000	50.000	
60)	I Pentachlo...	10.916	10.780	263.1E6	65540187	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
31)	L2 Chlordane	12.279	0.000	29310263	0	189.182	N.D.	#
32)	L2 Chlordane...	13.128	13.150	88934074	1099478	157.544	8.393	#
33)	L2 Chlordane...	14.324f	13.300f	19900049	22872014	170.317	210.442	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

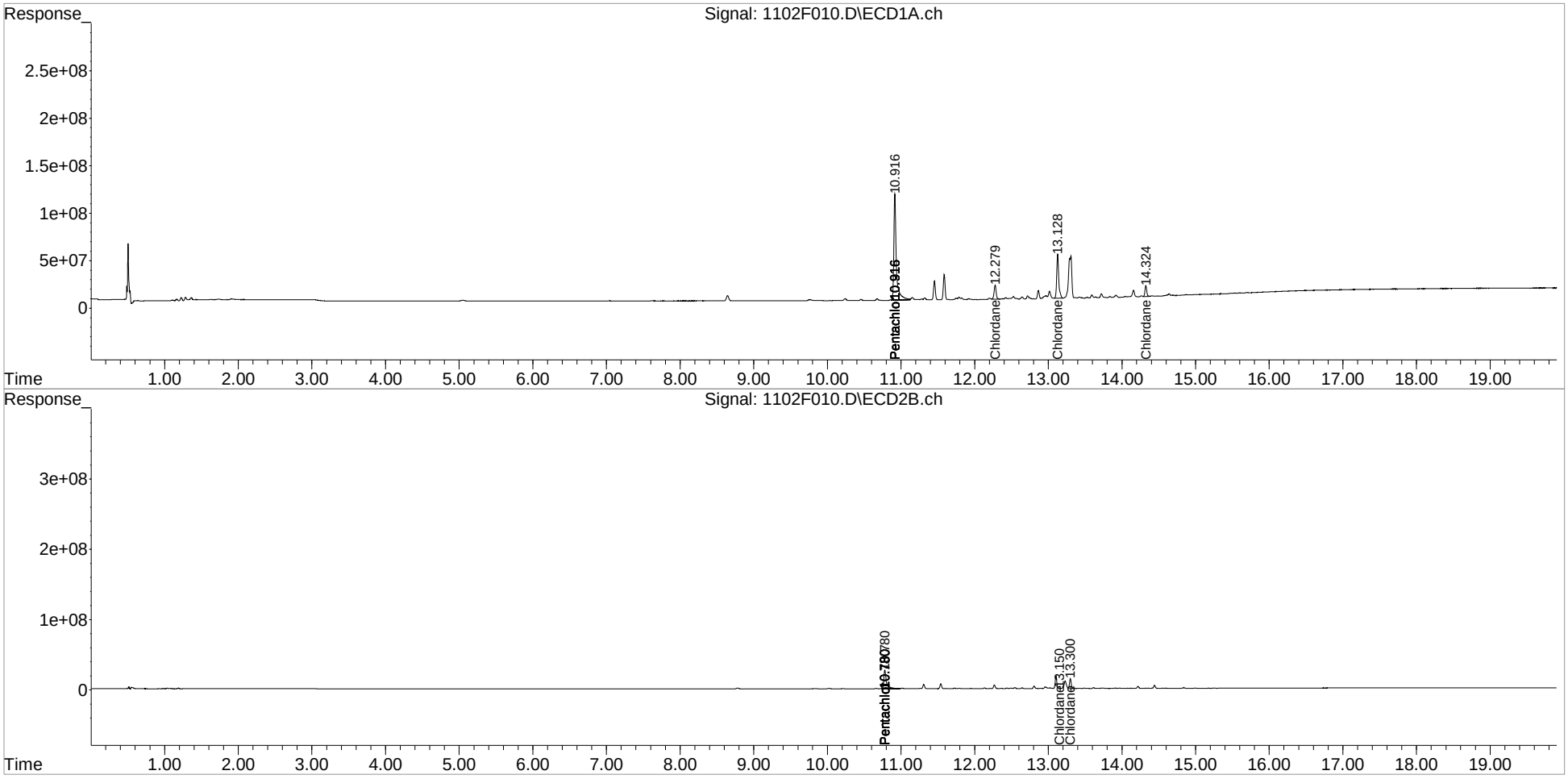
1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F010.D Vial: 98
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 09:06 pm Operator:
Sample : CHLOR DWSD83D 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:38:34 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st BB 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F009.D\
Lab ID: KQ2318956-02.R02
RunType: CCV
Matrix: Water

Date Acquired: 11/2/23 20:42:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	272585034	48515187	194060748	CCVOK
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	68253634	100430009	401720034	CCVOK
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.91			SA
	Pentachloronitrobenzene {2}	10.91			
	Pentachloronitrobenzene {3}	10.91			
	Pentachloronitrobenzene{4}	10.91			
	Pentachloronitrobenzene{5}	10.91			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.78			
	Pentachloronitrobenzene {2}	10.78			
	Pentachloronitrobenzene {3}	10.78			
	Pentachloronitrobenzene{4}	10.78			
	Pentachloronitrobenzene{5}	10.78			

Primary Review: _____

Secondary Review: _____

1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F009.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 20:42:00	**Vial:**	9
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02.R02	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821752	**Prep Lot:**		**Report Group:**	KQ2318956
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.91	c	10.78	c	272585034*	68253634	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {2}	10.91	c	10.78	c	272585034	68253634*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.91	c	10.78	c	272585034	68253634	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.91	c	10.78	c	272585034	68253634	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.91	c	10.78	c	272585034	68253634	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Aroclor 1016					0.000	0.000	0	0	N
Aroclor 1221					0.000	0.000	0	0	N
Aroclor 1232					0.000	0.000	0	0	N
Aroclor 1242					0.000	0.000	0	0	N
Aroclor 1248					0.000	0.000	0	0	N
Aroclor 1254					0.000	0.000	0	0	N
Aroclor 1260					0.000	0.000	0	0	N
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F009.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 20:42:00	**Vial:**	9
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02.R02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
beta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
delta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Chlordane					0.000	0.000	0	0	N
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N

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E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st BB 11/07/23
2nd AA 11/07/23

Data File:	J:\GC33\DATA\110223\1102F009.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 20:42:00	**Vial:**	9
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2318956-02.R02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2		Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Toxaphene					388.180	616.220	388	616	P	N
Toxaphene {1}	14.40	14.36	38385238	10251638	405.467	1007.116	405	1010	P	
Toxaphene {2}	14.82	0.00	26788609	0	390.857	0.000	391	0.00		
Toxaphene {3}	15.26	0.00	25706819	0	378.921	0.000	379	0.00		
Toxaphene {4}	15.40	15.53	21162786	4258266	377.462	225.315	377	225	P	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F009.D Vial: 97
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 08:42 pm Operator:
Sample : TOX DWSTD08-83C 500PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:34:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.915	10.778	272.6E6	68253634	50.000	50.000	
26)	I Pentachlo...	10.915	10.778	272.6E6	68253634	50.000	50.000	
34)	I Pentachlo...	10.915	10.778	272.6E6	68253634	50.000	50.000	
51)	I Pentachlo...	10.915	10.778	272.6E6	68253634	50.000	50.000	
60)	I Pentachlo...	10.915	10.778	272.6E6	68253634	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
27)	L1 Toxaphene	14.397f	14.363	38385238	10251638	405.467	1007.116	#
28)	L1 Toxaphene...	14.823f	0.000	26788609	0	390.857	N.D.	#
29)	L1 Toxaphene...	15.259	0.000	25706819	0	378.921	N.D.	#
30)	L1 Toxaphene...	15.398	15.533	21162786	4258266	377.462	225.315	#
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

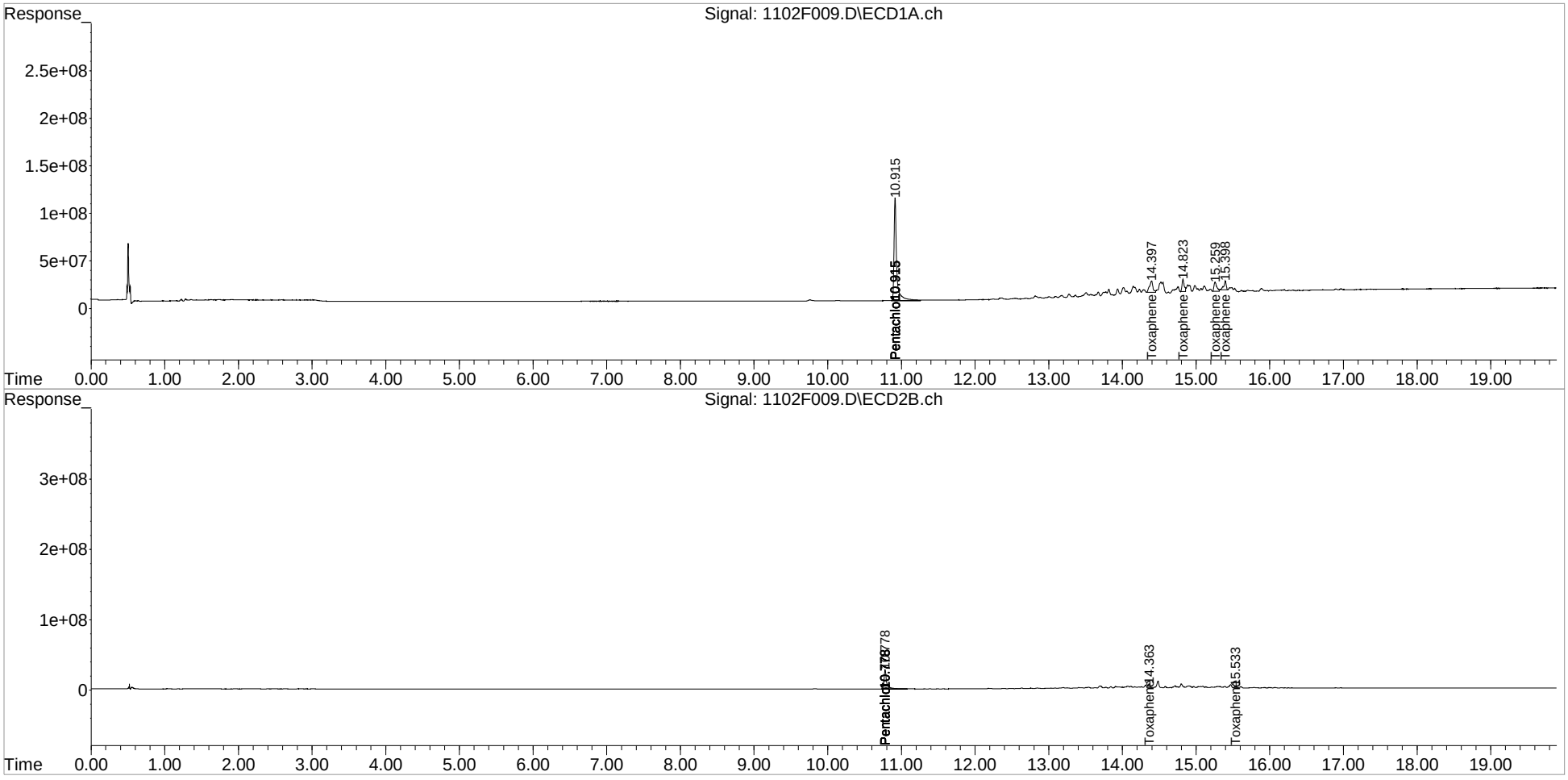
1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F009.D Vial: 97
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 08:42 pm Operator:
Sample : TOX DWSTD08-83C 500PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:34:33 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Fri Nov 03 09:43:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st BB 11/08/23
2nd AA 11/08/23

Validation Report

Data File: J:\GC33\DATA\110723\1107F004.D\
Lab ID: KQ2319839-01
RunType: CCV
Matrix: Wastewater

Date Acquired: 11/7/23 10:41:00
Batch ID: 823308
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	470726317	48515187	194060748	CCVOK
	Pentachloronitrobenzene {2}	470726317	74151738	296606950	
	Pentachloronitrobenzene {3}	470726317	82245283	328981132	
	Pentachloronitrobenzene{4}	470726317	83812990	335251958	
	Pentachloronitrobenzene{5}	470726317	82556464	330225854	
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	86426706	100430009	401720034	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.90			SA
	Pentachloronitrobenzene {2}	10.90			
	Pentachloronitrobenzene {3}	10.90			
	Pentachloronitrobenzene{4}	10.90			
	Pentachloronitrobenzene{5}	10.90			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			
	Pentachloronitrobenzene {2}	10.77			
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

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Secondary Review: _____

1st B B 11/08/23
2nd AA 11/08/23

Quantitation Report

Data File:	J:\GC33\DATA\110723\1107F004.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 10:41:00	**Vial:**	4
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	PEST_PCB	**Collect Date:**	10/18/23	**Receive Date:**	10/20/23

Analysis Lot:	823308	**Prep Lot:**		**Report Group:**	KQ2319839
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.90	c	10.77	c	470726317*	86426706	50.000	50.000		
Pentachloronitrobenzene {2}	10.90	c	10.77	c	470726317*	86426706*	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {3}	10.90	c	10.77	c	470726317*	86426706	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.90	c	10.77	c	470726317*	86426706	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.90	c	10.77	c	470726317*	86426706	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2		Rpt?
Decachlorobiphenyl	17.18	17.50	343742989	90111801	57.821	97.608			P	Y
Tetrachloro-m-xylene	8.80	8.71	387302961	186233797	76.662	98.189				Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	12.04	12.02	762852334	180238835	79.093	89.442	79.1	89.4	Y
Aroclor 1016					0.000	0.000	0	0	N
Aroclor 1221					0.000	0.000	0	0	Y
Aroclor 1232					0.000	0.000	0	0	Y
Aroclor 1242					0.000	0.000	0	0	Y
Aroclor 1248					0.000	0.000	0	0	Y
Aroclor 1254					0.000	0.000	0	0	Y
Aroclor 1260					0.000	0.000	0	0	N
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/08/23

2nd AA 11/08/23

Data File:	J:\GC33\DATA\110723\1107F004.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 10:41:00	**Vial:**	4
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
alpha-BHC	10.12	10.15	977752026	230985355	82.513	99.579	82.5	99.6	Y
beta-BHC	10.94	11.01	322339213	88620465	95.784	104.656	95.8	105	Y
delta-BHC	11.24	11.48	849726761	184889088	81.336	96.998	81.3	97.0	Y
gamma-BHC (Lindane)	10.76	10.83	893040625	214503027	81.664	101.259	81.7	101	Y
Chlordane					0.000	0.000	0	0	N
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
4,4'-DDD	14.16	14.24	351936956	109834259	79.536	100.568	79.5	101	Y
4,4'-DDE	13.39	13.52	523478044	142386643	84.278	102.035	84.3	102	Y
4,4'-DDT	14.51	14.62	340778684	86510502	79.208	83.803	79.2	83.8	Y
Dieldrin	13.80	13.73	570128455	150975798	78.722	93.762	78.7	93.8	Y
Endosulfan I	13.48	13.37	527941406	135939098	78.438	93.781	78.4	93.8	Y
Endosulfan II	14.39	14.38	408595171	117444969	70.794	96.814	70.8	96.8	Y
Endosulfan Sulfate	15.50	15.14	298379346	88251784	59.282	84.755	59.3	84.8	Y
Endrin	14.11	14.11	493424713	132151749	86.340	108.070	86.3	108	Y
Endrin Aldehyde	14.92	14.79	273233112	86210755	62.453	92.446	62.5	92.4	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st BB 11/08/23
2nd AA 11/08/23

Data File:	J:\GC33\DATA\110723\1107F004.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 10:41:00	**Vial:**	4
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	11.57	11.54	803670398	160995330	89.395	87.784	89.4	87.8	Y
Heptachlor Epoxide	12.94	12.85	620923474	152576084	79.368	91.935	79.4	91.9	Y
Toxaphene					0.000	0.000	0	0	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 10:41 am Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:02:22 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	10.897	10.771	470.7E6	86426706	50.000	50.000	
26)	I	Pentachlo...	10.897f	10.771	470.7E6	86426706	50.000	50.000	
34)	I	Pentachlo...	10.897f	10.771	470.7E6	86426706	50.000	50.000	
51)	I	Pentachlo...	10.897f	10.771	470.7E6	86426706	50.000	50.000	
60)	I	Pentachlo...	10.897f	10.771	470.7E6	86426706	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.802	8.714	387.3E6	186.2E6	76.662	98.189	#
25)	S	Decachlor...	17.177	17.502	343.7E6	90111801	57.821	97.608	#
		Target Compounds							
3)	m	alpha-BHC	10.123	10.145	977.8E6	231.0E6	82.513	99.579	
5)	m	gamma-BHC...	10.758	10.826	893.0E6	214.5E6	81.664	101.259	
6)	m	beta-BHC	10.943	11.008	322.3E6	88620465	95.784	104.656	
7)	m	delta-BHC	11.241	11.478	849.7E6	184.9E6	81.336	96.998	
8)	m	Heptachlor	11.574	11.538	803.7E6	161.0E6	89.395	87.784	
9)	m	Aldrin	12.044	12.023	762.9E6	180.2E6	79.093	89.442	
11)	m	Heptachlo...	12.939	12.847	620.9E6	152.6E6	79.368	91.935	
12)	m	beta-Chlo...	13.111	13.103	600.0E6	149.1E6	77.108	90.439	
13)	m	alpha-Chl...	13.293	13.297	561.1E6	142.8E6	77.179	89.519	
14)	m	4,4'-DDE	13.393	13.519	523.5E6	142.4E6	84.278	102.035	
15)	m	Endosulfan I	13.479	13.368	527.9E6	135.9E6	78.438	93.781	
16)	m	Dieldrin	13.799	13.726	570.1E6	151.0E6	78.722	93.762	
17)	m	Endrin	14.106	14.114	493.4E6	132.2E6	86.340	108.070	#
18)	m	4,4'-DDD	14.163	14.240	351.9E6	109.8E6	79.536	100.568	#
19)	m	Endosulfa...	14.394	14.379	408.6E6	117.4E6	70.794	96.814	#
20)	m	4,4'-DDT	14.513	14.622	340.8E6	86510502	79.208	83.803	
21)	m	Endrin Al...	14.922	14.793	273.2E6	86210755	62.453	92.446	#
22)	m	Methoxychlor	15.084	15.458	158.0E6	43149750	75.937	95.328	#
23)	m	Endosulfa...	15.501	15.137	298.4E6	88251784	59.282	84.755	#
24)	m	Endrin Ke...	15.892	15.859	372.7E6	107.0E6	65.338	97.534	#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

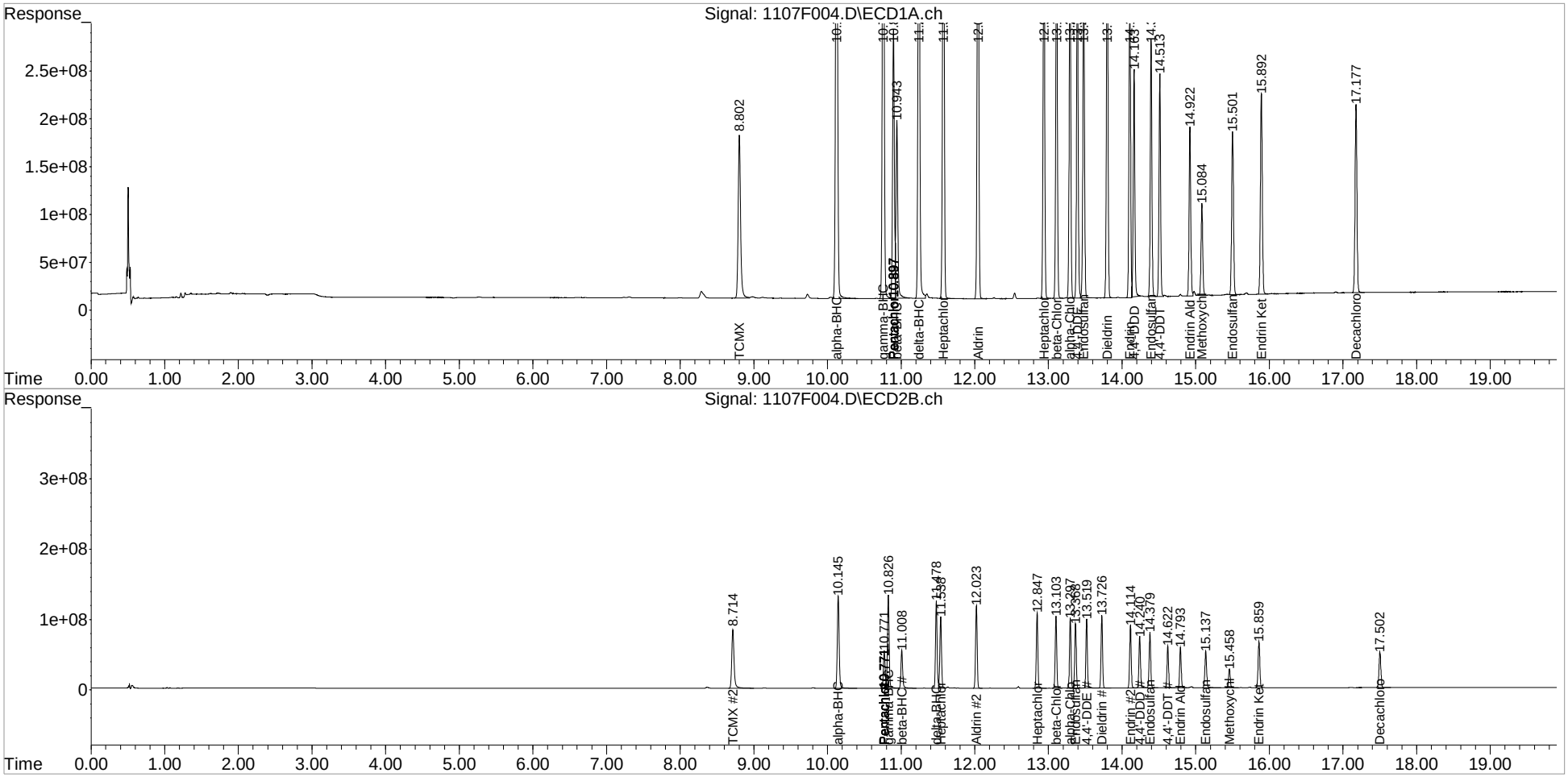
1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110723\1107F004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 10:41 am Operator:
Sample : DWSTD08-85L 608 75PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:02:22 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Validation Report

1st BB 11/08/23
2nd AA 11/08/23

Data File: J:\GC33\DATA\110723\1107F005.D\
Lab ID: KQ2319839-01.R01
RunType: CCV
Matrix: Wastewater

Date Acquired: 11/7/23 11:06:00
Batch ID: 823308
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	489785555	48515187	194060748	CCVOK
	Pentachloronitrobenzene {2}	489785555	74151738	296606950	
	Pentachloronitrobenzene {3}	489785555	82245283	328981132	
	Pentachloronitrobenzene{4}	489785555	83812990	335251958	
	Pentachloronitrobenzene{5}	489785555	82556464	330225854	
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	93866287	100430009	401720034	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.90			SA
	Pentachloronitrobenzene {2}	10.90			
	Pentachloronitrobenzene {3}	10.90			
	Pentachloronitrobenzene{4}	10.90			
	Pentachloronitrobenzene{5}	10.90			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			
	Pentachloronitrobenzene {2}	10.77			
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

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Secondary Review: _____

1st B B 11/08/23
2nd AA 11/08/23

Quantitation Report

Data File:	J:\GC33\DATA\110723\1107F005.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 11:06:00	**Vial:**	5
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01.R01	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	PEST_PCB	**Collect Date:**	10/18/23	**Receive Date:**	10/20/23

Analysis Lot:	823308	**Prep Lot:**		**Report Group:**	KQ2319839
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2			
Pentachloronitrobenzene (PCNB)	10.90	c	10.77	c	489785555*	93866287	50.000	50.000	50.000	50.000	
Pentachloronitrobenzene {2}	10.90	c	10.77	c	489785555*	93866287*	50.000	50.000	50.000	50.000	
Pentachloronitrobenzene {3}	10.90	c	10.77	c	489785555*	93866287	50.000	50.000			
Pentachloronitrobenzene {4}	10.90	c	10.77	c	489785555*	93866287	50.000	50.000	50.000	50.000	
Pentachloronitrobenzene {5}	10.90	c	10.77	c	489785555*	93866287	50.000	50.000	50.000	50.000	

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2		Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Aroclor 1016					190.530	334.310	191	334	P	Y
Aroclor 1221					0.000	0.000	0	0		N
Aroclor 1232					0.000	0.000	0	0		N
Aroclor 1242					0.000	0.000	0	0		N
Aroclor 1248					0.000	0.000	0	0		N
Aroclor 1254					0.000	0.000	0	0		N
Aroclor 1260					182.750	292.250	183	292	P	Y
Aroclor 1016 {1}	11.17	11.01	7661311	6573771	177.687	331.579	178	332	P	
Aroclor 1016 {2}	11.26	11.07	19251480	9760256	155.200	371.630	155	372	P	
Aroclor 1016 {3}	11.29	11.25	42513980	3547530	242.585	266.358	243	266		
Aroclor 1016 {4}	11.50	11.29	22604079	3118227	186.633	367.662	187	368	P	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/08/23
2nd AA 11/08/23

Data File:	J:\GC33\DATA\110723\1107F005.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 11:06:00	**Vial:**	5
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01.R01	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?	
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Aroclor 1254 {5}										
Aroclor 1260 {1}	14.93	15.10	28223137	18345394	176.317	292.920	176	293	P	
Aroclor 1260 {2}	14.99	15.19	14321361	9099335	168.855	249.485	169	249		
Aroclor 1260 {3}	15.05	15.27	9043369	6345676	184.615	314.976	185	315	P	
Aroclor 1260 {4}	15.24	15.31	8530407	4302904	201.232	311.635	201	312	P	
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
beta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
delta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Chlordane					0.000	0.000	0	0		N
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000		
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st B B 11/08/23

2nd A A 11/08/23

Data File:	J:\GC33\DATA\110723\1107F005.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 11:06:00	**Vial:**	5
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01.R01	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Toxaphene					0.000	0.000	0	0	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F005.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 11:06 am Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:10:10 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.895	10.770	489.8E6	93866287	50.000	50.000	
26)	I Pentachlo...	10.895f	10.770	489.8E6	93866287	50.000	50.000	
34)	I Pentachlo...	10.895f	10.770	489.8E6	93866287	50.000	50.000	
51)	I Pentachlo...	10.895f	10.770	489.8E6	93866287	50.000	50.000	
60)	I Pentachlo...	10.895f	10.770	489.8E6	93866287	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
35)	L3 Aroclor 1016	11.172	11.014	7661311	6573771	177.687	331.579	#
36)	L3 Aroclor 1...	11.255	11.065	19251480	9760256	155.200	371.630	#
37)	L3 Aroclor 1...	11.290	11.249	42513980	3547530	242.585	266.358	
38)	L3 Aroclor 1...	11.498	11.291	22604079	3118227	186.633m	367.662	#
39)	L4 Aroclor 1260	14.930	15.102	28223137	18345394	176.317	292.920	#
40)	L4 Aroclor 1...	14.986	15.194	14321361	9099335	168.855	249.485	#
41)	L4 Aroclor 1...	15.047	15.268	9043369	6345676	184.615	314.976	#
42)	L4 Aroclor 1...	15.239f	15.314	8530407	4302904	201.232	311.635	#
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

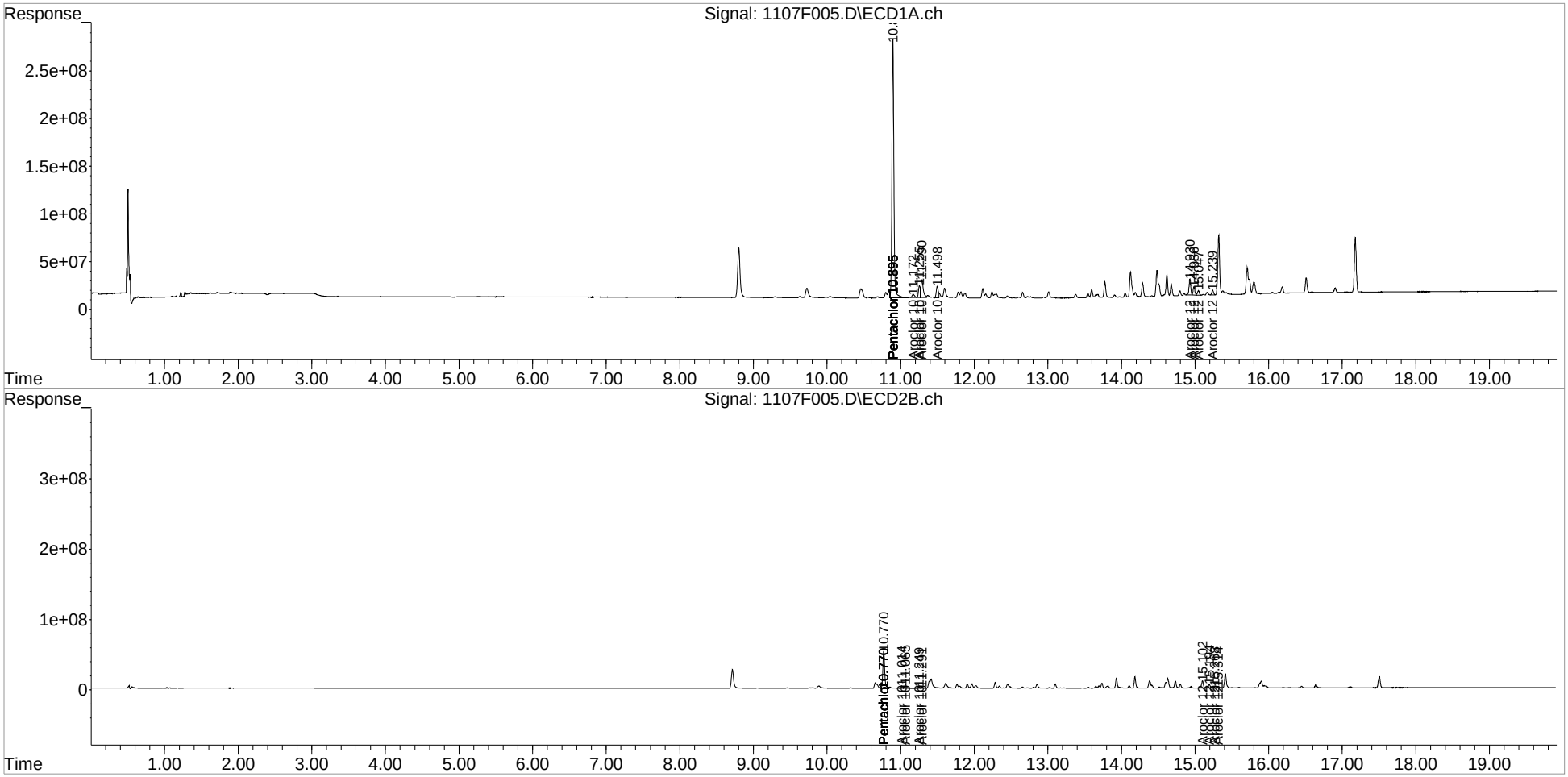
1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110723\1107F005.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 11:06 am Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:10:10 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



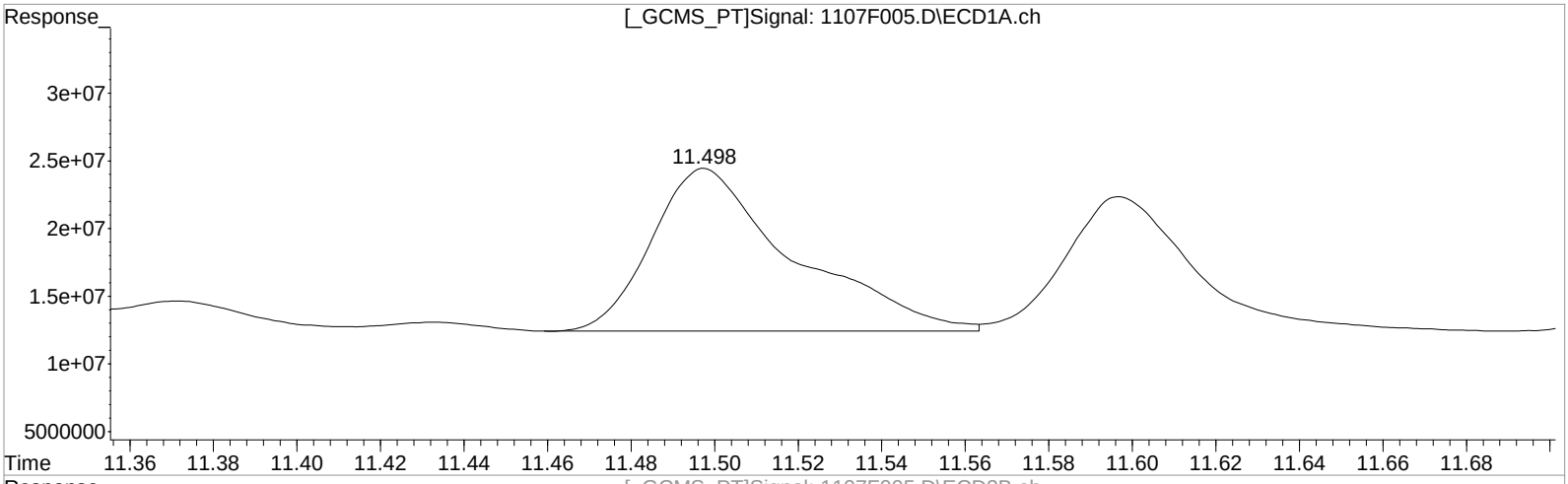
Quantitation Report (Qedit)

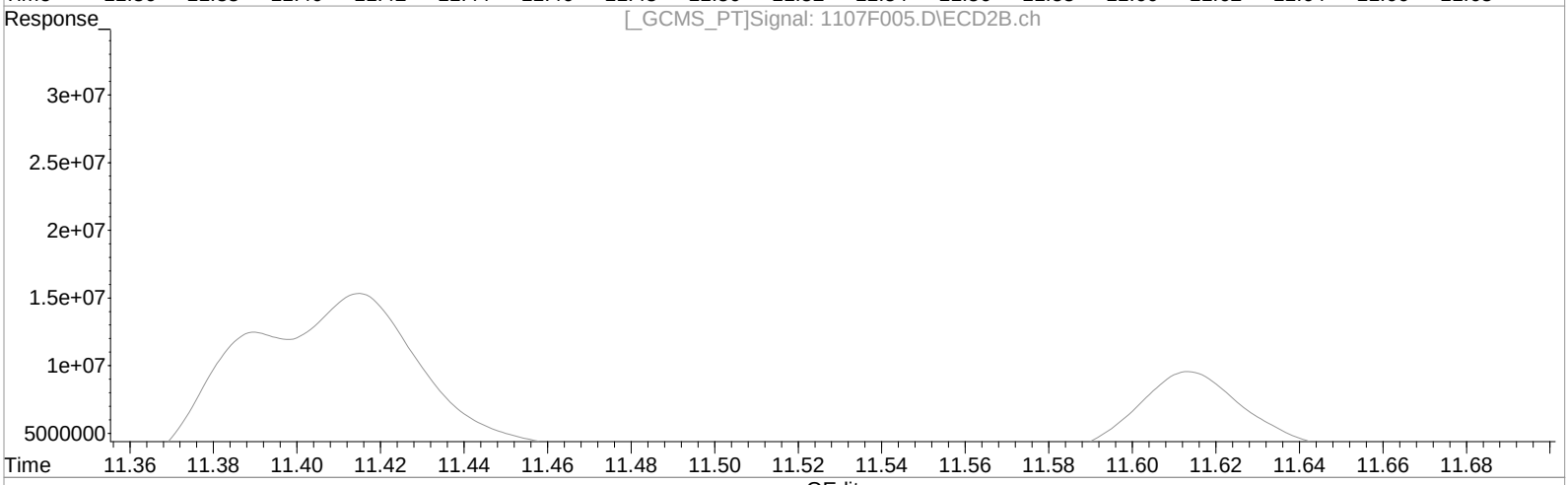
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F005.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 11:06 am Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(38) Aroclor 1016 {4} #2 (L3)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

11/08/23

(38) Aroclor 1016 {4} #2 (L3)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

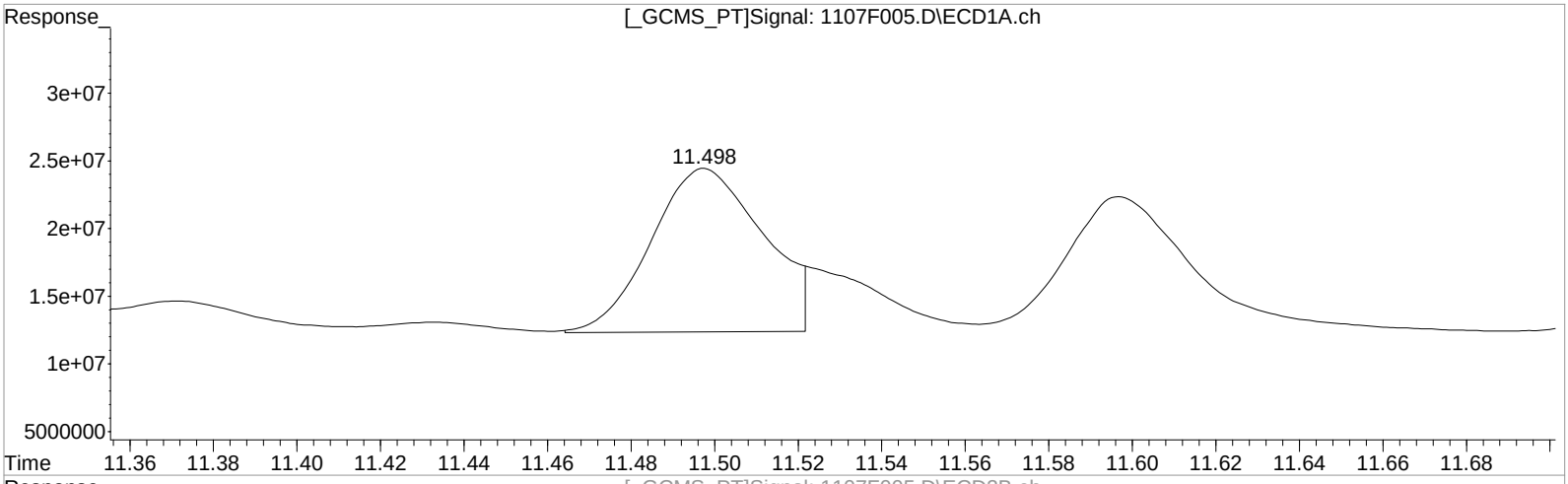
Quantitation Report (Qedit)

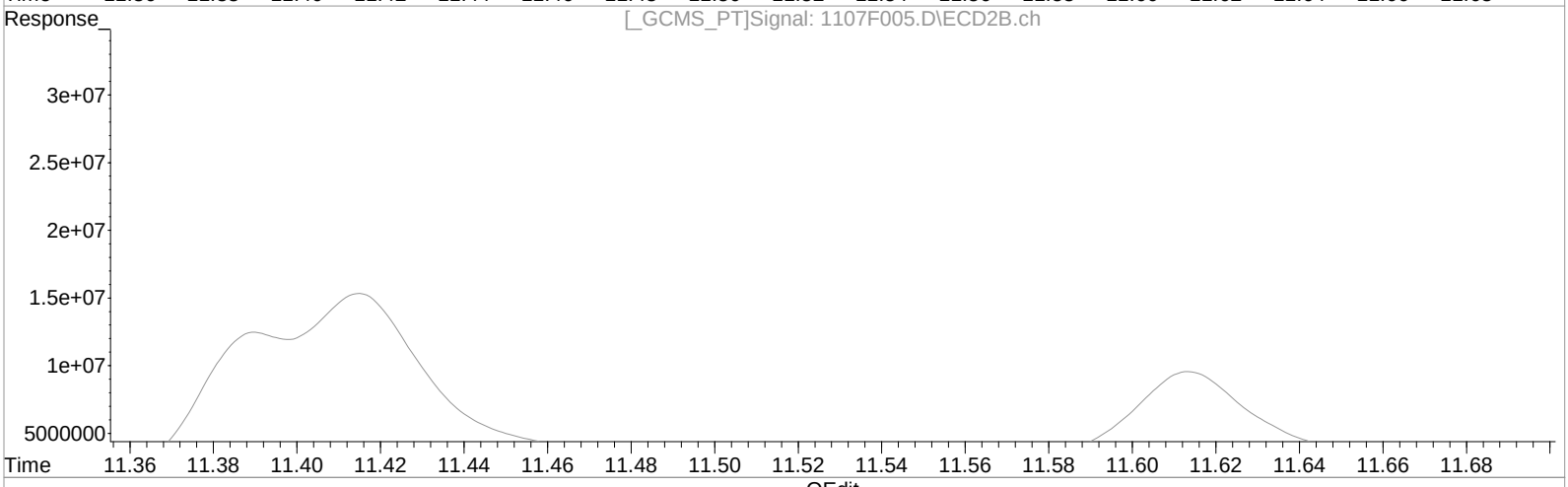
1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F005.D Vial: 96
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 11:06 am Operator:
Sample : PCB9-50J 1600 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 09:54:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(38) Aroclor 1016 {4} #2 (L3)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

11/08/23

(38) Aroclor 1016 {4} #2 (L3)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

1st BB 11/08/23
2nd AA 11/08/23

Validation Report

Data File: J:\GC33\DATA\110723\1107F007.D\
Lab ID: KQ2319839-01.R03
RunType: CCV
Matrix: Wastewater

Date Acquired: 11/7/23 11:55:00
Batch ID: 823308
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	477015346	48515187	194060748	CCVOK
	Pentachloronitrobenzene {2}	477015346	74151738	296606950	
	Pentachloronitrobenzene {3}	477015346	82245283	328981132	
	Pentachloronitrobenzene{4}	477015346	83812990	335251958	
	Pentachloronitrobenzene{5}	477015346	82556464	330225854	
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	92212391	100430009	401720034	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.90			SA
	Pentachloronitrobenzene {2}	10.90			
	Pentachloronitrobenzene {3}	10.90			
	Pentachloronitrobenzene{4}	10.90			
	Pentachloronitrobenzene{5}	10.90			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			
	Pentachloronitrobenzene {2}	10.77			
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

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Secondary Review: _____

1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report

Data File:	J:\GC33\DATA\110723\1107F007.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 11:55:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01.R03	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	PEST_PCB	**Collect Date:**	10/18/23	**Receive Date:**	10/20/23

Analysis Lot:	823308	**Prep Lot:**		**Report Group:**	KQ2319839
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.90	c	10.77	c	477015346*	92212391	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {2}	10.90	c	10.77	c	477015346*	92212391*	50.000	50.000		
Pentachloronitrobenzene {3}	10.90	c	10.77	c	477015346*	92212391	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.90	c	10.77	c	477015346*	92212391	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.90	c	10.77	c	477015346*	92212391	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Aroclor 1016					0.000	0.000	0	0	N
Aroclor 1221					0.000	0.000	0	0	N
Aroclor 1232					0.000	0.000	0	0	N
Aroclor 1242					0.000	0.000	0	0	N
Aroclor 1248					0.000	0.000	0	0	N
Aroclor 1254					0.000	0.000	0	0	N
Aroclor 1260					0.000	0.000	0	0	N
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st B B 11/08/23
2nd A A 11/08/23

Data File:	J:\GC33\DATA\110723\1107F007.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 11:55:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01.R03	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
beta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
delta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Chlordane					157.980	225.660	158	226	Y
Chlordane {1}	12.26	12.26	49483991	13396847	176.177	237.162	176	237	
Chlordane {2}	13.11	13.10	152949307	40736100	149.454	221.014	149	221	
Chlordane {3}	14.31	13.23	31414895	33458817	148.308	218.805	148	219	
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st BB 11/08/23

2nd AA 11/08/23

Data File:	J:\GC33\DATA\110723\1107F007.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 11:55:00	**Vial:**	7
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01.R03	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Toxaphene					0.000	0.000	0	0	N
Toxaphene {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Toxaphene {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F007.D Vial: 98
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 11:55 am Operator:
Sample : CHLOR DWSD83D 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:14:29 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.895	10.770	477.0E6	92212391	50.000	50.000	
26)	I Pentachlo...	10.895f	10.770	477.0E6	92212391	50.000	50.000	
34)	I Pentachlo...	10.895f	10.770	477.0E6	92212391	50.000	50.000	
51)	I Pentachlo...	10.895f	10.770	477.0E6	92212391	50.000	50.000	
60)	I Pentachlo...	10.895f	10.770	477.0E6	92212391	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
31)	L2 Chlordane	12.262	12.263	49483991	13396847	176.177	237.162	#
32)	L2 Chlordane...	13.109	13.102	152.9E6	40736100	149.454	221.014	#
33)	L2 Chlordane...	14.305	13.227	31414895	33458817	148.308	218.805	#
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

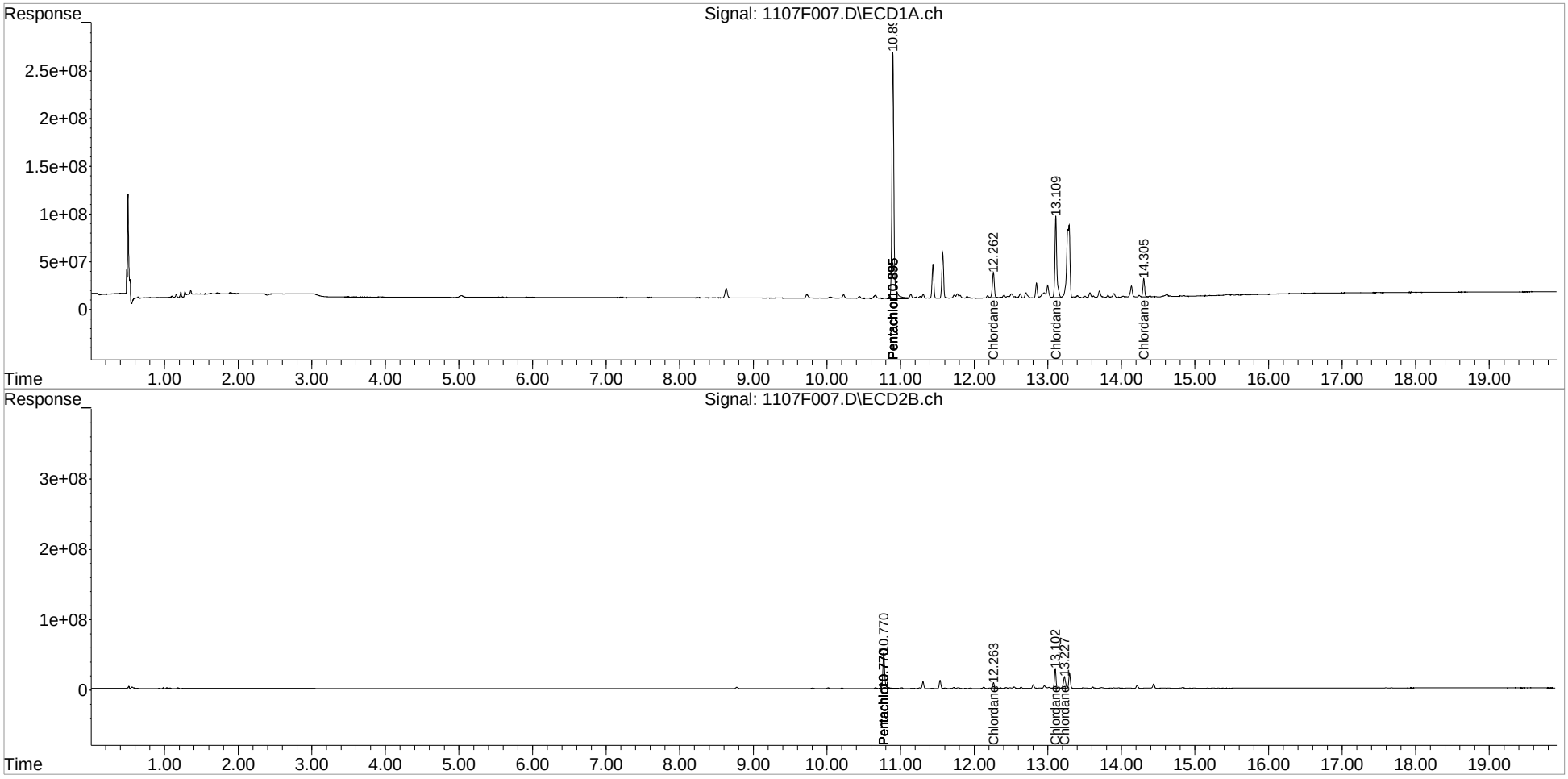
1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110723\1107F007.D Vial: 98
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 11:55 am Operator:
Sample : CHLOR DWSD83D 200PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:14:29 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st B B 11/08/23
2nd AA 11/08/23

Validation Report

Data File: J:\GC33\DATA\110723\1107F006.D\
Lab ID: KQ2319839-01.R02
RunType: CCV
Matrix: Wastewater

Date Acquired: 11/7/23 11:31:00
Batch ID: 823308
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards		X
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards - RTX-CLP	Pentachloronitrobenzene (PCNB)	470428652	48515187	194060748	CCVOK
	Pentachloronitrobenzene {2}	470428652	74151738	296606950	
	Pentachloronitrobenzene {3}	470428652	82245283	328981132	
	Pentachloronitrobenzene{4}	470428652	83812990	335251958	
	Pentachloronitrobenzene{5}	470428652	82556464	330225854	
Internal Standards - RTX-CLP2	Pentachloronitrobenzene {2}	92846693	100430009	401720034	
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.90			SA
	Pentachloronitrobenzene {2}	10.90			
	Pentachloronitrobenzene {3}	10.90			
	Pentachloronitrobenzene{4}	10.90			
	Pentachloronitrobenzene{5}	10.90			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			
	Pentachloronitrobenzene {2}	10.77			
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

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Secondary Review: _____

1st B B 11/08/23
2nd A A 11/08/23

Quantitation Report

Data File:	J:\GC33\DATA\110723\1107F006.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 11:31:00	**Vial:**	6
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01.R02	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	PEST_PCB	**Collect Date:**	10/18/23	**Receive Date:**	10/20/23

Analysis Lot:	823308	**Prep Lot:**		**Report Group:**	KQ2319839
Analysis Method:	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1		RT 2		Resp 1	Resp 2	Solution Conc 1	Solution Conc 2		
Pentachloronitrobenzene (PCNB)	10.90	c	10.77	c	470428652*	92846693	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {2}	10.90	c	10.77	c	470428652*	92846693*	50.000	50.000		
Pentachloronitrobenzene {3}	10.90	c	10.77	c	470428652*	92846693	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {4}	10.90	c	10.77	c	470428652*	92846693	50.000	50.000	50.000	50.000
Pentachloronitrobenzene {5}	10.90	c	10.77	c	470428652*	92846693	50.000	50.000	50.000	50.000

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
Decachlorobiphenyl	0.00	0.00	0	0	0.000	0.000			N
Tetrachloro-m-xylene	0.00	0.00	0	0	0.000	0.000			N

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Aroclor 1016					0.000	0.000	0	0	N
Aroclor 1221					0.000	0.000	0	0	N
Aroclor 1232					0.000	0.000	0	0	N
Aroclor 1242					0.000	0.000	0	0	N
Aroclor 1248					0.000	0.000	0	0	N
Aroclor 1254					0.000	0.000	0	0	N
Aroclor 1260					0.000	0.000	0	0	N
Aroclor 1016 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1016 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/08/23
2nd AA 11/08/23

Data File:	J:\GC33\DATA\110723\1107F006.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 11:31:00	**Vial:**	6
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01.R02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
Aroclor 1221 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1221 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1232 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1242 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1248 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1254 {5}									
Aroclor 1260 {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Aroclor 1260 {4}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
alpha-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
beta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
delta-BHC	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
gamma-BHC (Lindane)	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Chlordane					0.000	0.000	0	0	N
Chlordane {1}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {2}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
Chlordane {3}	0.00	0.00	0	0	0.000	0.000	0.000	0.000	
4,4'-DDD	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDE	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
4,4'-DDT	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Dieldrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan I	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan II	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endosulfan Sulfate	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N
Endrin Aldehyde	0.00	0.00	0	0	0.000	0.000	0.000	0.000	N

U: Undetected at or above MDL
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B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st B B 11/08/23

2nd A A 11/08/23

Data File:	J:\GC33\DATA\110723\1107F006.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 11:31:00	**Vial:**	6
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319839-01.R02	**Raw Units:**	ug/L

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2		Rpt?
Heptachlor	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Heptachlor Epoxide	0.00	0.00	0	0	0.000	0.000	0.000	0.000		N
Toxaphene					382.440	519.250	382	519		Y
Toxaphene {1}	14.38	14.32	63645377	6003759	389.553	468.563	390	469		
Toxaphene {2}	14.80	14.36	42277411	14199387	357.424	540.209	357	540	P	
Toxaphene {3}	15.24	14.48	43824094	28406678	374.302	530.094	374	530		
Toxaphene {4}	15.38	15.47	39525509	13835171	408.495	538.148	408	538		

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st BB 11/08/23
2nd AA 11/08/23

Data File : J:\GC33\DATA\110723\1107F006.D Vial: 97
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 11:31 am Operator:
Sample : TOX DWSTD08-83C 500PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:12:43 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	10.897	10.772	470.4E6	92846693	50.000	50.000	
26)	I Pentachlo...	10.897f	10.772	470.4E6	92846693	50.000	50.000	
34)	I Pentachlo...	10.897f	10.772	470.4E6	92846693	50.000	50.000	
51)	I Pentachlo...	10.897f	10.772	470.4E6	92846693	50.000	50.000	
60)	I Pentachlo...	10.897f	10.772	470.4E6	92846693	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
27)	L1 Toxaphene	14.378	14.315	63645377	6003759	389.553	468.563	
28)	L1 Toxaphene...	14.804	14.363	42277411	14199387	357.424	540.209	#
29)	L1 Toxaphene...	15.239	14.483	43824094	28406678	374.302	530.094	#
30)	L1 Toxaphene...	15.377	15.470	39525509	13835171	408.495	538.148	#
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

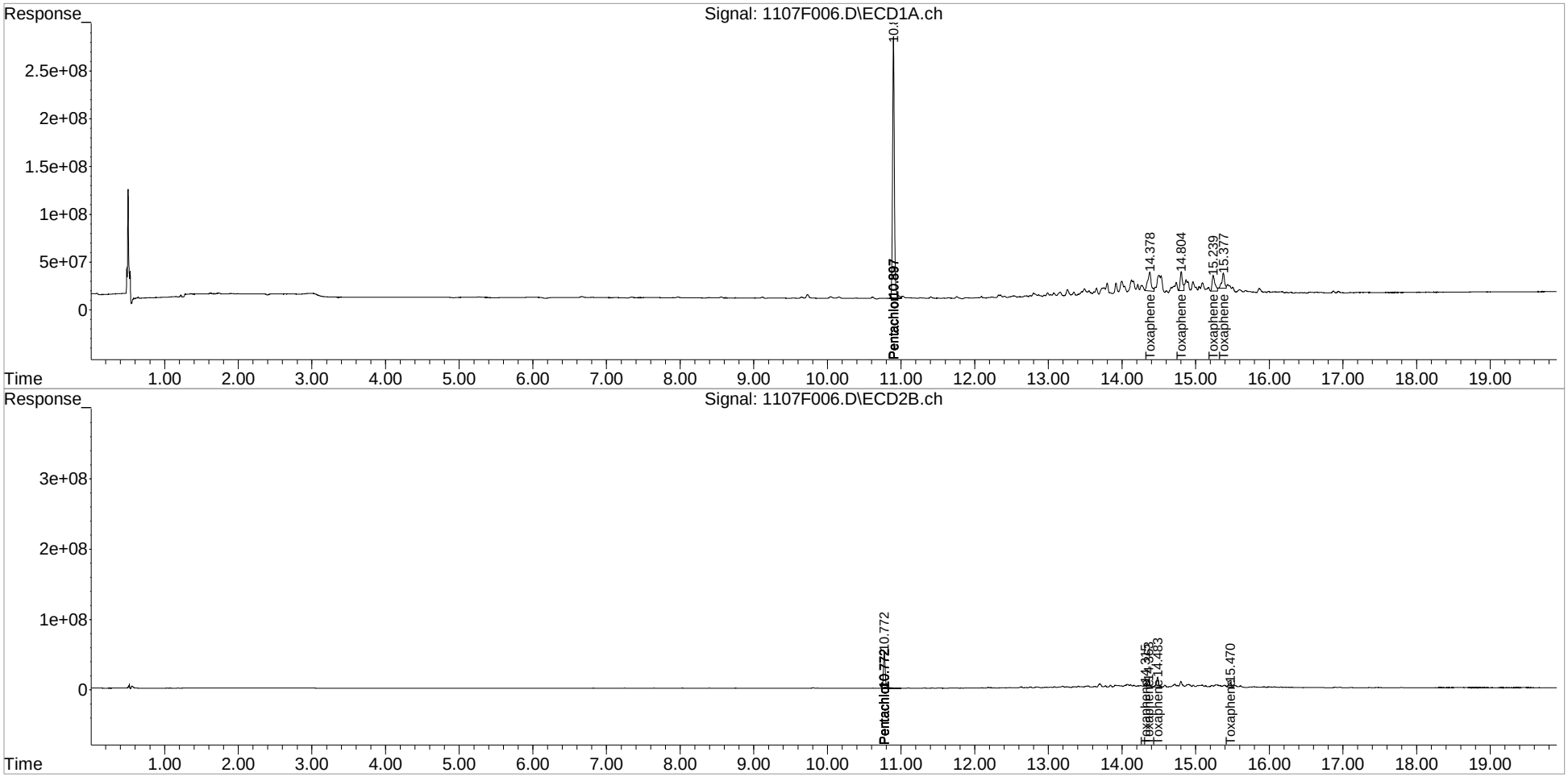
1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110723\1107F006.D Vial: 97
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 11:31 am Operator:
Sample : TOX DWSTD08-83C 500PPB Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:12:43 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Sun Nov 05 06:26:12 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st BB 11/03/23
2nd AA 11/06/23

Validation Report

Data File: J:\GC33\DATA\110123\1101F003.D\
Lab ID: KQ2318924-01
RunType: PEM
Matrix: Water

Date Acquired: 11/1/23 13:10:00
Batch ID: 821707
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.98			SA
	Pentachloronitrobenzene {2}	10.98			
	Pentachloronitrobenzene {3}	10.98			
	Pentachloronitrobenzene{4}	10.98			
	Pentachloronitrobenzene{5}	10.98			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.82			
	Pentachloronitrobenzene {2}	10.82			
	Pentachloronitrobenzene {3}	10.82			
	Pentachloronitrobenzene{4}	10.82			
	Pentachloronitrobenzene{5}	10.82			

Primary Review: _____

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Secondary Review: _____

1st B B 11/03/23
2nd A A 11/06/23

Quantitation Report

Data File:	J:\GC33\DATA\110123\1101F003.D\	**Instrument:**	K-GC-33
Acqu Date:	11/1/23 13:10:00	**Vial:**	13
Run Type:	PEM	**Dilution:**	1
Lab ID:	KQ2318924-01	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821707	**Prep Lot:**		**Report Group:**	KQ2318924
Analysis	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
Pentachloronitrobenzene (PCNB)	10.98	10.82	230705579 N	62486658 N	50.000	50.000 CCV
Pentachloronitrobenzene {2}	10.98	10.82	232918570 N	63045359 N	50.000	50.000 CCV
Pentachloronitrobenzene {3}	10.98	10.82	232918570 N	63045359 N	50.000	50.000 CCV
Pentachloronitrobenzene {4}	10.98	10.82	232918570 N	63045359 N	50.000	50.000 CCV
Pentachloronitrobenzene {5}	10.98	10.82	232918570 N	63045359 N	50.000	50.000 CCV

Breakdown Results

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Percent Breakdown 1	Percent Breakdown 2
4,4'-DDD	14.25	14.29	795971	254301		
4,4'-DDE	13.48	13.56	389669	204648	pass <15%	pass <15%
4,4'-DDT	14.60	14.67	19290965	6310113	5.8	6.8
Endrin	14.20	14.16	13619224	4818101	0.0	1.6
Endrin Aldehyde	0.00	0.00	0	0		
Endrin Ketone	0.00	15.91	0	80085		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:19:39 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		Internal Standards						
1)	I	Pentachlo...	10.983	10.818	230.7E6	62486658	50.000m	50.000m
26)	I	Pentachlo...	10.983	10.818	232.9E6	63045359	50.000	50.000
34)	I	Pentachlo...	10.983	10.818	232.9E6	63045359	50.000	50.000
51)	I	Pentachlo...	10.983	10.818	232.9E6	63045359	50.000	50.000
60)	I	Pentachlo...	10.983	10.818	232.9E6	63045359	50.000	50.000
		System Monitoring Compounds						
		Target Compounds						
14)	m	4,4'-DDE	13.477	13.564	389669	204648	0.128	0.203 #
17)	m	Endrin	14.196	14.164	13619224	4818101	4.862m	5.450m
18)	m	4,4'-DDD	14.254	14.289	795971	254301	0.367m	0.322m
20)	m	4,4'-DDT	14.602	14.670	19290965	6310113	9.149m	8.455m
24)	m	Endrin Ke...	0.000	15.915	0	80085	N.D.	0.101m#
		SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

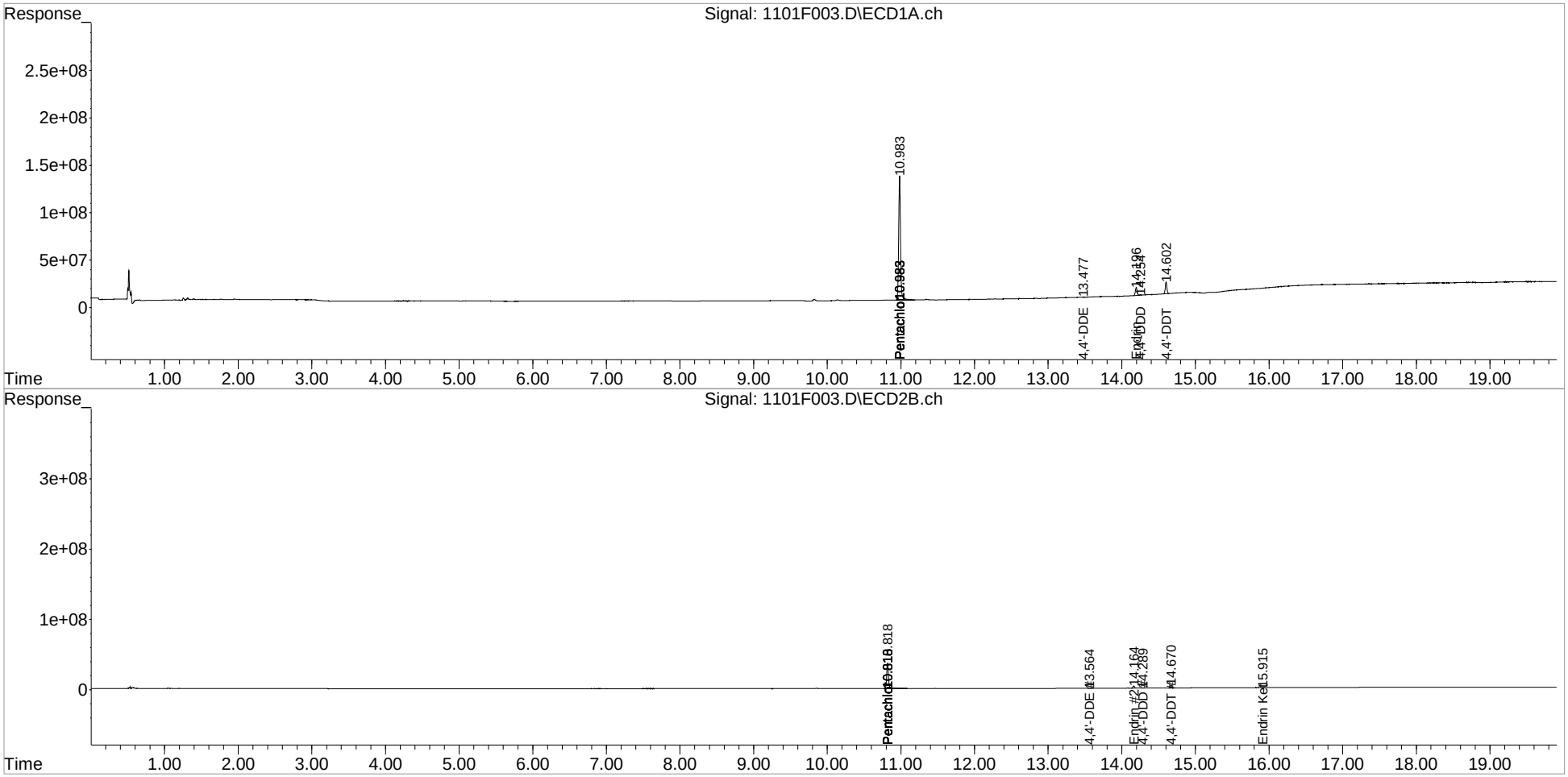
1st BB 11/03/23
2nd AA 11/06/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 02 12:19:39 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



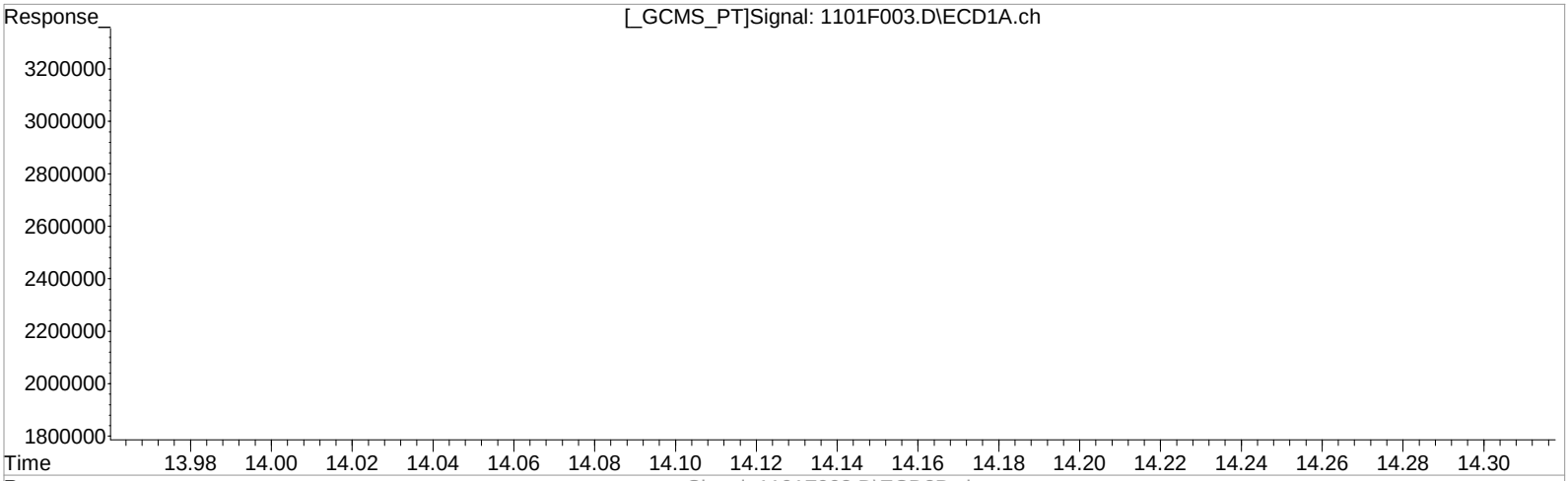
Quantitation Report (Qedit)

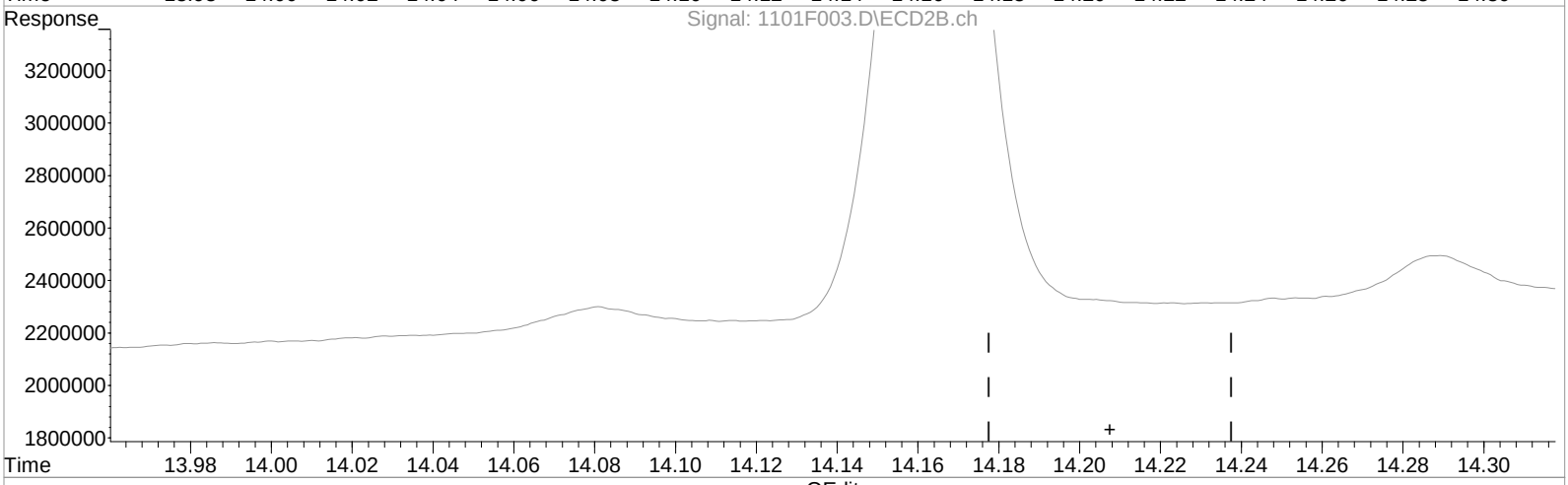
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:45:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(17) Endrin #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

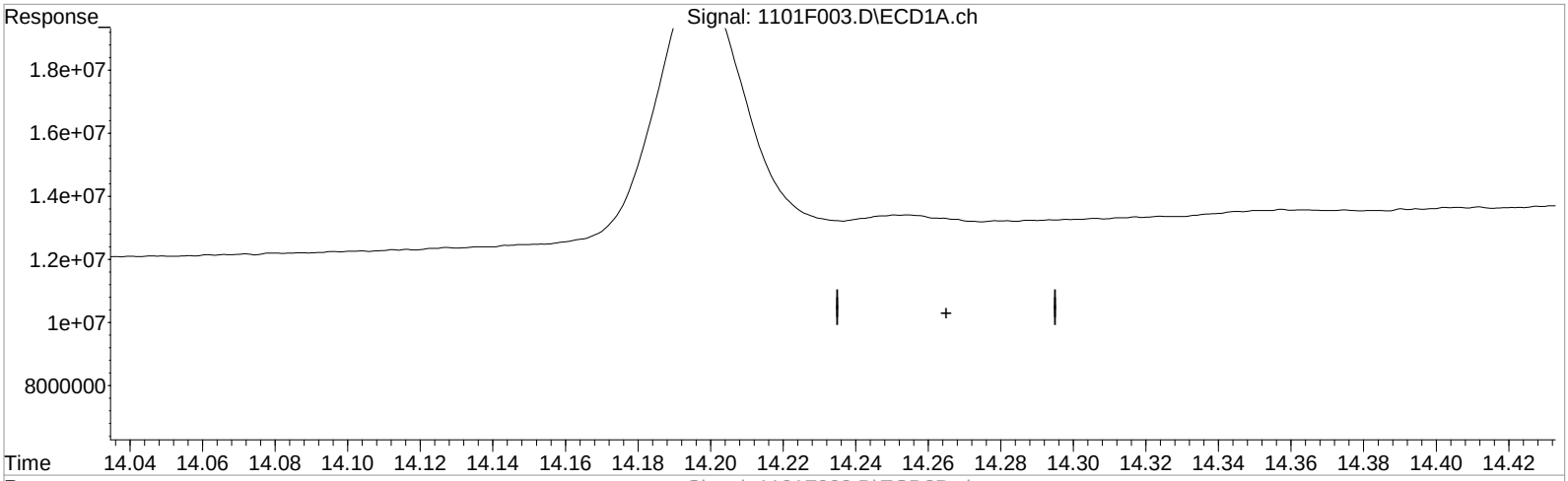
Quantitation Report (Qedit)

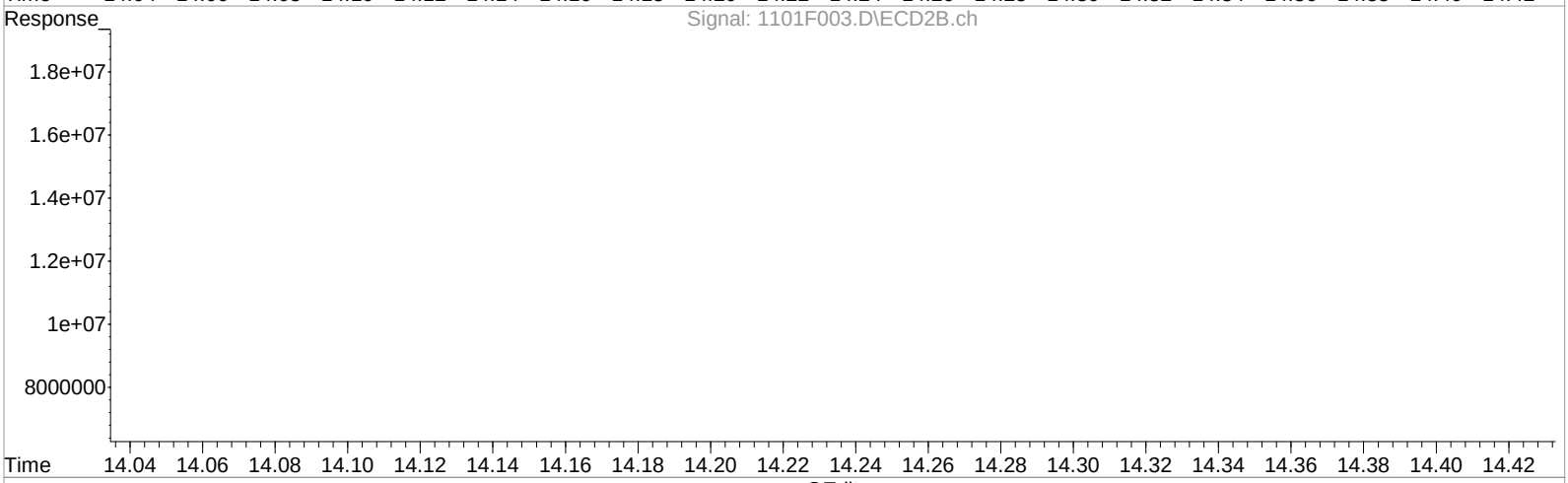
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:45:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(17) Endrin #2 (m)

14.164min 5.450 ug/L m

response 4818101

(+) = Expected Retention Time

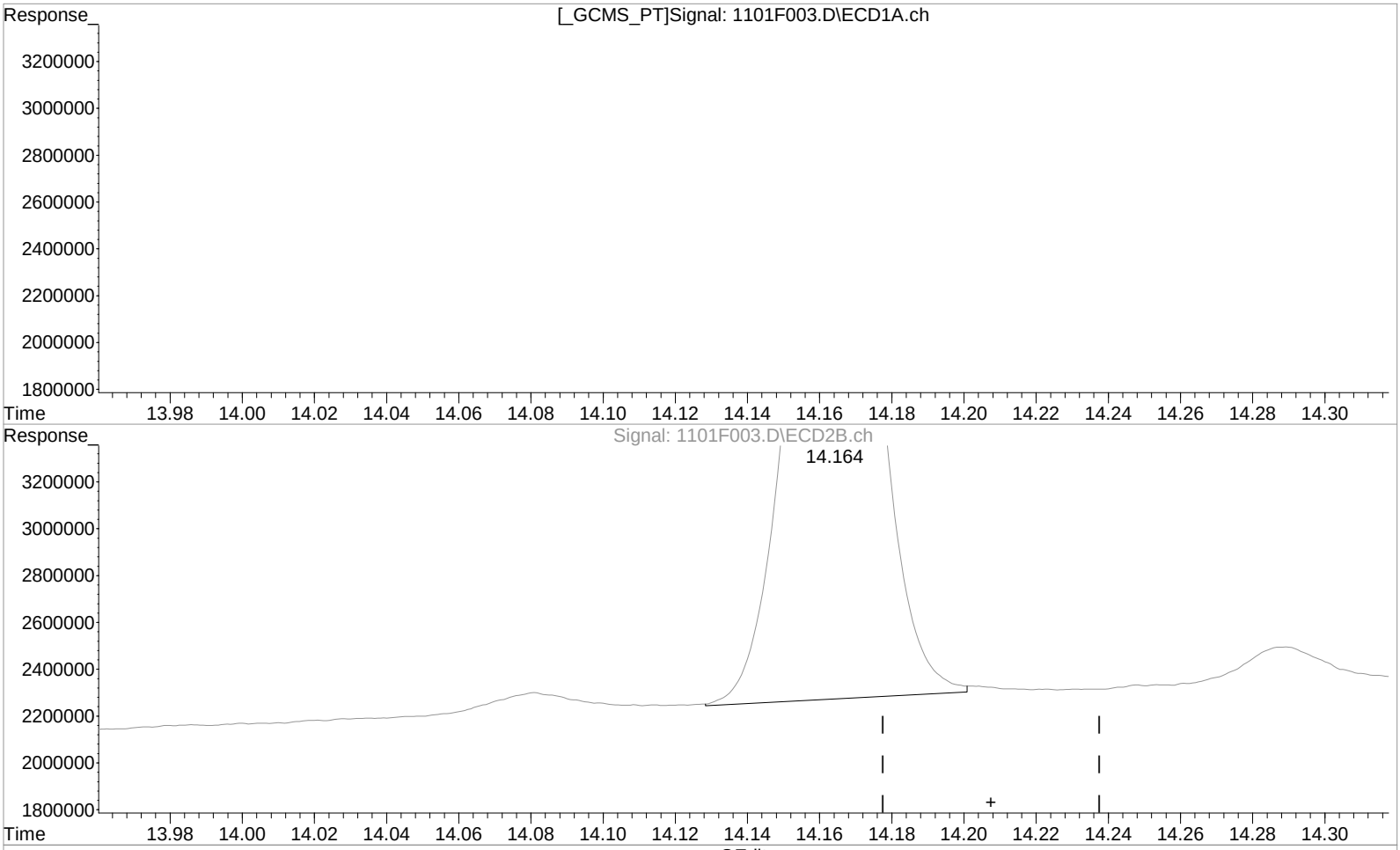
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:45:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(17) Endrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(17) Endrin #2 (m)

14.164min 5.450 ug/L m

response 4818101

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Volume Inj. : 1 uL
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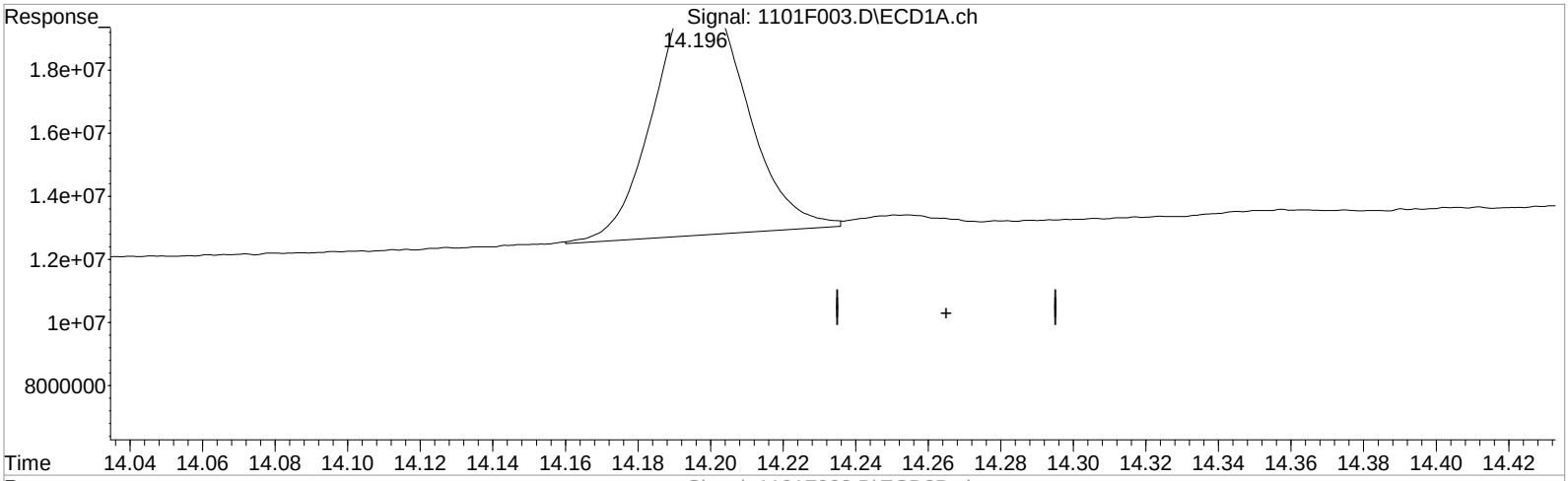
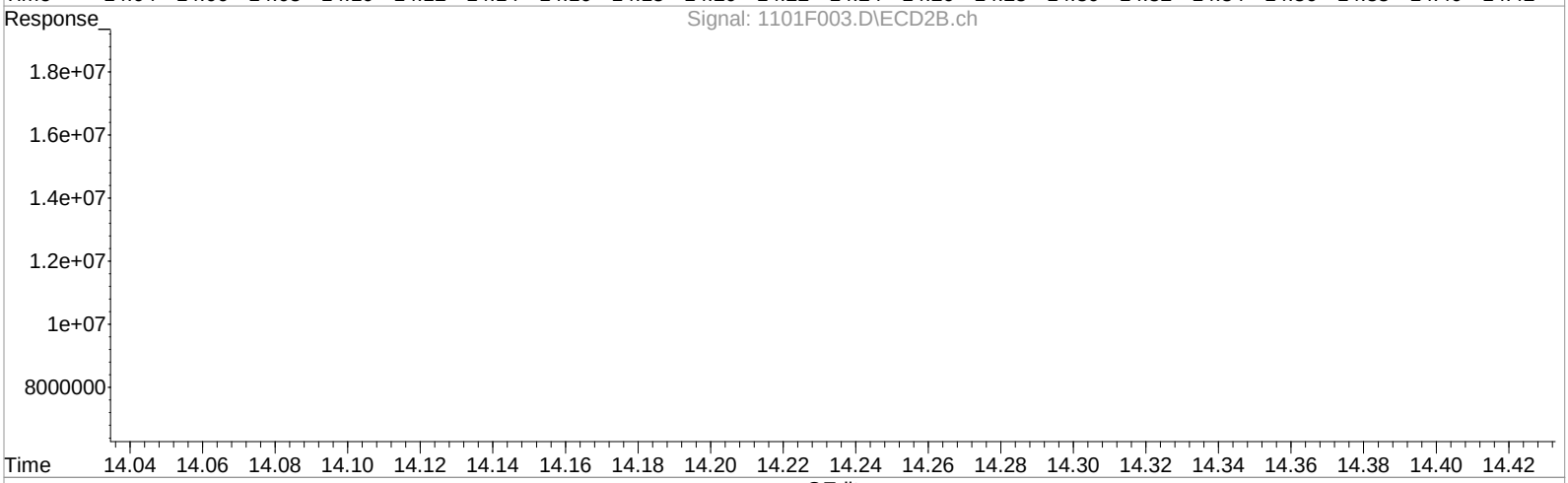
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

14.196min 4.862 ug/L m

response 13619224

Manual Integration:

After

Missed Peak

11/01/23

(17) Endrin #2 (m)

14.164min 5.450 ug/L m

response 4818101

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:49:06 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
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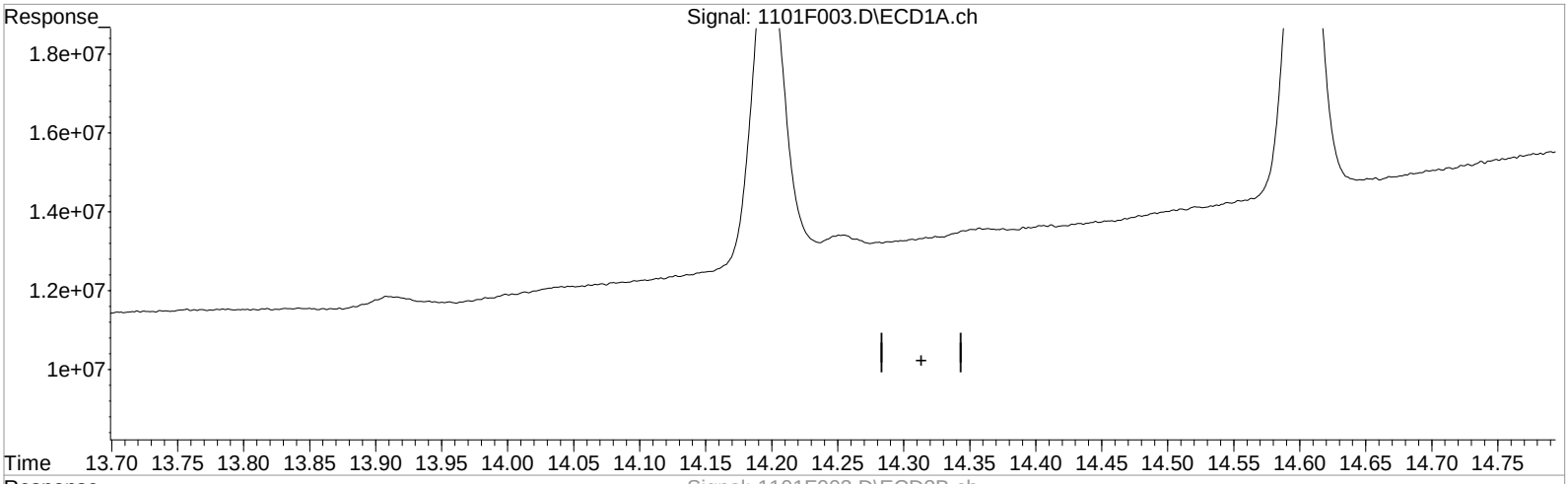
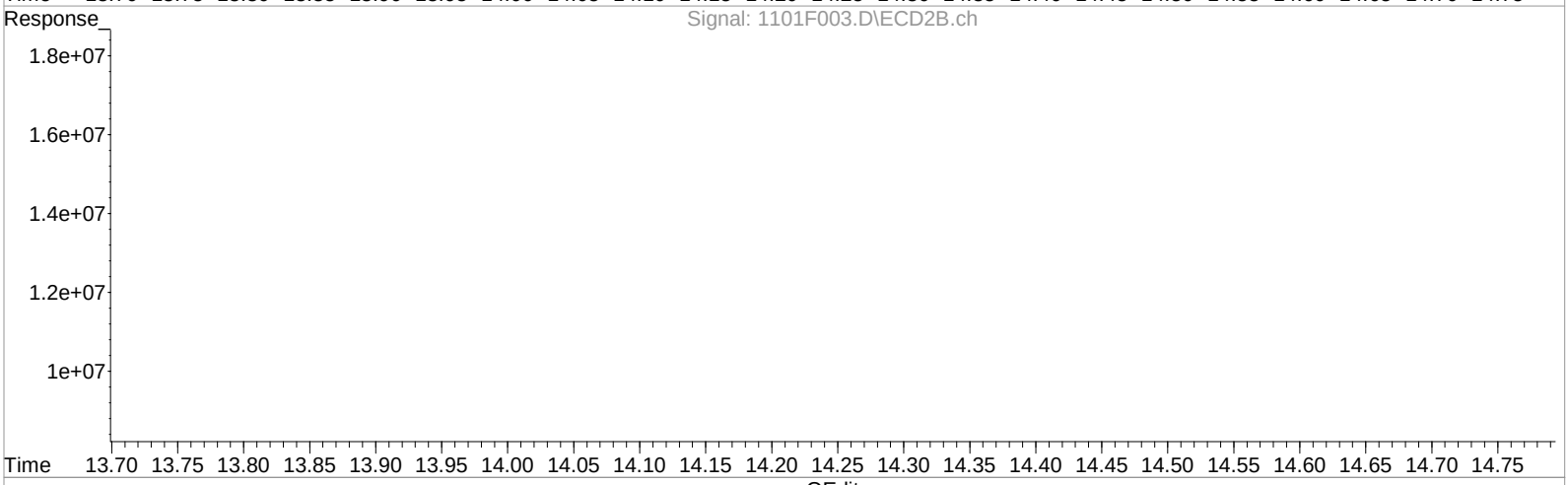
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(18) 4,4'-DDD #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

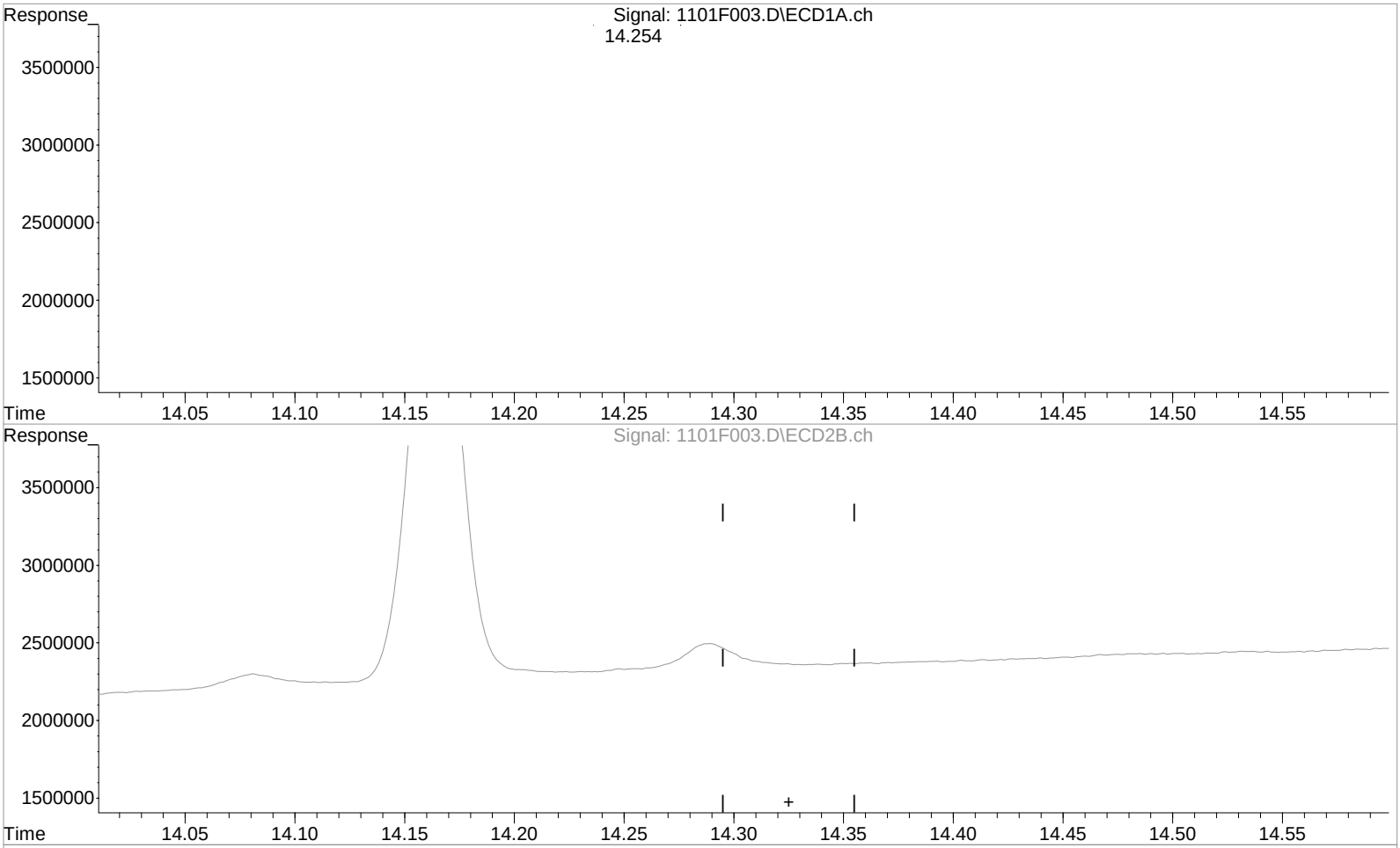
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:49:06 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(18) 4,4'-DDD (m)

14.254min 0.367 ug/L m

response 795971

Manual Integration:

Before

11/01/23

(18) 4,4'-DDD #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
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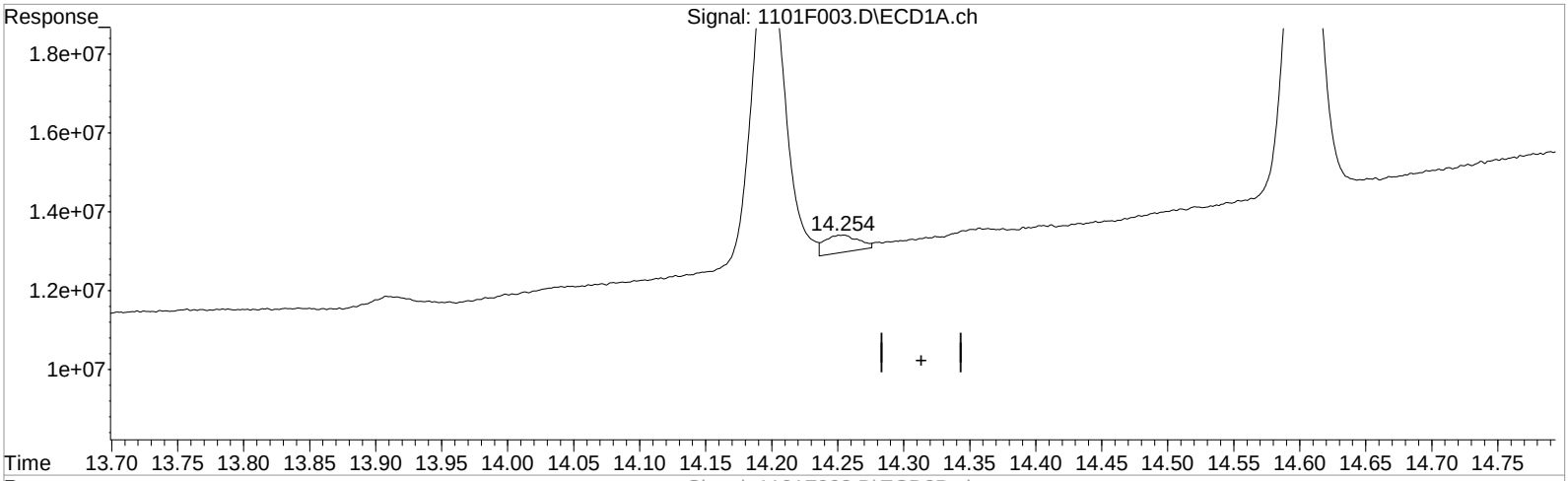
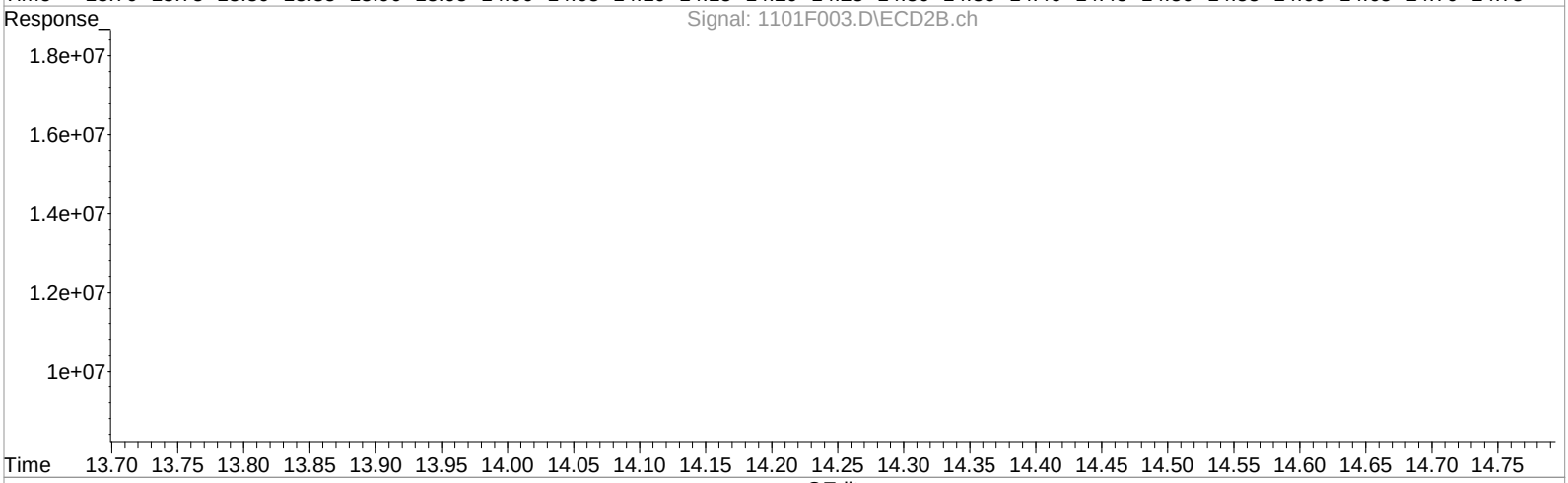
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

14.254min 0.367 ug/L m

response 795971

Manual Integration:

After

Missed Peak

11/01/23

(18) 4,4'-DDD #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

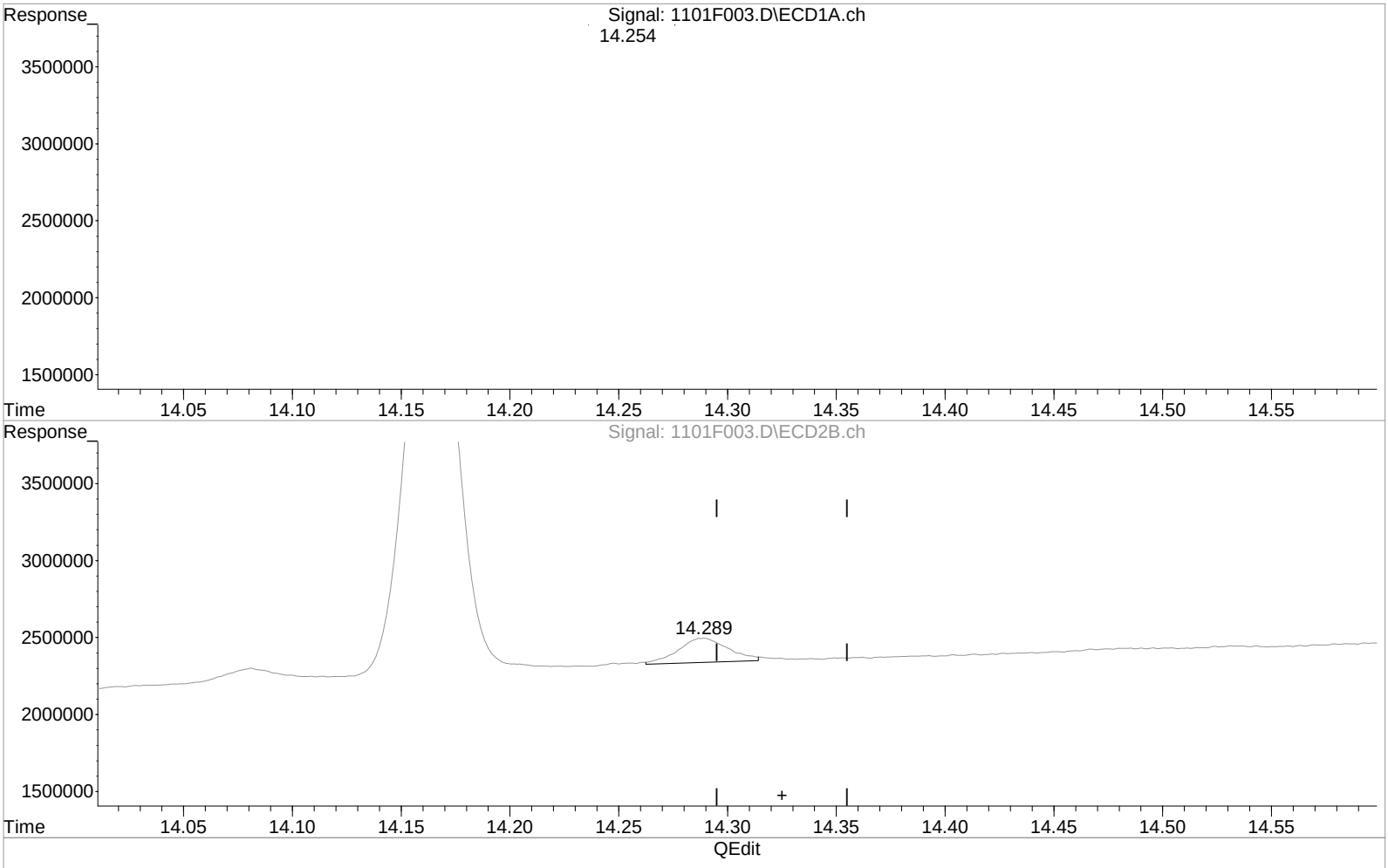
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:49:06 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(18) 4,4'-DDD (m)

14.254min 0.367 ug/L m

response 795971

Manual Integration:

After

Missed Peak

11/01/23

(18) 4,4'-DDD #2 (m)

14.289min 0.322 ug/L m

response 254301

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
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Quant Time: Nov 01 13:45:56 2023
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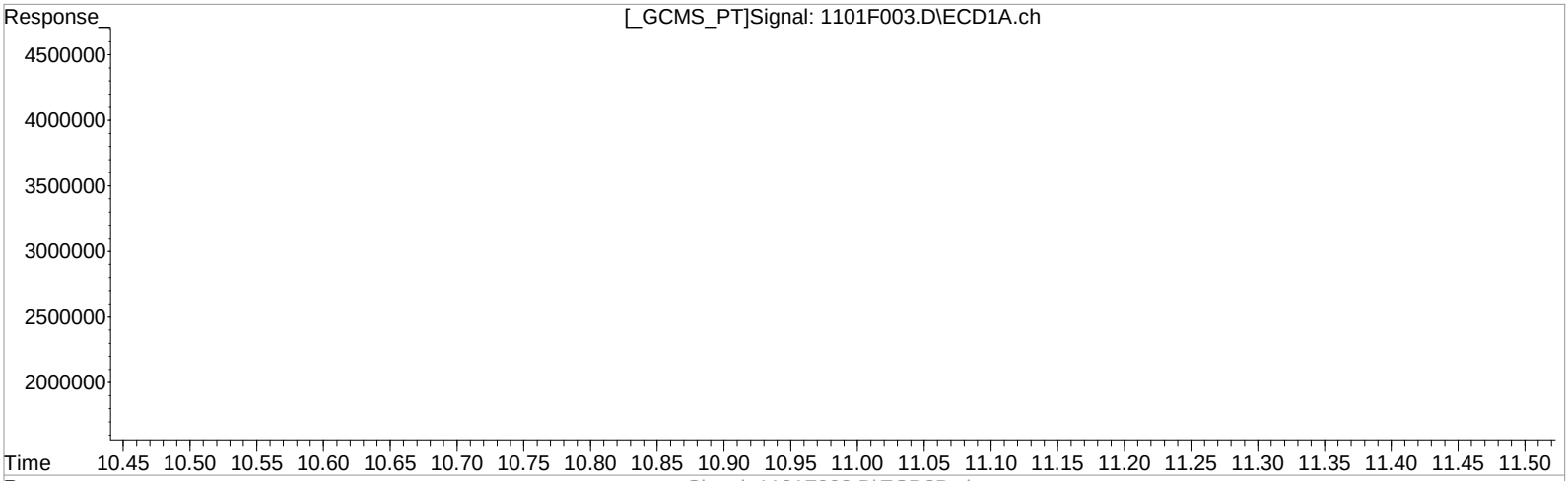
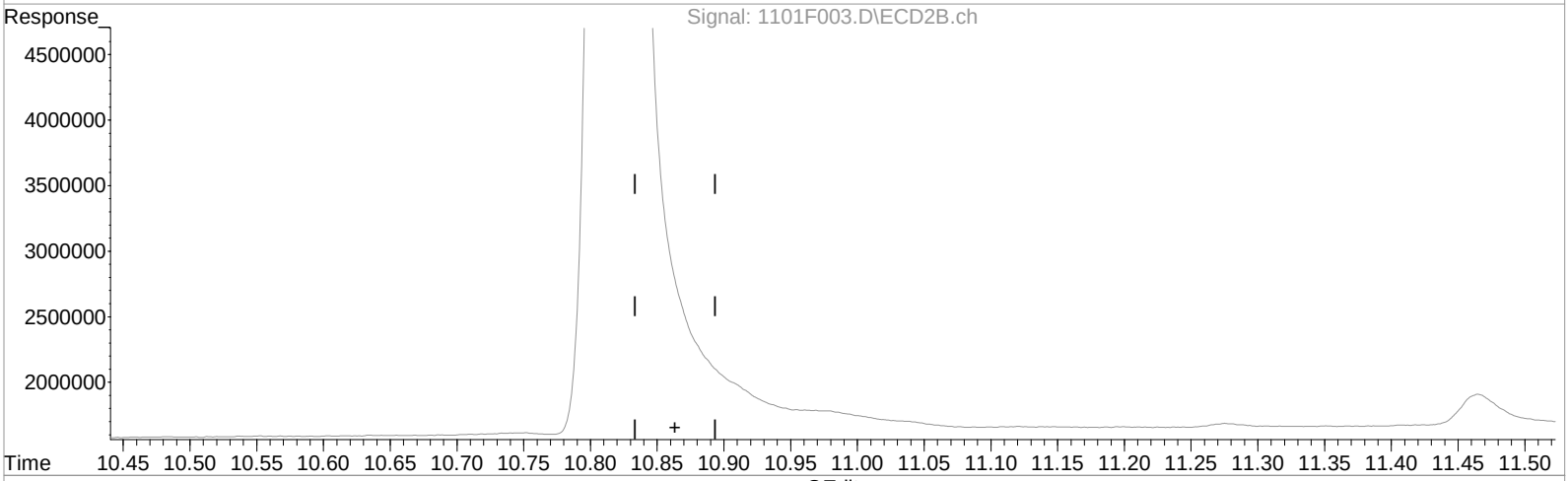
Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(1) Pentachloronitrobenzene #2 (I)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

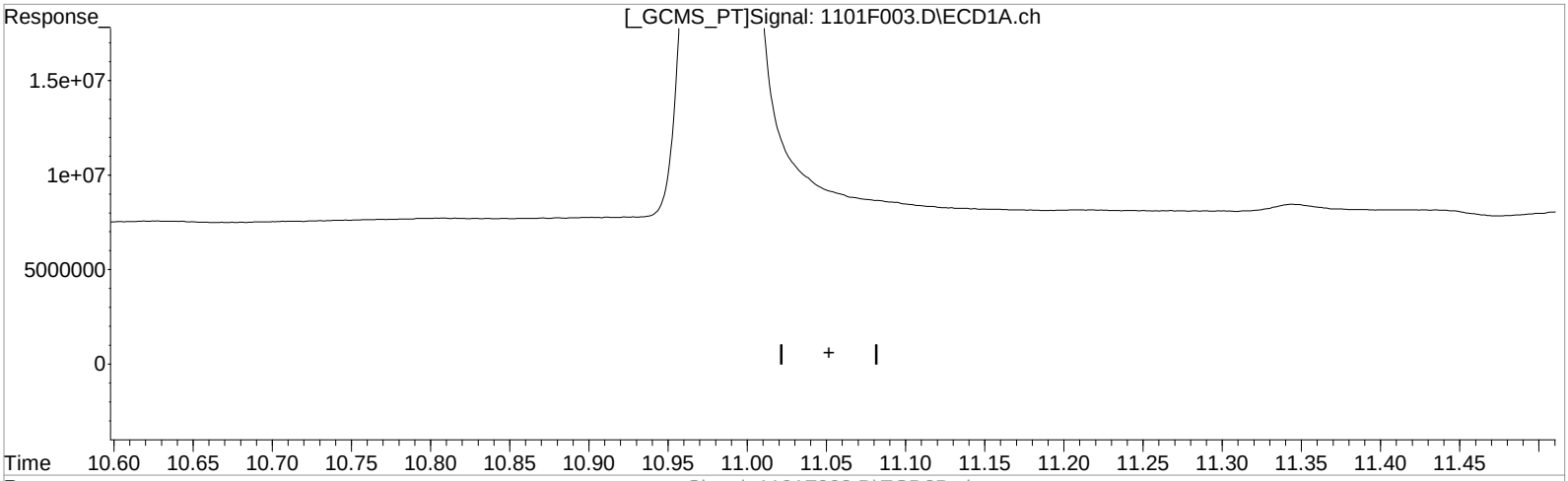
Quantitation Report (Qedit)

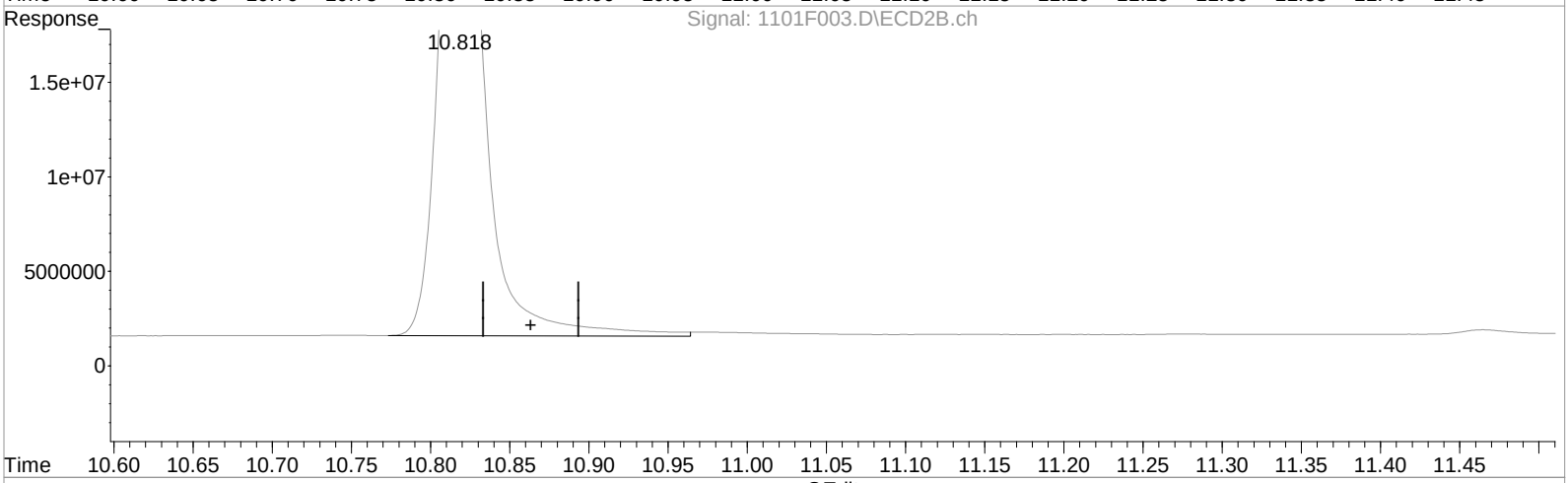
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:45:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

0.000min 0.000 ug/L

response 0

(1) Pentachloronitrobenzene #2 (I)

10.818min 50.000 ug/L m

response 62486658

Manual Integration:

Before

11/01/23

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
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Integration File signal 1: AR1242.p
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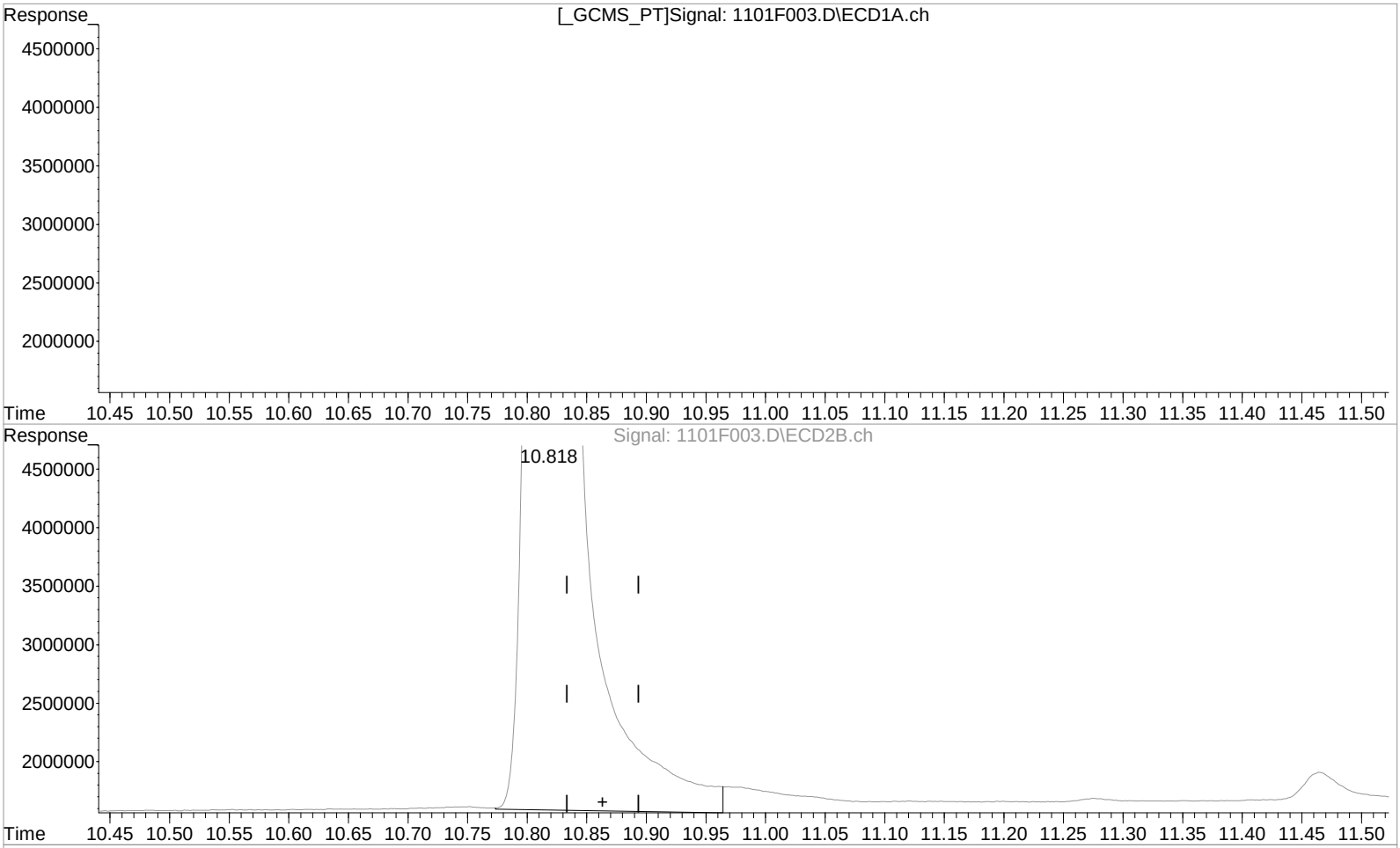
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(1) Pentachloronitrobenzene (I)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(1) Pentachloronitrobenzene #2 (I)

10.818min 50.000 ug/L m

response 62486658

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Sample : PEM Inst : GC33
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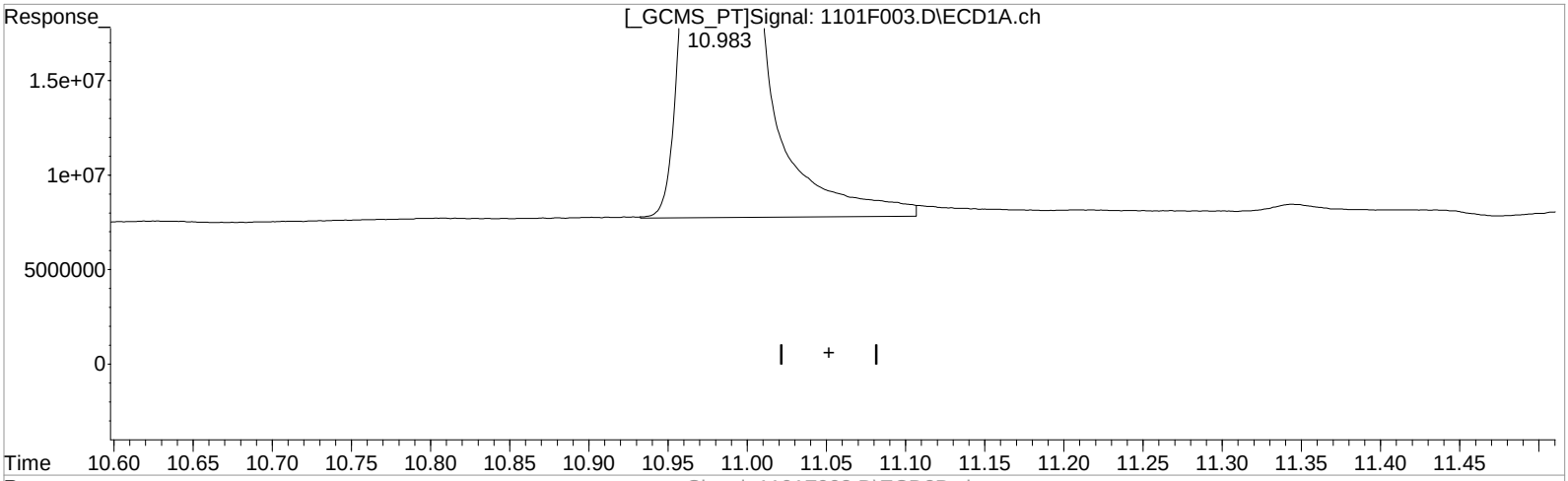
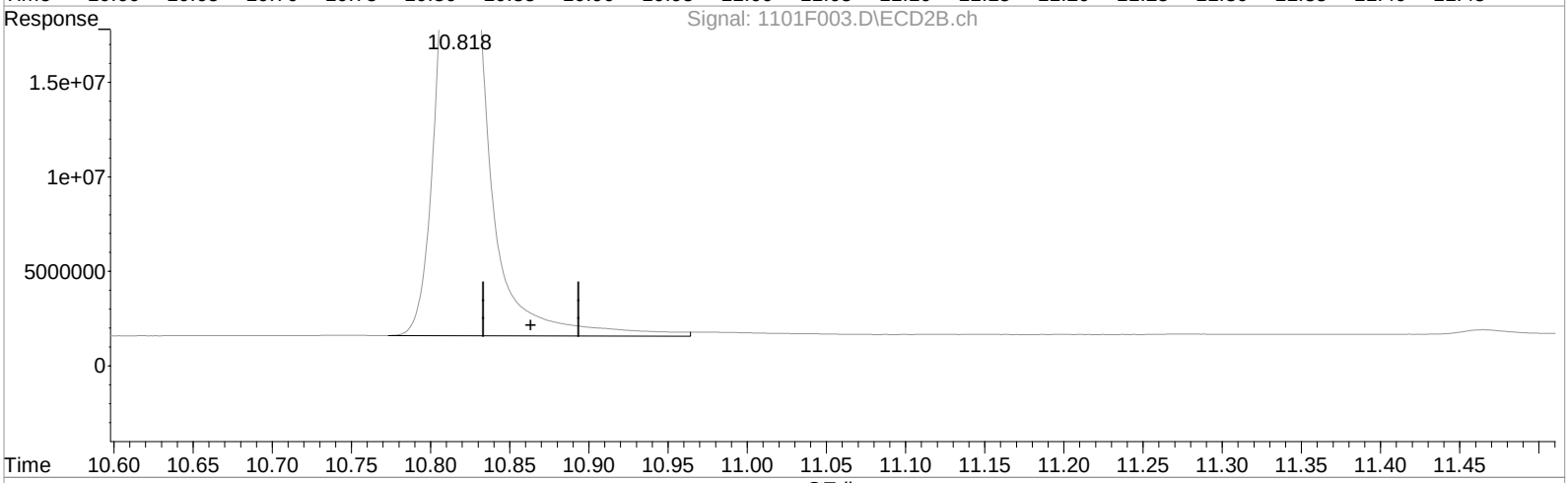
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

10.983min 50.000 ug/L m

response 230705579

Manual Integration:

After

Missed Peak

11/01/23

(1) Pentachloronitrobenzene #2 (I)

10.818min 50.000 ug/L m

response 62486658

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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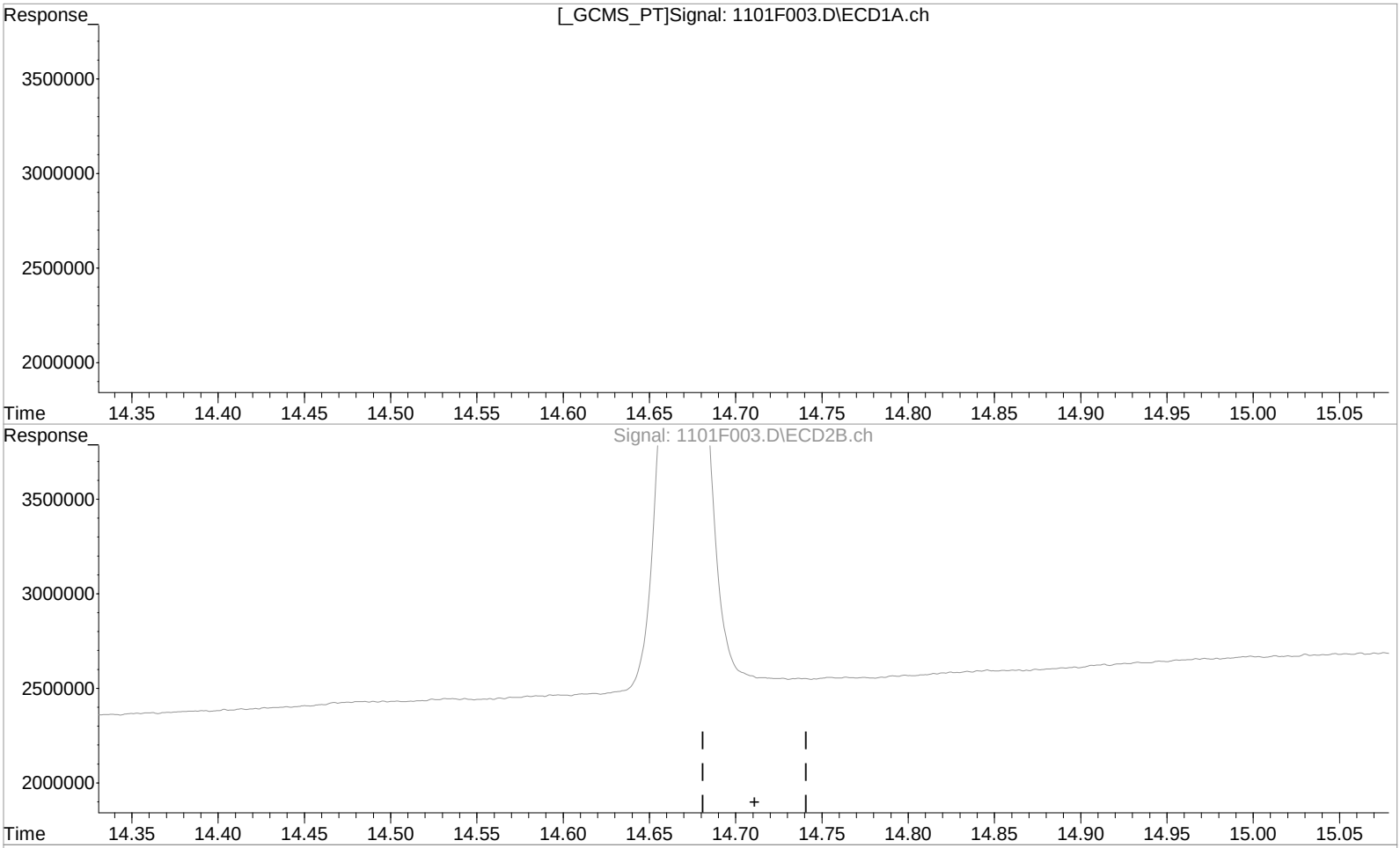
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:45:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(20) 4,4'-DDT (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(20) 4,4'-DDT #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

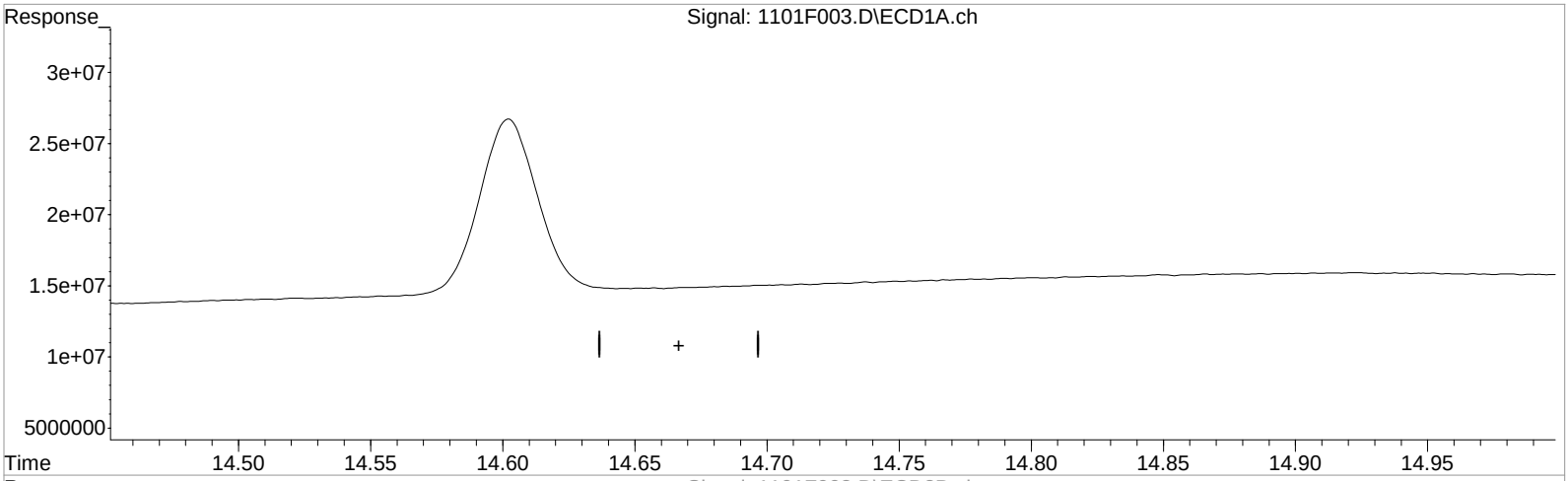
Quantitation Report (Qedit)

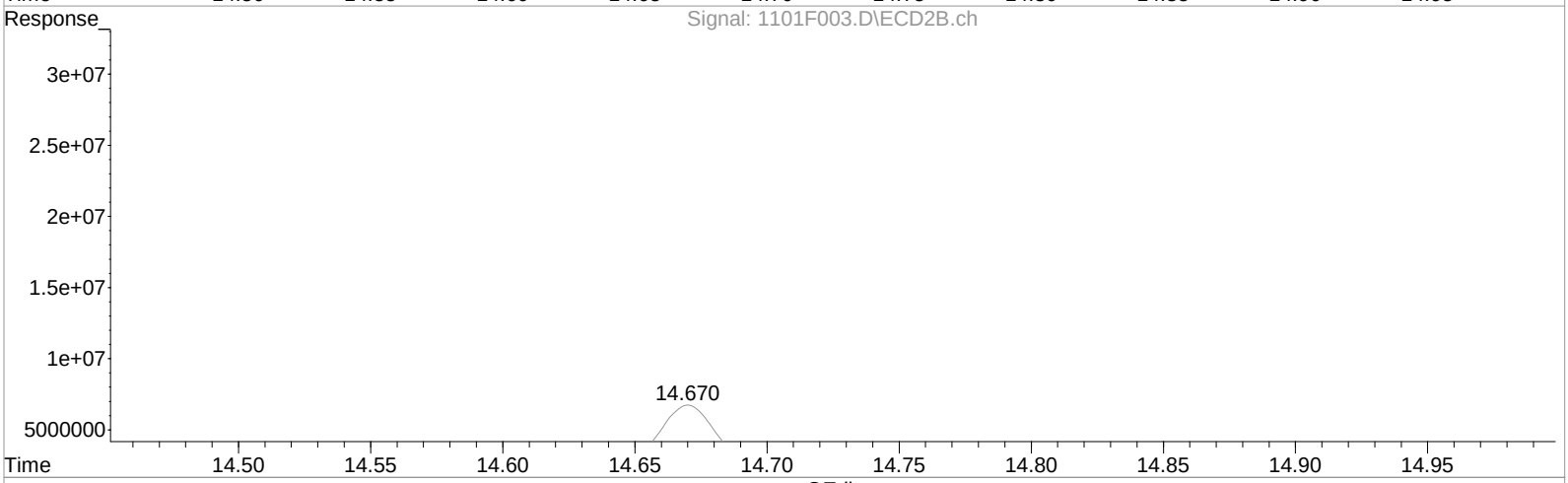
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:45:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(20) 4,4'-DDT (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(20) 4,4'-DDT #2 (m)

14.670min 8.455 ug/L m

response 6310113

(+) = Expected Retention Time

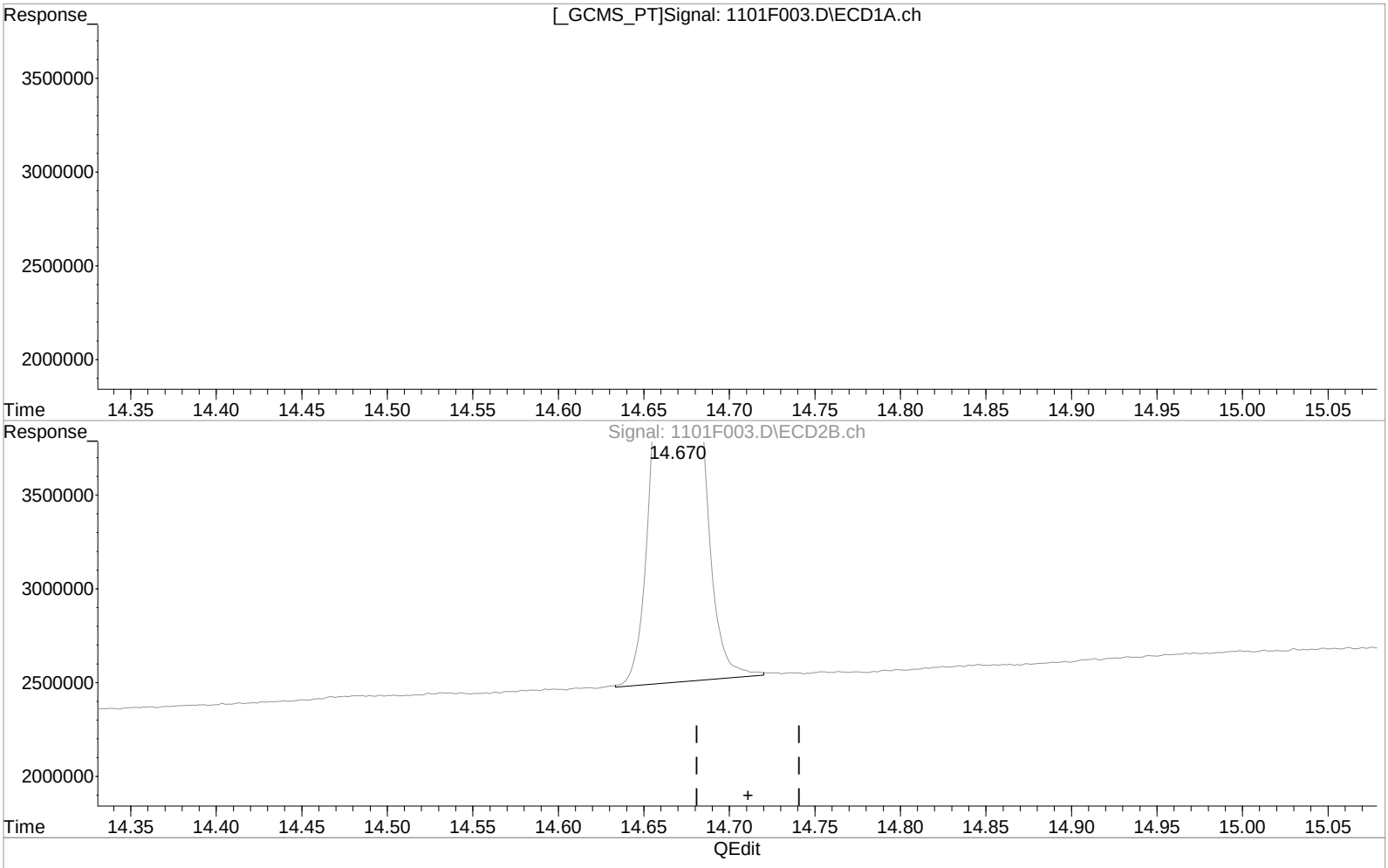
Quantitation Report (Qedit)

1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:45:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(20) 4,4'-DDT (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(20) 4,4'-DDT #2 (m)

14.670min 8.455 ug/L m

response 6310113

(+) = Expected Retention Time

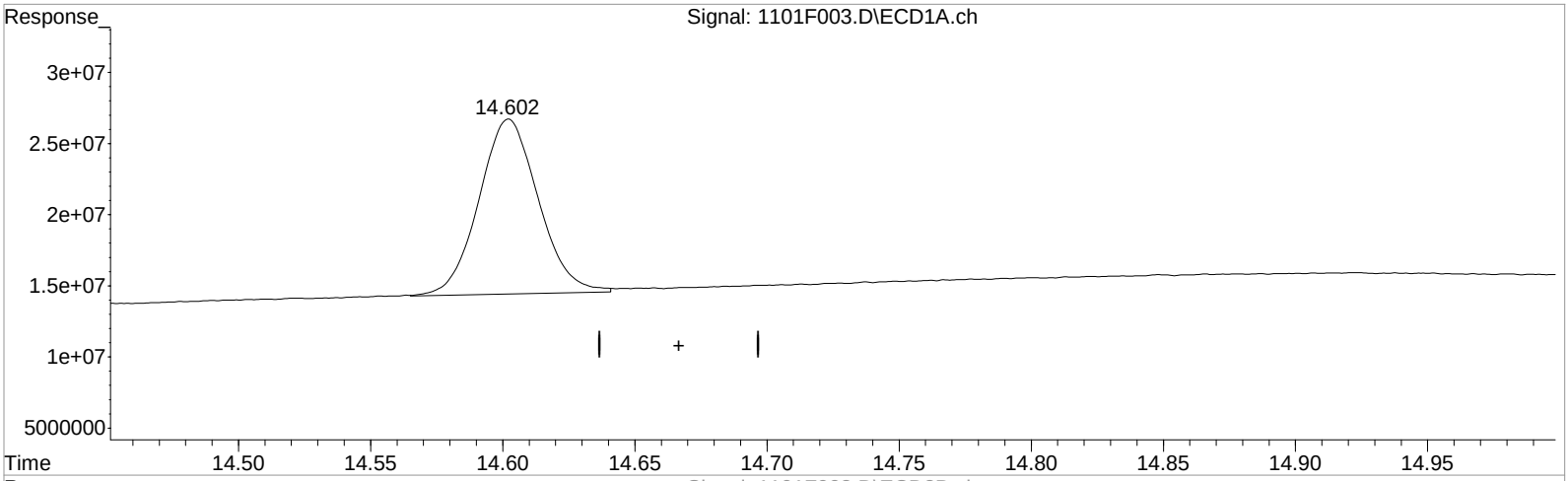
Quantitation Report (Qedit)

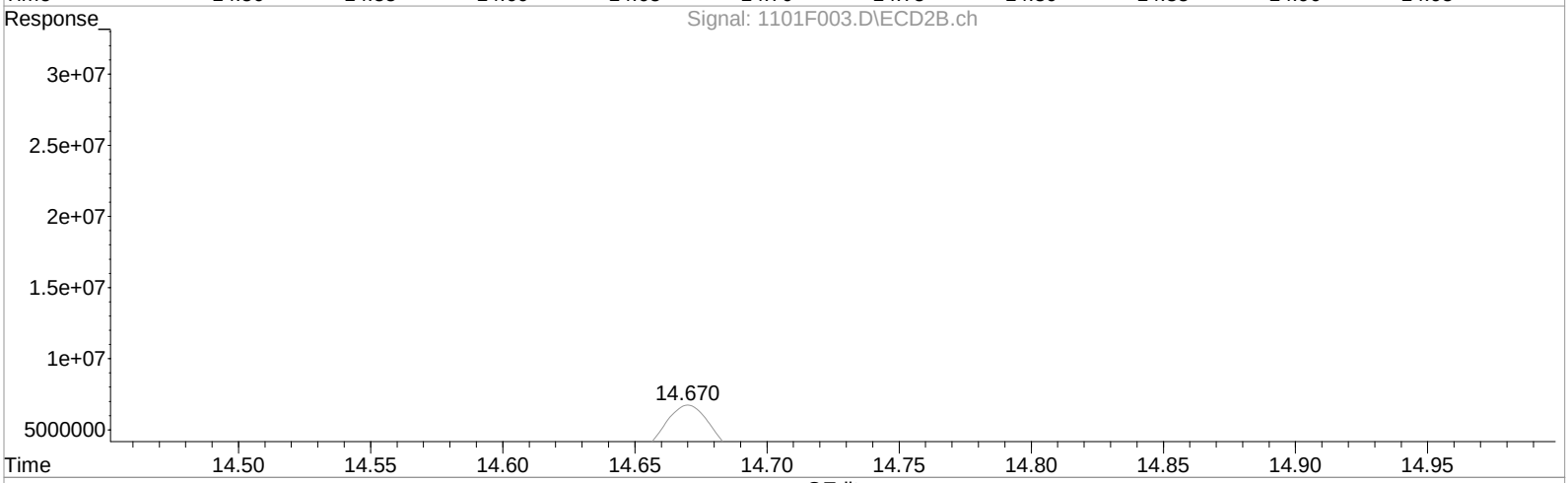
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:45:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(20) 4,4'-DDT (m)

14.602min 9.149 ug/L m

response 19290965

Manual Integration:

After

Missed Peak

11/01/23

(20) 4,4'-DDT #2 (m)

14.670min 8.455 ug/L m

response 6310113

(+) = Expected Retention Time

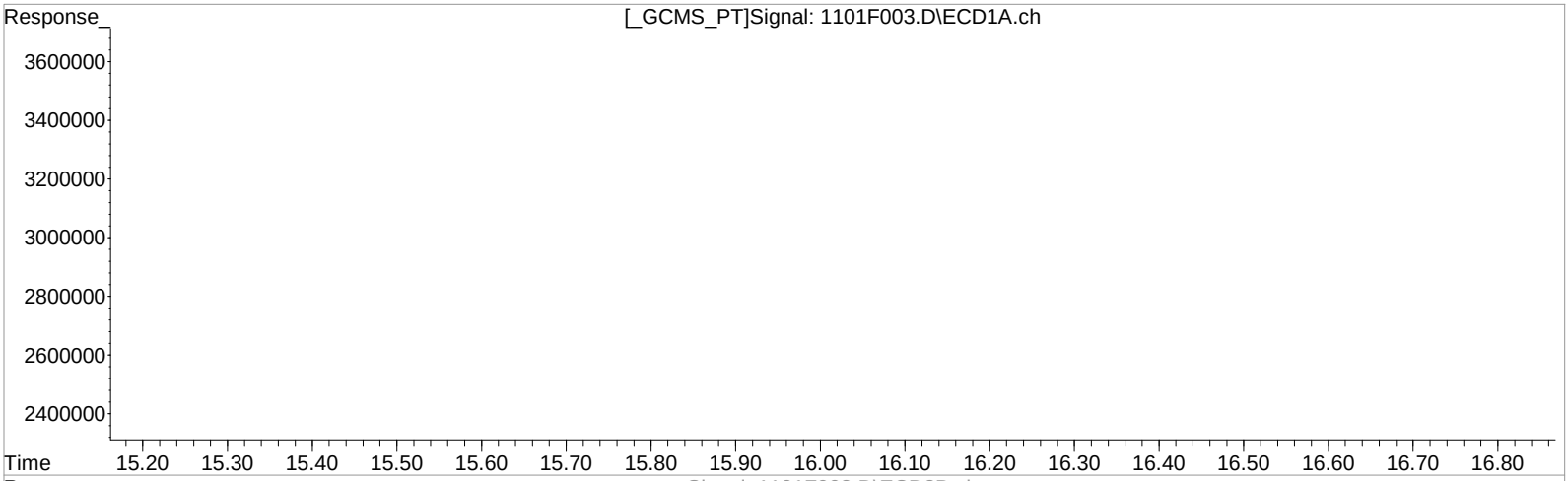
Quantitation Report (Qedit)

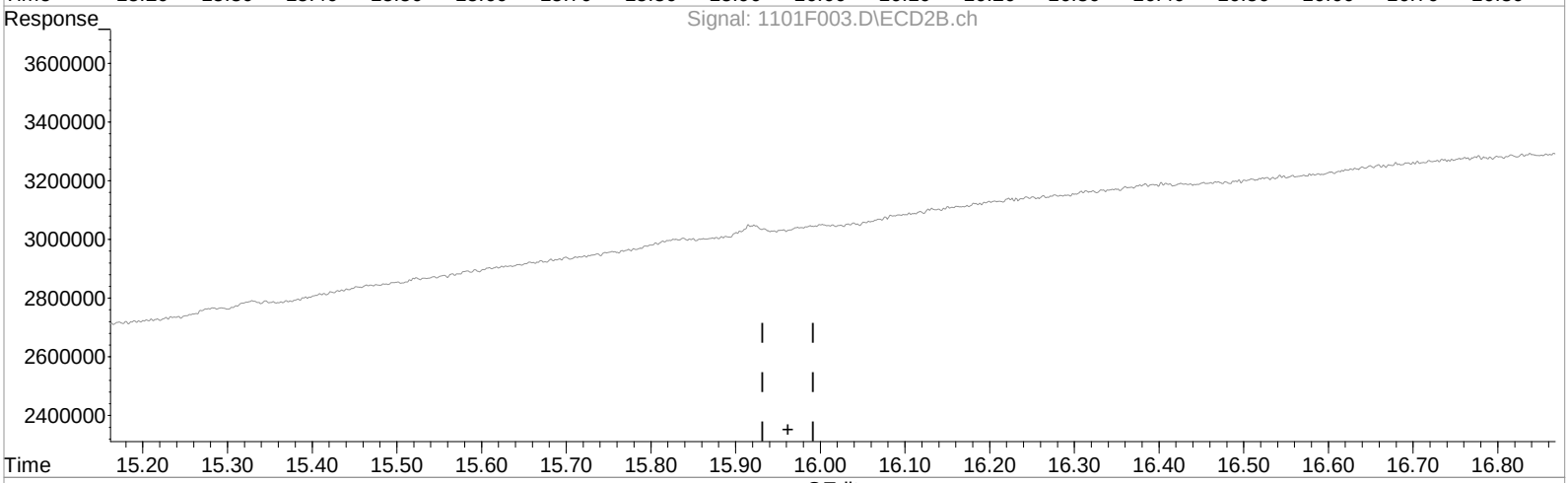
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:49:06 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

11/01/23

(24) Endrin Ketone #2 (m)

0.000min 0.000 ug/L

response 0

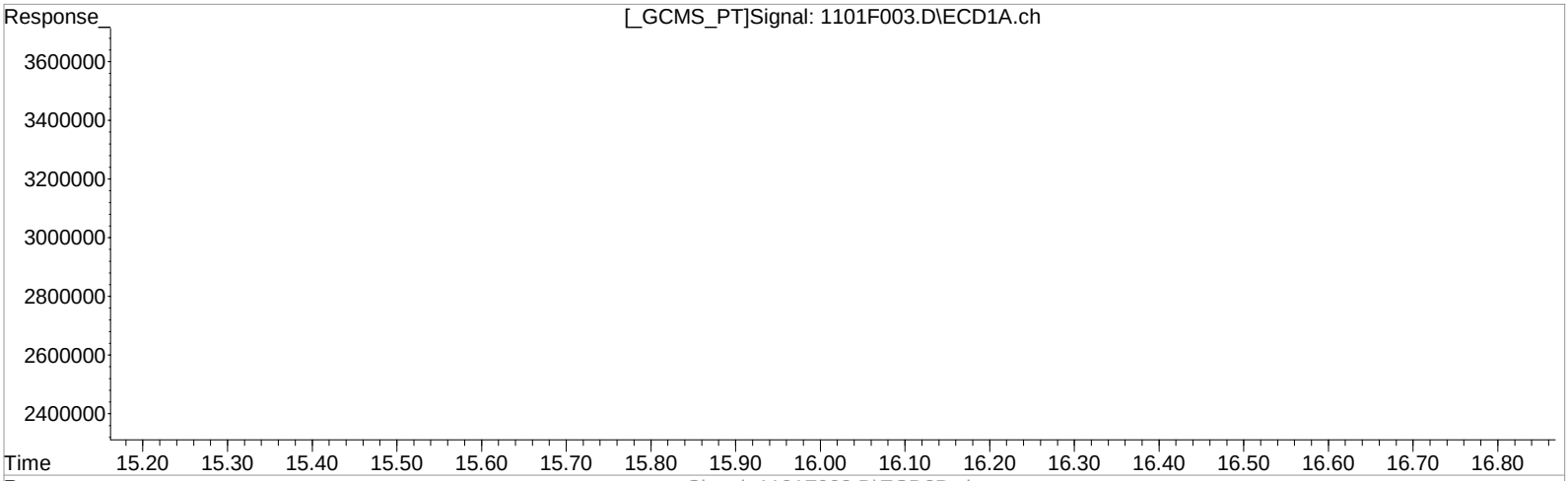
(+) = Expected Retention Time

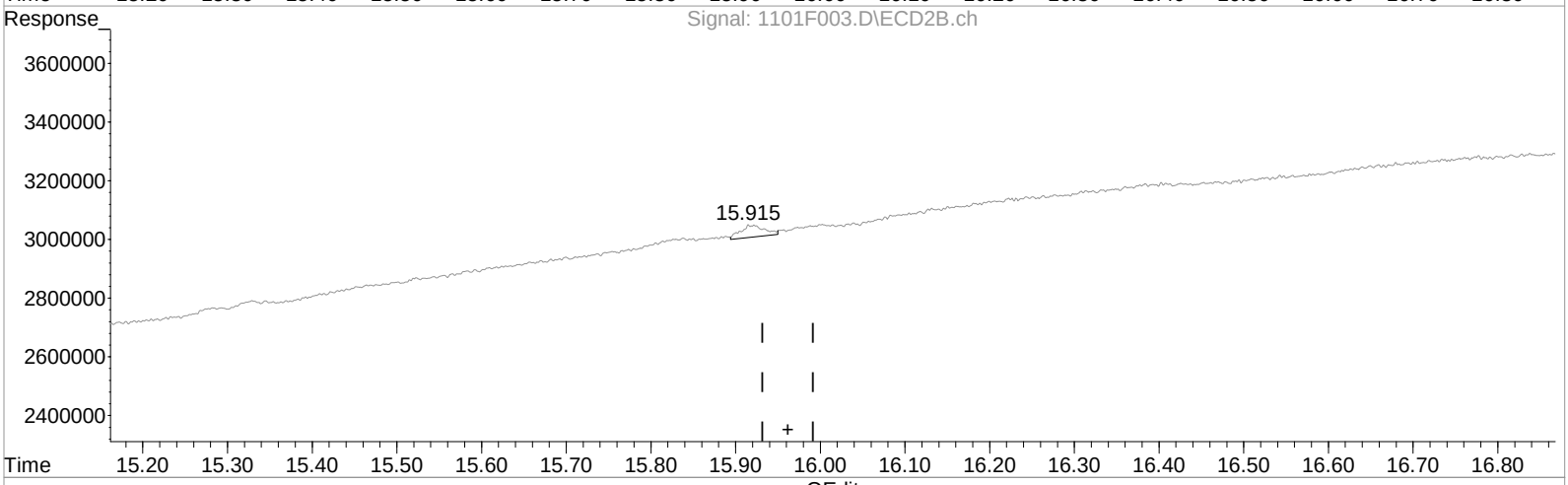
1st BB 11/03/23
2nd AA 11/06/23

Data File : J:\GC33\DATA\110123\1101F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2023 01:10 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 01 13:49:06 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

11/01/23

(24) Endrin Ketone #2 (m)

15.915min 0.101 ug/L m

response 80085

(+) = Expected Retention Time

1st BB 11/07/23
2nd AA 11/07/23

Validation Report

Data File: J:\GC33\DATA\110223\1102F006.D\
Lab ID: KQ2318956-01
RunType: PEM
Matrix: Water

Date Acquired: 11/2/23 19:28:00
Batch ID: 821752
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.91			SA
	Pentachloronitrobenzene {3}	10.91			
	Pentachloronitrobenzene{4}	10.91			
	Pentachloronitrobenzene{5}	10.91			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.78			
	Pentachloronitrobenzene {3}	10.78			
	Pentachloronitrobenzene{4}	10.78			
	Pentachloronitrobenzene{5}	10.78			

Primary Review: _____

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Secondary Review: _____

1st B B 11/07/23
2nd AA 11/07/23

Quantitation Report

Data File:	J:\GC33\DATA\110223\1102F006.D\	**Instrument:**	K-GC-33
Acqu Date:	11/2/23 19:28:00	**Vial:**	6
Run Type:	PEM	**Dilution:**	1
Lab ID:	KQ2318956-01	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/3/23	**Receive Date:**	10/6/23

Analysis Lot:	821752	**Prep Lot:**		**Report Group:**	KQ2318956
Analysis	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
Pentachloronitrobenzene (PCNB)	10.91	10.78	264898983 N	67197470 N	50.000	50.000 CCV
Pentachloronitrobenzene {2}	0.00	0.00	0 N	0 N	50.000	50.000 CCV
Pentachloronitrobenzene {3}	10.91	10.78	264898983 N	67197470 N	50.000	50.000 CCV
Pentachloronitrobenzene {4}	10.91	10.78	264898983 N	67197470 N	50.000	50.000 CCV
Pentachloronitrobenzene {5}	10.91	10.78	264898983 N	67197470 N	50.000	50.000 CCV

Breakdown Results

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Percent Breakdown 1	Percent Breakdown 2
4,4'-DDD	0.00	14.28	0	101671		
4,4'-DDE	0.00	13.53	0	28514	pass <15%	pass <15%
4,4'-DDT	14.54	14.63	21929845	7833504	0.0	1.6
Endrin	14.12	14.12	14849756	5495698	0.0	0.0
Endrin Aldehyde	0.00	0.00	0	0		
Endrin Ketone	0.00	0.00	0	0		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report (QT Reviewed)

1st BB 11/07/23
2nd AA 11/07/23

Data File : J:\GC33\DATA\110223\1102F006.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:28 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:27:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1) I	Pentachlo...	10.913	10.778	264.9E6	67197470	50.000	50.000	
34) I	Pentachlo...	10.913	10.778	264.9E6	67197470	50.000	50.000	
51) I	Pentachlo...	10.913	10.778	264.9E6	67197470	50.000	50.000	
60) I	Pentachlo...	10.913	10.778	264.9E6	67197470	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
14) m	4,4'-DDE	0.000	13.528	0	28514	N.D.	0.026	#
17) m	Endrin	14.123	14.116	14849756	5495698	4.617	5.780	#
18) m	4,4'-DDD	0.000	14.275f	0	101671	N.D.	0.120	#
20) m	4,4'-DDT	14.535	14.626	21929845	7833504	9.058	9.760	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

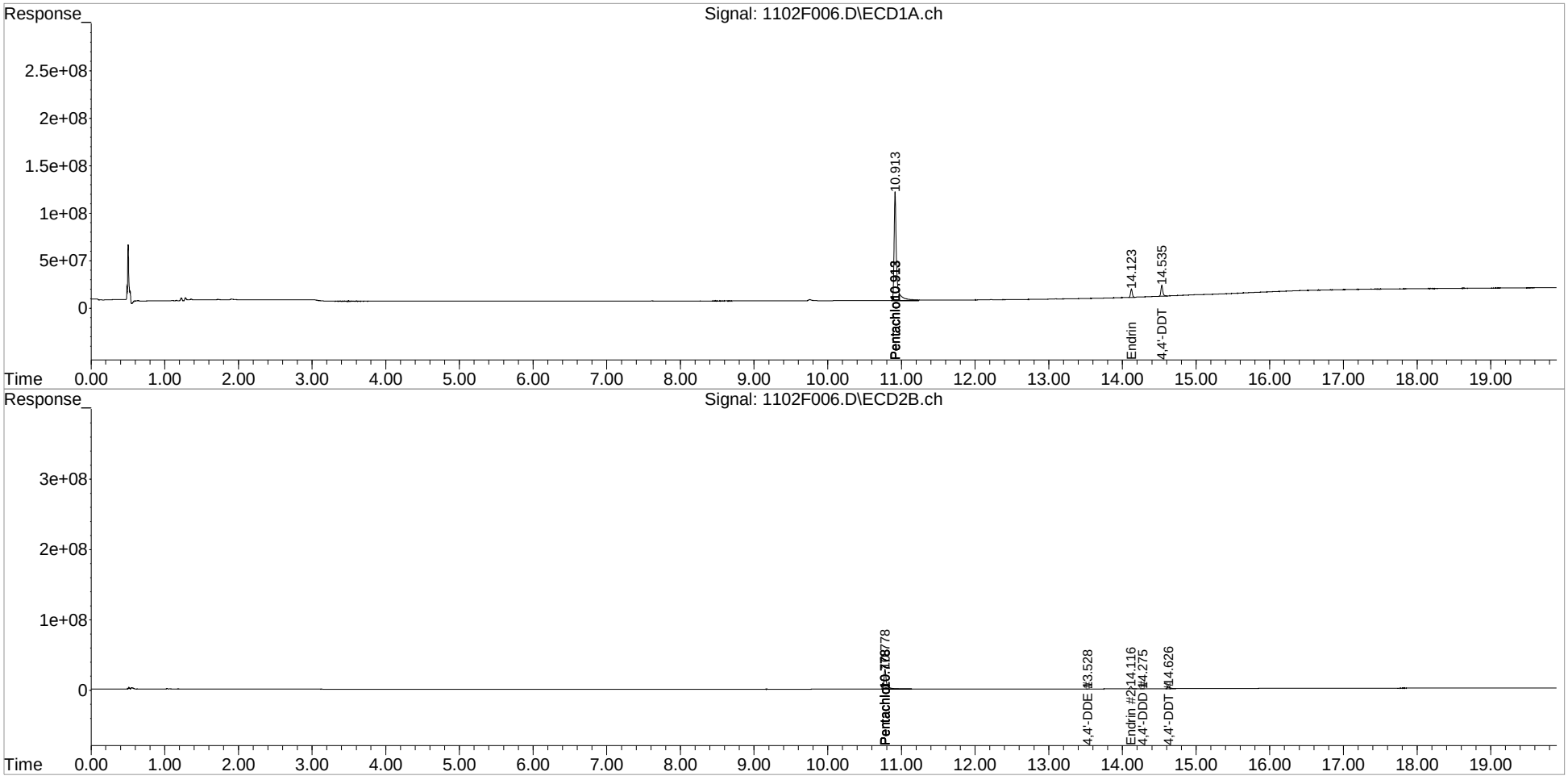
1st BB 11/07/23
2nd AA 11/07/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110223\1102F006.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Nov 2023 07:28 pm Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 06 17:27:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



1st B B 11/08/23
2nd AA 11/08/23

Validation Report

Data File: J:\GC33\DATA\110723\1107F003.D\
Lab ID: KQ2319839-02
RunType: PEM
Matrix: Water

Date Acquired: 11/7/23 10:16:00
Batch ID: 823308
Analysis Method: 608.3/PEST_PCB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - RTX-CLP	Pentachloronitrobenzene (PCNB)	10.89			SA
	Pentachloronitrobenzene {2}	10.89			
	Pentachloronitrobenzene {3}	10.89			
	Pentachloronitrobenzene{4}	10.89			
	Pentachloronitrobenzene{5}	10.89			
Analyte Coelutions - RTX-CLP2	Pentachloronitrobenzene (PCNB)	10.77			
	Pentachloronitrobenzene {2}	10.77			
	Pentachloronitrobenzene {3}	10.77			
	Pentachloronitrobenzene{4}	10.77			
	Pentachloronitrobenzene{5}	10.77			

Primary Review: _____

Secondary Review: _____

1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report

Data File:	J:\GC33\DATA\110723\1107F003.D\	**Instrument:**	K-GC-33
Acqu Date:	11/7/23 10:16:00	**Vial:**	3
Run Type:	PEM	**Dilution:**	1
Lab ID:	KQ2319839-02	**Raw Units:**	ug/L

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	PEST_PCB	**Collect Date:**	10/2/23	**Receive Date:**	10/5/23

Analysis Lot:	823308	**Prep Lot:**		**Report Group:**	KQ2319839
Analysis	608.3	**Prep Method:**			
		Prep Date:			

Title:	Organochlorine Pesticides and Polychlorinated Biphenyls	**Calibration ID:**	KC2300589
		Report List ID:	23083

Internal Standard Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2
Pentachloronitrobenzene (PCNB)	10.89	10.77	500017622 N	97345693 N	50.000	50.000 CCV
Pentachloronitrobenzene {2}	10.89	10.77	500017622 N	97345693 N	50.000	50.000 CCV
Pentachloronitrobenzene {3}	10.89	10.77	500017622 N	97345693 N	50.000	50.000 CCV
Pentachloronitrobenzene {4}	10.89	10.77	500017622 N	97345693 N	50.000	50.000 CCV
Pentachloronitrobenzene {5}	10.89	10.77	500017622 N	97345693 N	50.000	50.000 CCV

Breakdown Results

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Percent Breakdown 1	Percent Breakdown 2
4,4'-DDD	14.16	14.24	493604	297169		
4,4'-DDE	13.39	13.52	351861	158149		
4,4'-DDT	14.51	14.62	35335205	10812147	2.3	4.0
Endrin	14.10	14.11	24913814	8062487	0.0	0.8
Endrin Aldehyde	0.00	0.00	0	0		
Endrin Ketone	0.00	15.86	0	67976		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110723\1107F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 10:16 am Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:00:13 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1) I	Pentachlo...	10.893	10.768	500.0E6	97345693	50.000	50.000	
26) I	Pentachlo...	10.893f	10.768	500.0E6	97345693	50.000	50.000	
34) I	Pentachlo...	10.893f	10.768	500.0E6	97345693	50.000	50.000	
51) I	Pentachlo...	10.893f	10.768	500.0E6	97345693	50.000	50.000	
60) I	Pentachlo...	10.893f	10.768	500.0E6	97345693	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
14) m	4,4'-DDE	13.391f	13.517	351861	158149	0.053	0.101	#
17) m	Endrin	14.103	14.112	24913814	8062487	4.104	5.854	#
18) m	4,4'-DDD	14.165	14.241	493604	297169	0.105	0.242	#
20) m	4,4'-DDT	14.512	14.622	35335205	10812147	7.732	9.299	
24) m	Endrin Ke...	0.000	15.856	0	67976	N.D.	0.055	#
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

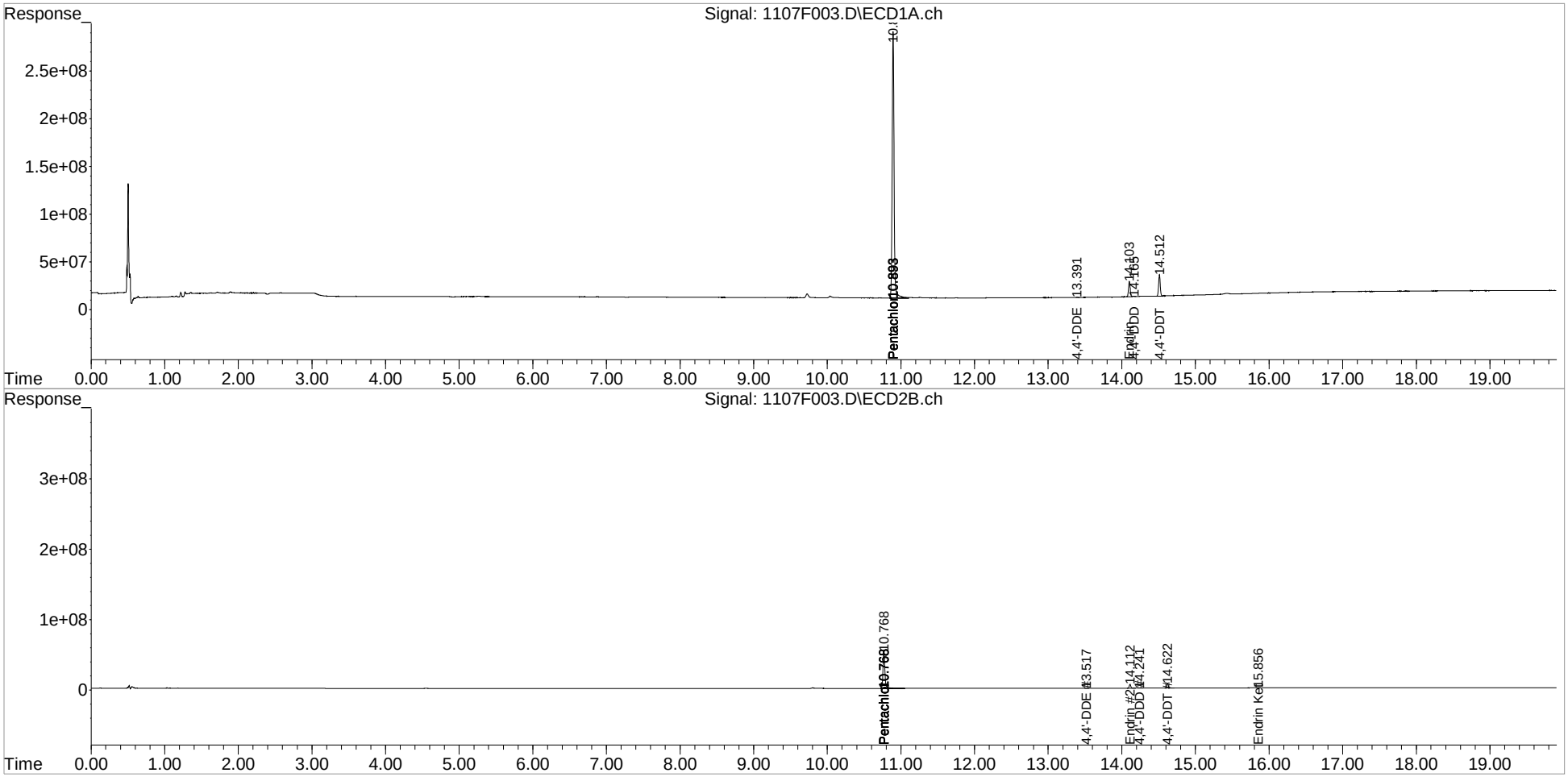
1st BB 11/08/23
2nd AA 11/08/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\110723\1107F003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2023 10:16 am Operator:
Sample : PEM Inst : GC33
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Nov 08 10:00:13 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 16 10:58:24 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



KC23000589

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 100	PRIMER				
2	Vial 100	PRIMER				
3	Vial 94	PEM				
4	Vial 95	IB				
5	Vial 1	DWSTD08-82B 2PPB				
6	Vial 2	DWSTD08-82B 5PPB				
7	Vial 3	DWSTD08-82B 20PPB				
8	Vial 4	DWSTD08-82B 50PPB				
9	Vial 5	DWSTD08-82B 75PPB				
10	Vial 6	DWSTD08-82B 100PPB				
11	Vial 7	DWSTD08-82B 200PPB				
12	Vial 8	DWSTD08-83A 75PPB ICV				
13	Vial 9	PCB9-39H 1660 25PPB				
14	Vial 10	PCB9-39H 1660 50PPB				
15	Vial 11	PCB9-39H 1660 100PPB				
16	Vial 12	PCB9-39H 1660 200PPB				
17	Vial 13	PCB9-39H 1660 500PPB				
18	Vial 14	PCB9-39H 1660 1000PPB				
19	Vial 15	PCB9-48D 1016 ICV 200PPB				
20	Vial 16	PCB9-48J 1260 ICV 200PPB				
21	Vial 95	IB				

Sequence Table (Back Injector):

No entries - empty table!

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 94	PEM				
2	Vial 95	IB				
3	Vial 20	DWSTD08-83A 75PPB ICV				
4	Vial 21	PCB9-48E 1221 ICV 200PPB				
5	Vial 95	IB				

Sequence Table (Back Injector):

No entries - empty table!

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 100	PRIMER				
2	Vial 100	PRIMER				
3	Vial 94	PEM				
4	Vial 96	DWSTD08-84K @75PPB				
5	Vial 95	IB				
6	Vial 1	K2309923-001				
7	Vial 96	DWSTD08-84K @75PPB				
8	Vial 95	IB				
9	Vial 2	GCPS9-29D 50PPB TOX				
10	Vial 3	GCPS9-29D 100PPB TOX				
11	Vial 4	GCPS9-29D 200PPB TOX				
12	Vial 5	GCPS9-29D 500PPB TOX				
13	Vial 6	GCPS9-29D 1000PPB TOX				
14	Vial 7	GCPS9-29D 2000PPB TOX				
15	Vial 8	DWSTD08-84I 500PPB TOX ICV				
16	Vial 9	GCPS9-33I CHLOR 50PPB				
17	Vial 10	GCPS9-33I CHLOR 100PPB				
18	Vial 11	GCPS9-33I CHLOR 200PPB				
19	Vial 12	GCPS9-33I CHLOR 500PPB				
20	Vial 13	GCPS9-33I CHLOR 1000PPB				
21	Vial 14	GCPS9-33I CHLOR 2000PPB				
22	Vial 15	DWSTD08-84J CHLOR ICV 200PPB				
23	Vial 95	IB				

Sequence Table (Back Injector):

No entries - empty table!

Sequence: C:\GC33\SEQUENCE\100923.S

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 100	HEXANE PRIMER				
2	Vial 100	HEXANE PRIMER				
3	Vial 1	IB				
4	Vial 2	ICAL 100923 LV1				
5	Vial 3	ICAL 100923 LV2				
6	Vial 4	ICAL 100923 LV3				
7	Vial 5	ICAL 100923 LV4				
8	Vial 6	ICAL 100923 LV5				
9	Vial 7	ICAL 100923 LV6				
10	Vial 8	ICAL 100923 ICV`				
11	Vial 9	DBRT CHECK KQ2317636-06				
12	Vial 1	IB				
13	Vial 10	KQ2317636-01-MB				
14	Vial 11	KQ2317636-02-LCS				
15	Vial 12	KQ2317636-03-DLCS				
16	Vial 13	KQ2317636-04-MDL				
17	Vial 2	KQ2317636-05-LCS_LL				
18	Vial 14	K2310668-006-RE-20X				
19	Vial 15	K2310668-007-RE-20X				
20	Vial 16	K2310668-011-RE				
21	Vial 17	K2310668-012-RE				
22	Vial 5	ICAL 100923 LV4				
23	Vial 1	IB				
24	Vial 99	PRIMER				
25	Vial 99	PRIMER				
26	Vial 94	PEM				
27	Vial 95	IB				
28	Vial 18	PCB9-47B 25PPB 1660				
29	Vial 19	PCB9-47B 50PPB 1660				
30	Vial 20	PCB9-47B 100PPB 1660				
31	Vial 21	PCB9-47B 200PPB 1660				
32	Vial 22	PCB9-47B 500PPB 1660				
33	Vial 23	PCB9-47B 1000PPB 1660				
34	Vial 24	PCB9-47C 200PPB 2154				
35	Vial 25	PCB9-47D 200PPB 3262				
36	Vial 26	PCB9-47E 200PPB 4268				
37	Vial 27	PCB9-47F 200PPB 1248				
38	Vial 28	PCB9-48D 1016 ICV 200PPB				
39	Vial 29	PCB9-48J 1260 ICV 200PPB				
40	Vial 95	IB				

Sequence Table (Back Injector):

No entries - empty table!

1st BB 10/11/23
2nd JW 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 11:33:32 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:49:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1) I	Pentachlo...	11.027f	10.854f	97597567	115.5E6	50.000m	50.000	
	System Monitoring Compounds					pass <15%	pass <15%	
	Target Compounds							
14) m	4,4'-DDE	13.510	13.592	100492	109813	0.089	0.068	
17) m	Endrin	14.233f	14.195	5362975	7671358	5.153m	5.392	
18) m	4,4'-DDD	14.283	14.308	59127	148409	0.073	0.117	#
20) m	4,4'-DDT	14.632	14.695	8489057	13433168	10.812	11.198	
21) m	Endrin Al...	15.053	14.871	346292	325223	0.442	0.302	#
24) m	Endrin Ke...	16.030	15.938	216595	241526	0.212	0.191	
	SemiQuant Compounds - Not Calibrated on this Instrument							

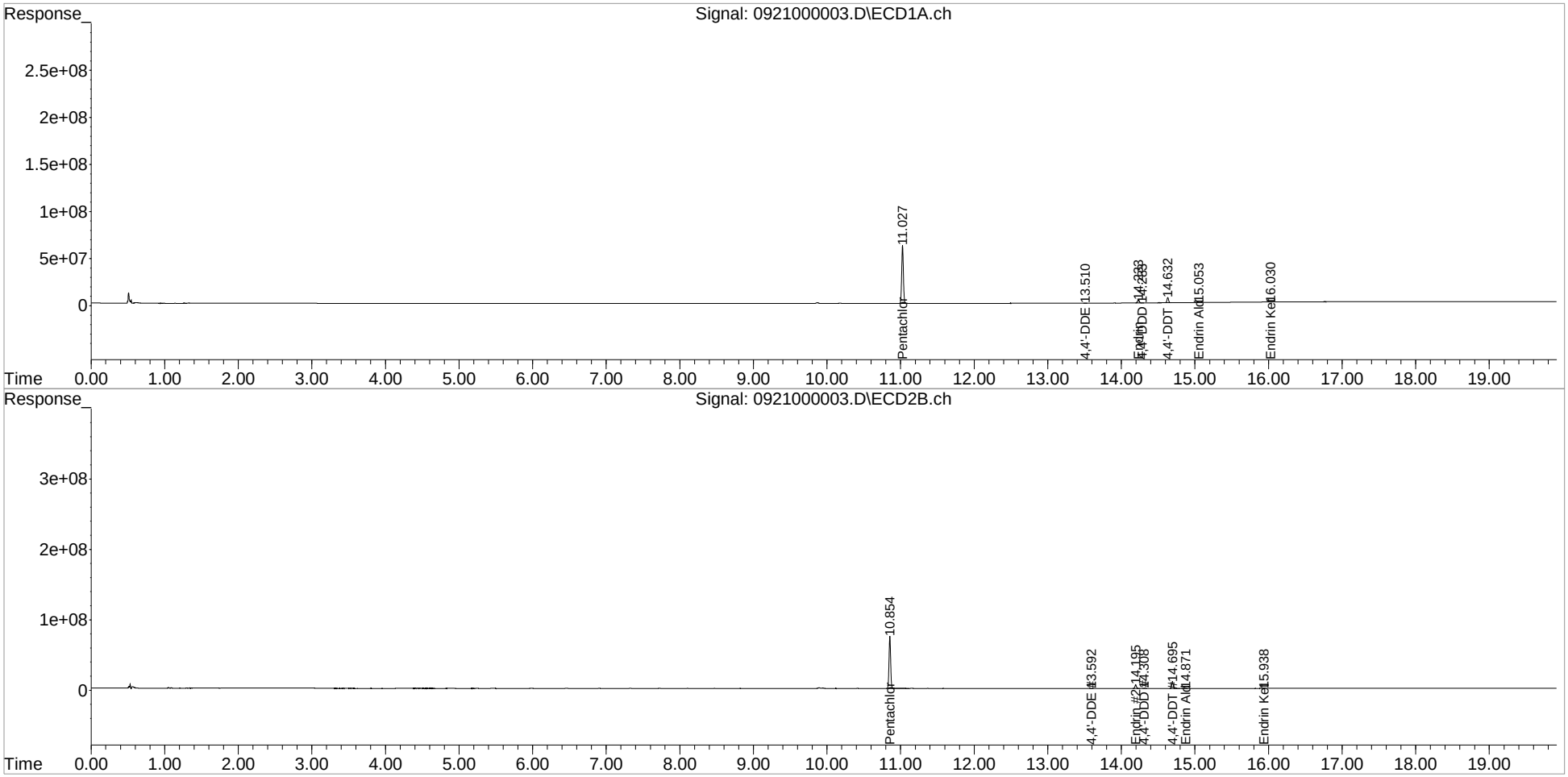
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 11:33:32 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:49:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

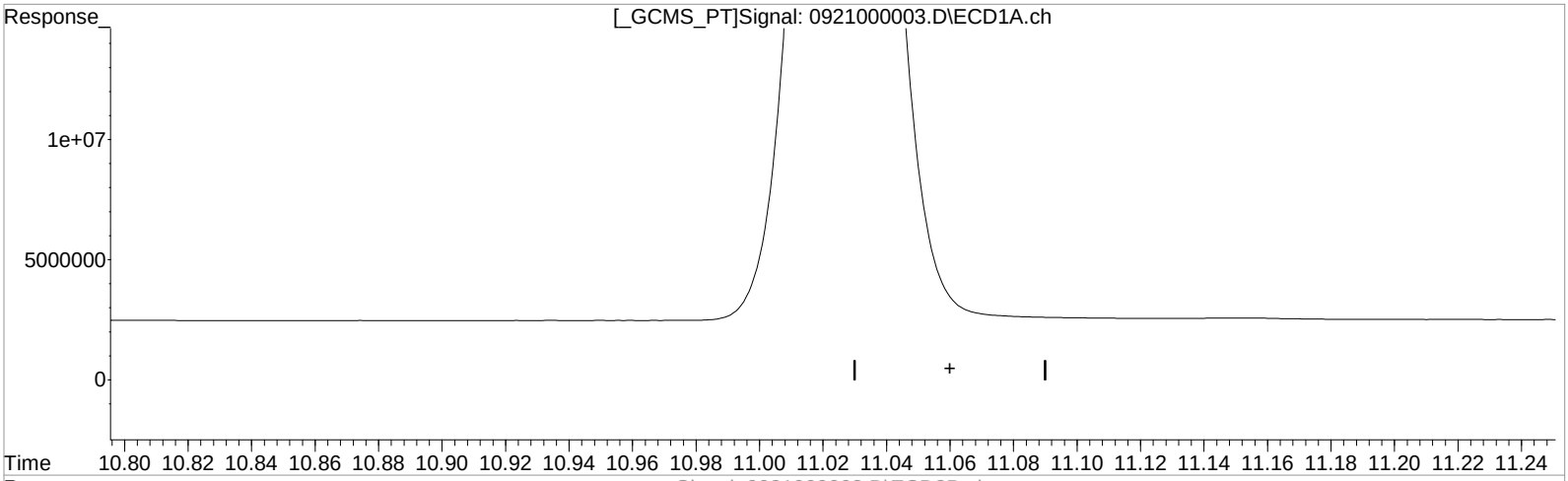


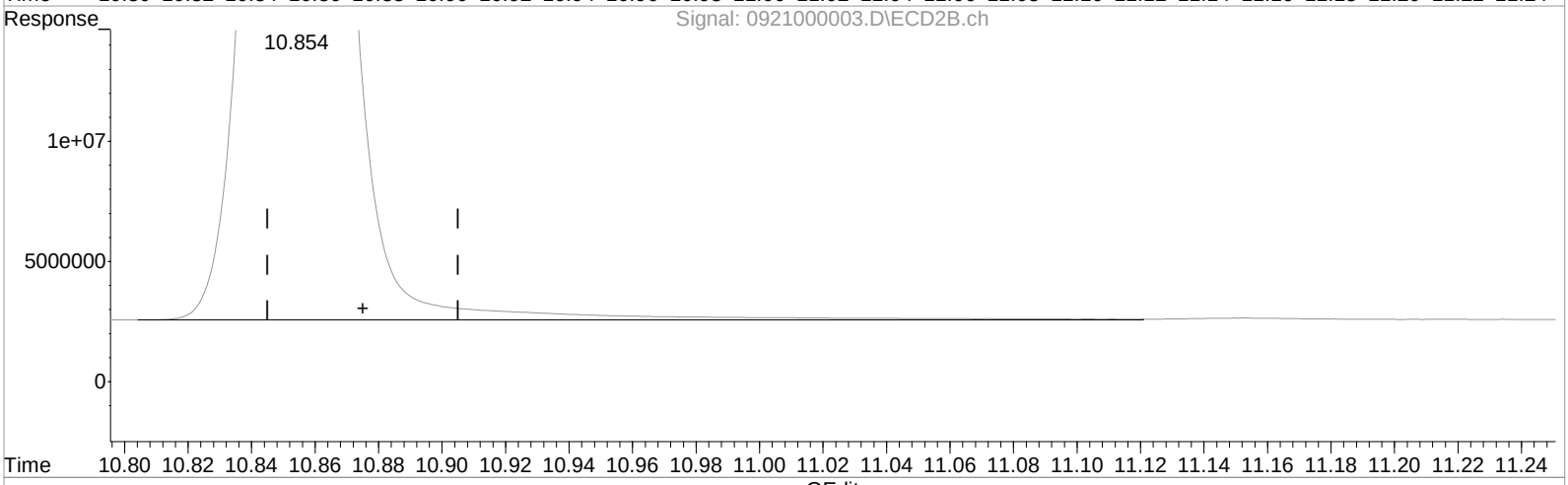
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\092123\0921000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 11:33:32 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:43:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.854min 50.000 ug/L

response 115455798

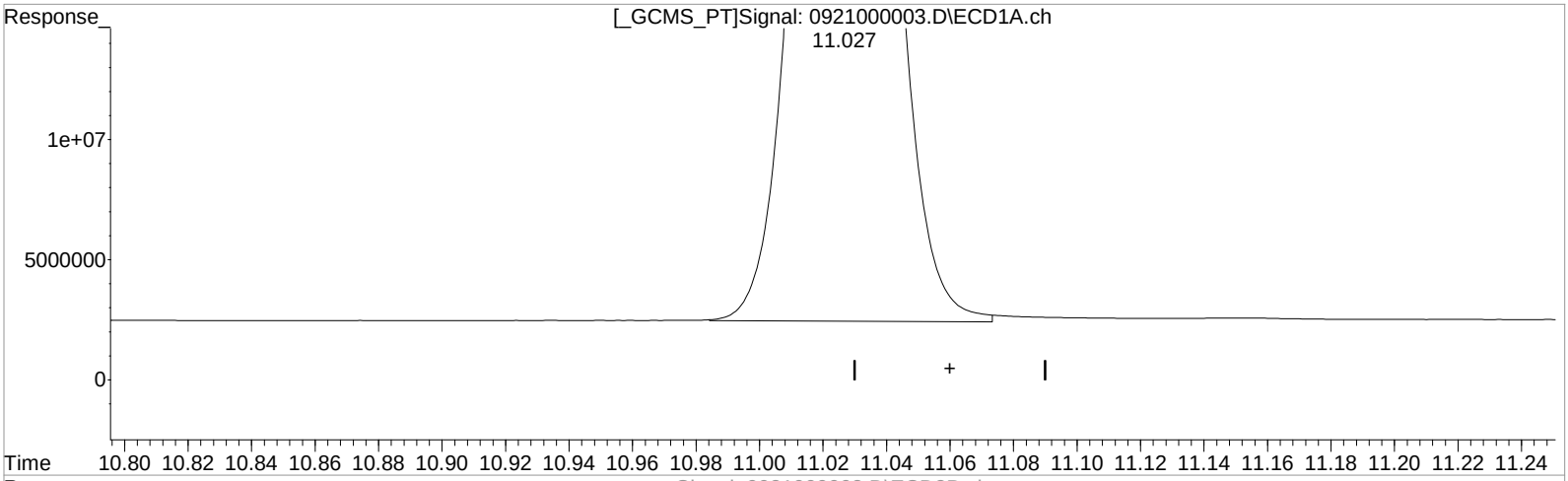
(+) = Expected Retention Time

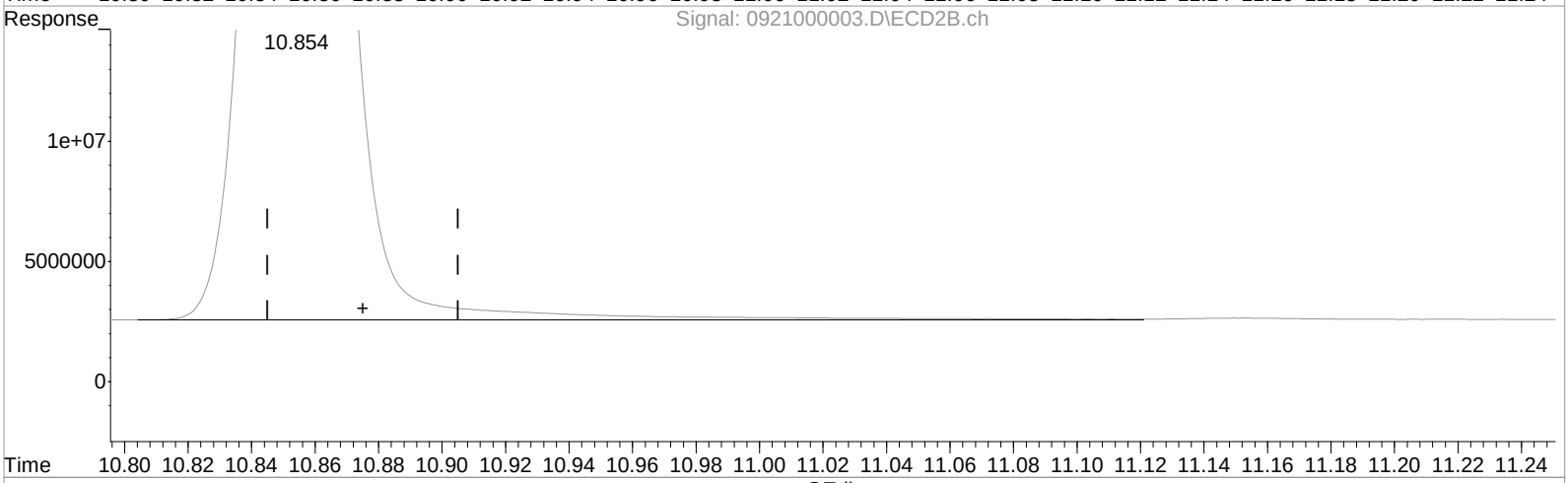
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\092123\0921000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 11:33:32 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:43:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

11.027min 50.000 ug/L m

response 97597567

Manual Integration:

After

Missed Peak

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.854min 50.000 ug/L

response 115455798

(+) = Expected Retention Time

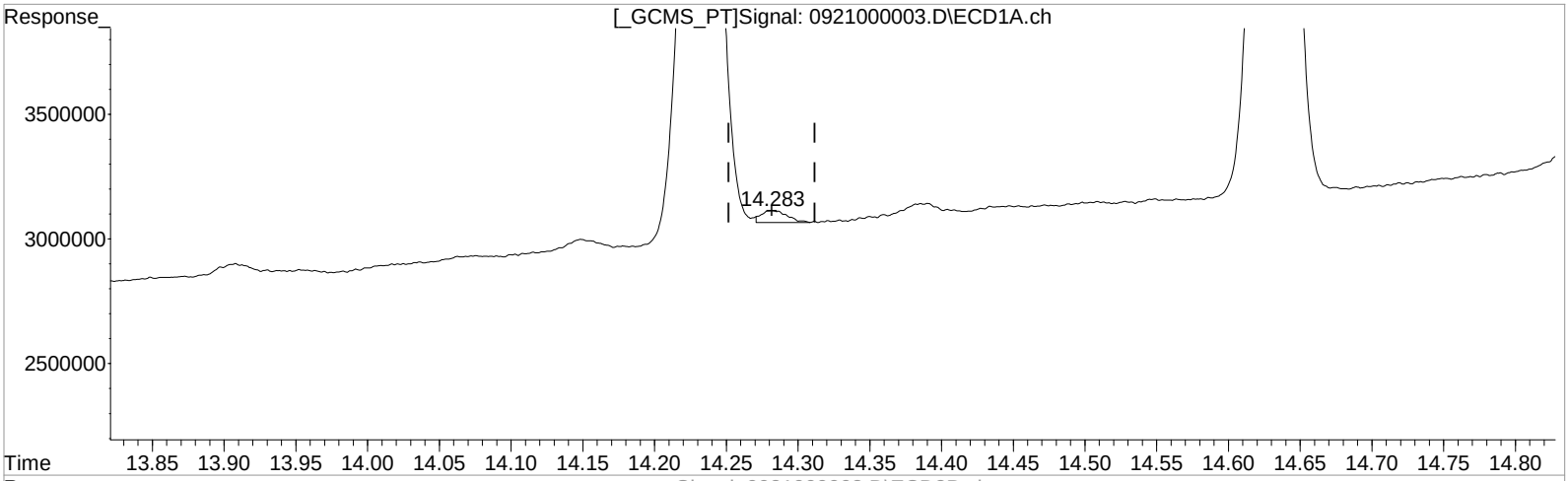
Quantitation Report (Qedit)

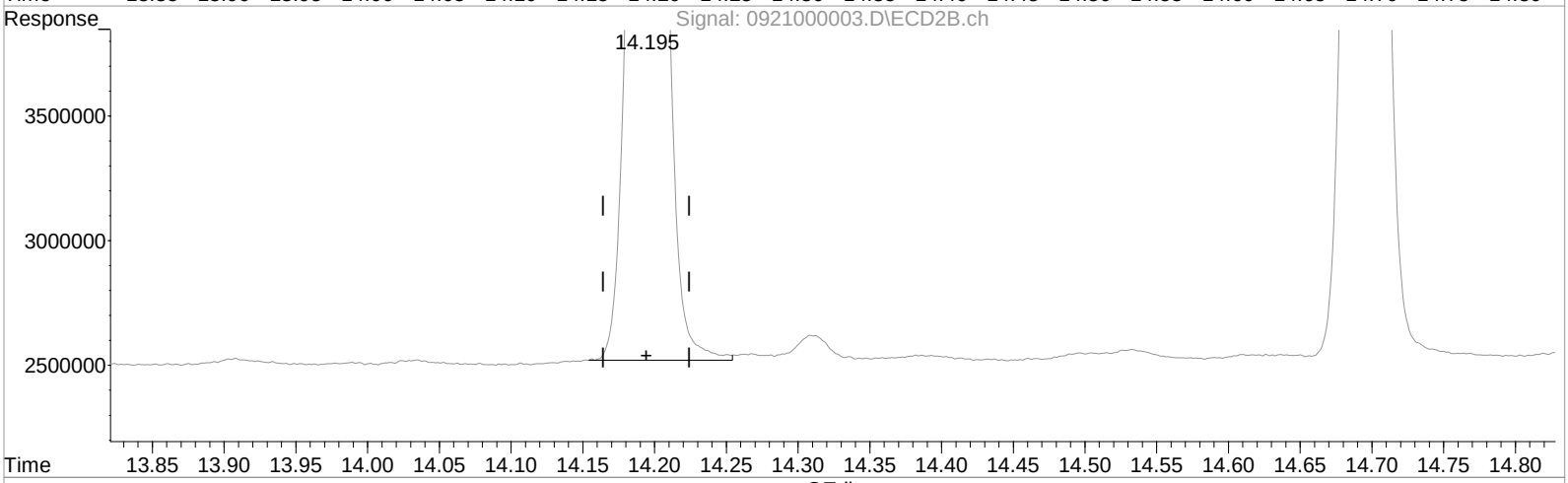
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\092123\0921000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 11:33:32 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:43:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

14.283min 0.057 ug/L

response 59127

Manual Integration:

Before

10/11/23

(17) Endrin #2 (m)

14.195min 5.392 ug/L

response 7671358

(+) = Expected Retention Time

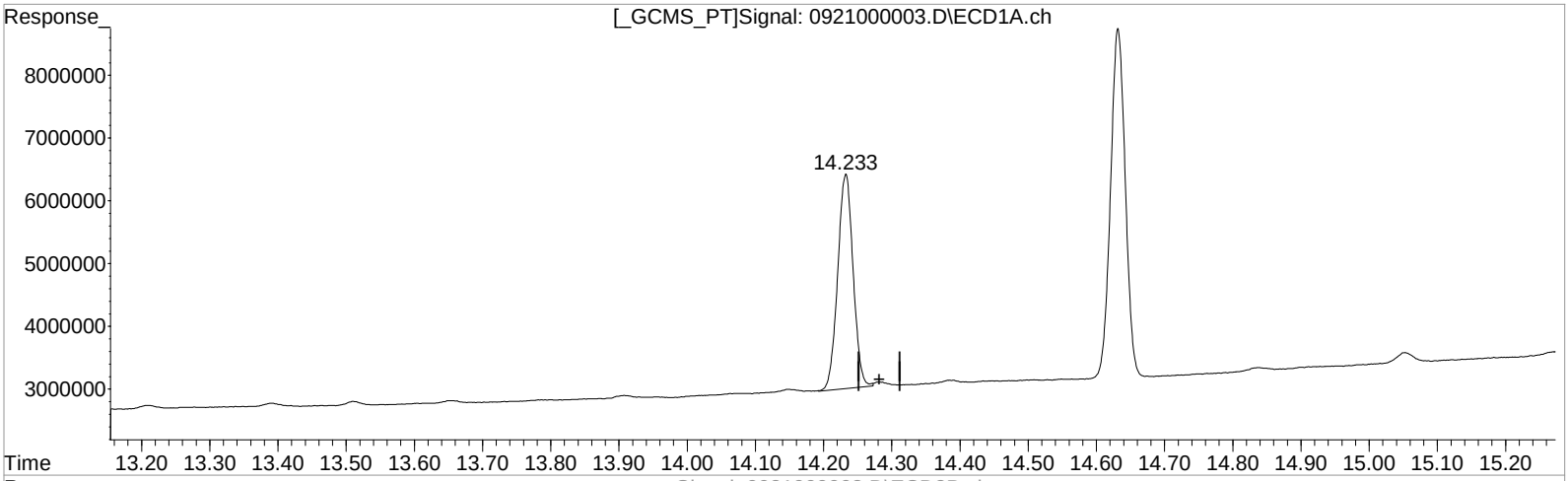
Quantitation Report (Qedit)

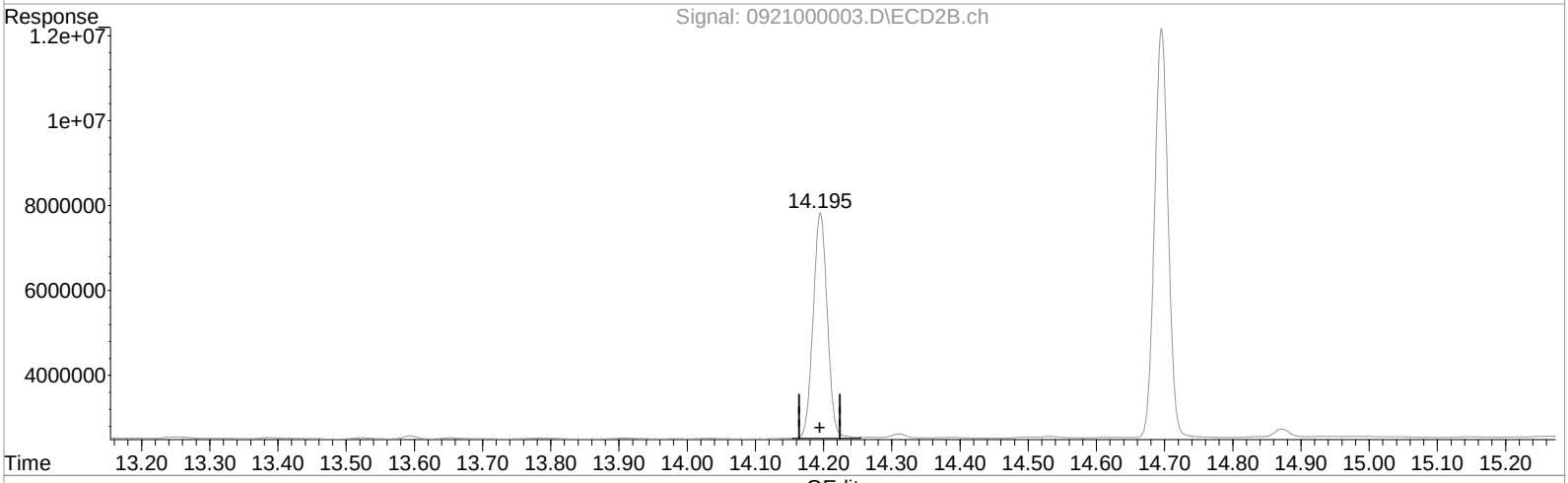
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\092123\0921000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 11:33:32 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:43:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

14.233min 5.153 ug/L m

response 5362975

Manual Integration:

After

Missed Peak

10/11/23

(17) Endrin #2 (m)

14.195min 5.392 ug/L

response 7671358

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 12:05:59 Operator: bb
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:45:10 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
1) I	Pentachlo...	11.027f	10.853f	96803122	112.6E6	50.000m	50.000
	System Monitoring Compounds						
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

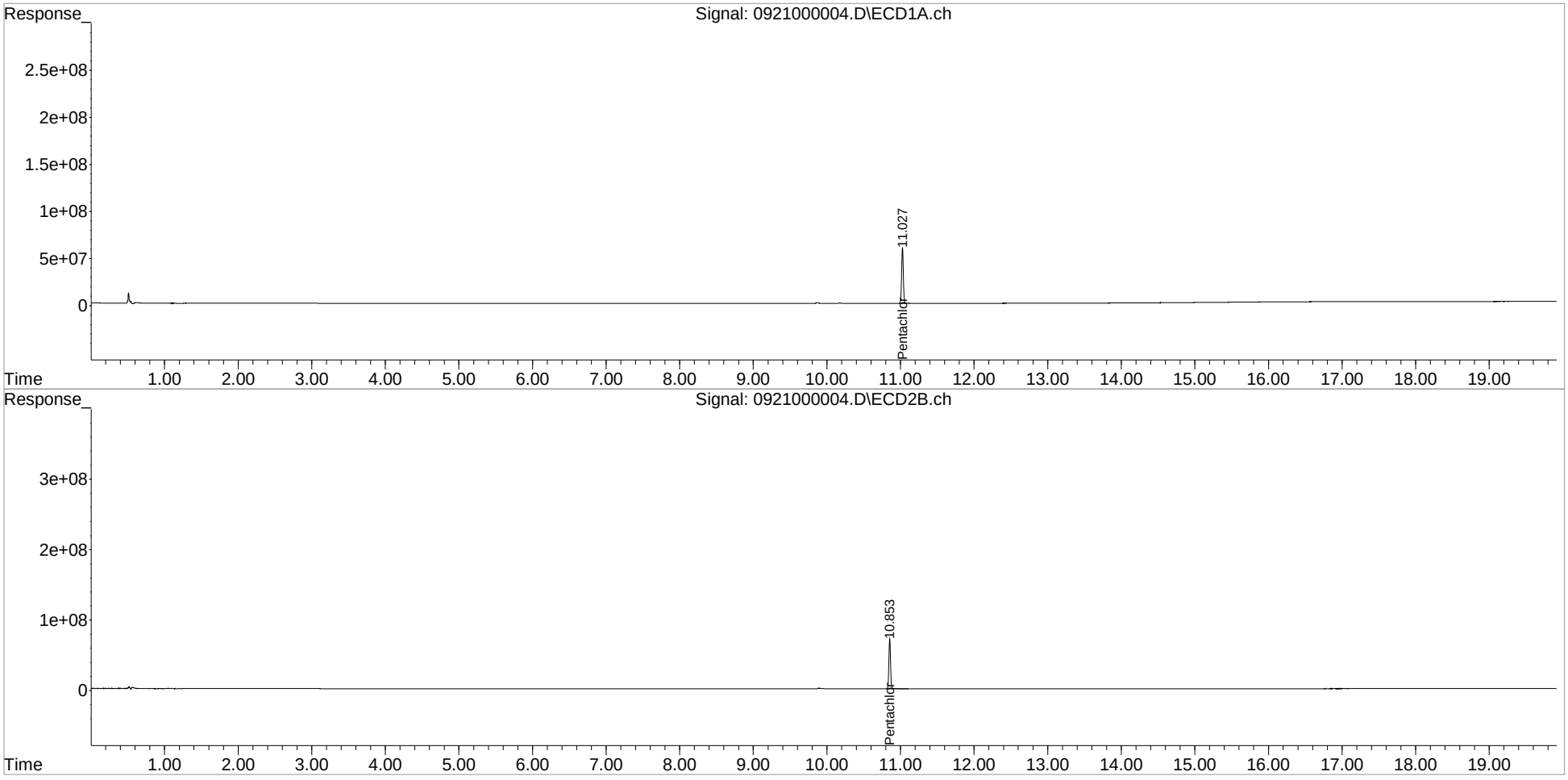
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 12:05:59 Operator: bb
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:45:10 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



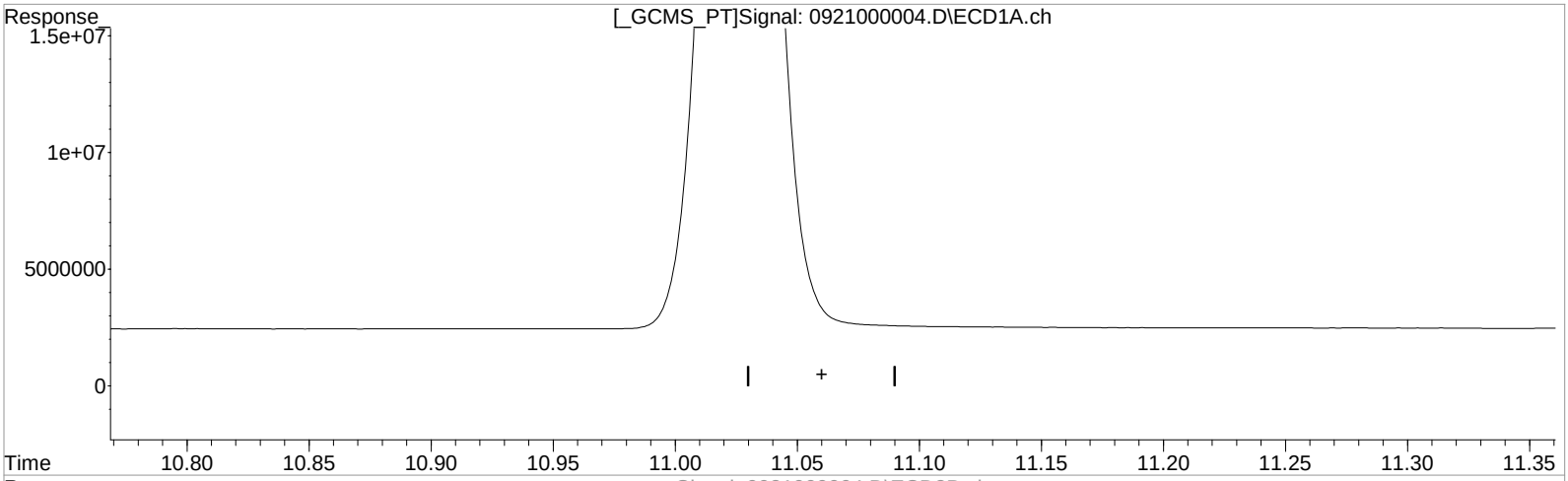
Quantitation Report (Qedit)

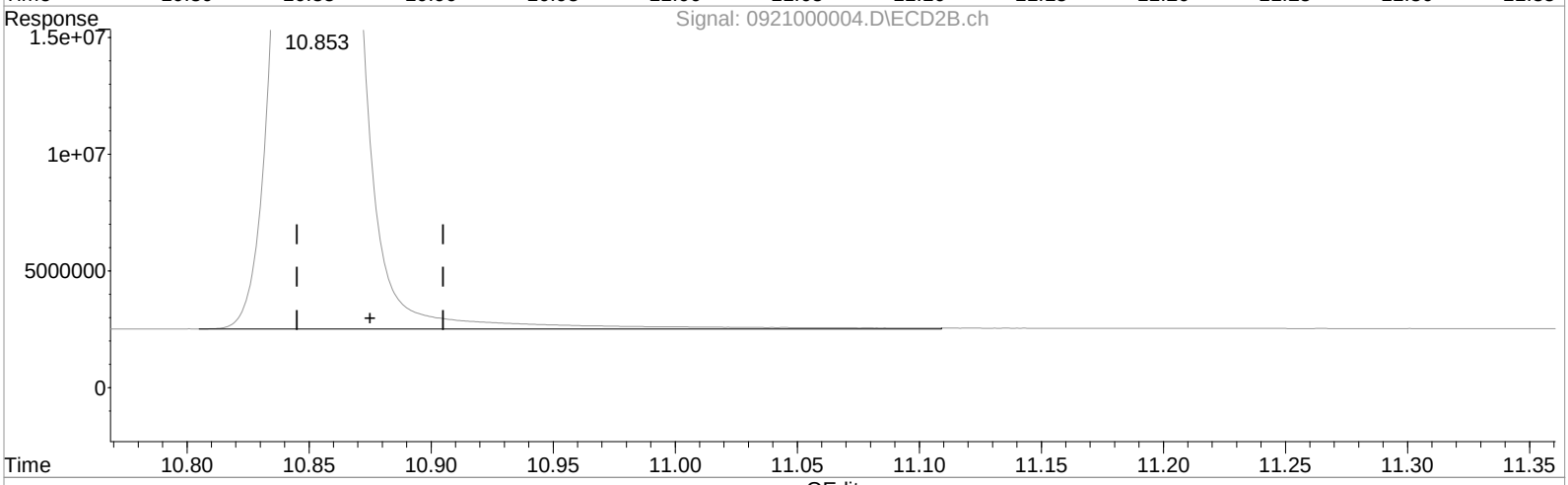
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 12:05:59 Operator: bb
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:43:32 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.853min 50.000 ug/L

response 112635401

(+) = Expected Retention Time

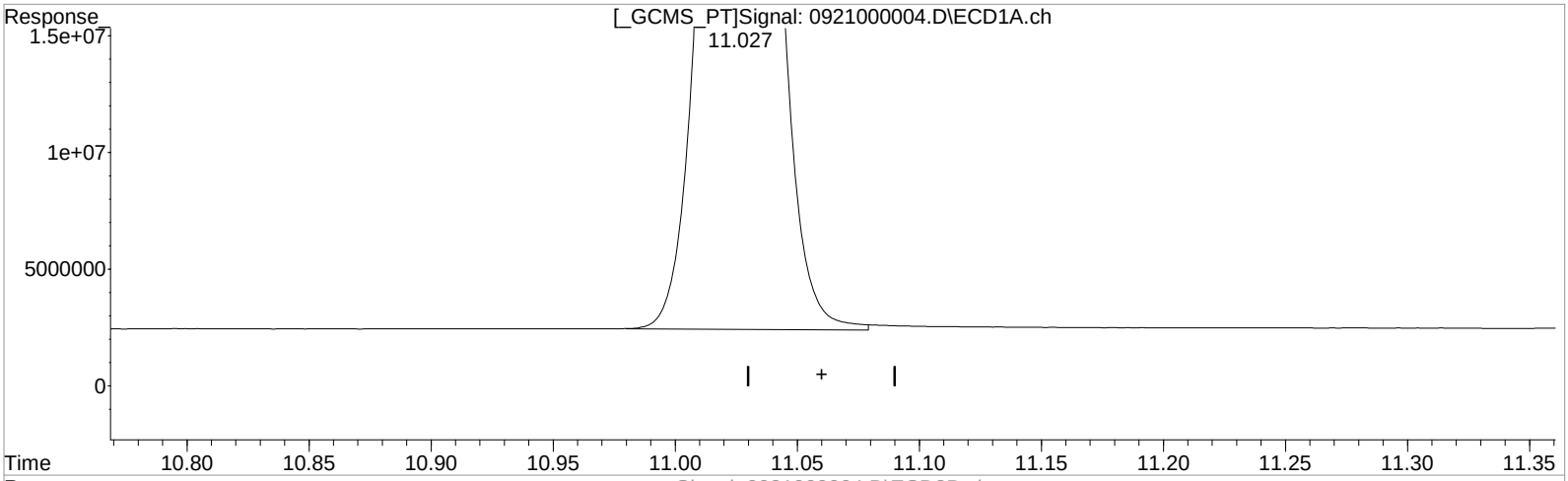
Quantitation Report (Qedit)

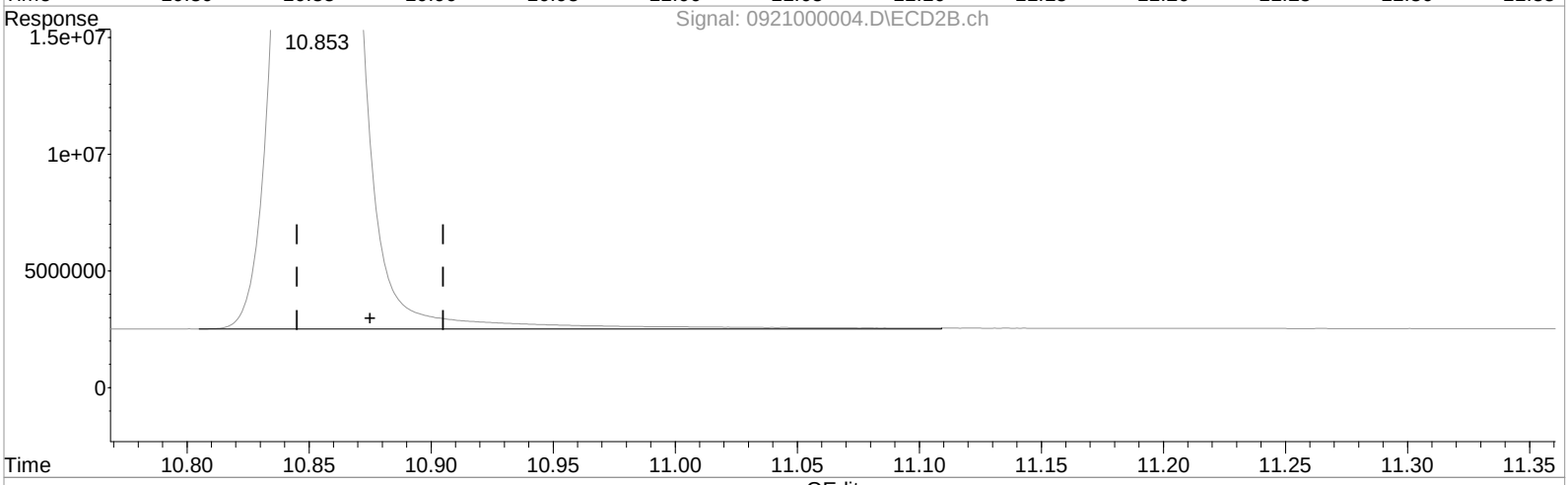
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000004.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 12:05:59 Operator: bb
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:43:32 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

11.027min 50.000 ug/L m

response 96803122

Manual Integration:

After

Baseline/Shoulder

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.853min 50.000 ug/L

response 112635401

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000005.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 12:38:35 Operator: bb
Sample : DWSTD08-82B 2PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:24:31 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	11.028	10.853	89851081	100.0E6	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.947	8.804	2489196	5565409	1.284	1.298	
4)	S	4,4'-Dibr...	0.000	0.017	0	216922	N.D.	14.118	#
25)	S	Decachlor...	17.316	17.597	2943264	3365907	1.491	1.731	
		Target Compounds							
3)	m	alpha-BHC	10.263	10.234	3843699	6008339	0.830	1.075	#
5)	m	gamma-BHC...	10.889	10.908	3771209	7213731	0.872	1.379	#
6)	m	beta-BHC	0.000	11.075	0	2972007	N.D.	1.308	#
7)	m	delta-BHC	11.358	11.543	3363937	5042036	0.820	1.143	#
8)	m	Heptachlor	11.699	11.619	3088151	5005102	0.875	1.160	#
9)	m	Aldrin	12.168	12.103	3879690	5458056	0.930	1.096	
10)	m	Heptachlo...	0.000	0.017	0	216922	N.D.	14.118	#
11)	m	Heptachlo...	13.063	12.928	3355040	4720010	0.971	1.143	
12)	m	beta-Chlo...	13.234	13.182	3430966	4648191	1.017	1.147	
13)	m	alpha-Chl...	13.416	13.377	3248437	4621273	1.002	1.175	
14)	m	4,4'-DDE	13.510	13.592	2639016	3814664	0.938	1.092	
15)	m	Endosulfan I	13.607	13.450	2871704	4102166	0.945	1.150	
16)	m	Dieldrin	13.924	13.805	2924784	4394504	0.894	1.099	
17)	m	Endrin	14.232	14.194	2304487	3344671	0.825	1.045	#
18)	m	4,4'-DDD	14.282	14.310	1823563	3055960	0.893	1.141	#
19)	m	Endosulfa...	14.520	14.455	2635495	3460764	1.024	1.203	
20)	m	4,4'-DDT	14.631	14.695	1811217	2903285	0.909	1.139	#
21)	m	Endrin Al...	15.054	14.871	2106094	2844735	1.141	1.290	
22)	m	Methoxychlor	15.204	15.531	952866	1545022	1.000	1.332	#
23)	m	Endosulfa...	15.643	15.217	2394139	3114196	1.064	1.188	
24)	m	Endrin Ke...	16.031	15.939	2707944	3284238	1.112	1.492	#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

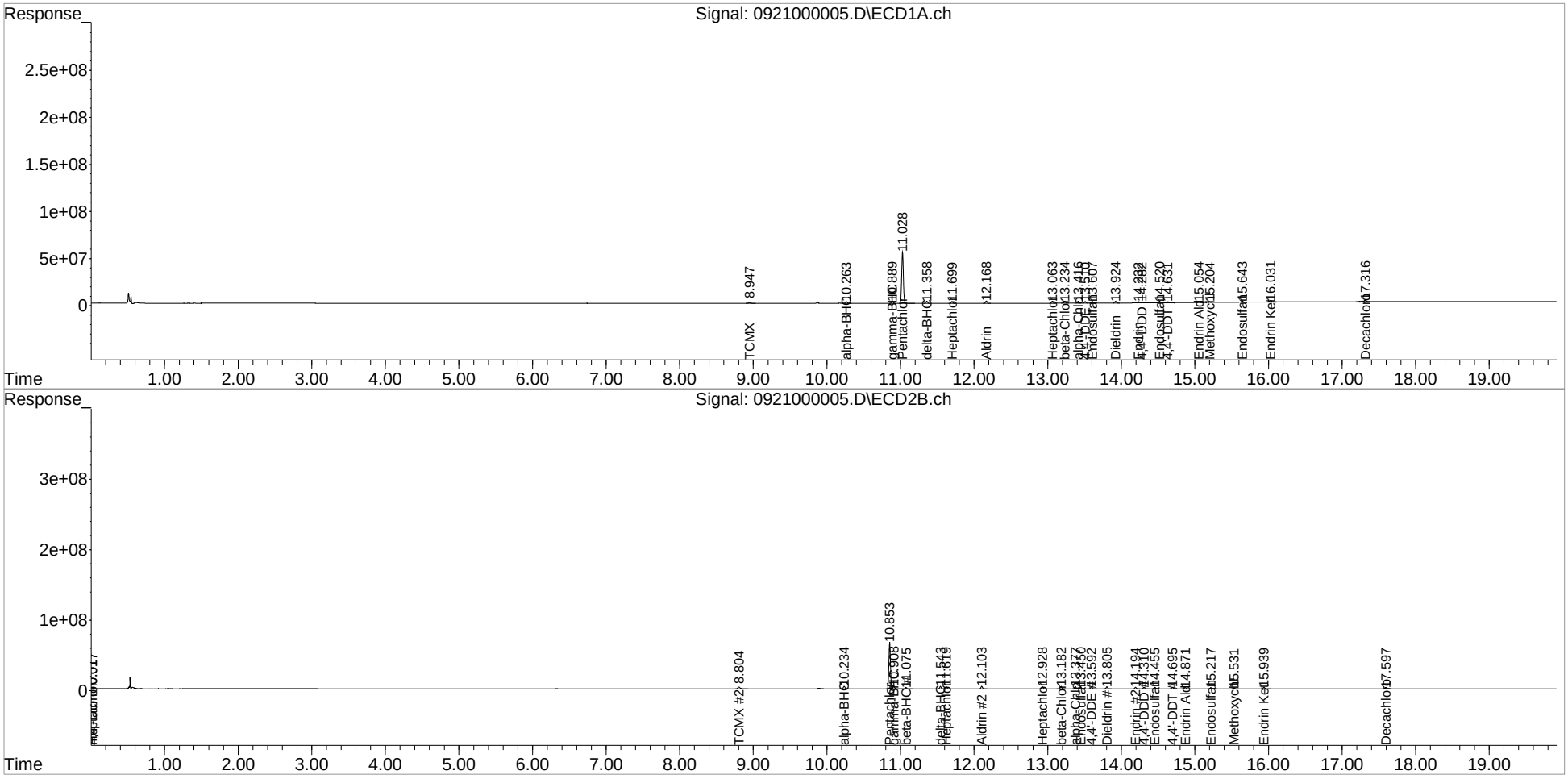
1st BB 10/01/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000005.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 12:38:35 Operator: bb
Sample : DWSTD08-82B 2PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:24:31 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000006.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 13:11:01 Operator: bb
Sample : DWSTD08-82B 5PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:33:04 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	11.028	10.853	97242274	104.7E6	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.946	8.806	5010549	11058855	2.388	2.464	
4)	S	4,4'-Dibr...	0.000	0.018	0	187223	N.D.	11.638	#
25)	S	Decachlor...	17.317	17.597	5941207	6490186	2.781	3.187	
		Target Compounds							
3)	m	alpha-BHC	10.263	10.235	8168474	12330011	1.629	2.107	#
5)	m	gamma-BHC...	10.889	10.908	7944343	13404454	1.697	2.447	#
6)	m	beta-BHC	0.000	11.075	0	5558551	N.D.	2.337	#
7)	m	delta-BHC	11.358	11.543	7145399	10142528	1.609	2.197	#
8)	m	Heptachlor	11.698	11.620	6411481	10041622	1.678	2.224	#
9)	m	Aldrin	12.168	12.104	8011794	10965561	1.774	2.104	
10)	m	Heptachlo...	0.000	0.018	0	187223	N.D.	11.638	#
11)	m	Heptachlo...	13.063	12.927	6809028	9306347	1.822	2.153	
12)	m	beta-Chlo...	13.233	13.182	6925619	9445737	1.897	2.226	
13)	m	alpha-Chl...	13.417	13.377	6402645	9054930	1.825	2.199	
14)	m	4,4'-DDE	13.510	13.592	5377694	7690968	1.766	2.102	
15)	m	Endosulfan I	13.607	13.449	6049727	8294213	1.840	2.221	
16)	m	Dieldrin	13.924	13.805	6289635	8774489	1.776	2.096	
17)	m	Endrin	14.233	14.194	5024520	6698111	1.662	1.999	
18)	m	4,4'-DDD	14.281	14.310	3839369	6039547	1.738	2.154	
19)	m	Endosulfa...	14.520	14.455	5407334	6780496	1.942	2.250	
20)	m	4,4'-DDT	14.633	14.695	3726712	5696664	1.727	2.135	
21)	m	Endrin Al...	15.054	14.871	4285758	5390494	2.145	2.334	
22)	m	Methoxychlor	15.203	15.531	1953134	3057093	1.894	2.517	#
23)	m	Endosulfa...	15.643	15.218	5012570	5982057	2.059	2.179	
24)	m	Endrin Ke...	16.031	15.940	5553363	6363601	2.108	2.761	#
		SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

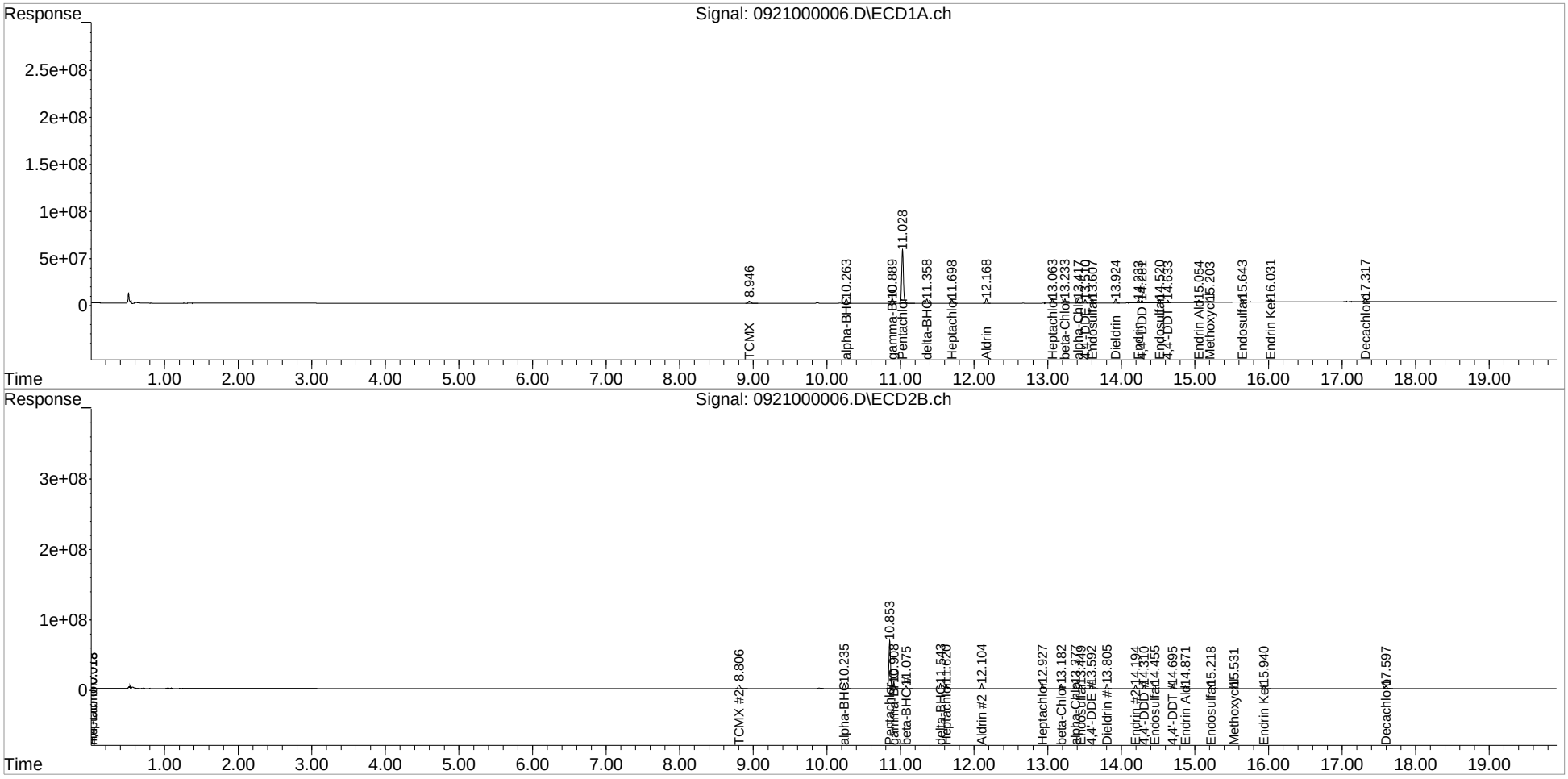
1st BB 10/01/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000006.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 13:11:01 Operator: bb
Sample : DWSTD08-82B 5PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:33:04 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 13:43:34 Operator: bb
Sample : DWSTD08-82B 20PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:47:03 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1) I	Pentachlo...	11.028	10.853	106.0E6	102.4E6	50.000	50.000	
	System Monitoring Compounds							
2) s	TCMX	8.945	8.804	18919008	42236186	8.272	9.624	
4) S	4,4'-Dibr...	0.000	0.016	0	212196	N.D.	13.493	#
25) S	Decachlor...	17.316	17.598	22362917	22742660	9.604m	11.424	
	Target Compounds							
3) m	alpha-BHC	10.265	10.235	37953147	51431990	6.944	8.989	#
5) m	gamma-BHC...	10.890	10.909	35809623	48640501	7.019	9.082	#
6) m	beta-BHC	11.059	11.075	9585723	20698011	5.810m	8.900	#
7) m	delta-BHC	11.358	11.543	33675785	42394033	6.957	9.392	#
8) m	Heptachlor	11.698	11.620	28561730	40865969	6.859	9.256	#
9) m	Aldrin	12.168	12.104	35471314	45112172	7.205	8.854	
10) m	Heptachlo...	0.000	0.016	0	212196	N.D.	13.493	#
11) m	Heptachlo...	13.063	12.928	28759096	36800539	7.059	8.708	
12) m	beta-Chlo...	13.234	13.182	27931434	36179362	7.020	8.722	
13) m	alpha-Chl...	13.417	13.378	26527792	35059785	6.938	8.711	#
14) m	4,4'-DDE	13.510	13.592	22723529	30785180	6.847	8.606	#
15) m	Endosulfan I	13.606	13.450	25145793	31776053	7.016	8.706	
16) m	Dieldrin	13.924	13.806	26966424	35339494	6.985	8.636	
17) m	Endrin	14.232	14.195	21078748	26573726	6.399	8.110	#
18) m	4,4'-DDD	14.281	14.310	16193841	23707991	6.723	8.647	#
19) m	Endosulfa...	14.521	14.456	21379285	26242685	7.045	8.909	#
20) m	4,4'-DDT	14.632	14.696	15433232	22285810	6.563	8.544	#
21) m	Endrin Al...	15.054	14.871	16582048	20442789	7.614	9.055	
22) m	Methoxychlor	15.203	15.531	7856785	10913048	6.992	9.190	#
23) m	Endosulfa...	15.643	15.218	19224525	22681260	7.245	8.452	
24) m	Endrin Ke...	16.031	15.940	21684459	23902040	7.550	10.607	#
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

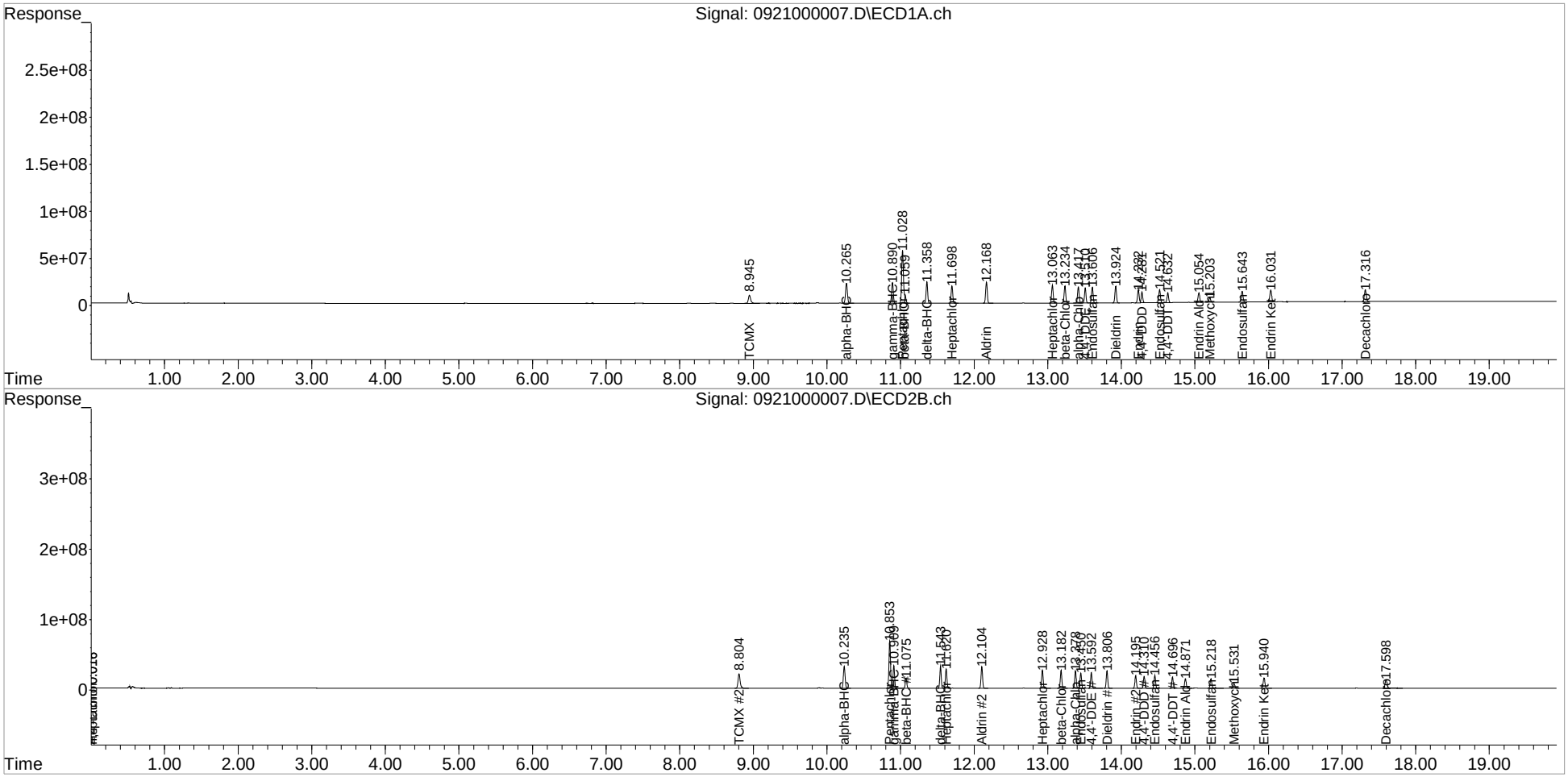
1st BB 10/01/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 13:43:34 Operator: bb
Sample : DWSTD08-82B 20PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:47:03 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



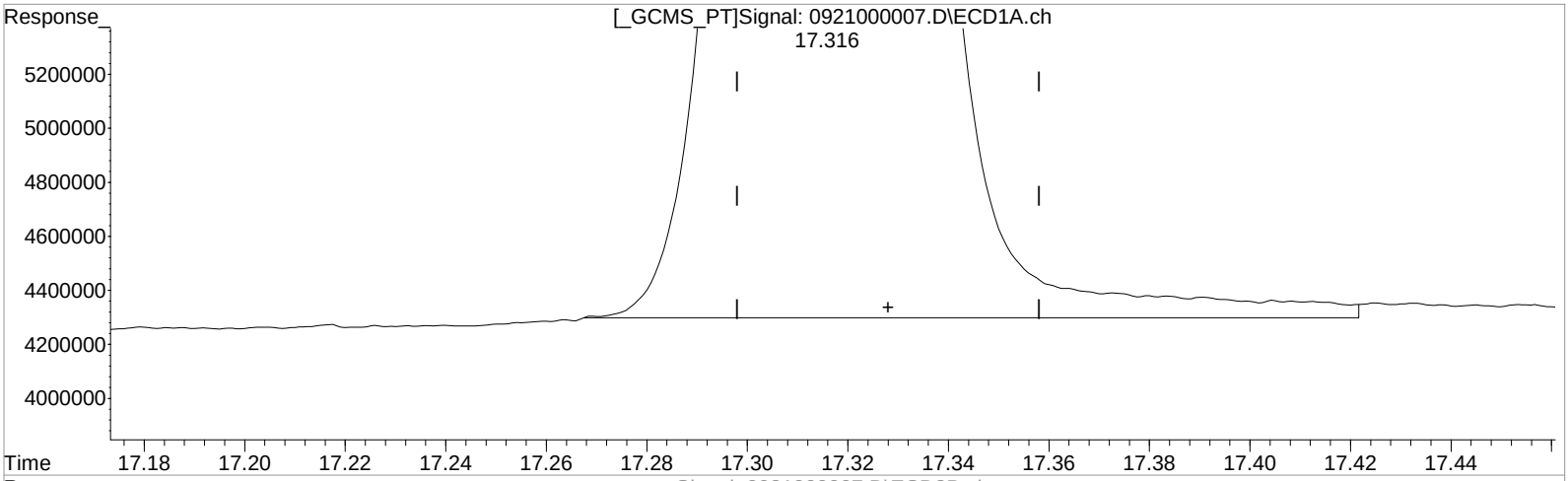
Quantitation Report (Qedit)

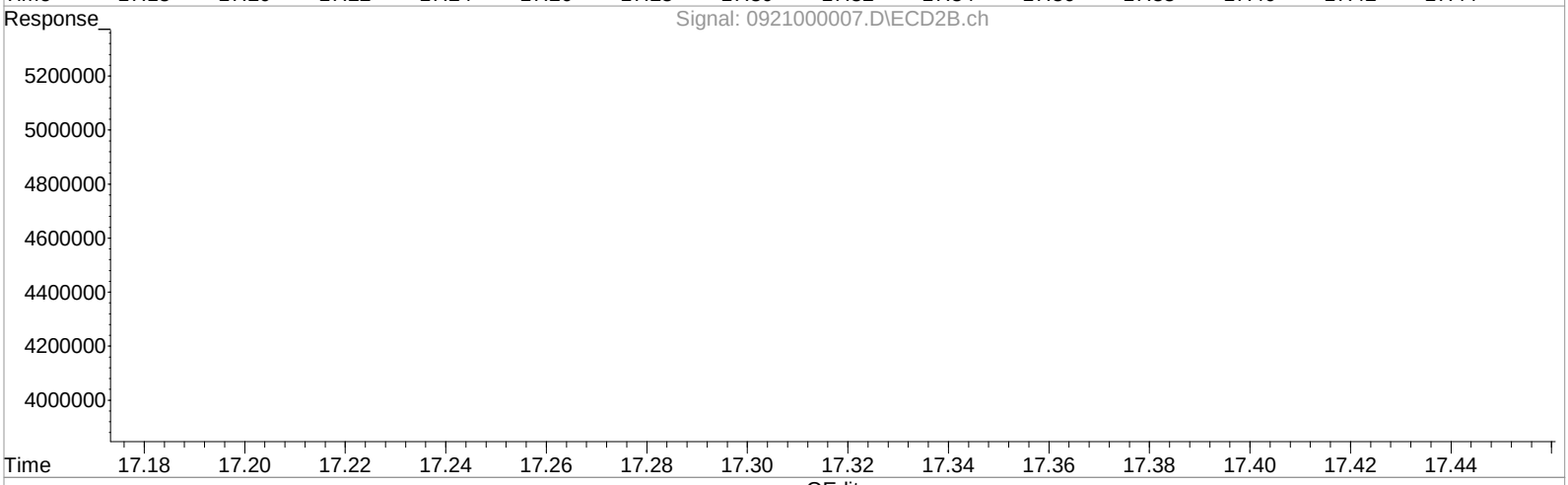
1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 13:43:34 Operator: bb
Sample : DWSTD08-82B 20PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:35:04 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.316min 9.680 ug/L

response 22538638

Manual Integration:

Before

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.598min 11.424 ug/L

response 22742660

(+) = Expected Retention Time

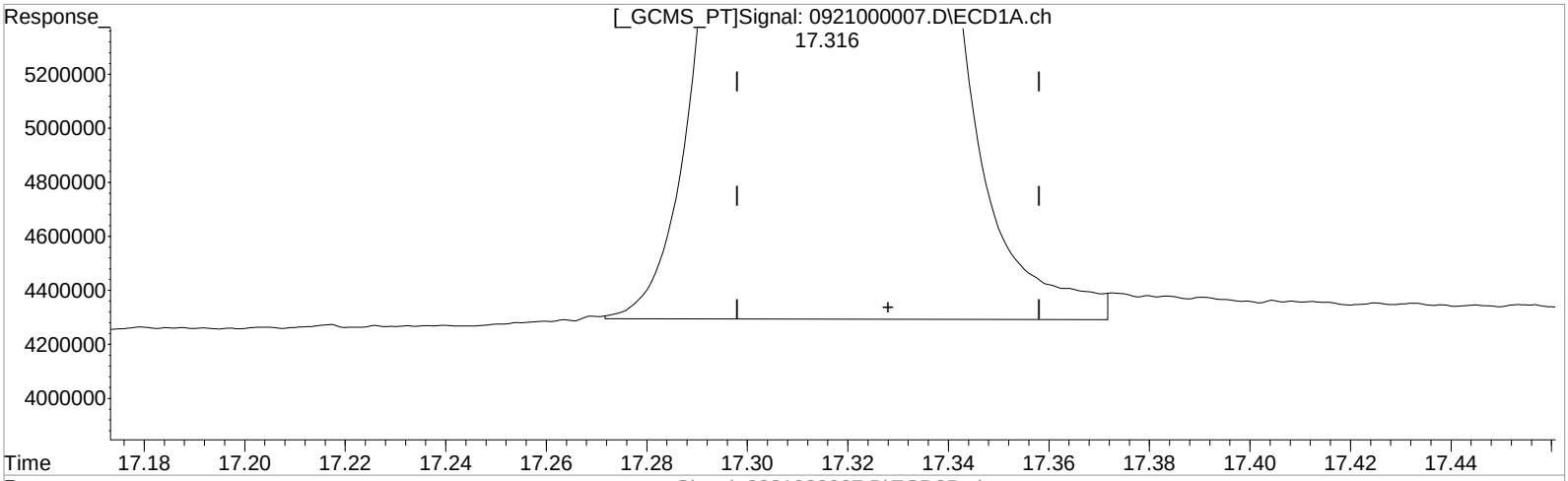
Quantitation Report (Qedit)

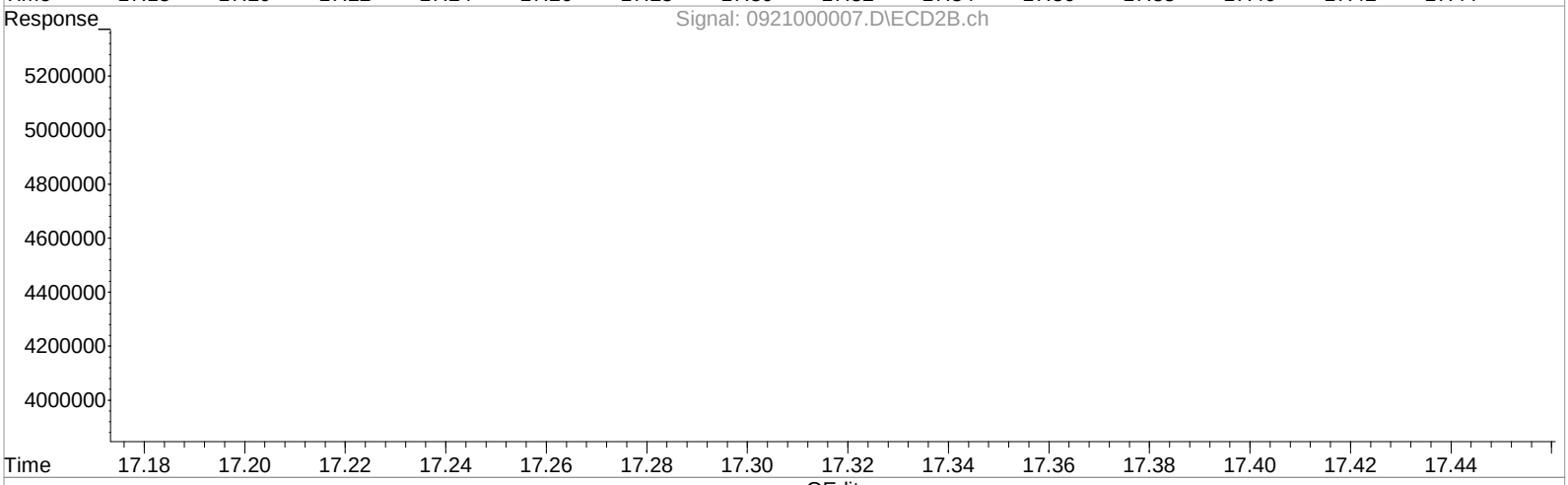
1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 13:43:34 Operator: bb
Sample : DWSTD08-82B 20PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:35:04 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.316min 9.604 ug/L m

response 22362917

Manual Integration:

After

Baseline/Shoulder

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.598min 11.424 ug/L

response 22742660

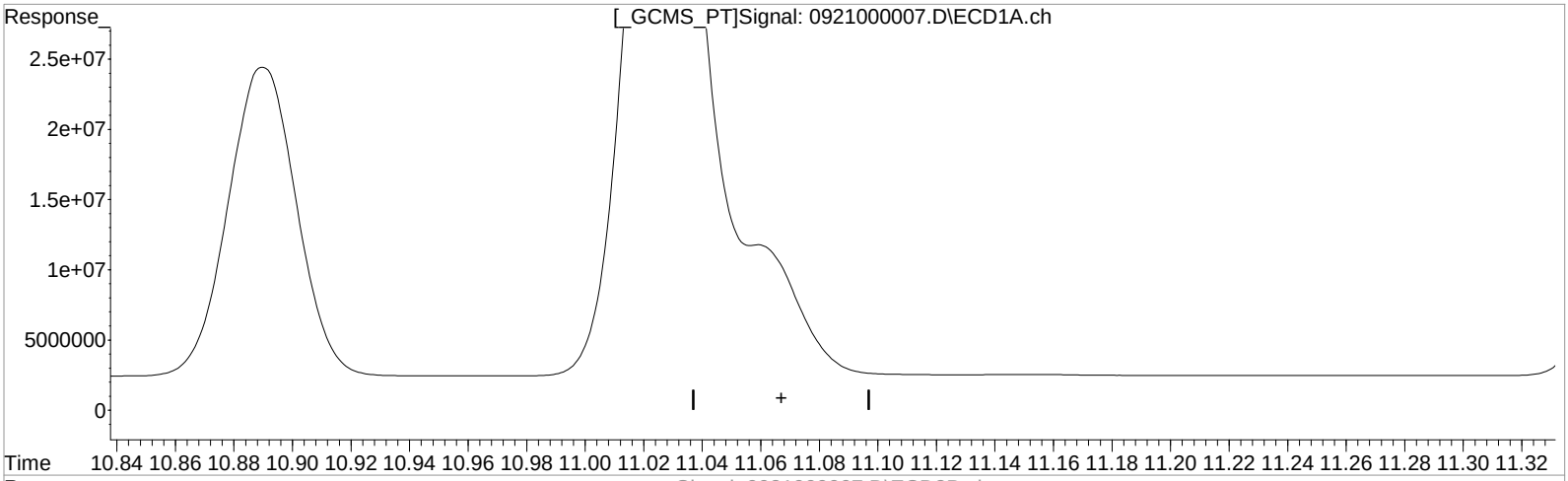
(+) = Expected Retention Time

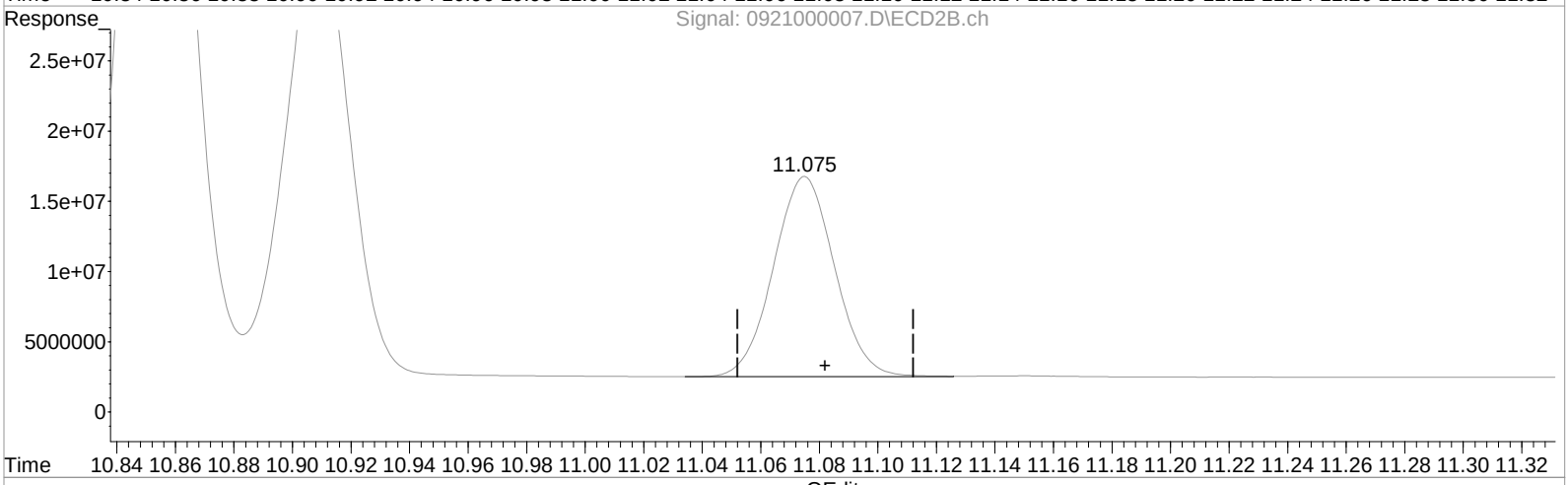
1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 13:43:34 Operator: bb
Sample : DWSTD08-82B 20PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:15 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(6) beta-BHC (m)

0.000min 0.000 ug/L

response 0

(6) beta-BHC #2 (m)

11.075min 8.900 ug/L

response 20698011

Manual Integration:

Before

09/21/23

(+) = Expected Retention Time

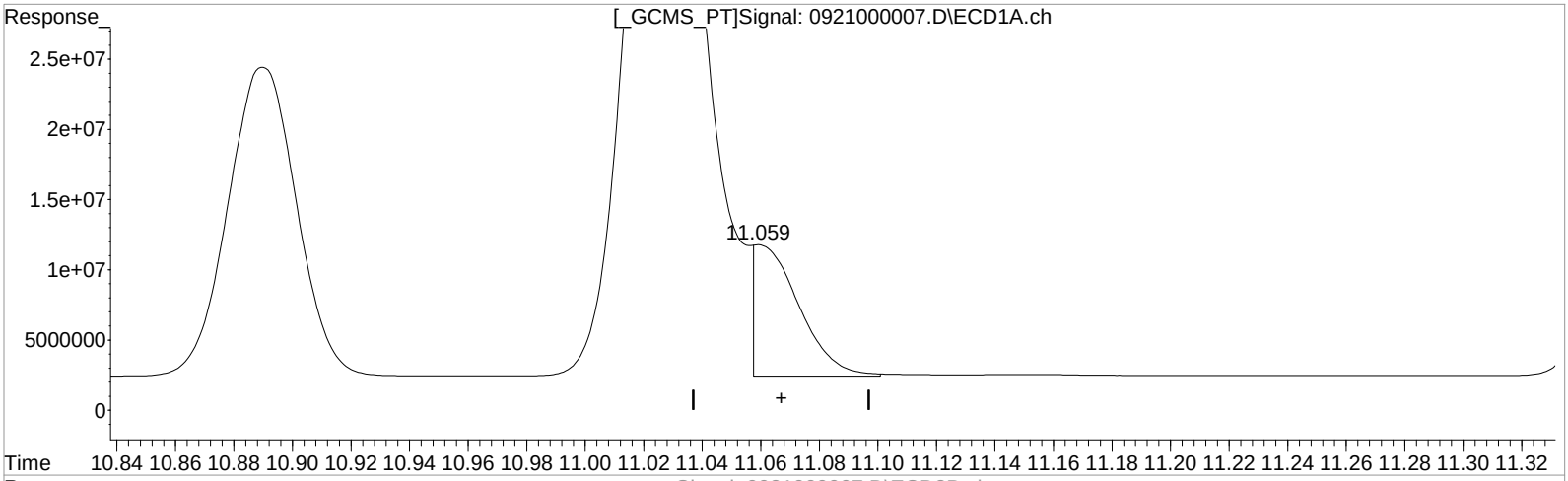
Quantitation Report (Qedit)

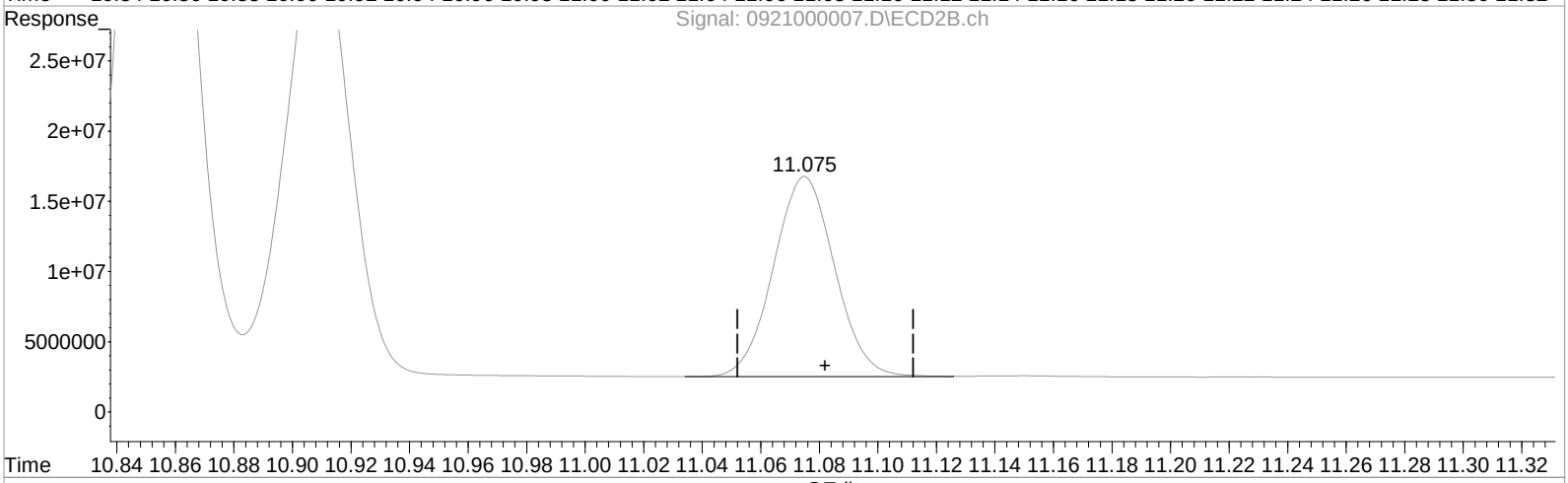
1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 13:43:34 Operator: bb
Sample : DWSTD08-82B 20PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:15 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(6) beta-BHC (m)

11.059min 5.810 ug/L m

response 9585723

Manual Integration:

After

Baseline/Shoulder

09/21/23

(6) beta-BHC #2 (m)

11.075min 8.900 ug/L

response 20698011

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000008.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 14:15:57 Operator: bb
Sample : DWSTD08-82B 50PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:45:58 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	11.028	10.853	98055551	102.3E6	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.946	8.805	51911466	113.3E6	24.535	25.847	
4)	S	4,4'-Dibr...	0.000	0.024	0	163482	N.D.	10.404	#
25)	S	Decachlor...	17.316	17.595	60345909	58333886	28.016m	29.326	
		Target Compounds							
3)	m	alpha-BHC	10.263	10.234	117.0E6	142.8E6	23.147	24.975	
5)	m	gamma-BHC...	10.889	10.908	108.6E6	132.1E6	23.010	24.687	
6)	m	beta-BHC	11.062	11.074	32197899	51935707	21.095	22.351	
7)	m	delta-BHC	11.358	11.543	102.7E6	116.7E6	22.943	25.886	
8)	m	Heptachlor	11.698	11.620	86535696	111.8E6	22.465	25.354	
9)	m	Aldrin	12.168	12.104	105.5E6	123.3E6	23.169	24.210	
10)	m	Heptachlo...	0.000	0.024	0	163482	N.D.	10.404	#
11)	m	Heptachlo...	13.064	12.927	83667468	100.2E6	22.199	23.722	
12)	m	beta-Chlo...	13.234	13.182	81459978	98863801	22.132	23.853	
13)	m	alpha-Chl...	13.416	13.375	75579275	95302227	21.367	23.699	
14)	m	4,4'-DDE	13.510	13.592	65652195	85068046	21.384	23.802	
15)	m	Endosulfan I	13.607	13.449	71251257	87142467	21.488	23.894	
16)	m	Dieldrin	13.923	13.805	76787280	97935250	21.499	23.953	
17)	m	Endrin	14.232	14.194	58984270	73210692	19.354	22.363	
18)	m	4,4'-DDD	14.282	14.310	45805594	65875268	20.558	24.048	
19)	m	Endosulfa...	14.520	14.455	58072394	72480198	20.685	24.627	
20)	m	4,4'-DDT	14.632	14.695	43883669	61532341	20.172	23.611	
21)	m	Endrin Al...	15.053	14.871	43594749	54592163	21.637	24.202	
22)	m	Methoxychlor	15.203	15.530	21201451	28232320	20.394	23.794	
23)	m	Endosulfa...	15.642	15.217	50683165	60814653	20.646	22.683	
24)	m	Endrin Ke...	16.030	15.939	58351281	64280805	21.961	28.551	#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

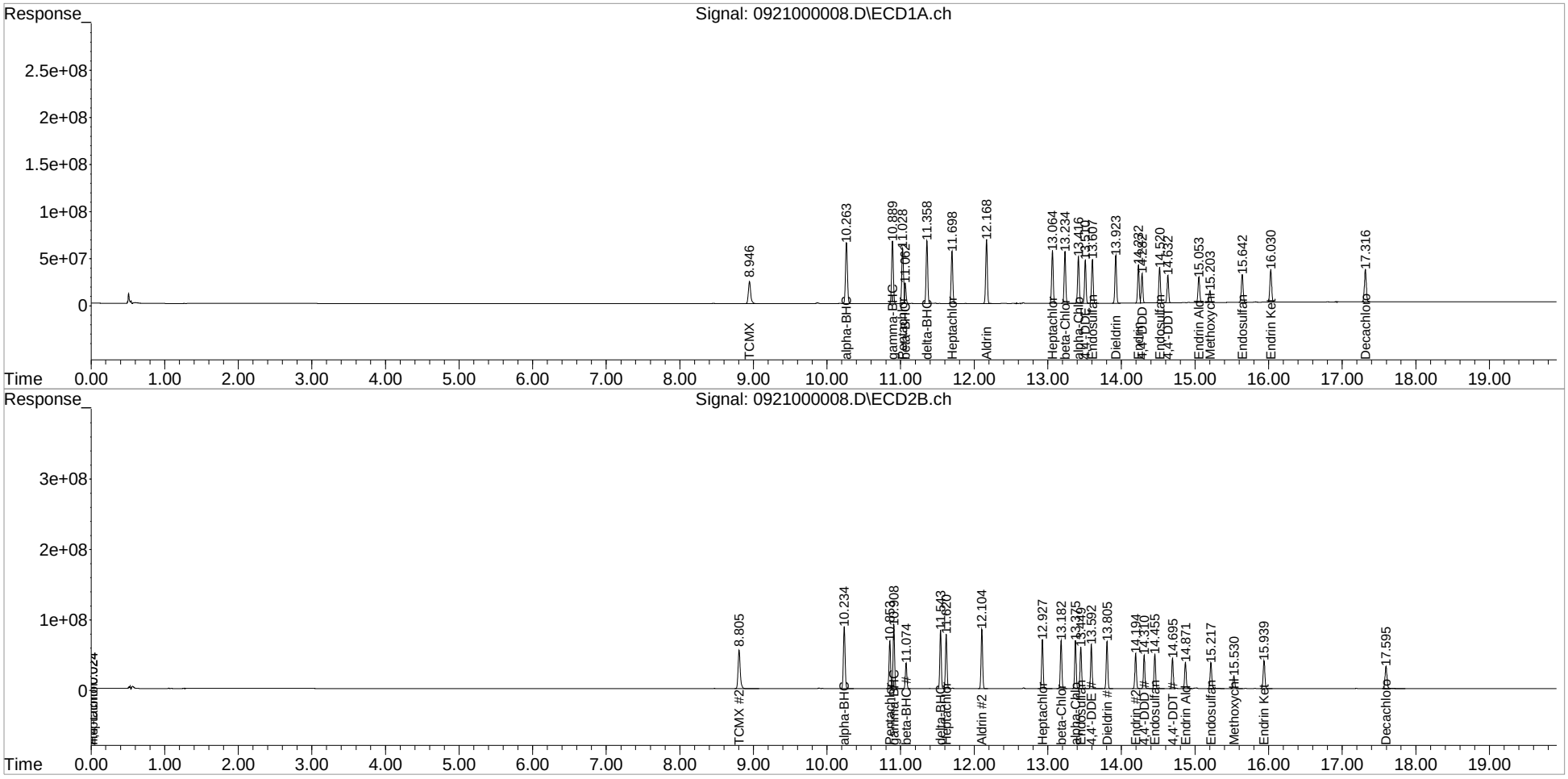
1st BB 10/01/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000008.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 14:15:57 Operator: bb
Sample : DWSTD08-82B 50PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:45:58 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



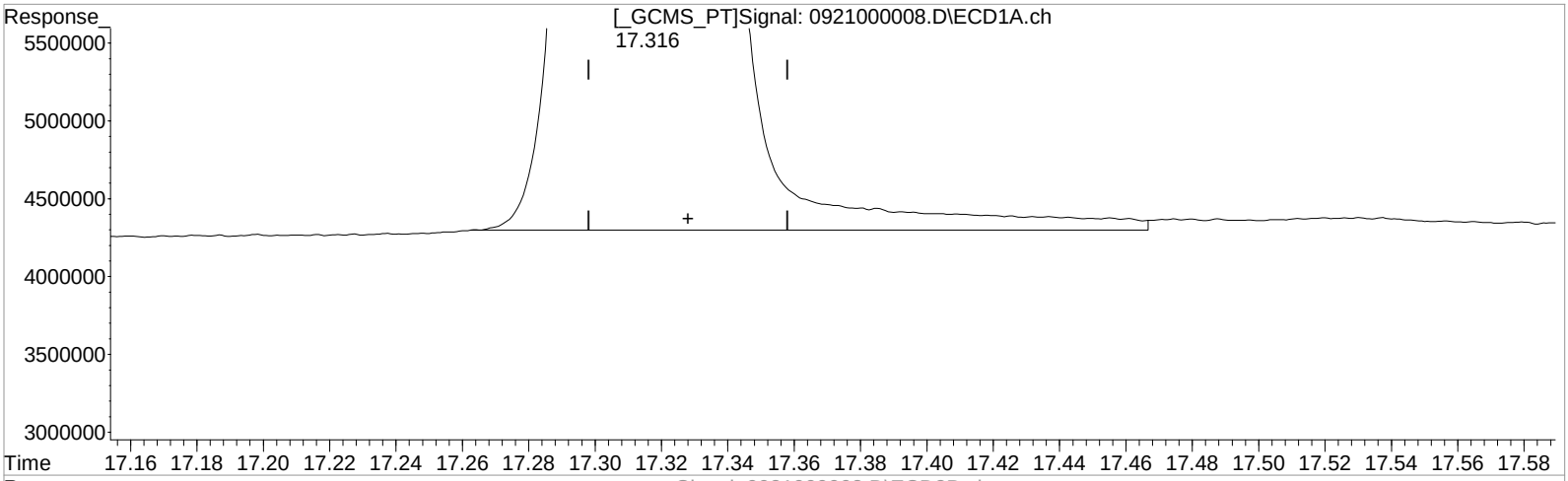
Quantitation Report (Qedit)

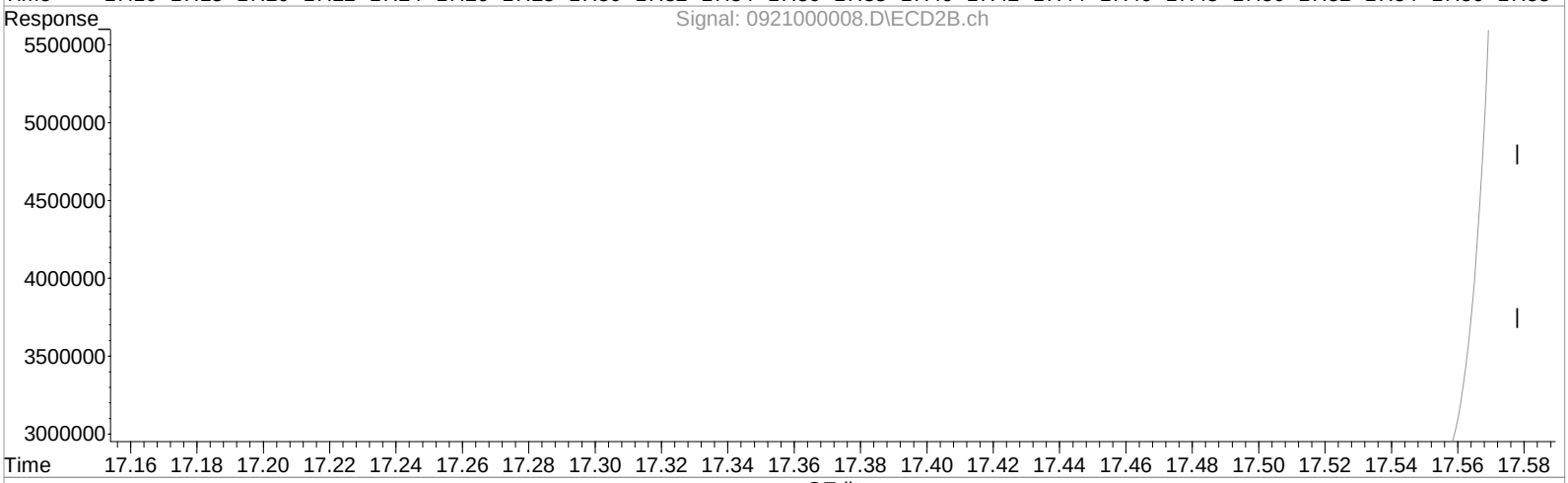
1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000008.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 14:15:57 Operator: bb
Sample : DWSTD08-82B 50PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:40:52 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.316min 28.218 ug/L

response 60780932

Manual Integration:

Before

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.595min 29.326 ug/L

response 58333886

(+) = Expected Retention Time

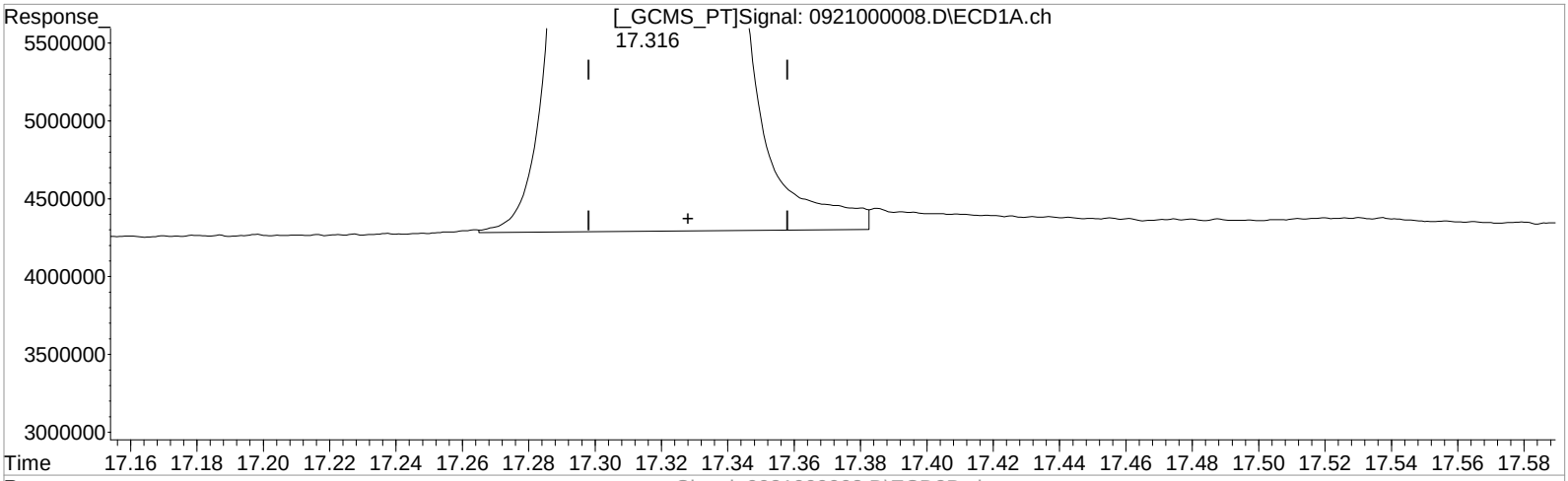
Quantitation Report (Qedit)

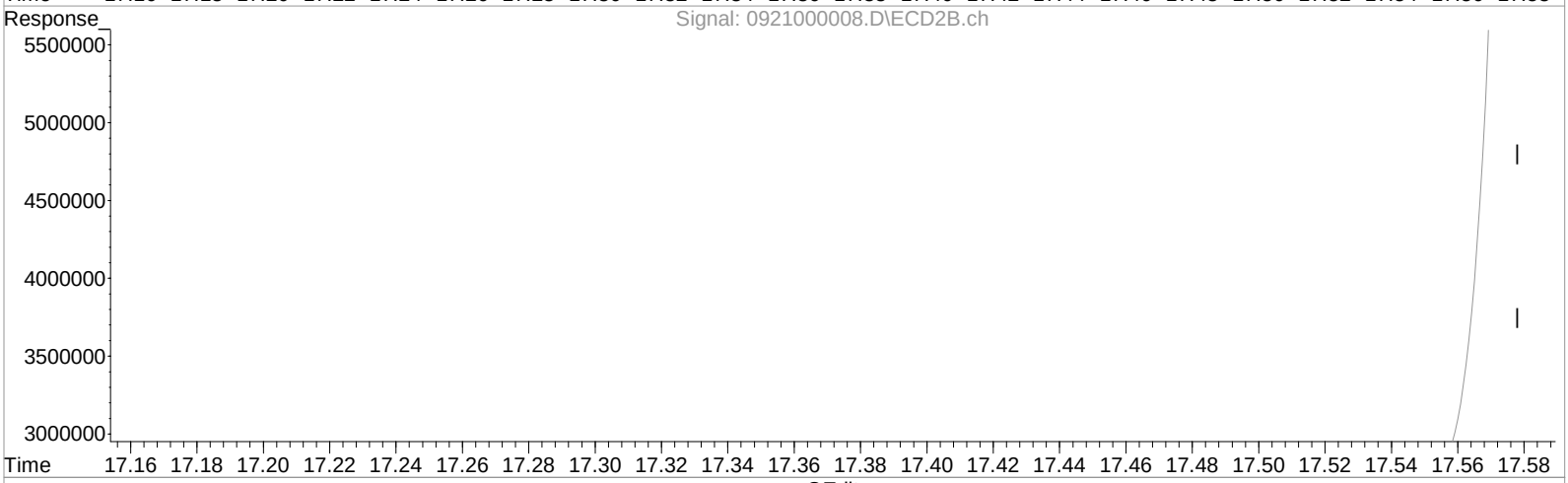
1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000008.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 14:15:57 Operator: bb
Sample : DWSTD08-82B 50PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:40:52 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.316min 28.016 ug/L m

response 60345909

Manual Integration:

After

Baseline/Shoulder

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.595min 29.326 ug/L

response 58333886

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000009.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 14:48:33 Operator: bb
Sample : DWSTD08-82B 75PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:44:11 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1) I	Pentachlo...	11.028	10.853	99797627	102.5E6	50.000	50.000	
	System Monitoring Compounds							
2) s	TCMX	8.946	8.805	75811216	163.8E6	35.205	37.275	
4) S	4,4'-Dibr...	0.000	0.033	0	169865	N.D.	10.786	#
25) S	Decachlor...	17.317	17.597	89662023	84547737	40.899m	42.408	
	Target Compounds							
3) m	alpha-BHC	10.264	10.234	176.5E6	210.9E6	34.296	36.803	
5) m	gamma-BHC...	10.889	10.908	163.2E6	193.2E6	33.975	36.024	
6) m	beta-BHC	11.063	11.074	47579874	75818410	30.628	32.554	
7) m	delta-BHC	11.358	11.543	155.2E6	172.1E6	34.042	38.072	
8) m	Heptachlor	11.700	11.620	132.0E6	164.0E6	33.677	37.101	
9) m	Aldrin	12.168	12.104	158.6E6	180.5E6	34.208	35.368	
10) m	Heptachlo...	0.000	0.033	0	169865	N.D.	10.786	#
11) m	Heptachlo...	13.064	12.928	126.3E6	146.3E6	32.921	34.570	
12) m	beta-Chlo...	13.234	13.182	124.7E6	144.9E6	33.277	34.885	
13) m	alpha-Chl...	13.417	13.377	118.8E6	139.3E6	32.999	34.549	
14) m	4,4'-DDE	13.512	13.592	103.8E6	124.6E6	33.232	34.787	
15) m	Endosulfan I	13.607	13.450	111.6E6	127.4E6	33.074	34.845	
16) m	Dieldrin	13.923	13.806	122.6E6	144.3E6	33.727	35.224	
17) m	Endrin	14.233	14.194	97052703	109.8E6	31.290	33.471	
18) m	4,4'-DDD	14.281	14.310	74960285	97035579	33.055	35.343	
19) m	Endosulfa...	14.521	14.455	93540427	106.8E6	32.737	36.196	
20) m	4,4'-DDT	14.633	14.695	72383264	91221749	32.691	34.924	
21) m	Endrin Al...	15.053	14.871	68992386	79589192	33.644	35.203	
22) m	Methoxychlor	15.203	15.531	32037631	41322290	30.279	34.747	
23) m	Endosulfa...	15.643	15.217	76094458	89605783	30.456	33.345	
24) m	Endrin Ke...	16.031	15.939	86997375	93470513	32.170	41.421	#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

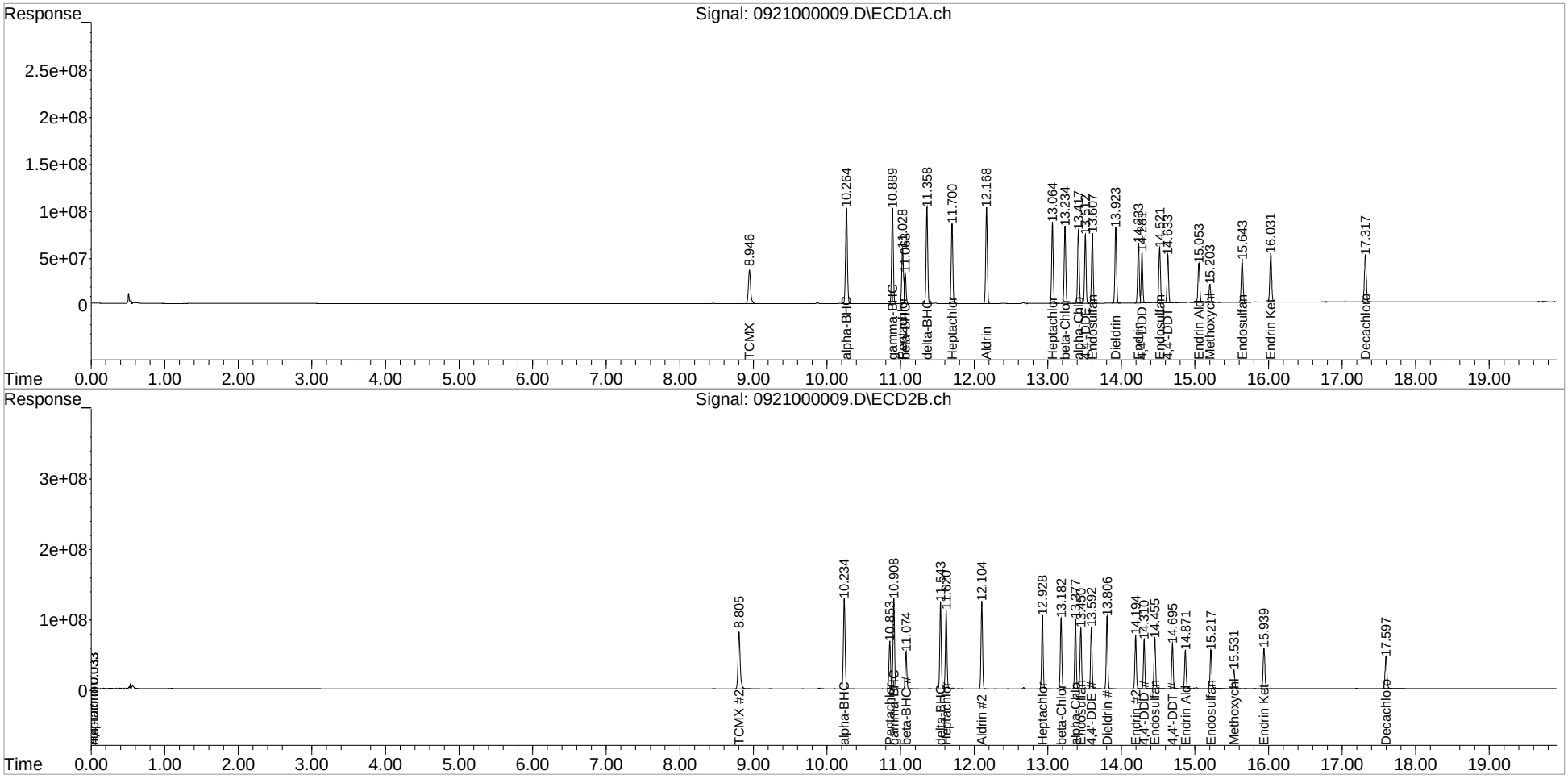
1st BB 10/01/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000009.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 14:48:33 Operator: bb
Sample : DWSTD08-82B 75PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:44:11 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



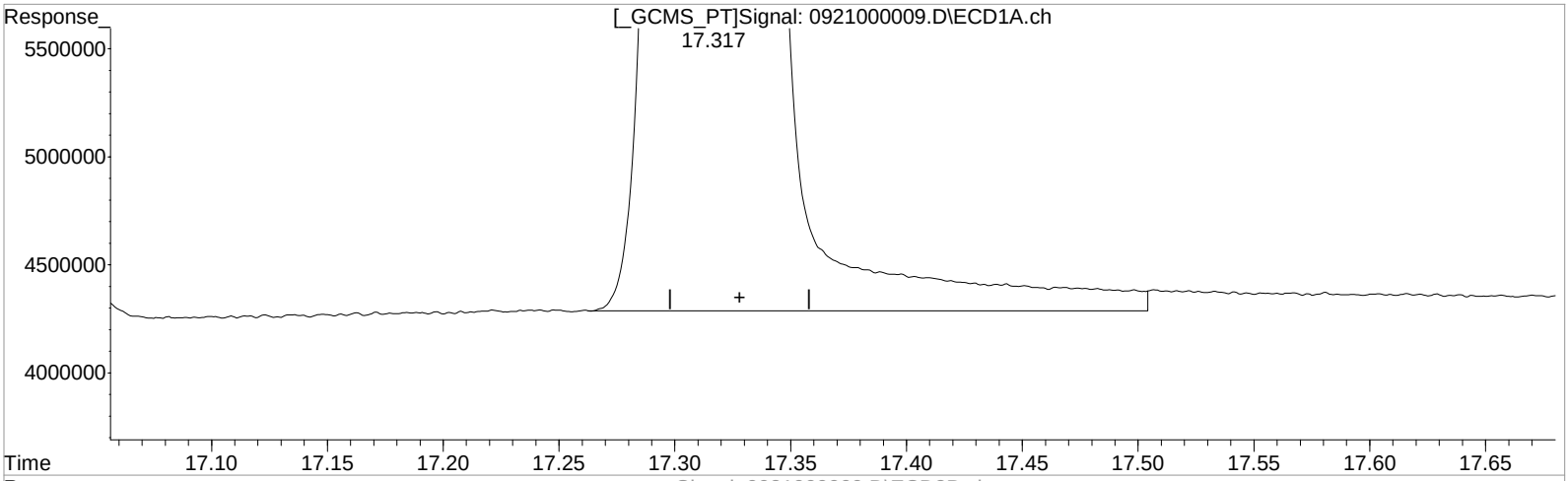
Quantitation Report (Qedit)

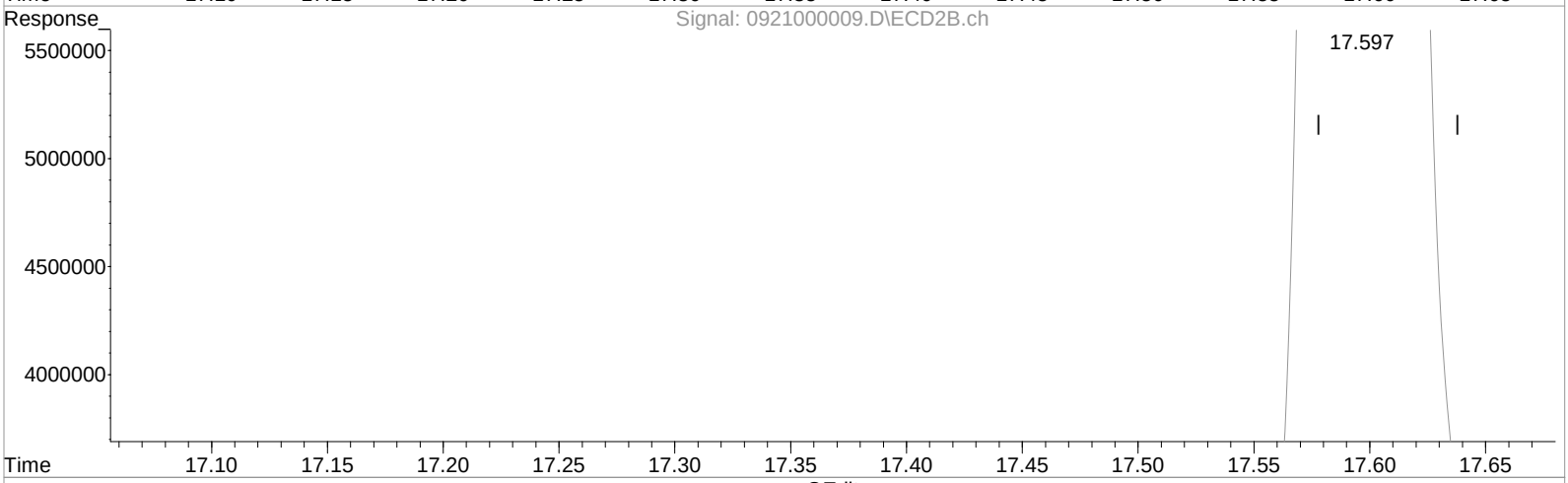
1st BB 10/01/23
2nd 10/16/23

Data File : J:\GC33\DATA\092123\0921000009.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 14:48:33 Operator: bb
Sample : DWSTD08-82B 75PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:25 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.317min 41.231 ug/L

response 90389242

Manual Integration:

Before

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.597min 42.408 ug/L

response 84547737

(+) = Expected Retention Time

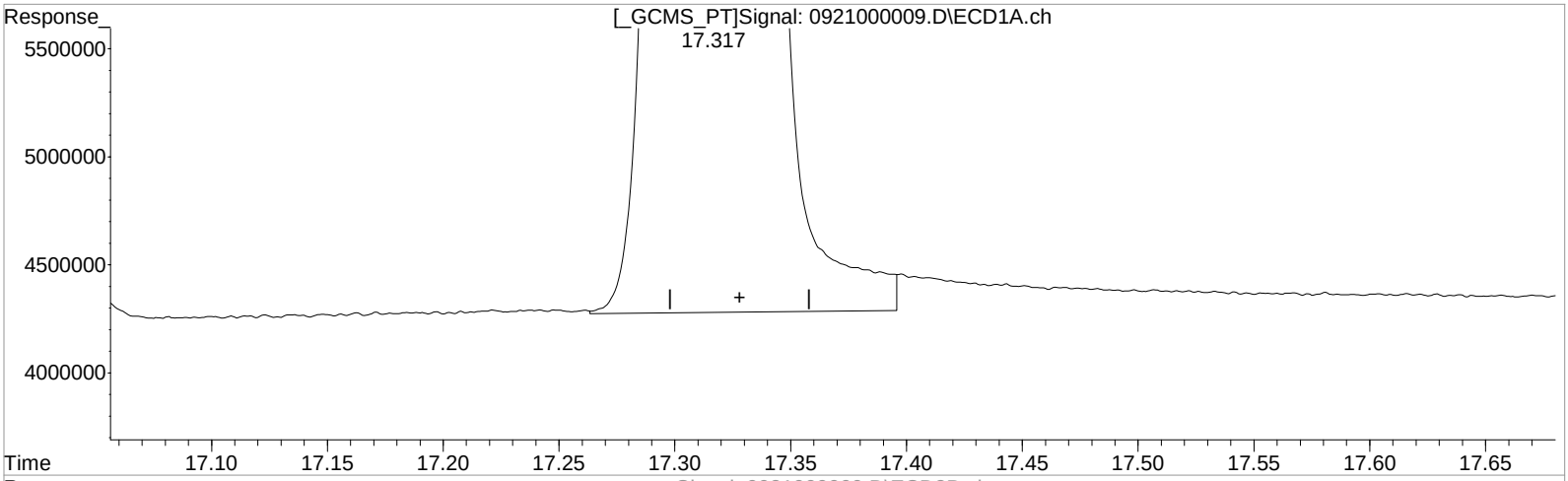
Quantitation Report (Qedit)

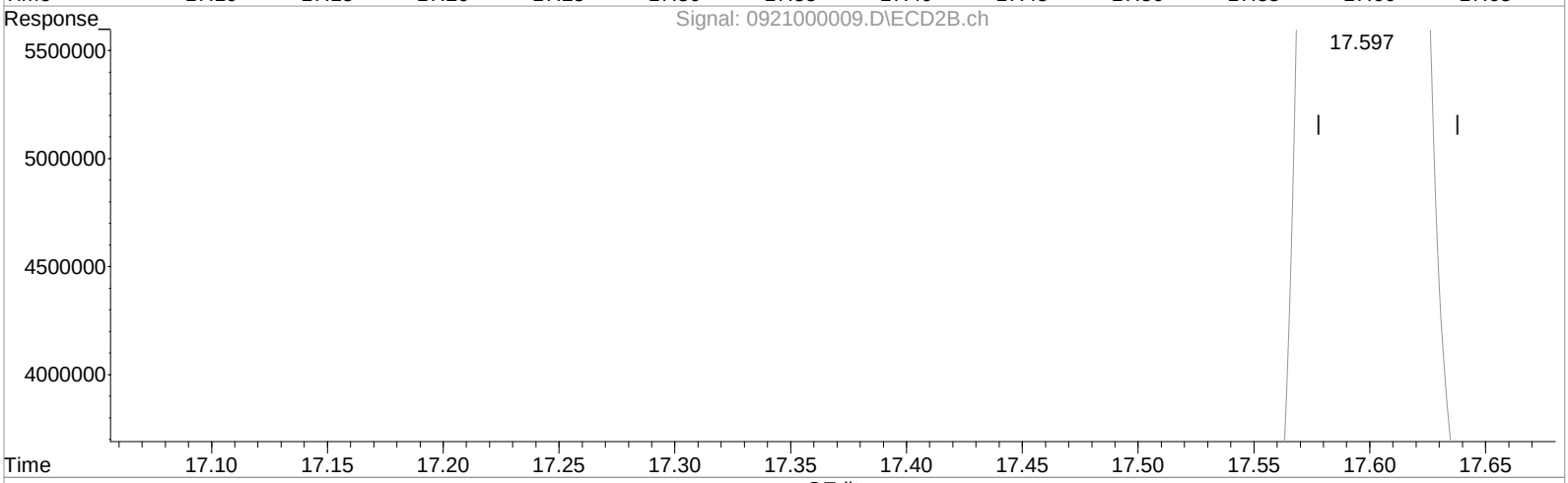
1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000009.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 14:48:33 Operator: bb
Sample : DWSTD08-82B 75PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:25 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.317min 40.899 ug/L m

response 89662023

Manual Integration:

After

Baseline/Shoulder

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.597min 42.408 ug/L

response 84547737

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:20:58 Operator: bb
Sample : DWSTD08-82B 100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:49:04 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
1) I	Pentachlo...	11.028	10.853	96167096	102.3E6	50.000	50.000
	System Monitoring Compounds						
2) s	TCMX	8.946	8.804	100.1E6	212.4E6	48.249	48.468
4) S	4,4'-Dibr...	0.000	0.020	0	215686	N.D.	13.732 #
25) S	Decachlor...	17.316	17.595	117.9E6	109.3E6	55.809m	54.952m
	Target Compounds						
3) m	alpha-BHC	10.264	10.235	237.7E6	277.2E6	47.937	48.506
5) m	gamma-BHC...	10.891	10.908	219.3E6	252.4E6	47.372	47.195
6) m	beta-BHC	11.062	11.075	68029204	98499556	45.445	42.408
7) m	delta-BHC	11.358	11.543	209.4E6	225.9E6	47.678	50.105
8) m	Heptachlor	11.699	11.620	180.1E6	214.3E6	47.665	48.613
9) m	Aldrin	12.168	12.103	212.4E6	235.8E6	47.553	46.334
10) m	Heptachlo...	0.000	0.020	0	215686	N.D.	13.732 #
11) m	Heptachlo...	13.064	12.928	168.2E6	190.3E6	45.511	45.096
12) m	beta-Chlo...	13.234	13.181	165.9E6	189.2E6	45.950	45.663
13) m	alpha-Chl...	13.418	13.376	155.7E6	181.5E6	44.886	45.152
14) m	4,4'-DDE	13.510	13.592	136.4E6	163.4E6	45.288	45.747
15) m	Endosulfan I	13.607	13.449	146.1E6	166.3E6	44.925	45.624
16) m	Dieldrin	13.925	13.804	161.3E6	189.1E6	46.041	46.273
17) m	Endrin	14.233	14.193	127.6E6	143.4E6	42.695	43.817
18) m	4,4'-DDD	14.282	14.309	99032308	127.3E6	45.318	46.485
19) m	Endosulfa...	14.520	14.454	122.4E6	140.3E6	44.456	47.698
20) m	4,4'-DDT	14.632	14.694	95133996	120.1E6	44.589	46.124
21) m	Endrin Al...	15.053	14.869	88988435	103.7E6	45.033	46.001
22) m	Methoxychlor	15.203	15.528	44279073	53788008	43.429	45.352
23) m	Endosulfa...	15.643	15.216	101.1E6	117.1E6	42.006	43.679
24) m	Endrin Ke...	16.031	15.938	115.3E6	123.2E6	44.243	54.732

SemiQuant Compounds - Not Calibrated on this Instrument

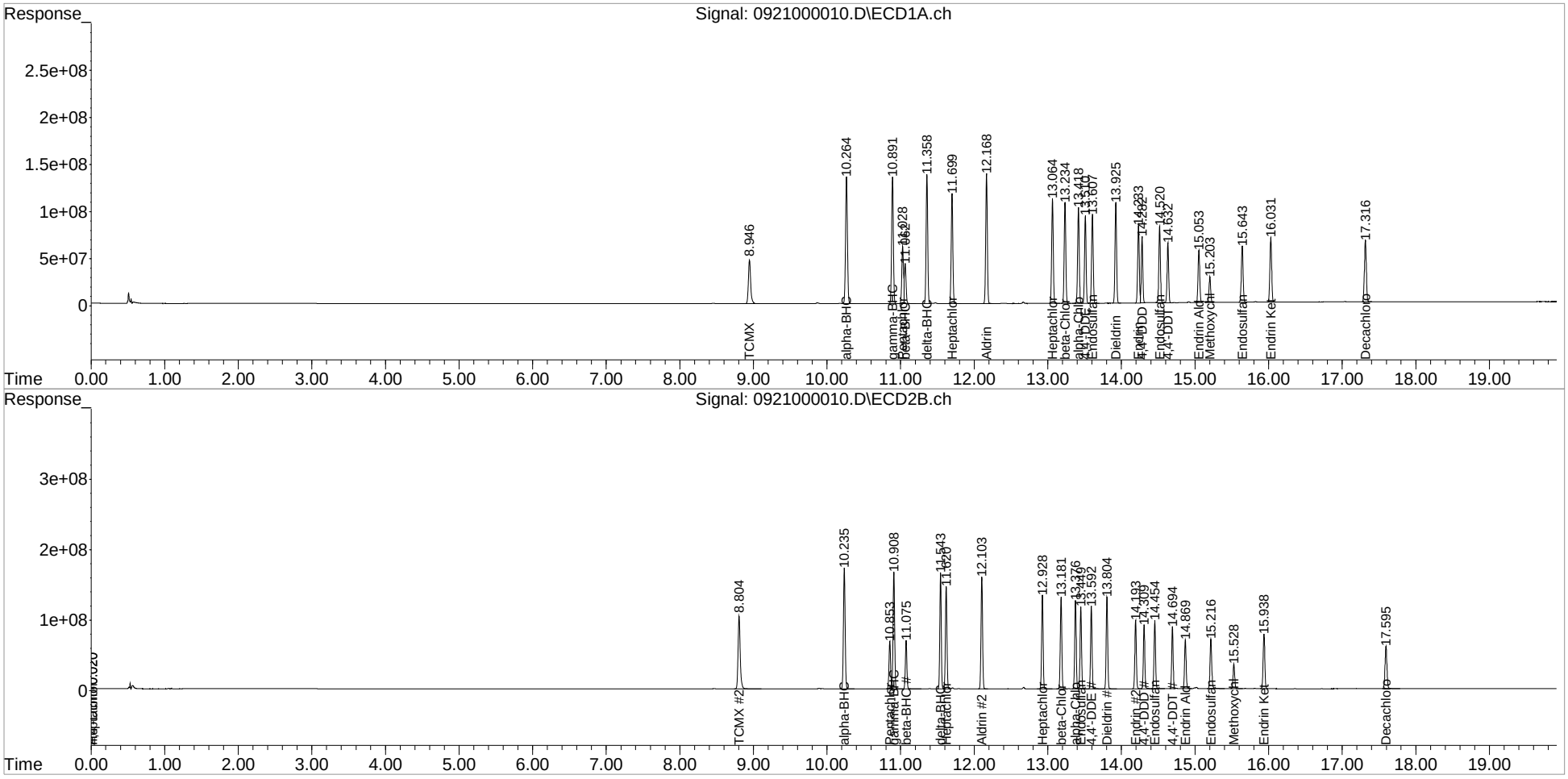
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:20:58 Operator: bb
Sample : DWSTD08-82B 100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:49:04 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



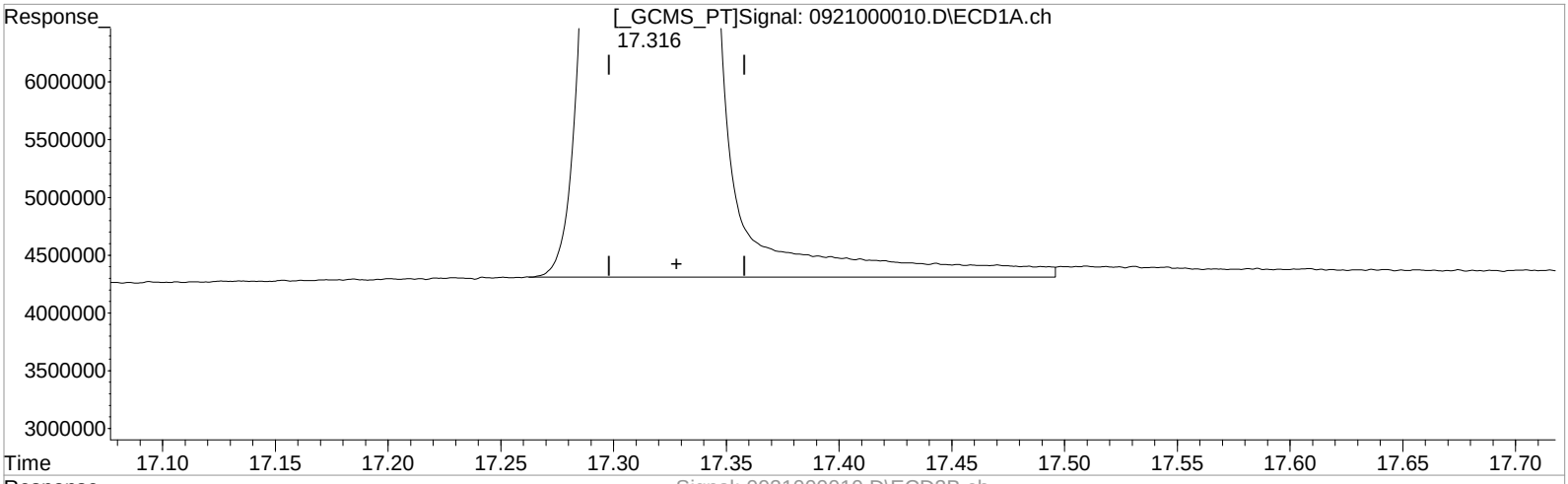
Quantitation Report (Qedit)

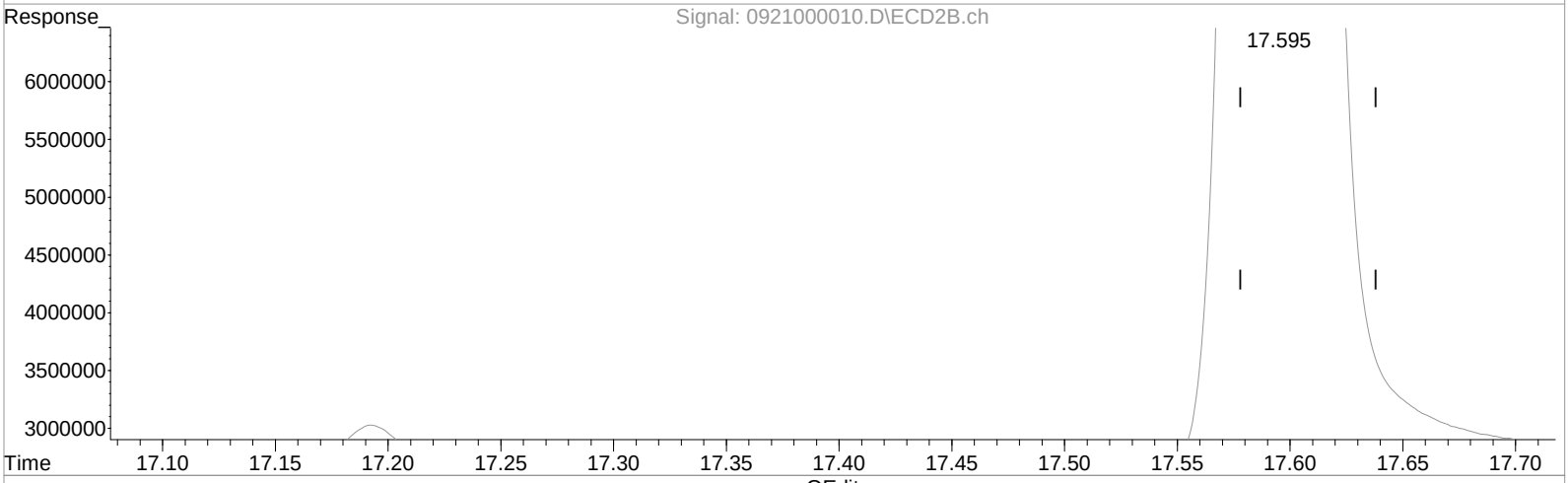
1st BB 10/01/23
2nd 10/16/23

Data File : J:\GC33\DATA\092123\0921000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:20:58 Operator: bb
Sample : DWSTD08-82B 100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:30 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.316min 56.124 ug/L

response 118563724

Manual Integration:

Before

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.595min 55.051 ug/L

response 109454162

(+) = Expected Retention Time

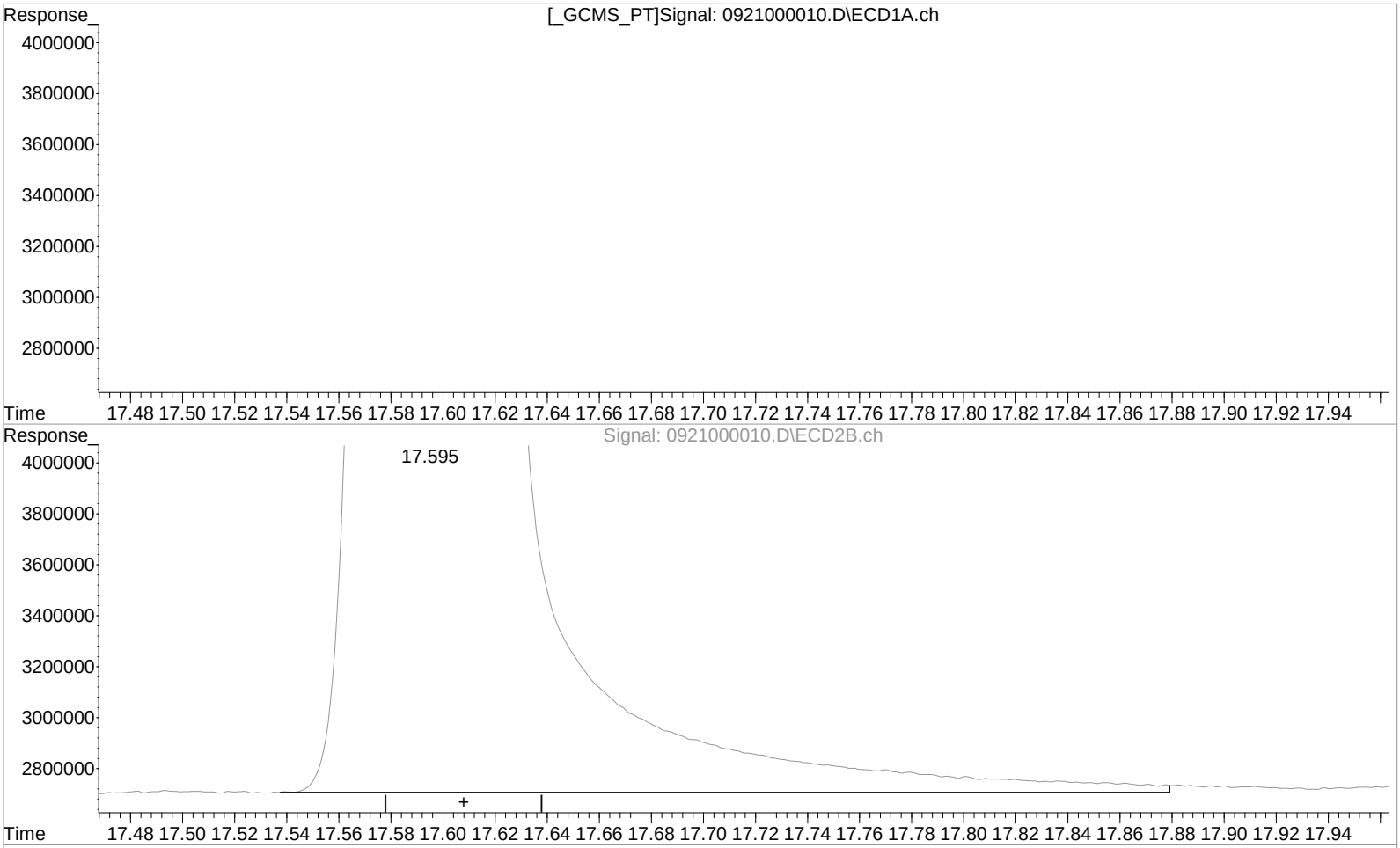
Quantitation Report (Qedit)

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:20:58 Operator: bb
Sample : DWSTD08-82B 100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:30 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(25) Decachlorobiphenyl (S)

17.316min 55.809 ug/L m

response 117898472

Manual Integration:

Before

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.595min 55.051 ug/L

response 109454162

(+) = Expected Retention Time

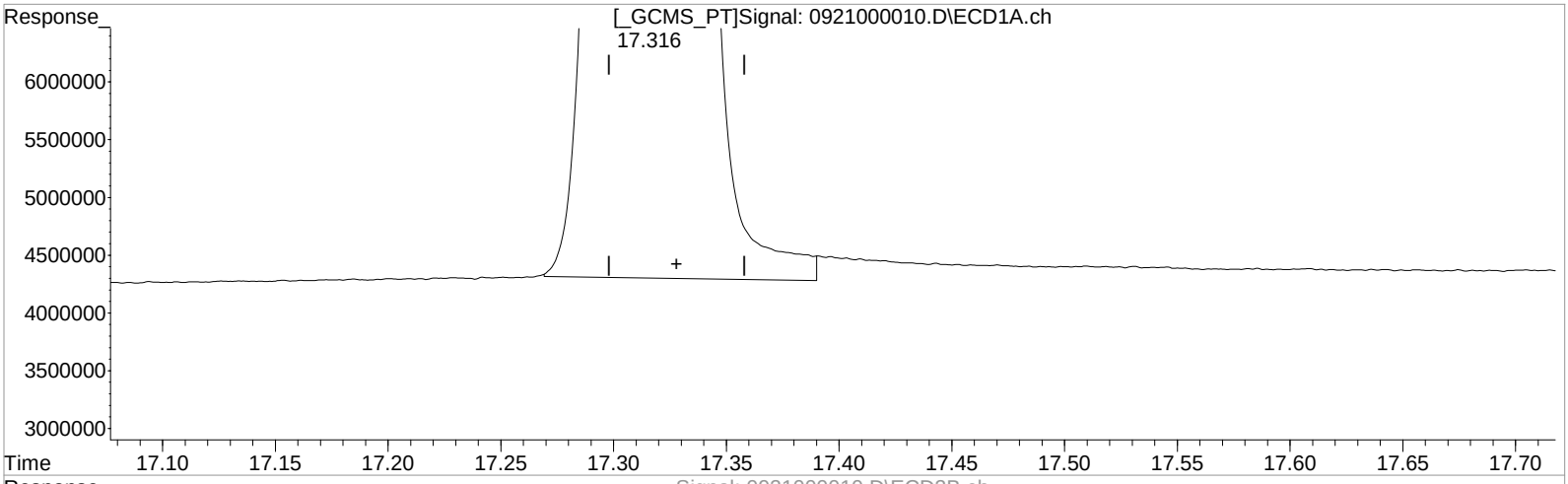
Quantitation Report (Qedit)

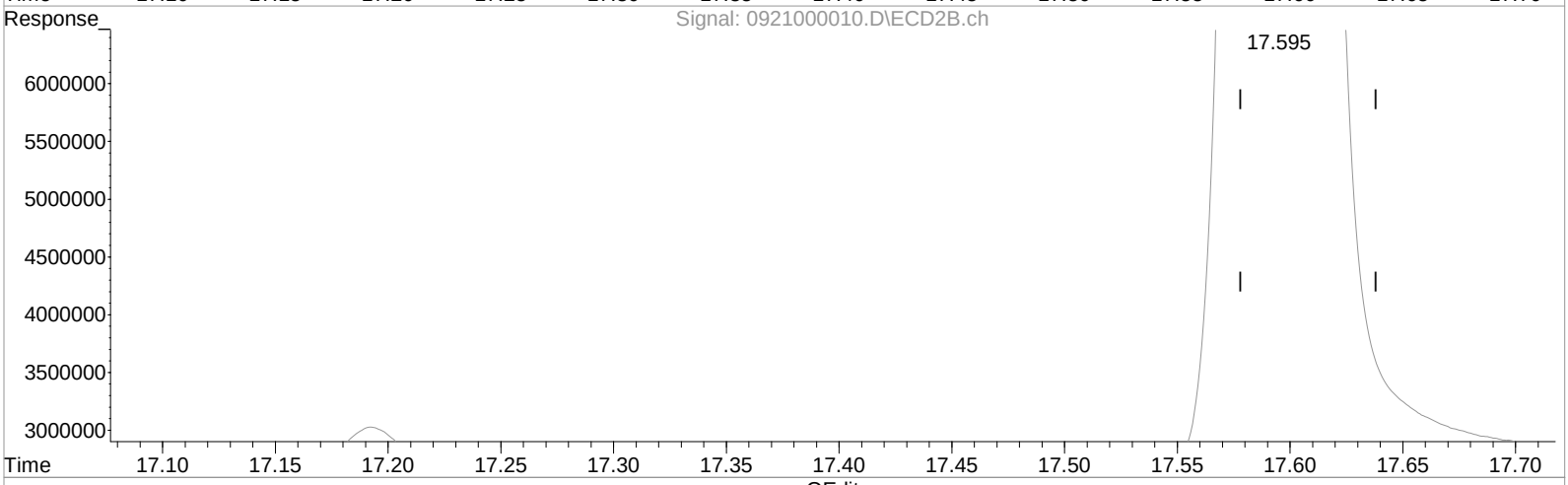
1st BB 10/01/23
2nd 10/16/23

Data File : J:\GC33\DATA\092123\0921000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:20:58 Operator: bb
Sample : DWSTD08-82B 100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:30 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.316min 55.809 ug/L m

response 117898472

Manual Integration:

After

Baseline/Shoulder

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.595min 55.051 ug/L

response 109454162

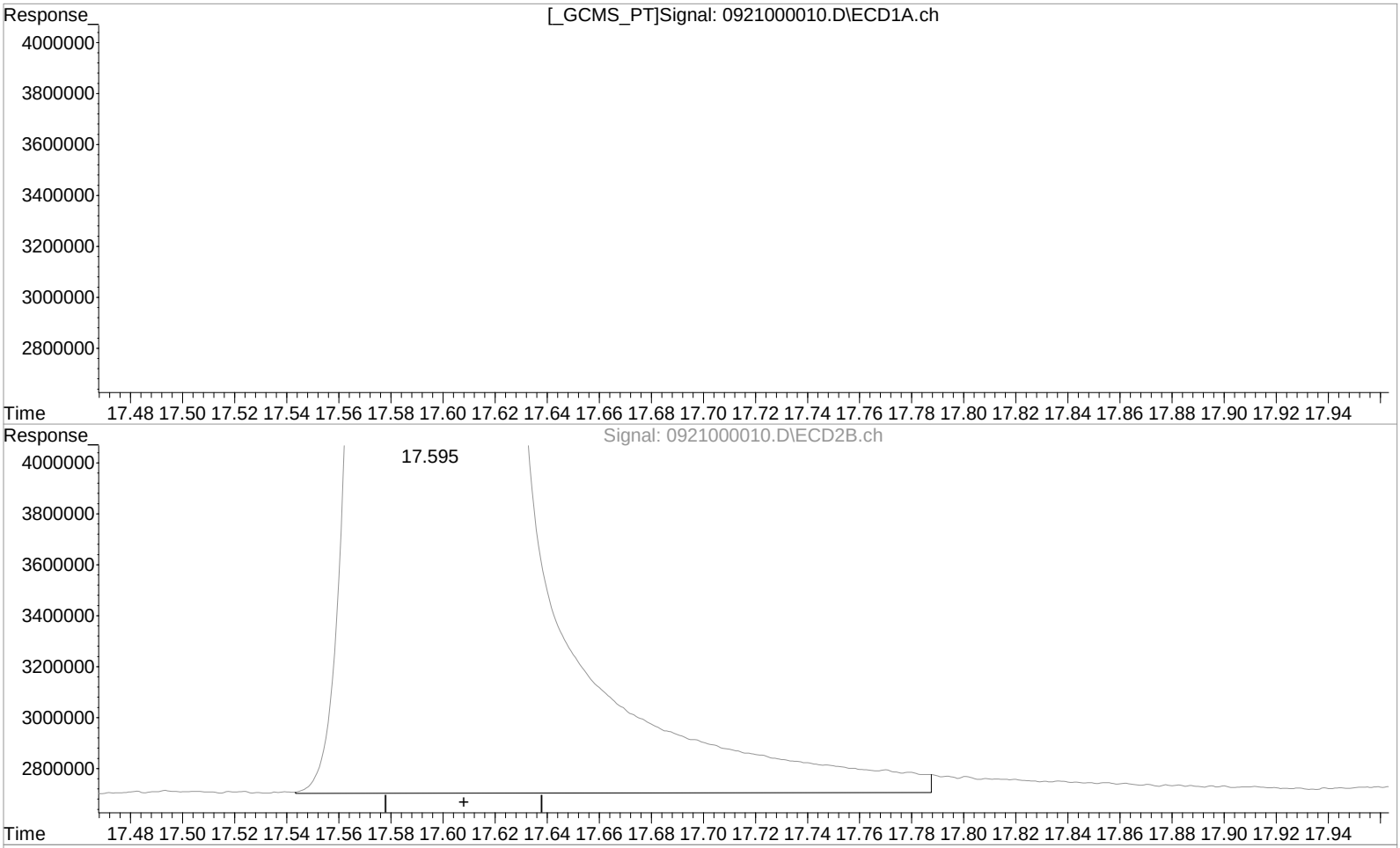
(+) = Expected Retention Time

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:20:58 Operator: bb
Sample : DWSTD08-82B 100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:30 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(25) Decachlorobiphenyl (S)

17.316min 55.809 ug/L m

response 117898472

Manual Integration:

After

Baseline/Shoulder

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.595min 54.952 ug/L m

response 109257414

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:53:33 Operator: bb
Sample : DWSTD08-82B 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:51:05 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	11.028	10.852	92105310	102.3E6	50.000	50.000	
		System Monitoring Compounds							
2)	s	TCMX	8.945	8.804	201.1E6	405.5E6	101.194	92.529	
4)	S	4,4'-Dibr...	0.000	0.031	0	146781	N.D.	9.345	#
25)	S	Decachlor...	17.317	17.597	234.1E6	212.4E6	115.718m	106.813	
		Target Compounds							
3)	m	alpha-BHC	10.265	10.235	498.7E6	547.0E6	105.004	95.716	
5)	m	gamma-BHC...	10.890	10.908	458.8E6	491.5E6	103.494	91.893	
6)	m	beta-BHC	11.061	11.075	142.9E6	188.9E6	99.689	81.341	
7)	m	delta-BHC	11.358	11.543	440.7E6	446.4E6	104.781	99.028	
8)	m	Heptachlor	11.698	11.619	381.7E6	414.0E6	105.486	93.886	
9)	m	Aldrin	12.168	12.104	439.0E6	457.1E6	102.616	89.822	
10)	m	Heptachlo...	0.000	0.031	0	146781	N.D.	9.345	#
11)	m	Heptachlo...	13.065	12.927	343.9E6	365.4E6	97.127	86.561	
12)	m	beta-Chlo...	13.234	13.182	344.2E6	366.4E6	99.547	88.445	
13)	m	alpha-Chl...	13.418	13.377	310.9E6	351.0E6	93.582	87.316	
14)	m	4,4'-DDE	13.511	13.592	266.3E6	315.4E6	92.345	88.298	
15)	m	Endosulfan I	13.607	13.449	279.4E6	320.8E6	89.706	87.990	
16)	m	Dieldrin	13.924	13.806	312.3E6	368.8E6	93.090	90.245	
17)	m	Endrin	14.233	14.194	250.8E6	285.2E6	87.616	87.152	
18)	m	4,4'-DDD	14.282	14.309	192.7E6	248.1E6	92.078	90.605	
19)	m	Endosulfa...	14.521	14.455	237.4E6	274.4E6	90.007	93.283	
20)	m	4,4'-DDT	14.633	14.694	192.3E6	239.3E6	94.113	91.853	
21)	m	Endrin Al...	15.053	14.869	172.1E6	201.9E6	90.909	89.549	
22)	m	Methoxychlor	15.204	15.530	86635197	104.5E6	88.719	88.120	
23)	m	Endosulfa...	15.643	15.217	205.0E6	230.8E6	88.881	86.120	
24)	m	Endrin Ke...	16.031	15.939	232.1E6	241.9E6	93.006	107.485	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

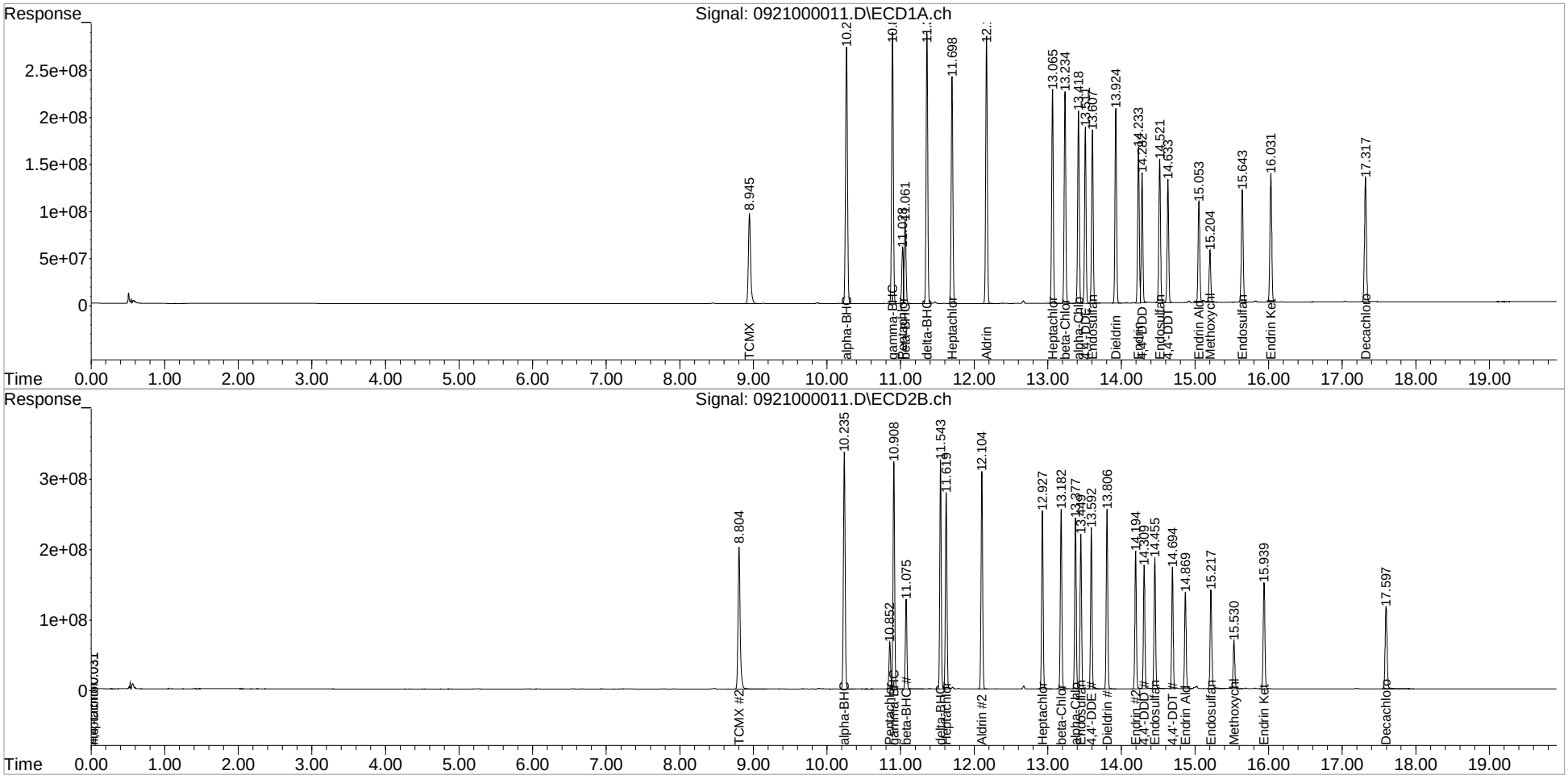
1st BB 10/01/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092123\0921000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:53:33 Operator: bb
Sample : DWSTD08-82B 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:51:05 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



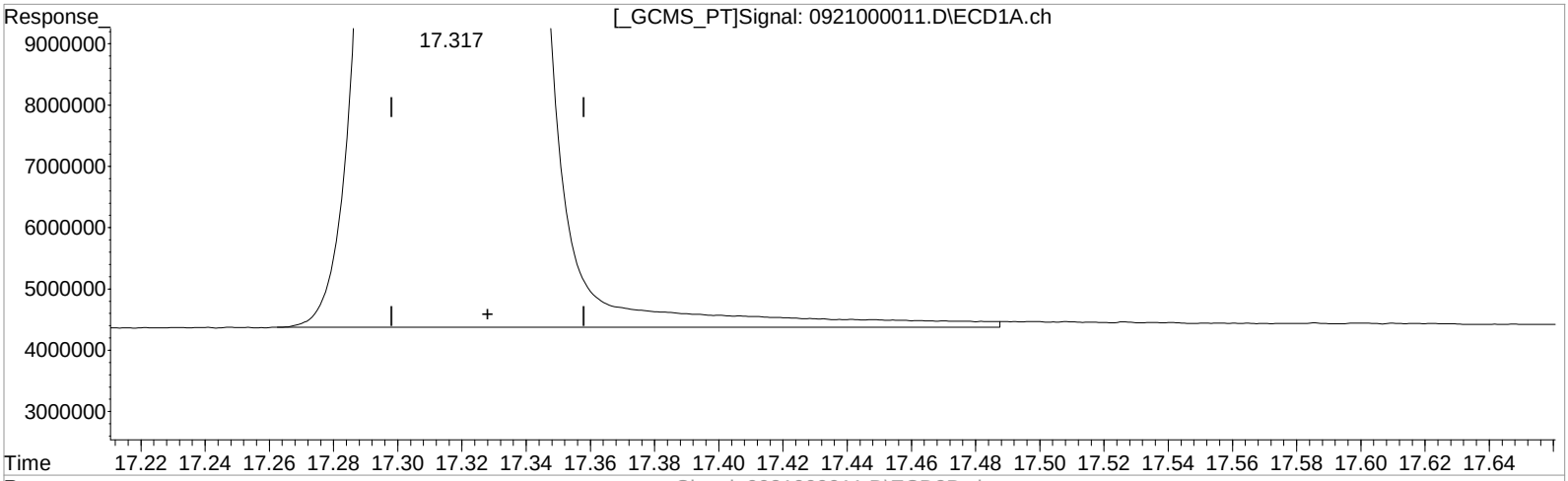
Quantitation Report (Qedit)

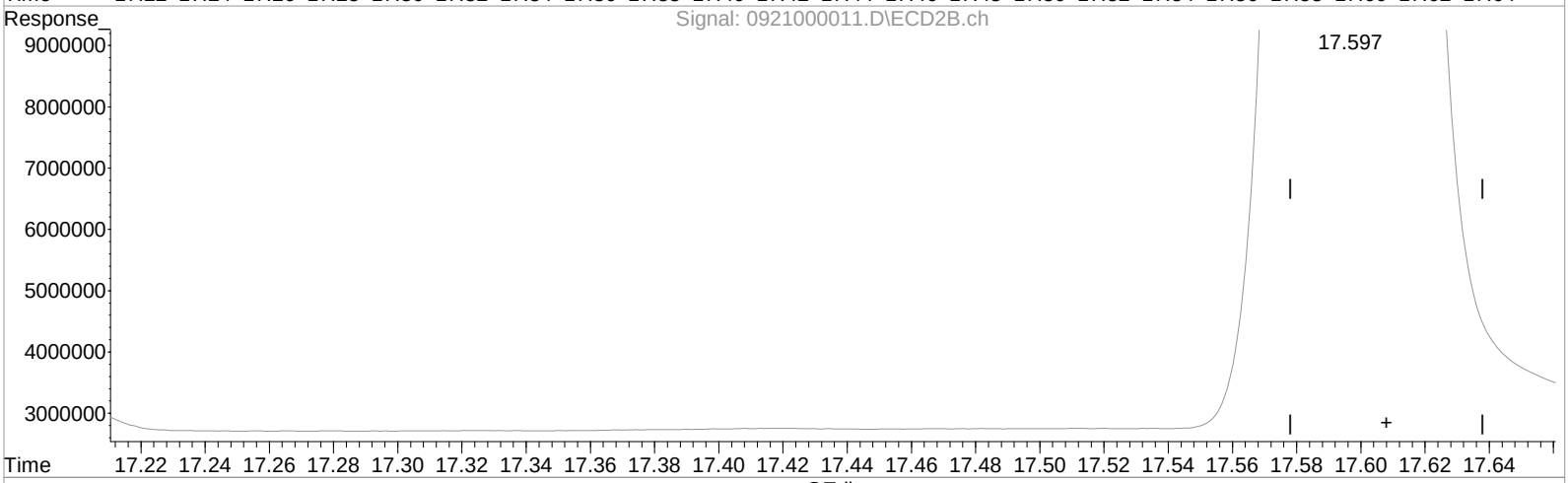
1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:53:33 Operator: bb
Sample : DWSTD08-82B 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:35 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.317min 116.123 ug/L

response 234952094

Manual Integration:

Before

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.597min 106.813 ug/L

response 212367607

(+) = Expected Retention Time

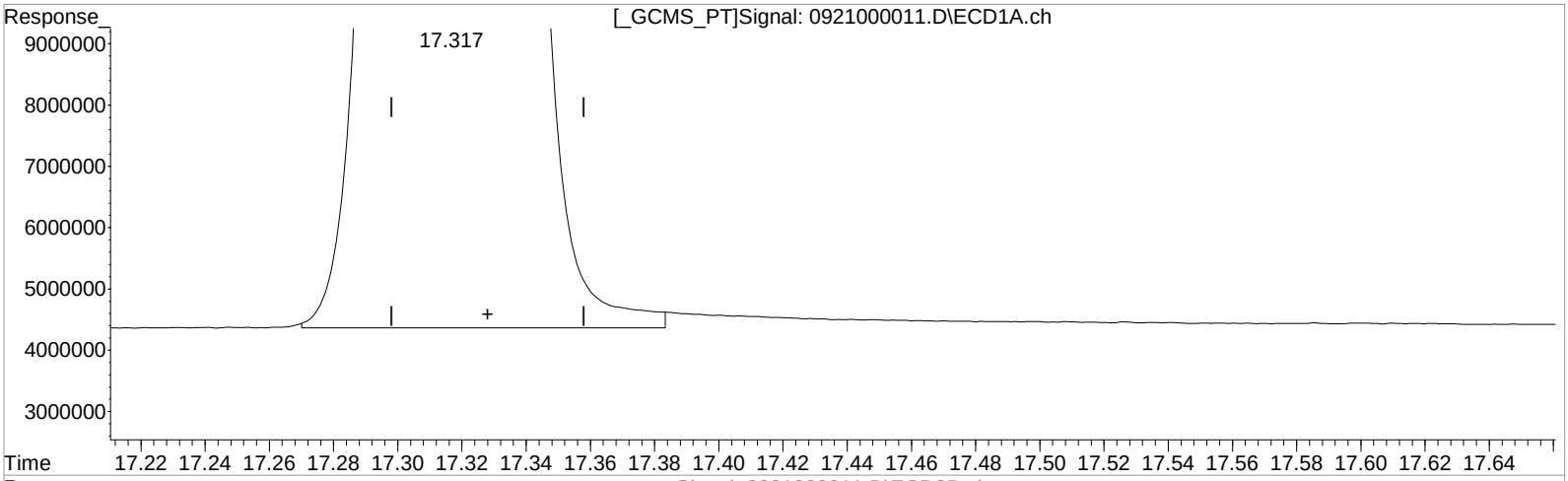
Quantitation Report (Qedit)

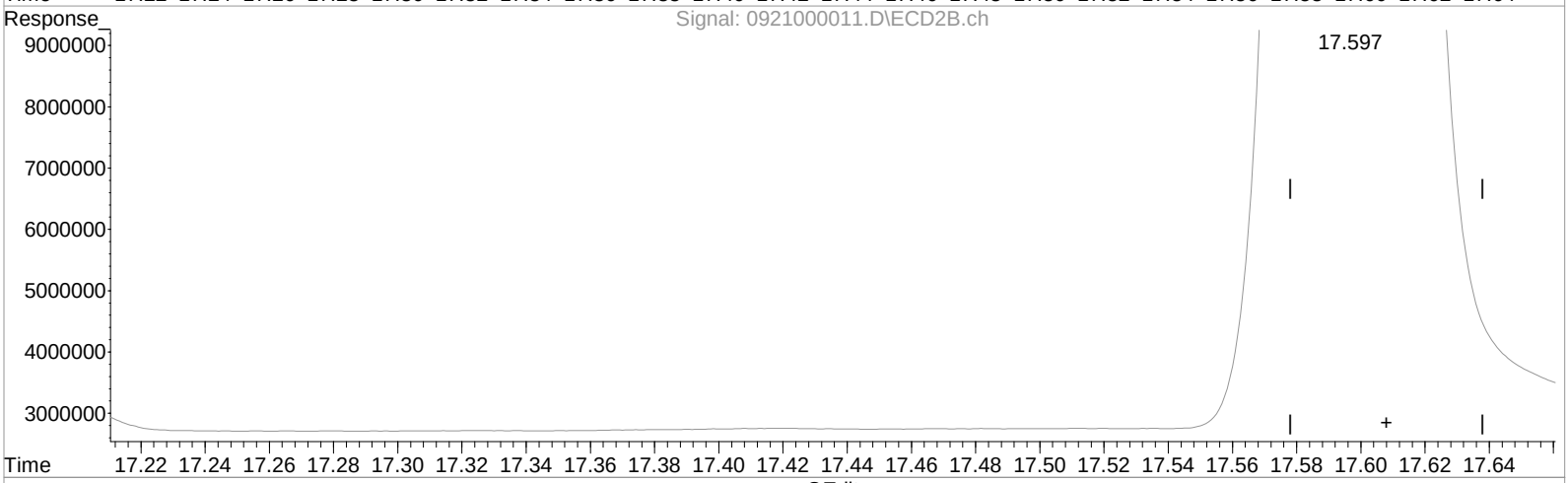
1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092123\0921000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21-Sep-2023, 15:53:33 Operator: bb
Sample : DWSTD08-82B 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Sep 21 17:07:35 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Sep 20 12:16:36 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(25) Decachlorobiphenyl (S)

17.317min 115.718 ug/L m

response 234131659

Manual Integration:

After

Baseline/Shoulder

09/21/23

(25) Decachlorobiphenyl #2 (S)

17.597min 106.813 ug/L

response 212367607

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\092223A\0922000001.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 15:37:41 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:46:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 13:41:01 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
1)	I Pentachlo...	11.021	10.842	106.8E6	147.3E6	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
14)	m 4,4'-DDE	13.501f	13.580	182041	405794	0.147	0.196	#
17)	m Endrin	14.223f	14.182	5849614	10090802	5.137	5.560	
18)	m 4,4'-DDD	14.272	14.297	78950	102729	0.089m	0.063	#
20)	m 4,4'-DDT	14.623	14.682	9098816	17691009	10.592	11.559	
21)	m Endrin Al...	15.046	14.857	286632	360185	0.334	0.262	
24)	m Endrin Ke...	16.023	15.923f	183712	474616	0.164	0.294	#

pass <15% pass <15%

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

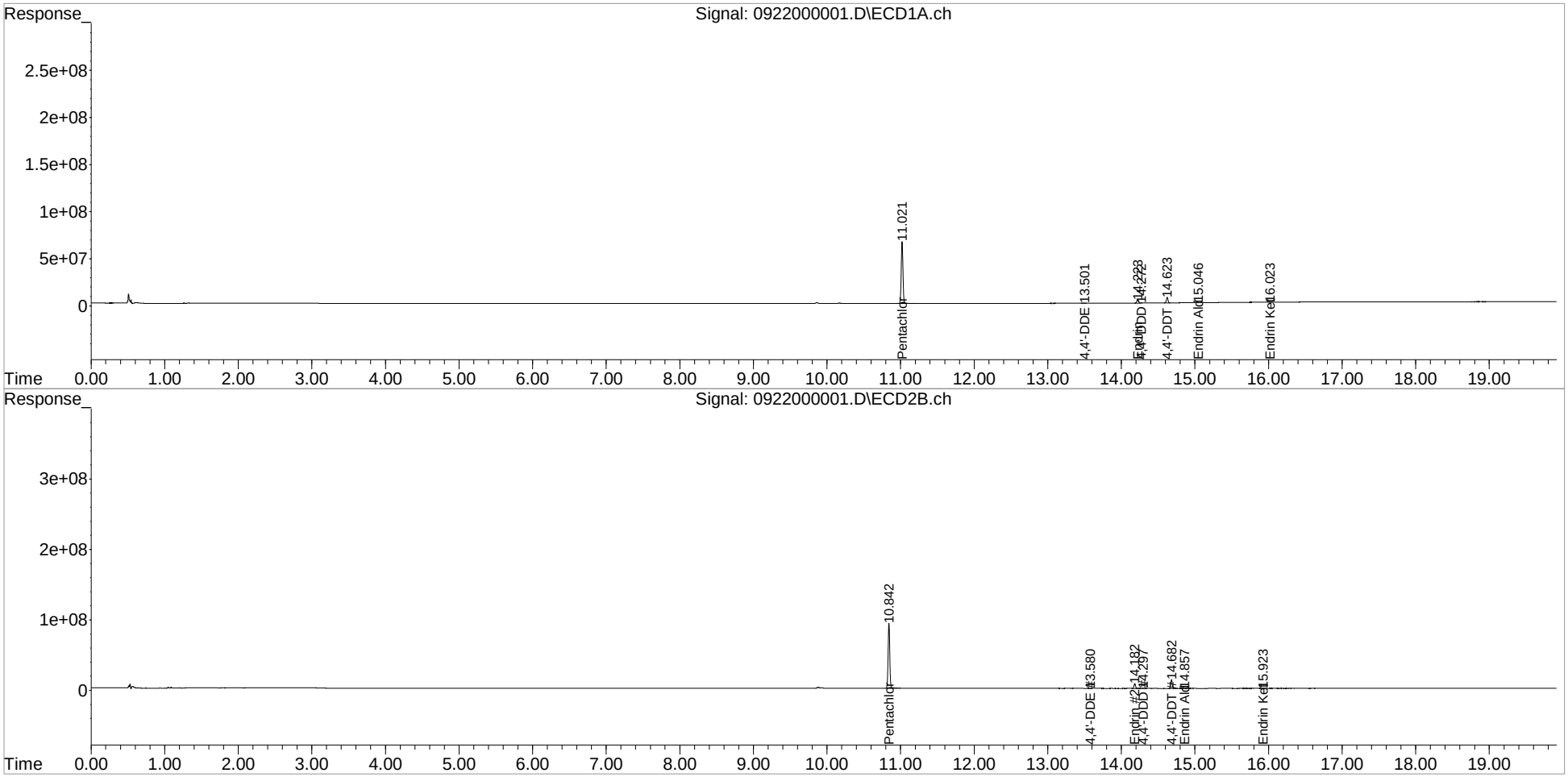
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092223A\0922000001.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 15:37:41 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:46:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 13:41:01 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



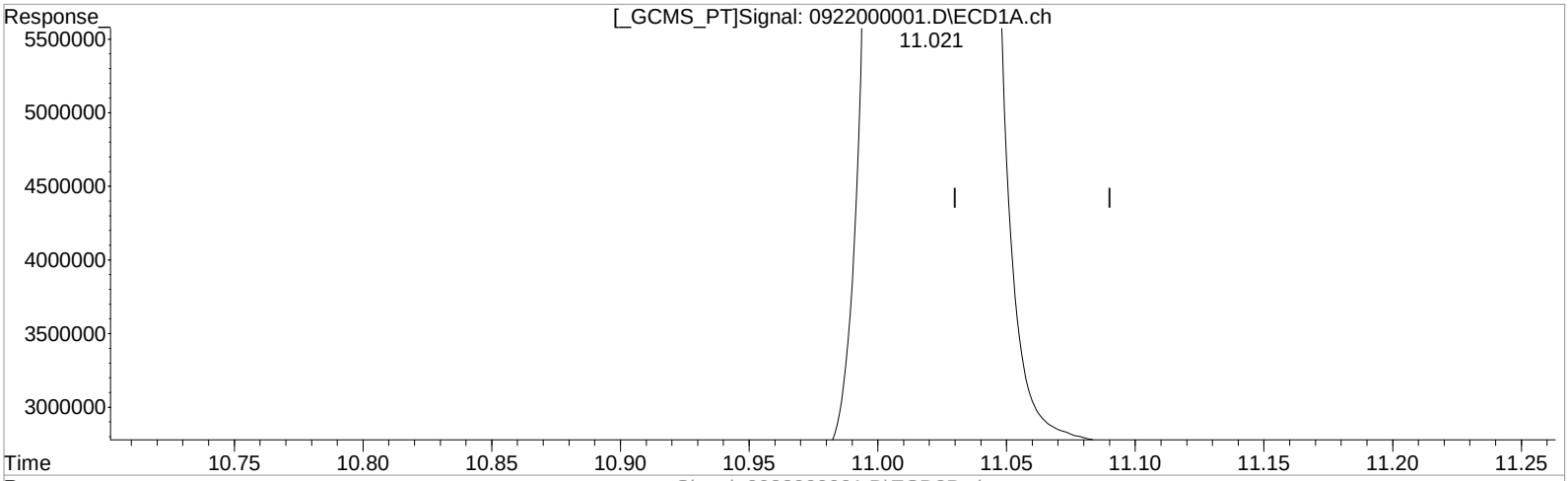
Quantitation Report (Qedit)

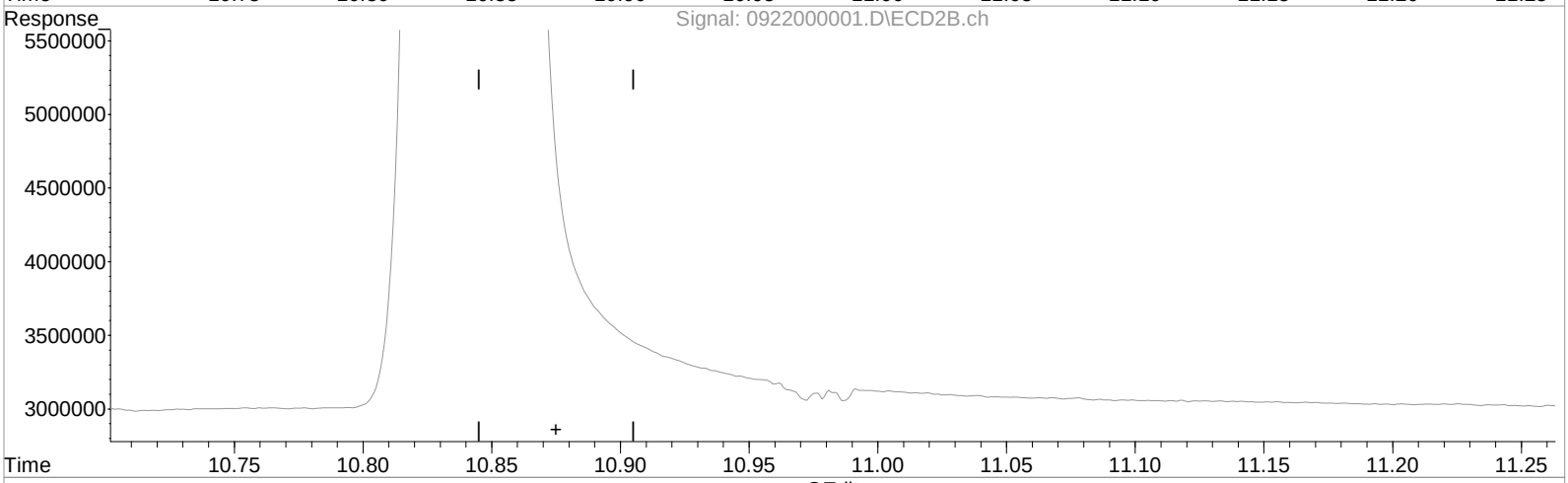
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092223A\0922000001.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 15:37:41 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:24:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

11.021min 50.000 ug/L m

response 106701397

(1) Pentachloronitrobenzene #2 (I)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(+) = Expected Retention Time

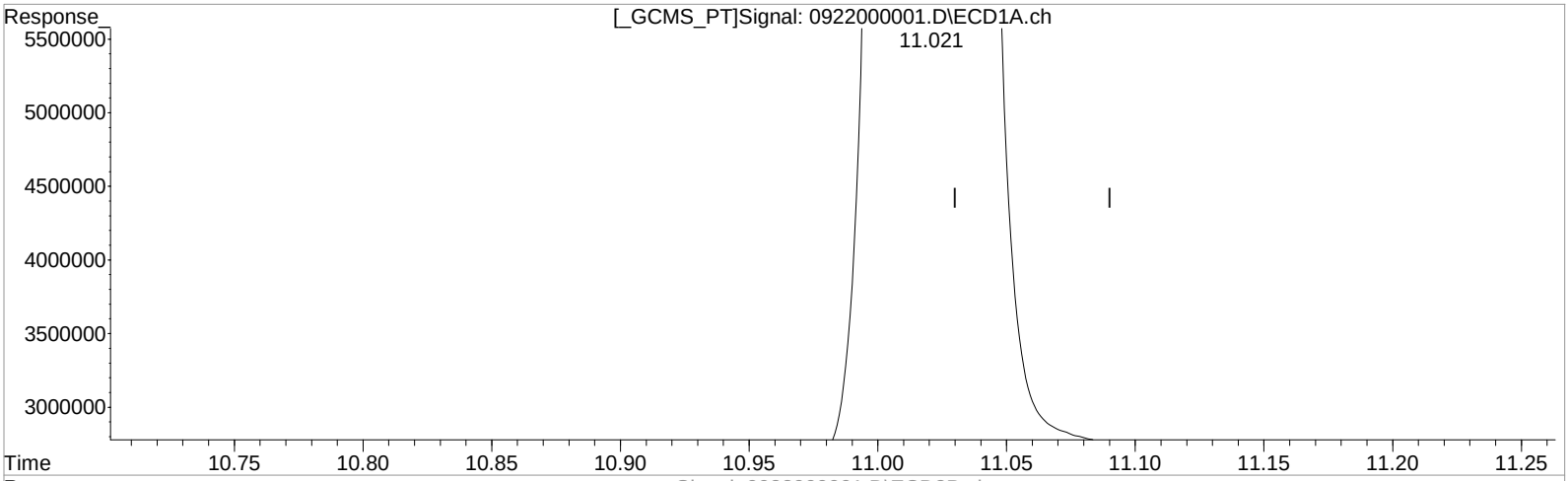
Quantitation Report (Qedit)

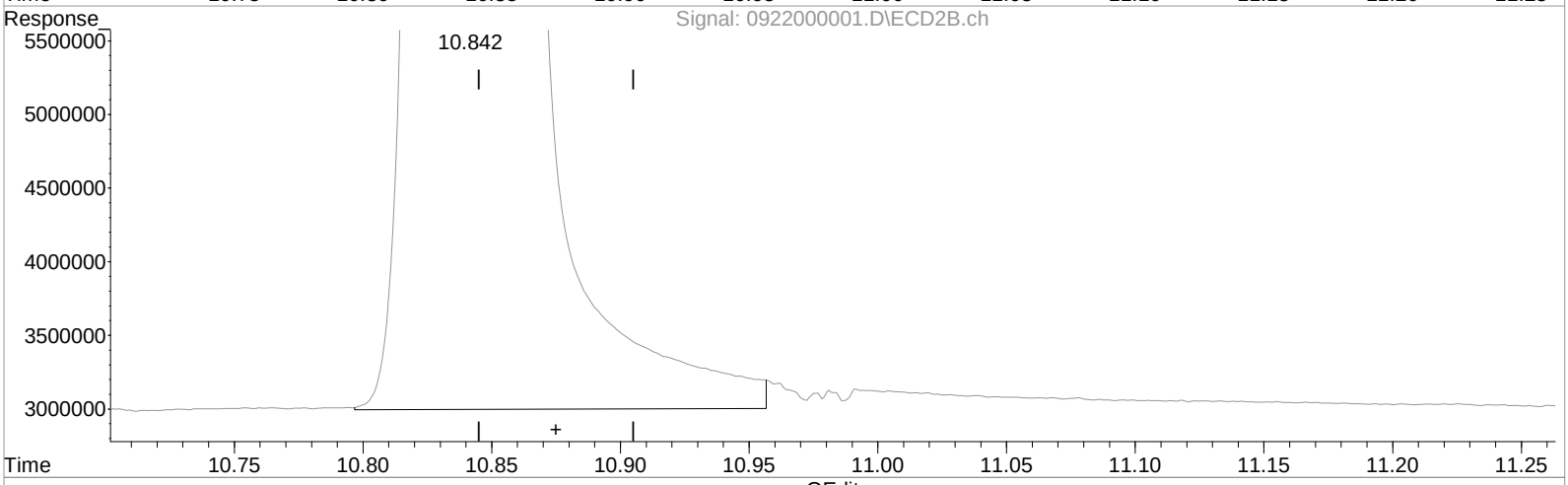
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092223A\0922000001.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 15:37:41 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:24:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

11.021min 50.000 ug/L m

response 106701397

Manual Integration:

After

Baseline/Shoulder

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.842min 50.000 ug/L m

response 147277797

(+) = Expected Retention Time

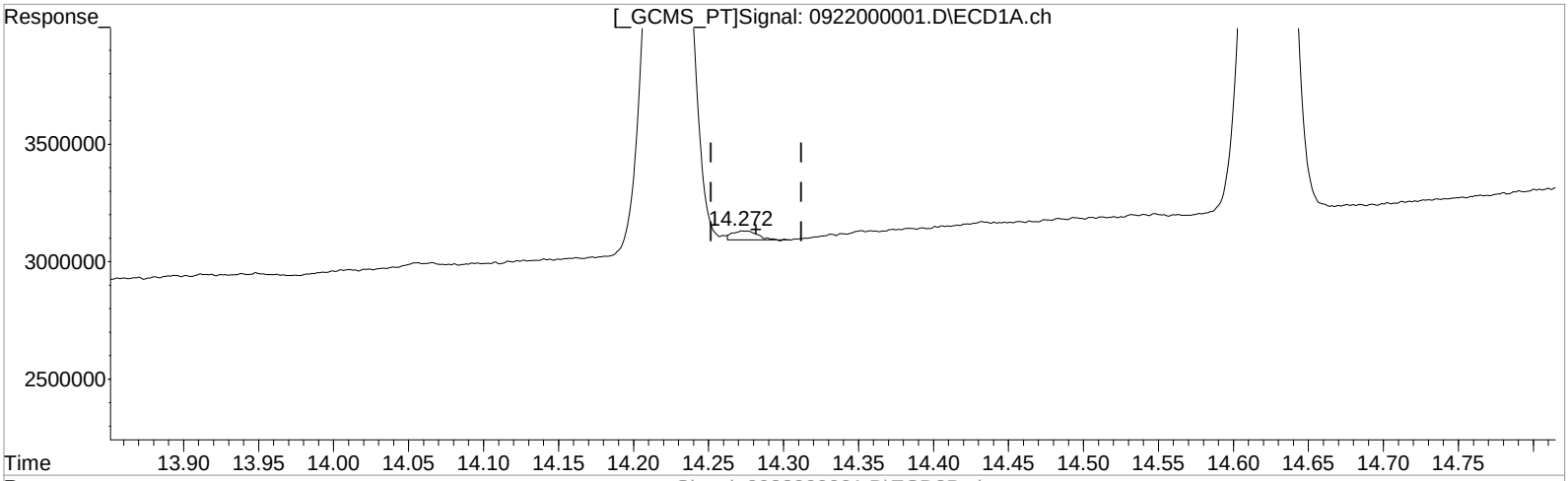
Quantitation Report (Qedit)

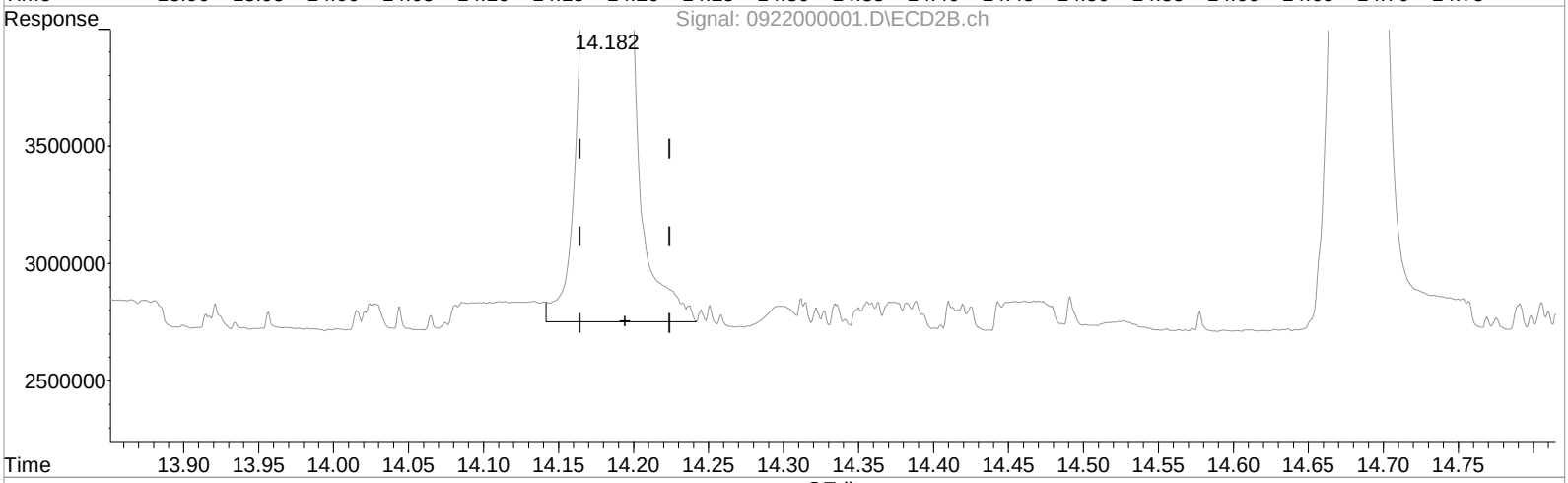
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092223A\0922000001.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 15:37:41 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:24:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

14.272min 0.040 ug/L

response 45358

Manual Integration:

Before

10/11/23

(17) Endrin #2 (m)

14.182min 5.561 ug/L

response 10090802

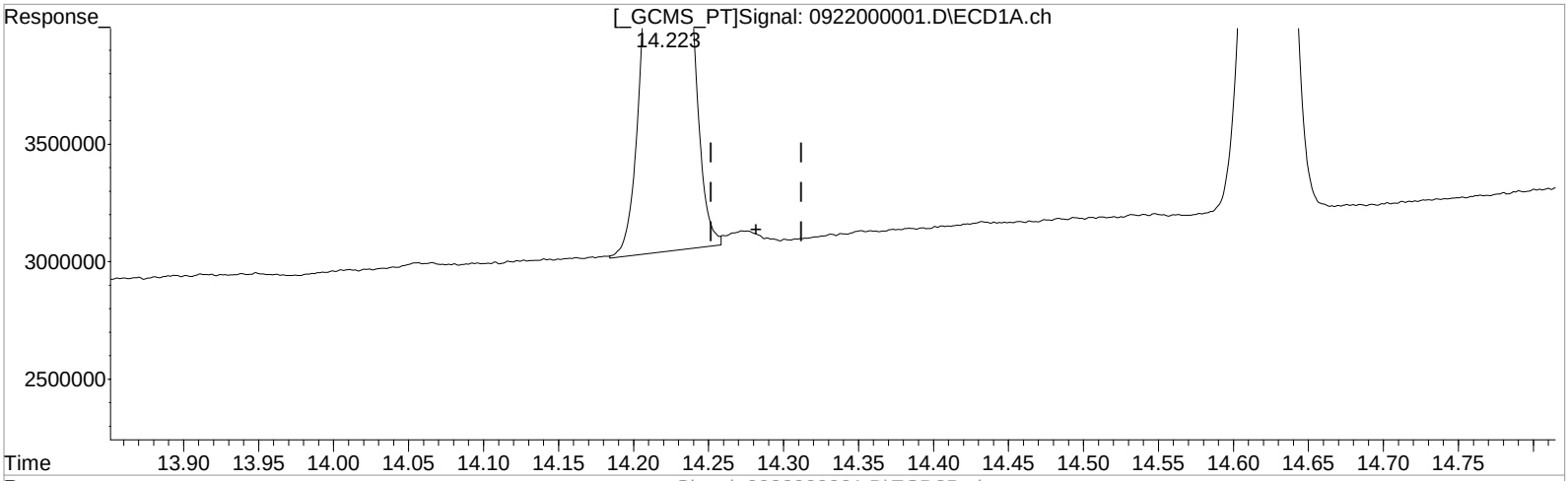
(+) = Expected Retention Time

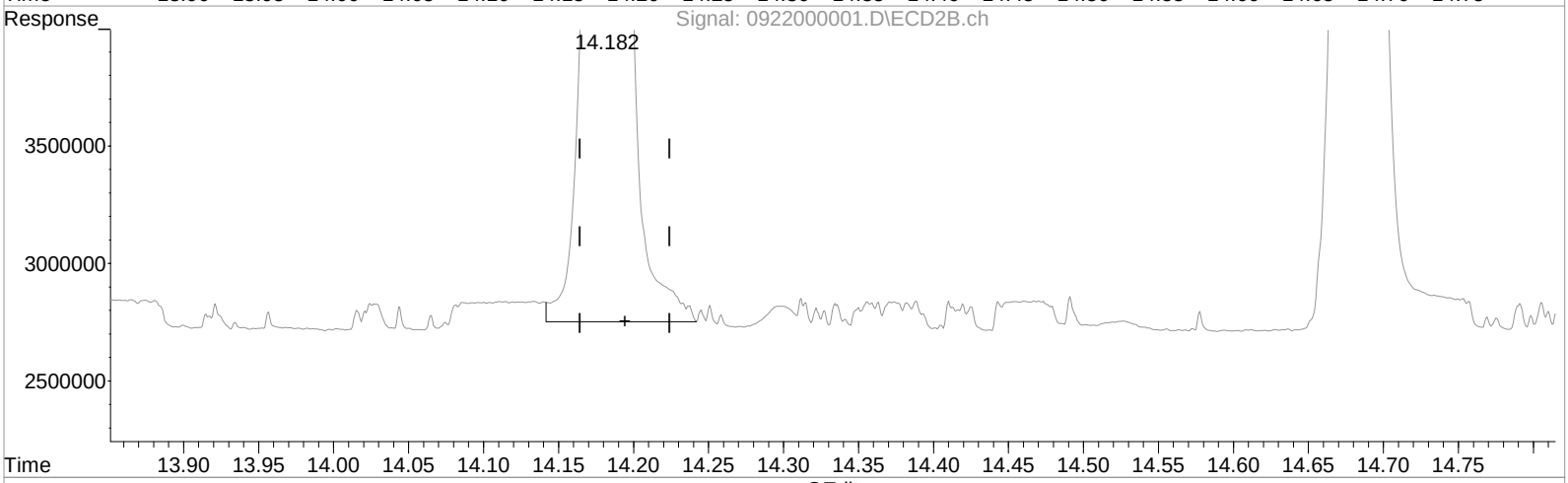
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092223A\0922000001.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 15:37:41 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:24:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

14.223min 5.056 ug/L m

response 5753675

Manual Integration:

After

Missed Peak

10/11/23

(17) Endrin #2 (m)

14.182min 5.561 ug/L

response 10090802

(+) = Expected Retention Time

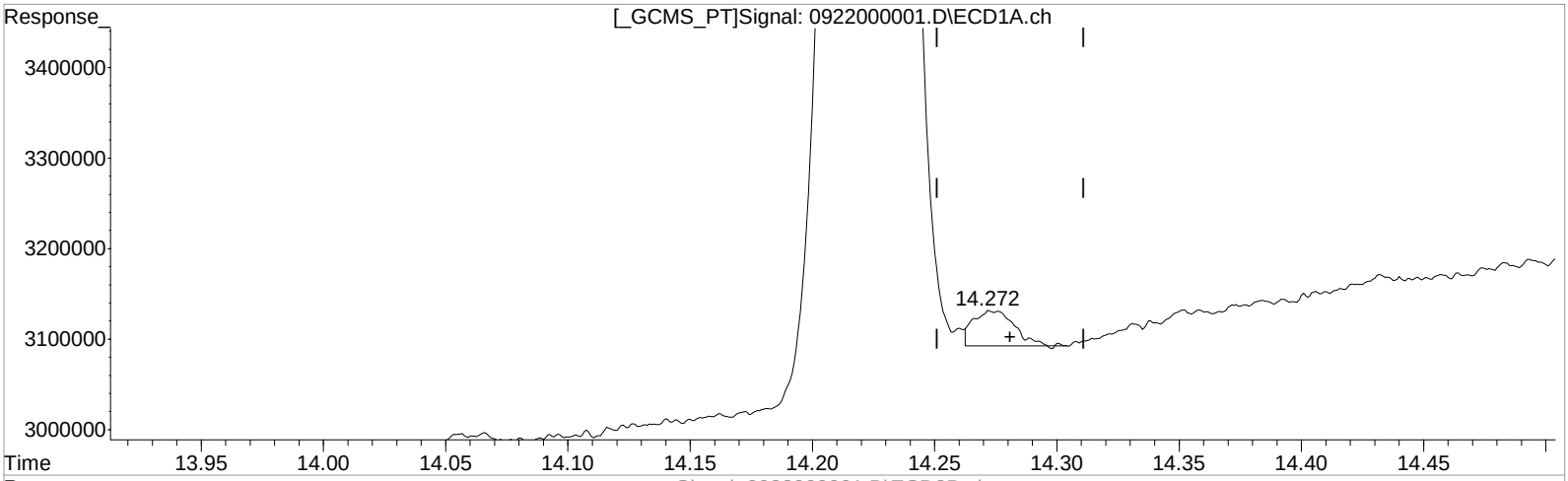
Quantitation Report (Qedit)

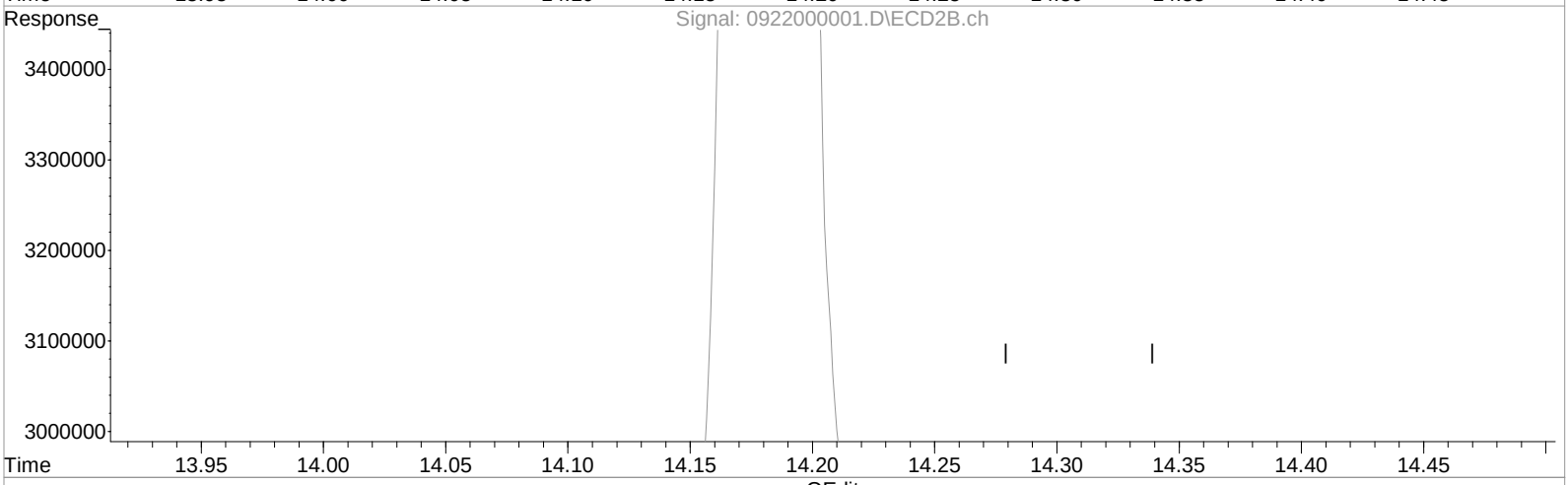
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\092223A\0922000001.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 15:37:41 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:43:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 13:41:01 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

14.272min 0.051 ug/L

response 45358

Manual Integration:

Before

10/11/23

(18) 4,4'-DDD #2 (m)

14.297min 0.063 ug/L

response 102729

(+) = Expected Retention Time

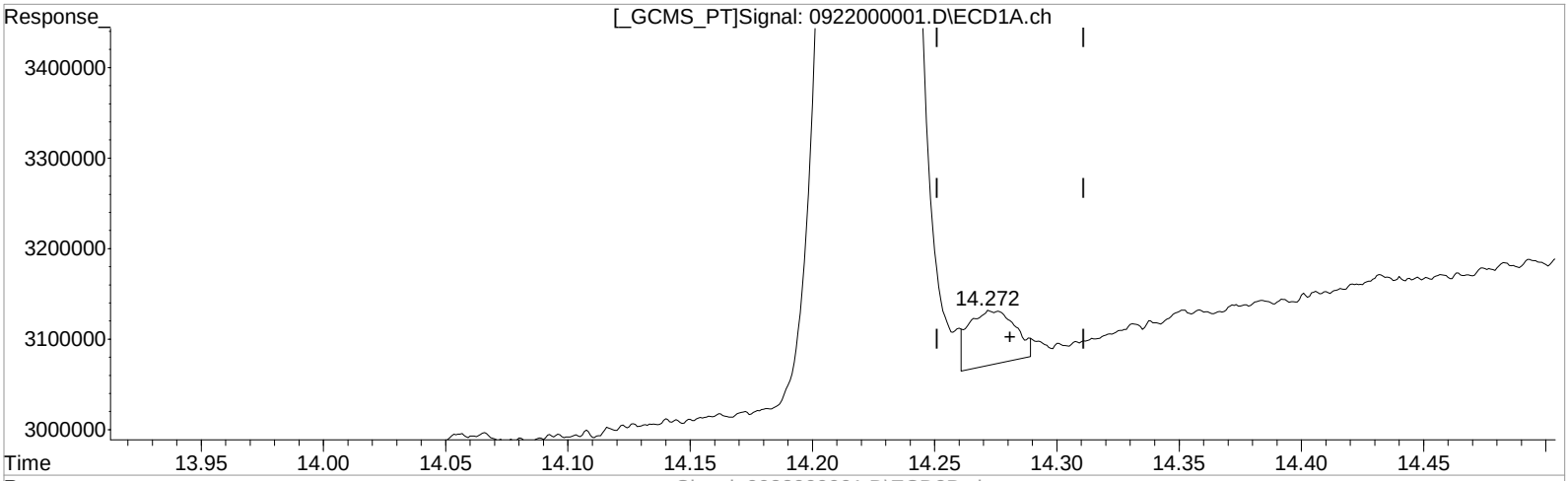
Quantitation Report (Qedit)

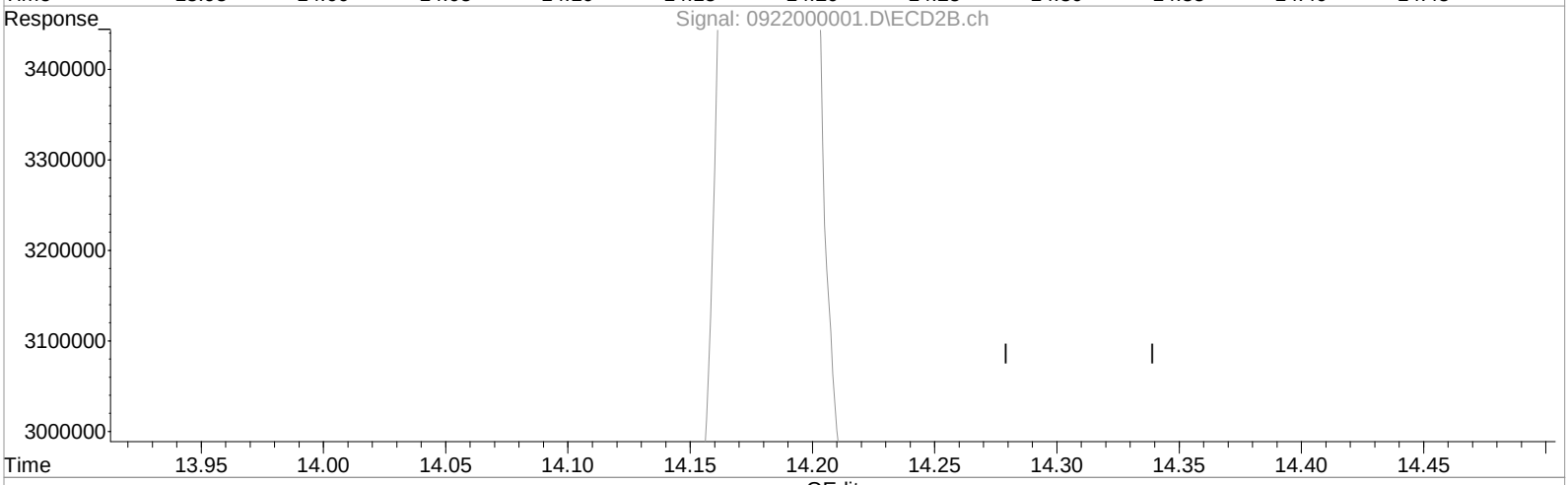
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\092223A\0922000001.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 15:37:41 Operator: bb
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:43:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 13:41:01 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

14.272min 0.089 ug/L m

response 78950

Manual Integration:

After

Baseline/Shoulder

10/11/23

(18) 4,4'-DDD #2 (m)

14.297min 0.063 ug/L

response 102729

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092223A\0922000002.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:09:50 Operator: bb
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:44:31 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 13:41:01 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
1) I	Pentachlo...	11.023	10.848	106.3E6	138.5E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

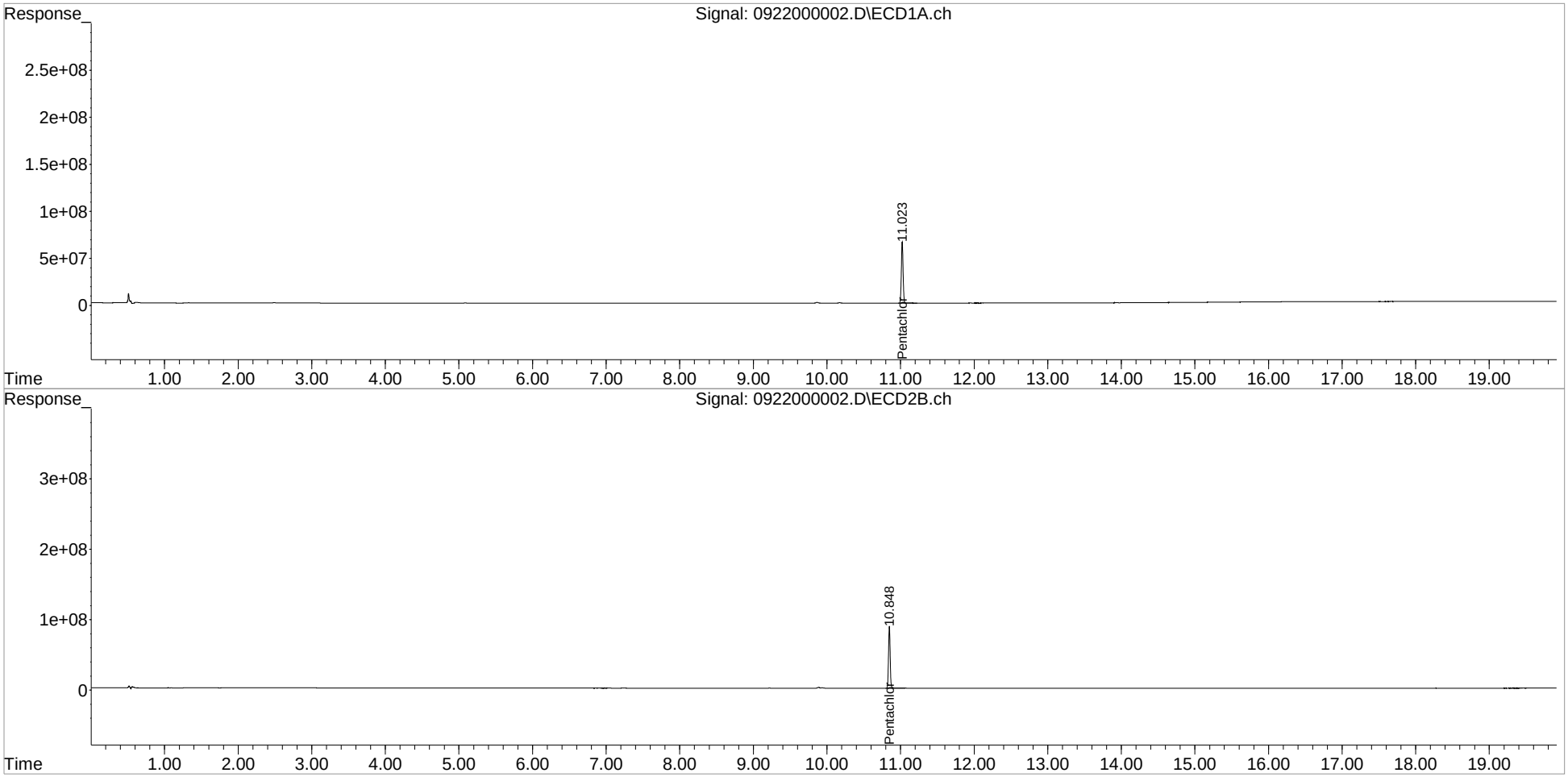
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092223A\0922000002.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:09:50 Operator: bb
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:44:31 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 13:41:01 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



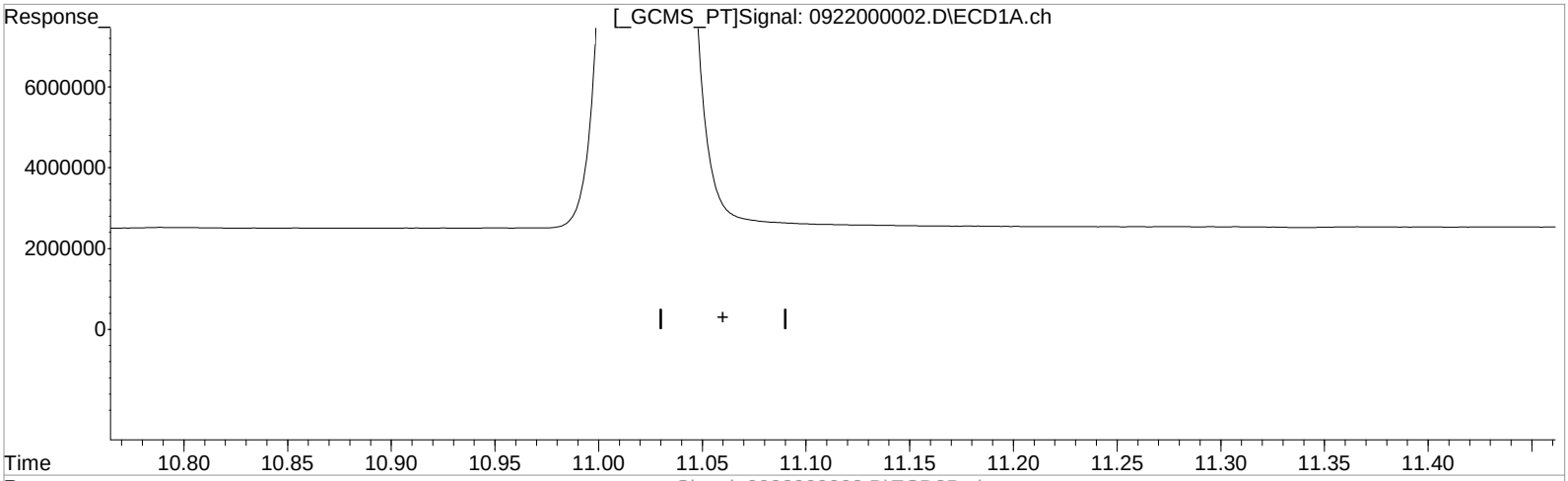
Quantitation Report (Qedit)

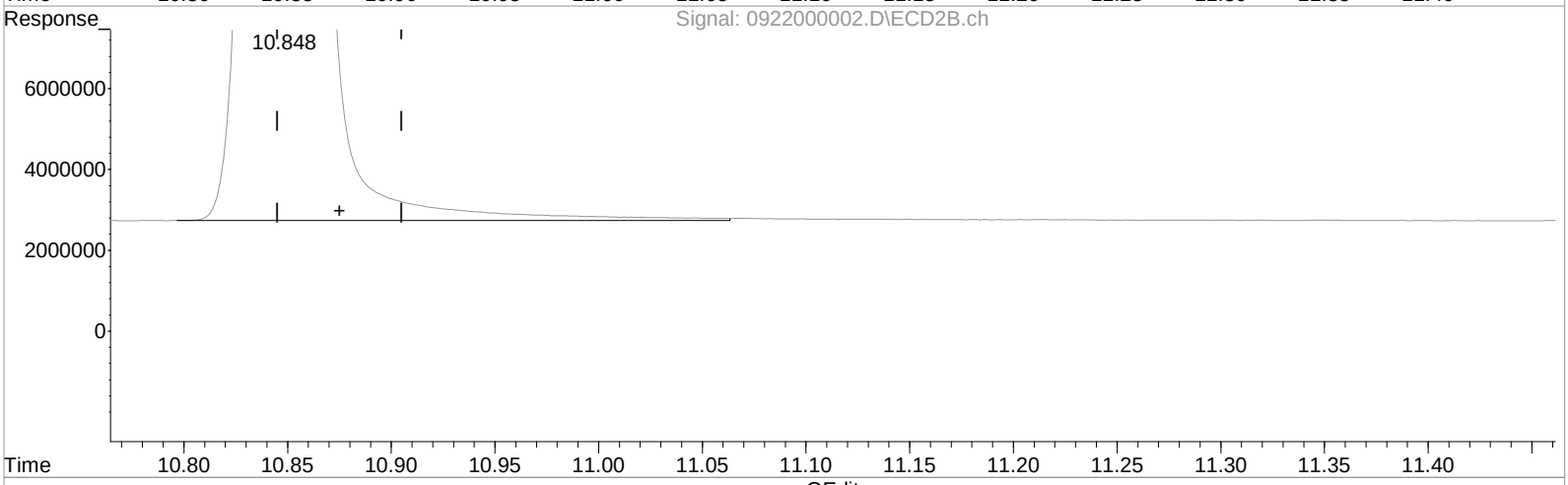
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092223A\0922000002.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:09:50 Operator: bb
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:24:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:06 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.848min 50.000 ug/L

response 138465674

(+) = Expected Retention Time

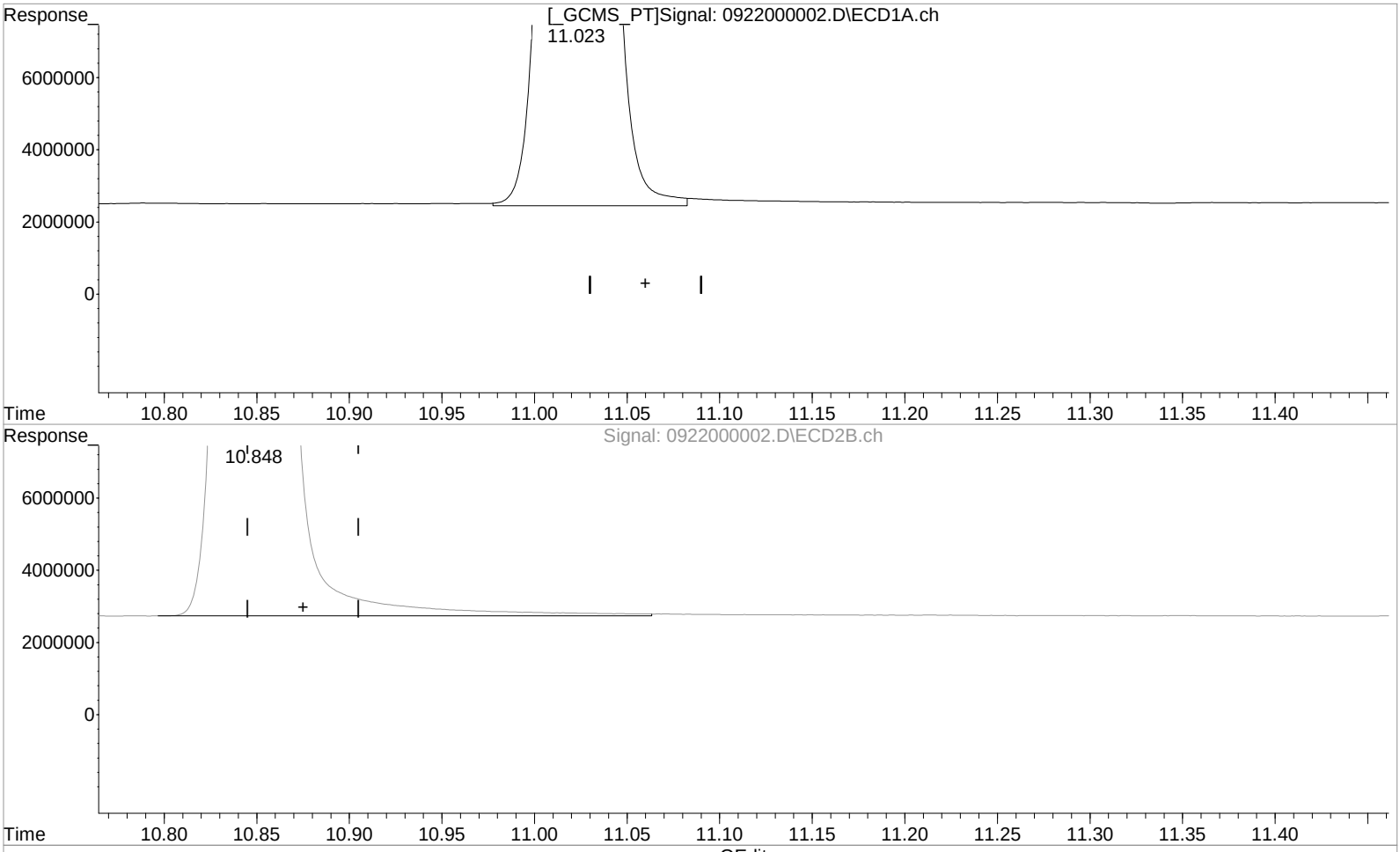
Quantitation Report (Qedit)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092223A\0922000002.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:09:50 Operator: bb
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:24:56 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:06 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(1) Pentachloronitrobenzene (I)

11.023min 50.000 ug/L m

response 106183479

Manual Integration:

After

Baseline/Shoulder

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.848min 50.000 ug/L

response 138465674

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/01/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\092223A\0922000003.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:42:13 Operator: bb
Sample : DWSTD08-85B 75PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 09:33:34 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
1) I	Pentachlo...	11.024	10.849	100.5E6	118.2E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
3) m	alpha-BHC	10.259	10.231	178.9E6	242.6E6	70.912	76.509
5) m	gamma-BHC...	10.886	10.903	159.0E6	214.0E6	68.307	73.694
6) m	beta-BHC	11.058	11.071	47818740	87132713	69.467	75.266
7) m	delta-BHC	11.354	11.538	157.3E6	197.0E6	70.688	75.581
8) m	Heptachlor	11.695	11.614	132.9E6	187.7E6	69.530	74.881
9) m	Aldrin	12.163	12.098	149.3E6	193.9E6	72.532	70.374
11) m	Heptachlo...	13.061	12.922	125.1E6	162.3E6	74.949	71.539
12) m	beta-Chlo...	13.230	13.176	122.9E6	161.5E6	74.006	71.661
13) m	alpha-Chl...	13.412	13.371	118.9E6	154.3E6	76.633	70.757
14) m	4,4'-DDE	13.506f	13.587	104.8E6	137.9E6	79.092m	72.284
15) m	Endosulfan I	13.602f	13.443	113.1E6	141.7E6	78.709m	71.496
16) m	Dieldrin	13.918	13.799	114.4E6	148.4E6	74.023	67.412
17) m	Endrin	14.227	14.188	97026199	119.5E6	79.550	71.509
18) m	4,4'-DDD	14.276	14.304	76325694	106.1E6	80.822	71.062
19) m	Endosulfa...	14.515	14.449	91966883	112.8E6	74.661	67.998
20) m	4,4'-DDT	14.627	14.688	66782304	91451798	72.731	64.799
21) m	Endrin Al...	15.048	14.864	65247805	80713035	69.878	63.308
22) m	Methoxychlor	15.197	15.523	33603721	43267526	75.681	69.671
23) m	Endosulfa...	15.636	15.210	78196415	92105887	72.795	64.701
24) m	Endrin Ke...	16.024	15.932	87165480	92092830	71.591	61.418
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

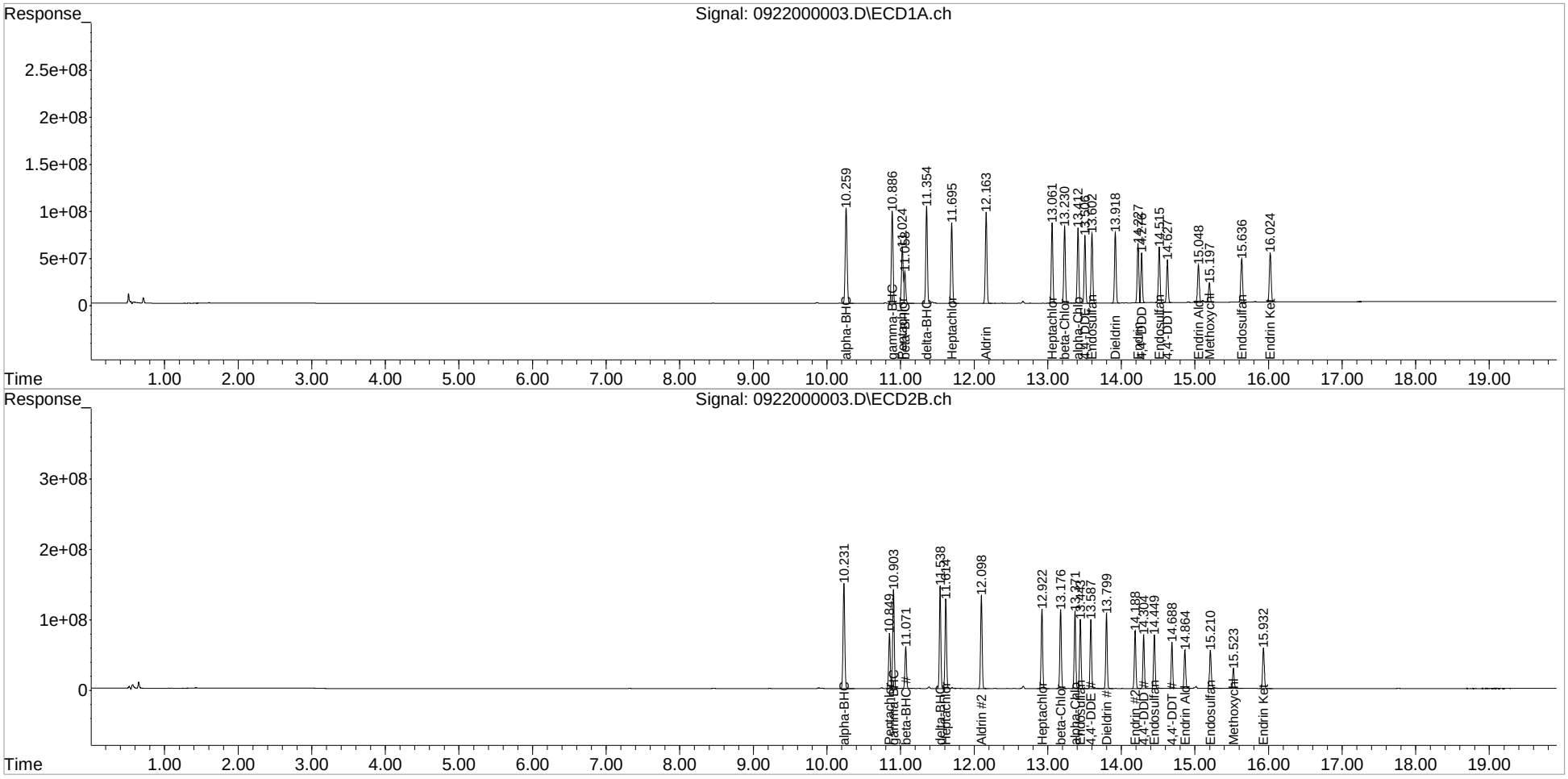
1st BB 10/01/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\092223A\0922000003.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:42:13 Operator: bb
Sample : DWSTD08-85B 75PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 09:33:34 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (Qedit)

JW for BB

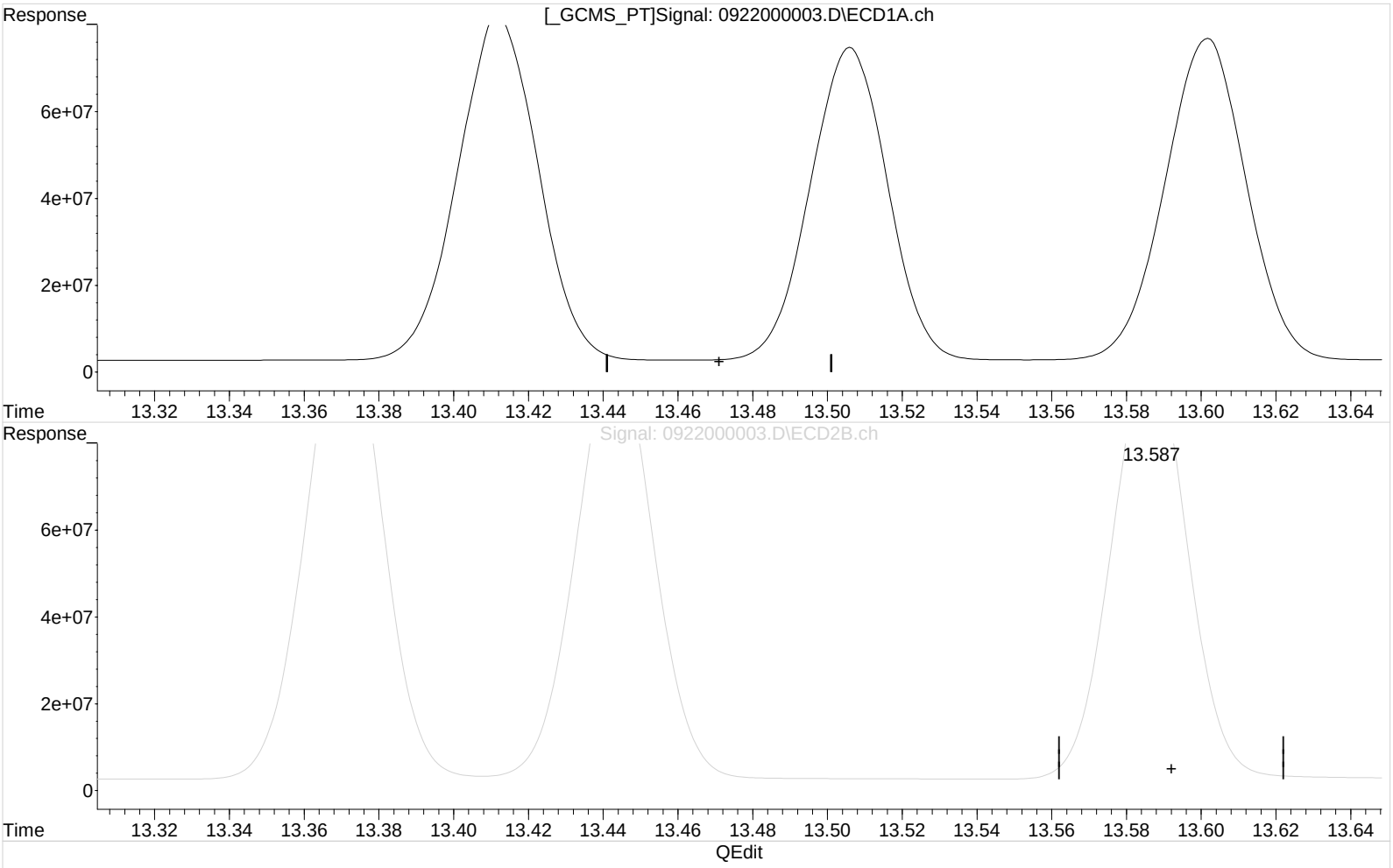
1st 10/16/23

2nd 10/16/23

Data File : J:\GC33\DATA\092223A\0922000003.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:42:13 Operator: bb
Sample : DWSTD08-85B 75PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 12 16:44:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(14) 4,4'-DDE (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/16/23

(14) 4,4'-DDE #2 (m)

13.587min 72.284 ug/L

response 137903690

(+) = Expected Retention Time

Quantitation Report (Qedit)

JW for BB

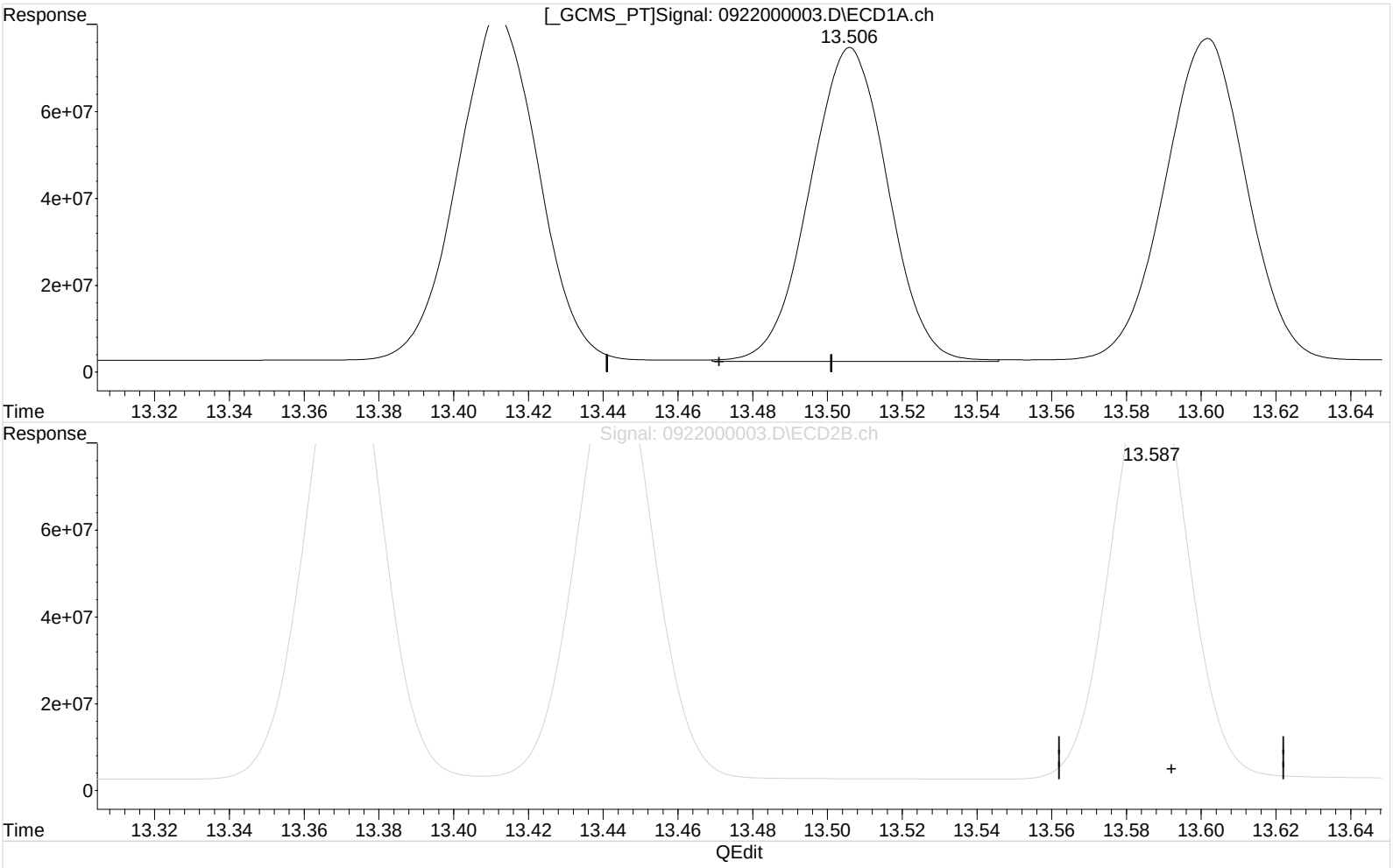
1st 10/16/23

2nd 10/16/23

Data File : J:\GC33\DATA\092223A\0922000003.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:42:13 Operator: bb
Sample : DWSTD08-85B 75PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 12 16:44:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(14) 4,4'-DDE (m)

13.506min 79.092 ug/L m

response 104846562

Manual Integration:

After

Missed Peak

10/16/23

(14) 4,4'-DDE #2 (m)

13.587min 72.284 ug/L

response 137903690

(+) = Expected Retention Time

Quantitation Report (Qedit)

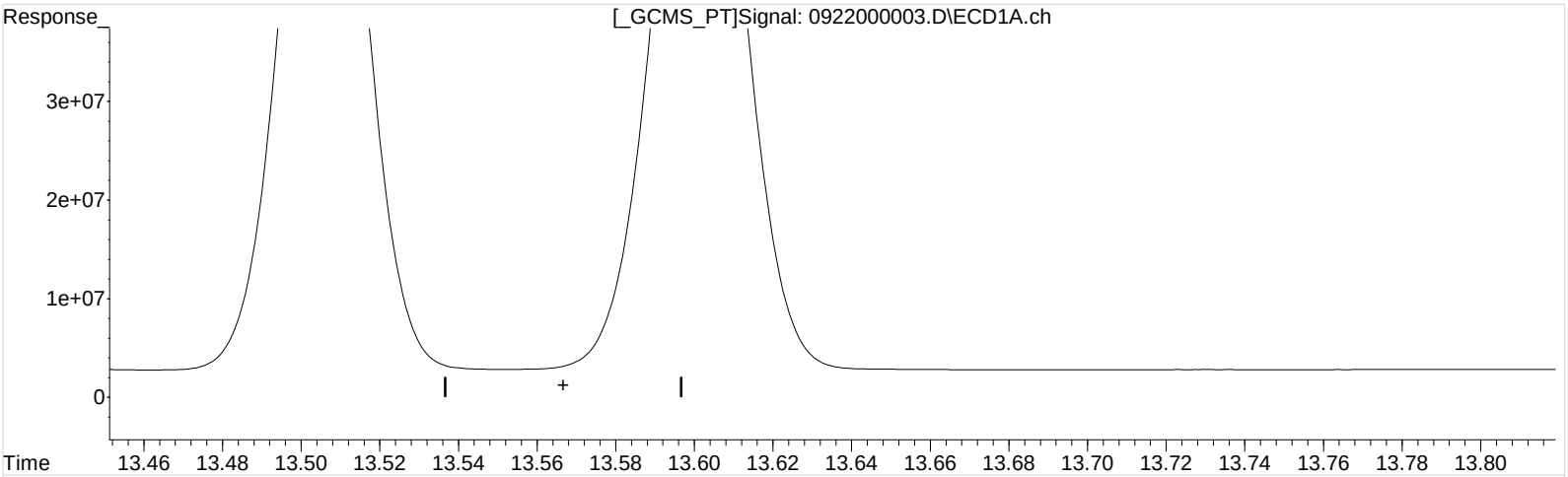
JW for BB

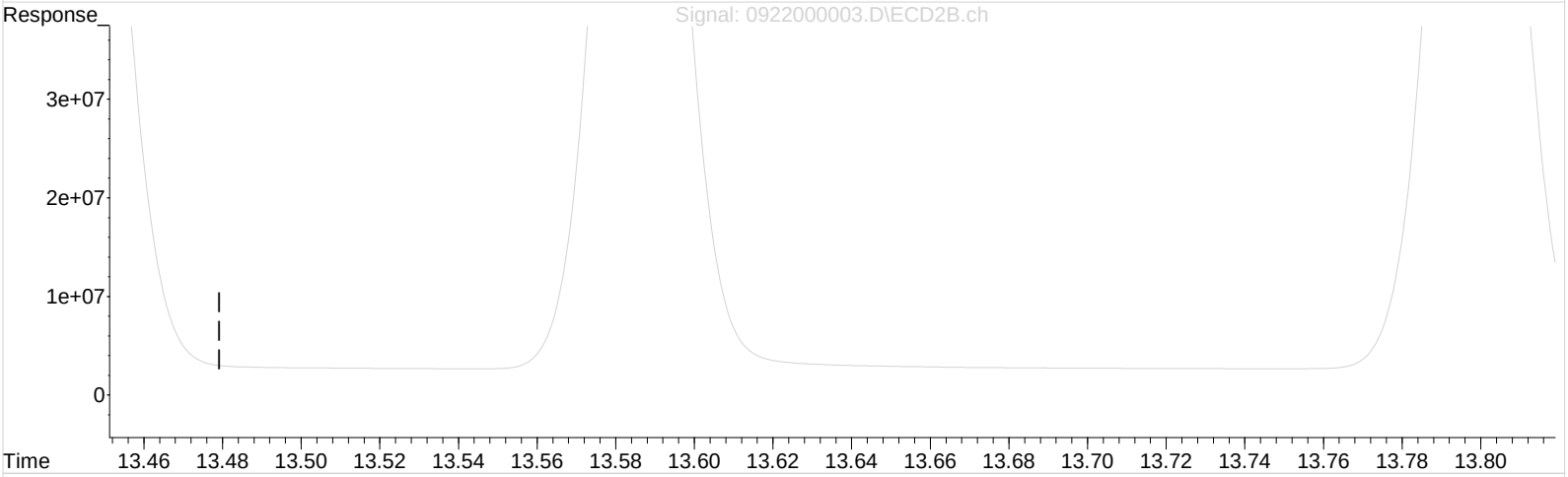
1st 10/16/23
2nd 10/16/23

Data File : J:\GC33\DATA\092223A\0922000003.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:42:13 Operator: bb
Sample : DWSTD08-85B 75PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 12 16:44:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(15) Endosulfan I (m)

0.000min 0.000 ug/L

response 0

(15) Endosulfan I #2 (m)

13.443min 71.496 ug/L

response 141685149

Manual Integration:

Before

10/16/23

(+) = Expected Retention Time

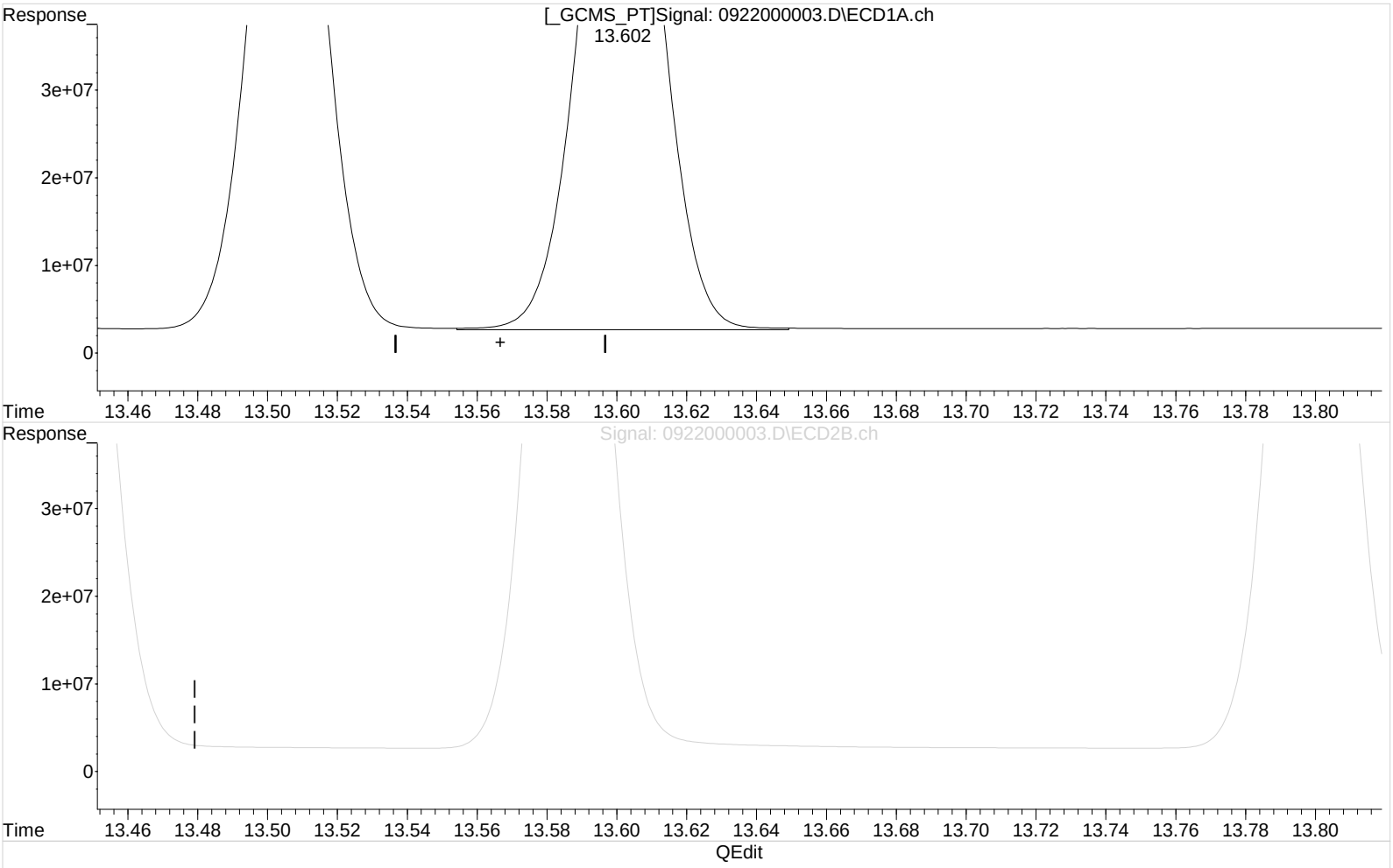
Quantitation Report (Qedit)

1st 10/16/23
JW for BB
2nd 10/16/23

Data File : J:\GC33\DATA\092223A\0922000003.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22-Sep-2023, 16:42:13 Operator: bb
Sample : DWSTD08-85B 75PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 12 16:44:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(15) Endosulfan I (m)

13.602min 78.709 ug/L m

response 113063801

Manual Integration:

After

Missed Peak

10/16/23

(15) Endosulfan I #2 (m)

13.443min 71.496 ug/L

response 141685149

(+) = Expected Retention Time

1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 15:45:26 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:55:55 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 09:29:08 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		Internal Standards							
1)	I	Pentachlo...	11.025f	10.852f	141.1E6	183.6E6	50.000m	50.000	
		System Monitoring Compounds							
					pass <15%	pass <15%			
		Target Compounds							
14)	m	4,4'-DDE	13.507	13.591	76001	145489	0.046	0.056	
17)	m	Endrin	14.233f	14.193	8026146	12468071	5.336m	5.511	
18)	m	4,4'-DDD	14.279	14.313	94083	245060	0.081m	0.121	#
20)	m	4,4'-DDT	14.633	14.694	13926519	24274847	12.273	12.724	
21)	m	Endrin Al...	15.056	14.869	320833	604147	0.283	0.353	
24)	m	Endrin Ke...	16.032	15.937	293357	476820	0.198	0.237	
		SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

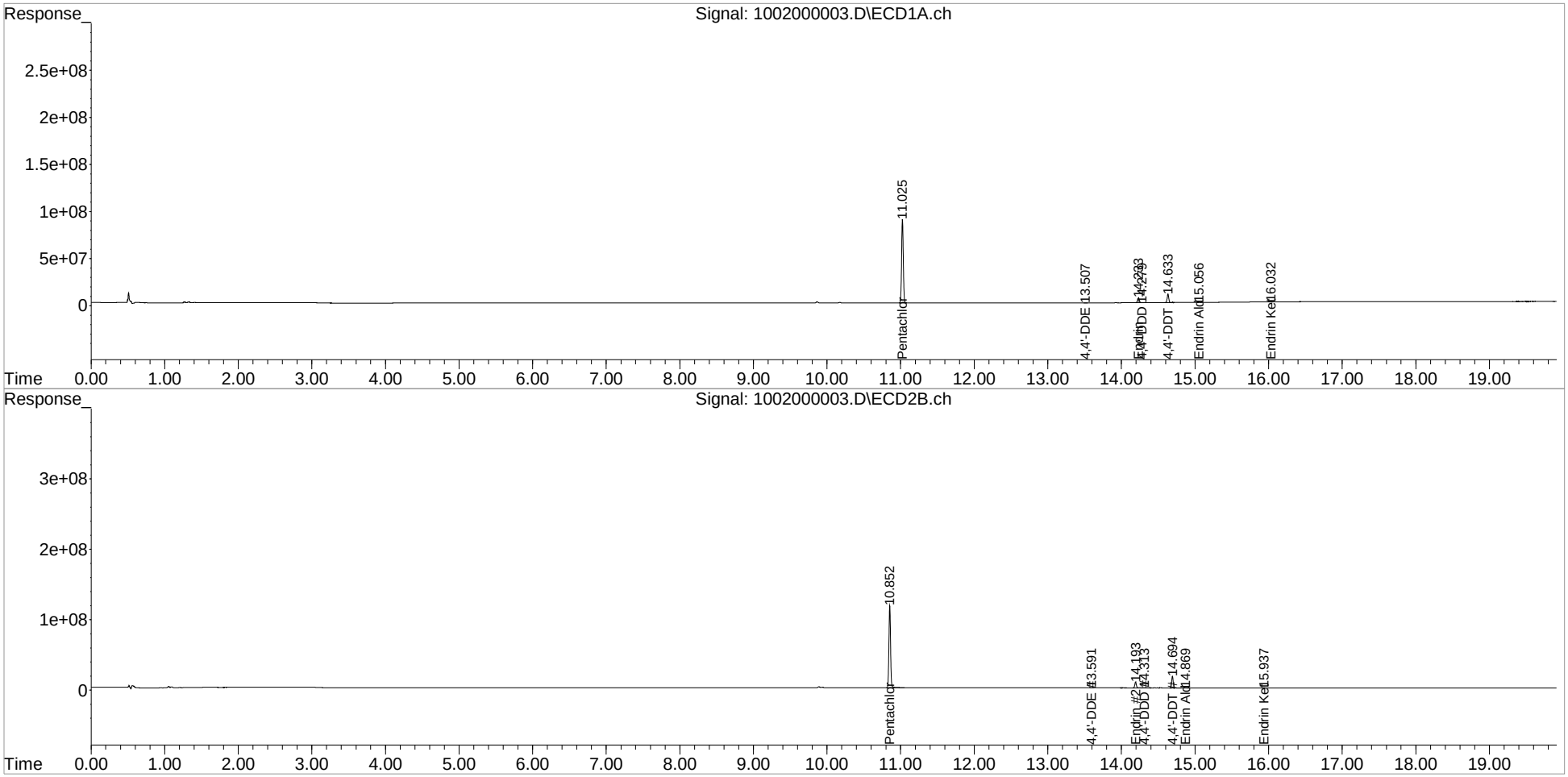
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 15:45:26 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 13:55:55 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 09:29:08 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



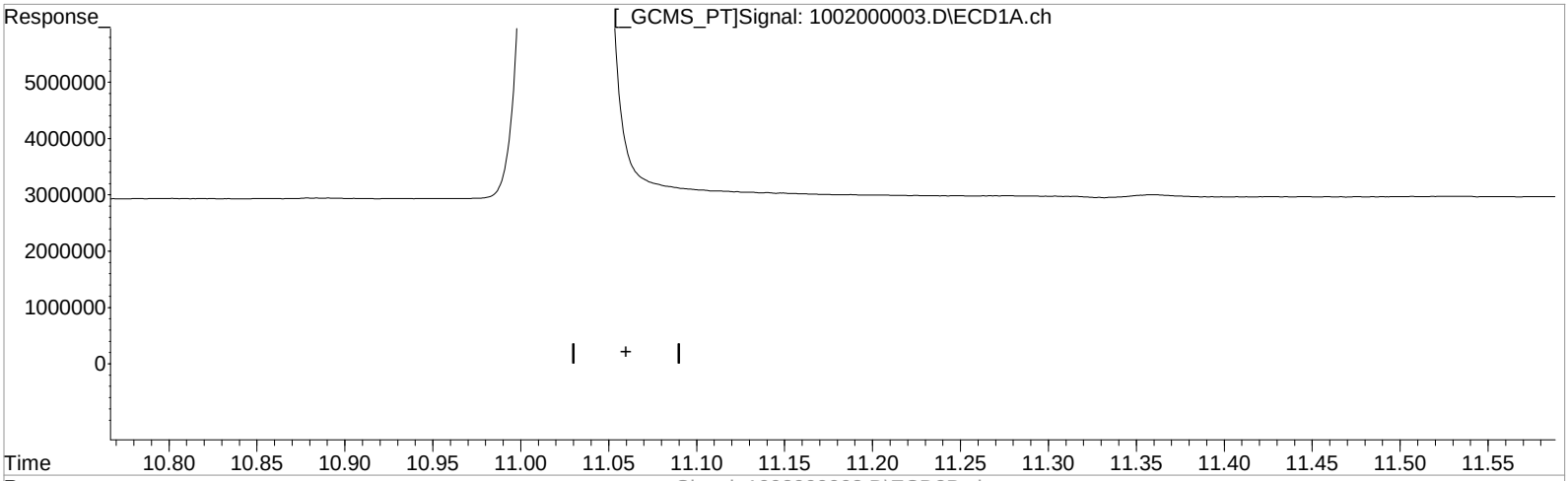
Quantitation Report (Qedit)

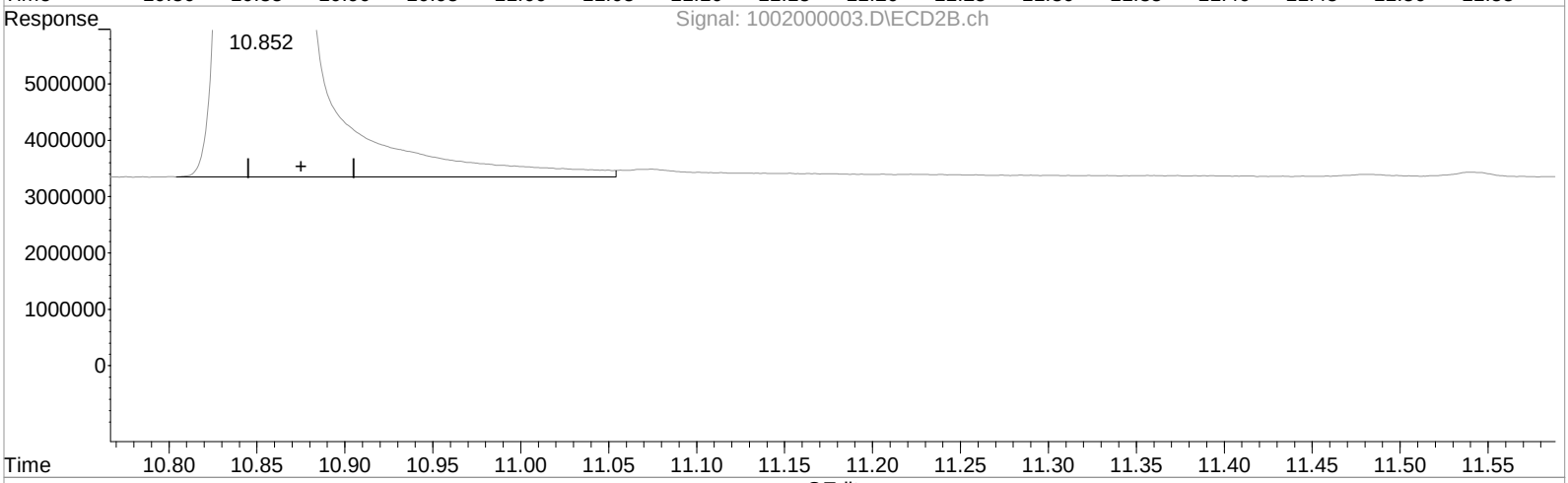
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 15:45:26 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:52:44 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 09:29:08 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.852min 50.000 ug/L

response 183619449

(+) = Expected Retention Time

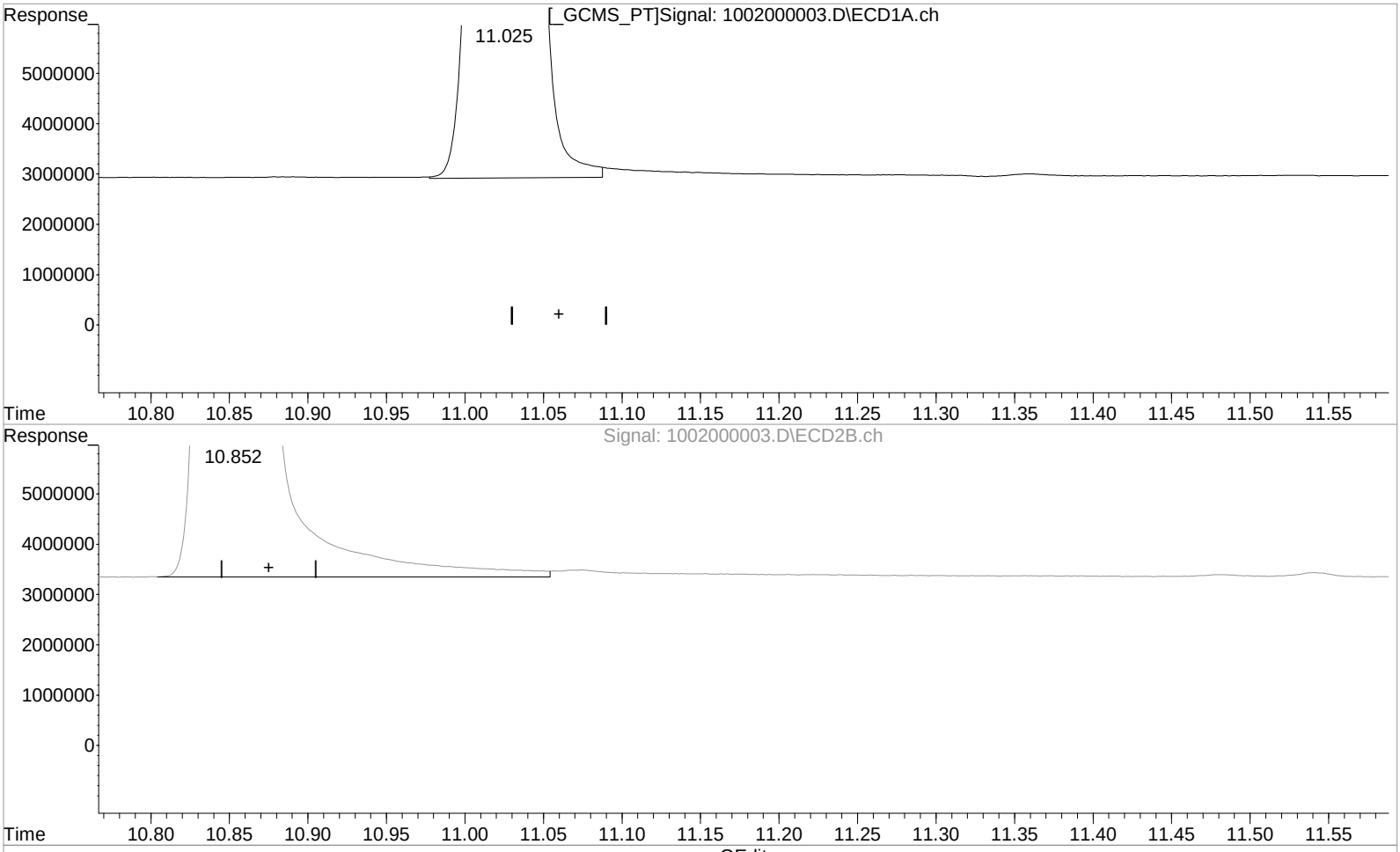
Quantitation Report (Qedit)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 15:45:26 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:52:44 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 09:29:08 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(1) Pentachloronitrobenzene (I)

11.025min 50.000 ug/L m

response 141051037

Manual Integration:

After

Baseline/Shoulder

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.852min 50.000 ug/L

response 183619449

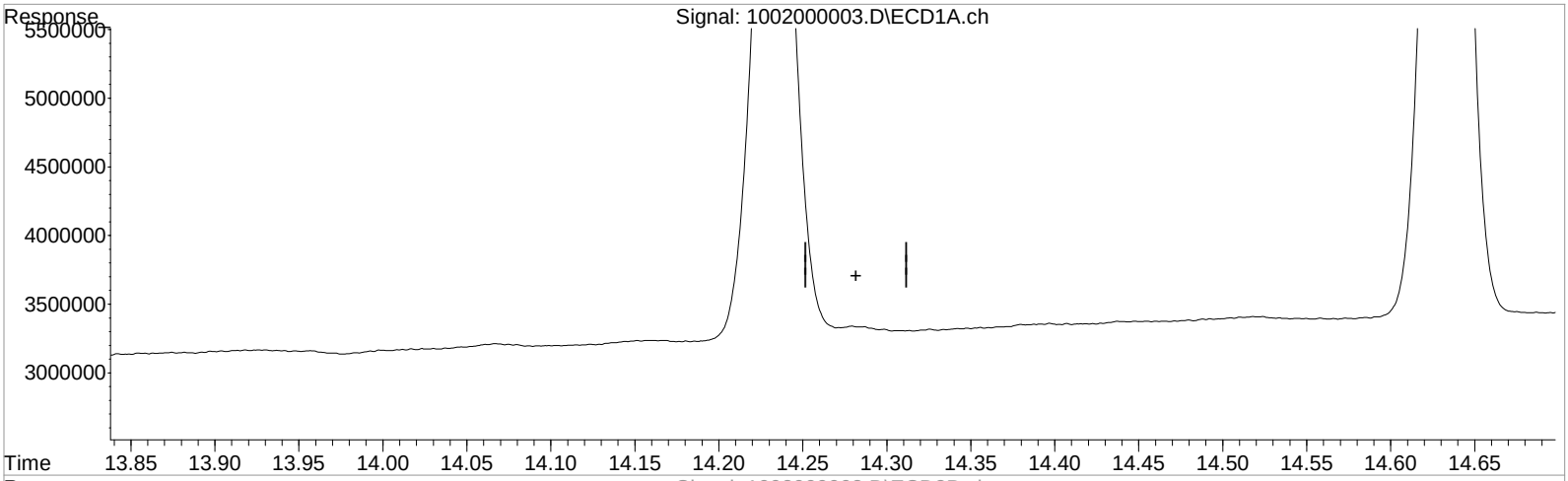
(+) = Expected Retention Time

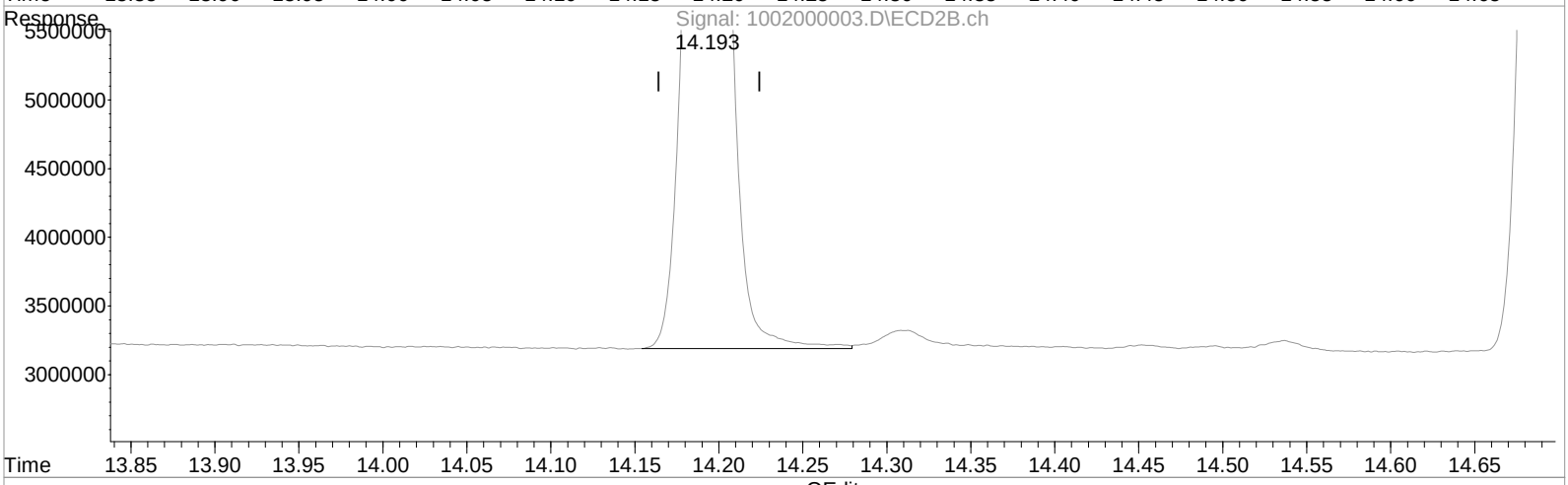
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 15:45:26 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:52:44 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 09:29:08 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

0.000min 0.000 ug/L

response 0

(17) Endrin #2 (m)

14.193min 5.511 ug/L

response 12468071

Manual Integration:

Before

10/11/23

(+) = Expected Retention Time

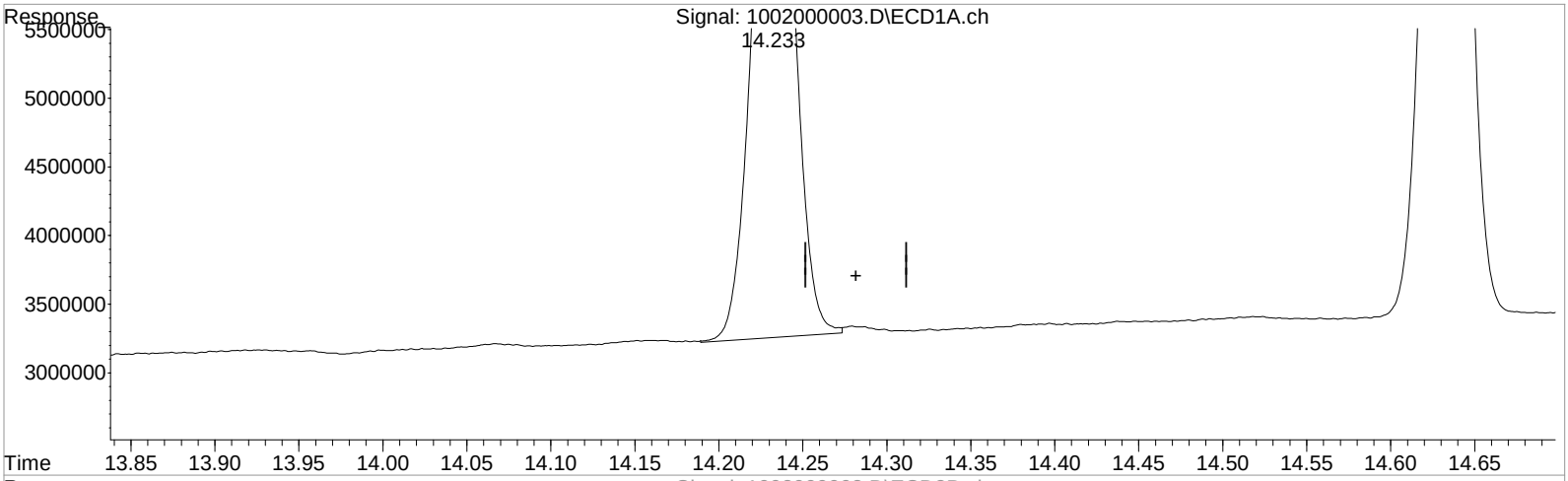
Quantitation Report (Qedit)

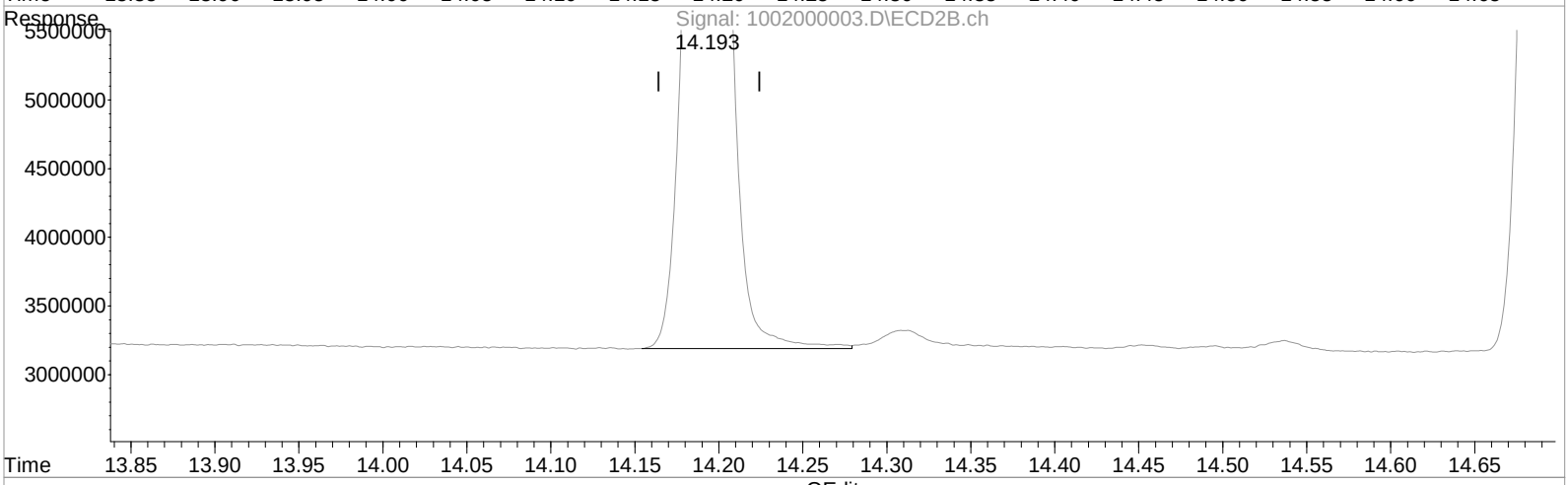
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 15:45:26 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:52:44 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 09:29:08 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

14.233min 5.336 ug/L m

response 8026146

Manual Integration:

After

Baseline/Shoulder

10/11/23

(17) Endrin #2 (m)

14.193min 5.511 ug/L

response 12468071

(+) = Expected Retention Time

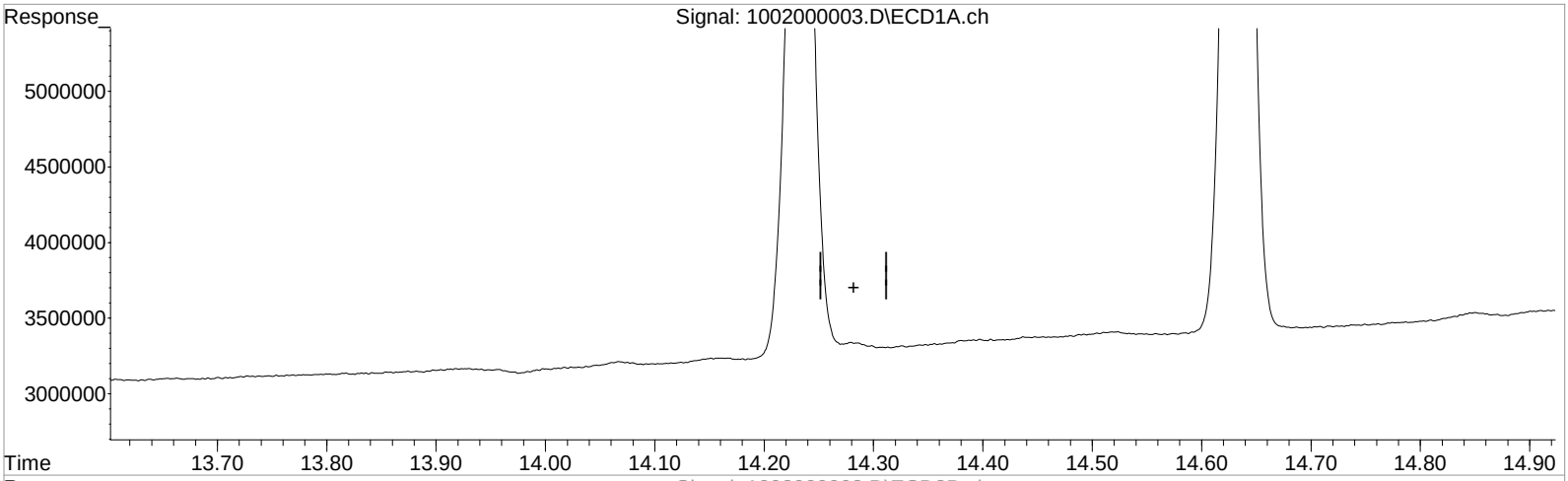
Quantitation Report (Qedit)

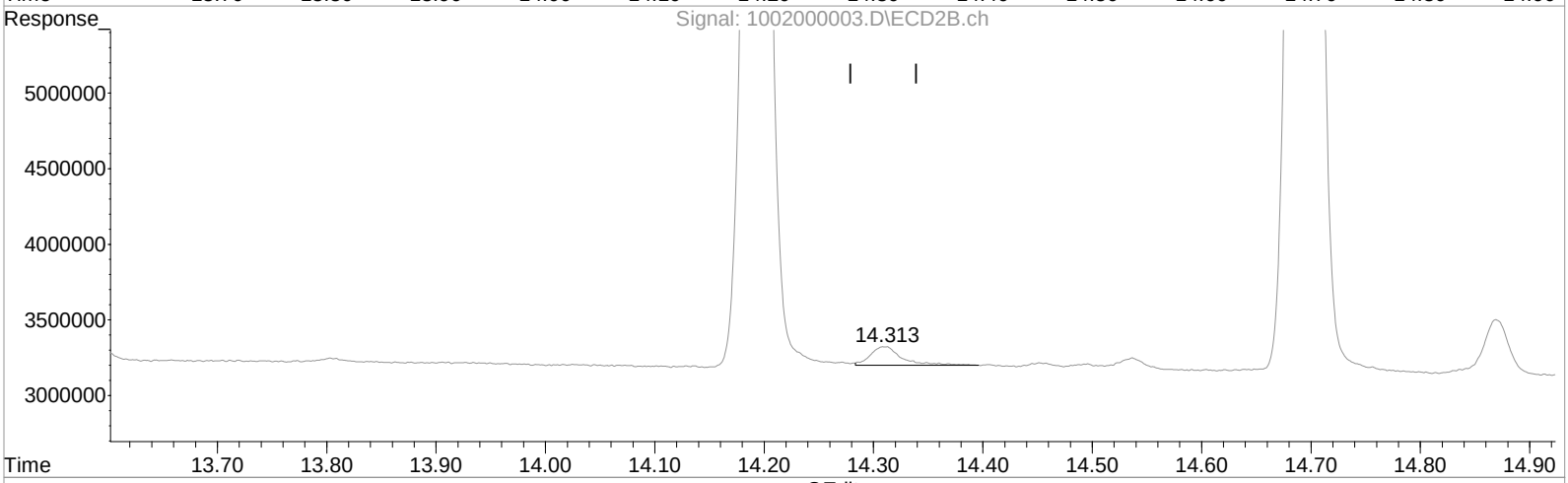
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 15:45:26 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 12:00:06 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 09:29:08 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(18) 4,4'-DDD #2 (m)

14.313min 0.121 ug/L

response 245060

(+) = Expected Retention Time

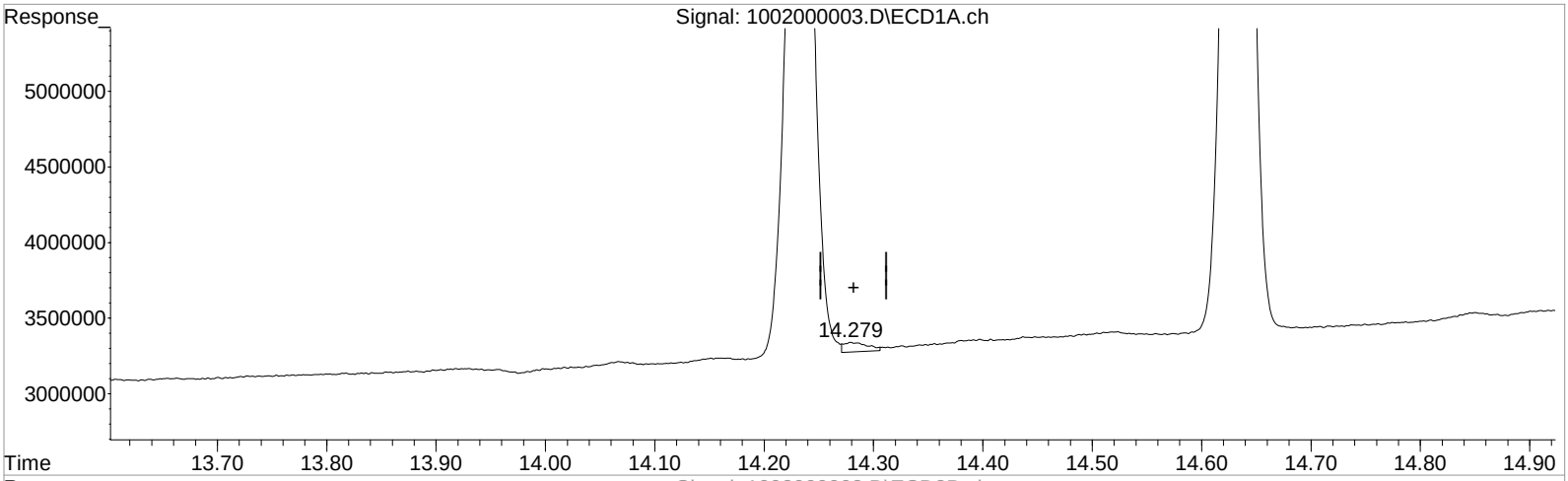
Quantitation Report (Qedit)

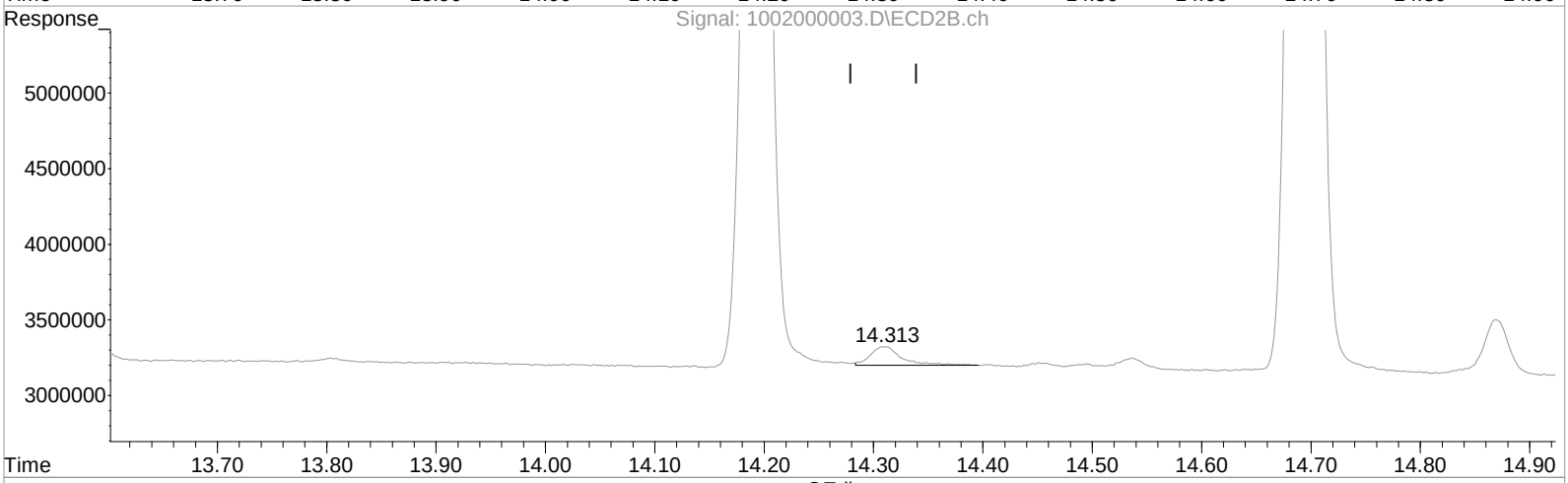
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000003.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 15:45:26 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 12:00:06 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 09:29:08 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(18) 4,4'-DDD (m)

14.279min 0.081 ug/L m

response 94083

Manual Integration:

After

Baseline/Shoulder

10/11/23

(18) 4,4'-DDD #2 (m)

14.313min 0.121 ug/L

response 245060

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000005.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 16:50:11 Operator: BB
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:54:42 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
1) I	Pentachlo...	11.024f	10.852f	135.0E6	198.2E6	50.000m	50.000
	System Monitoring Compounds						
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

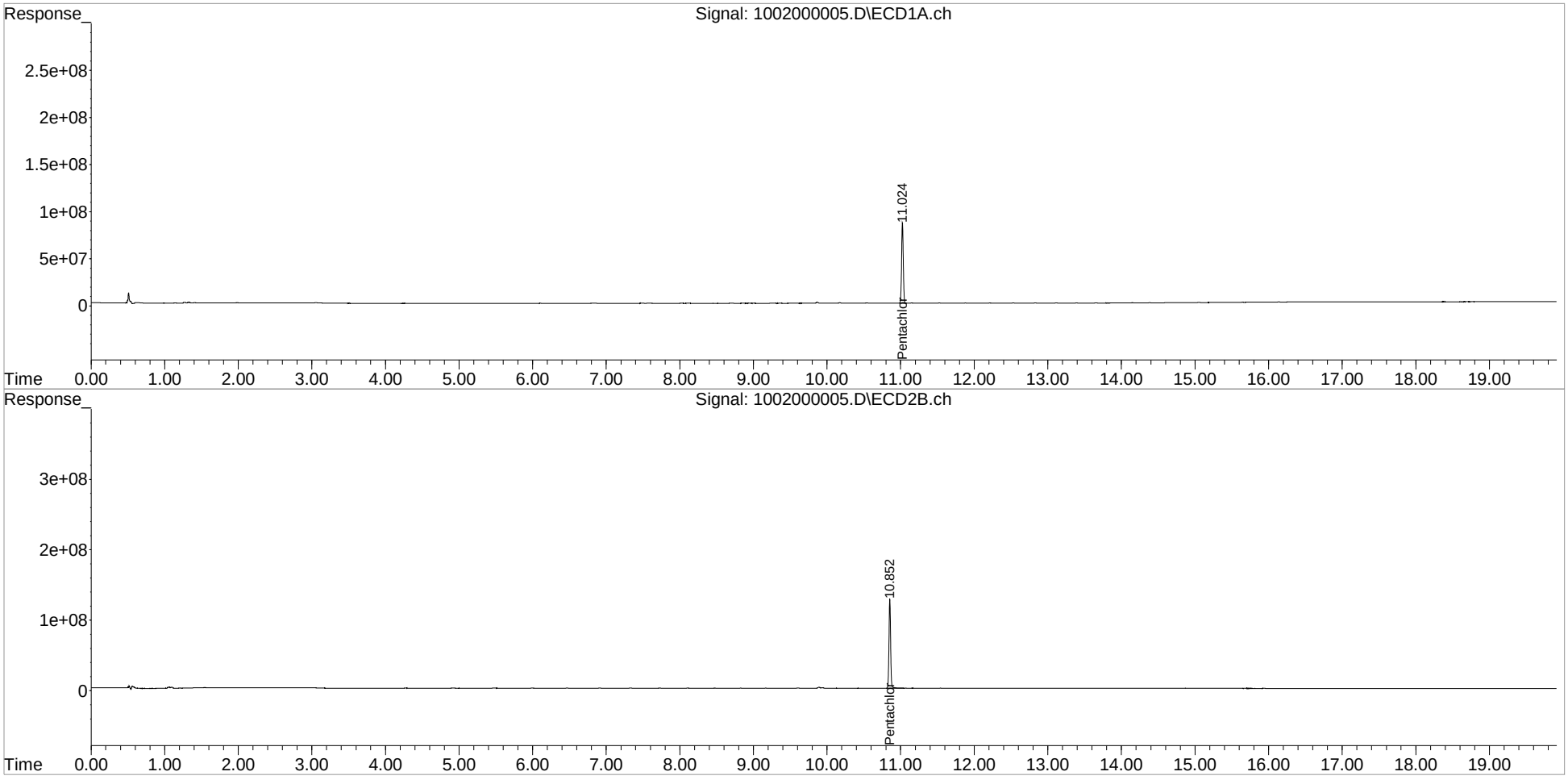
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000005.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 16:50:11 Operator: BB
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:54:42 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



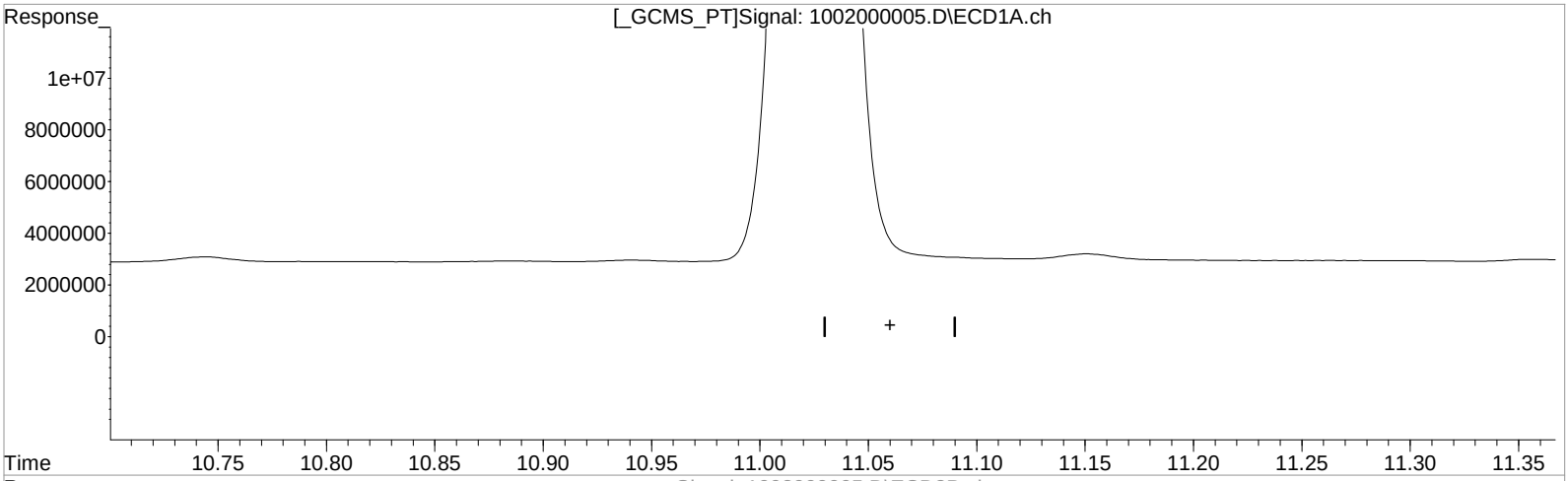
Quantitation Report (Qedit)

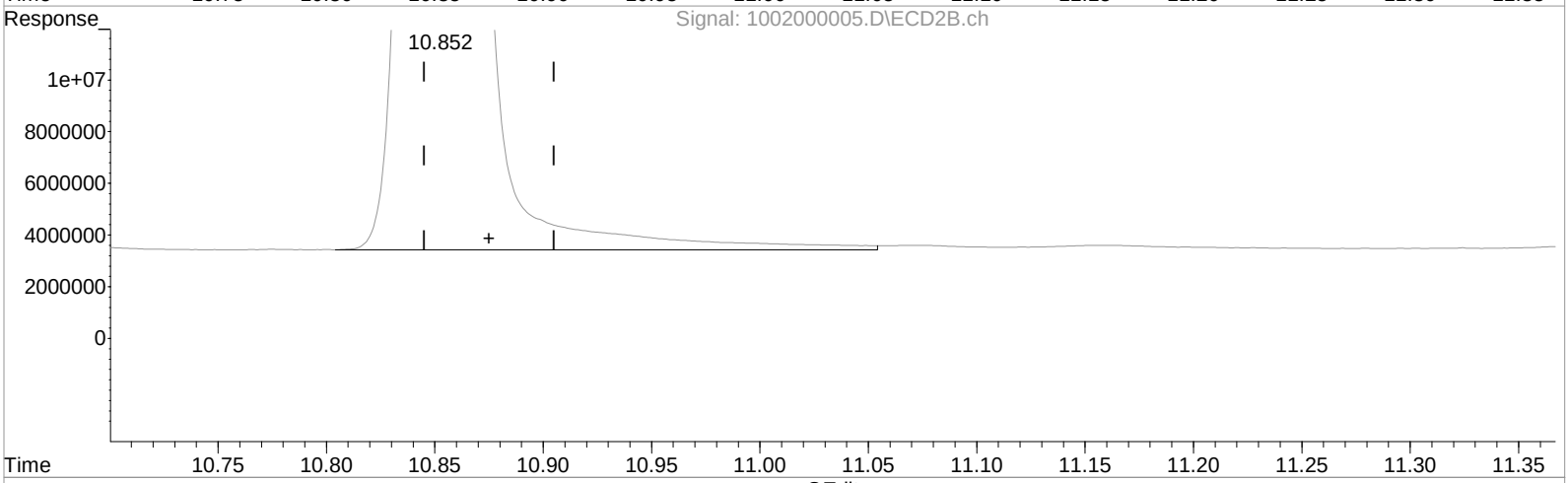
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000005.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 16:50:11 Operator: BB
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:52:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.852min 50.000 ug/L

response 198230088

(+) = Expected Retention Time

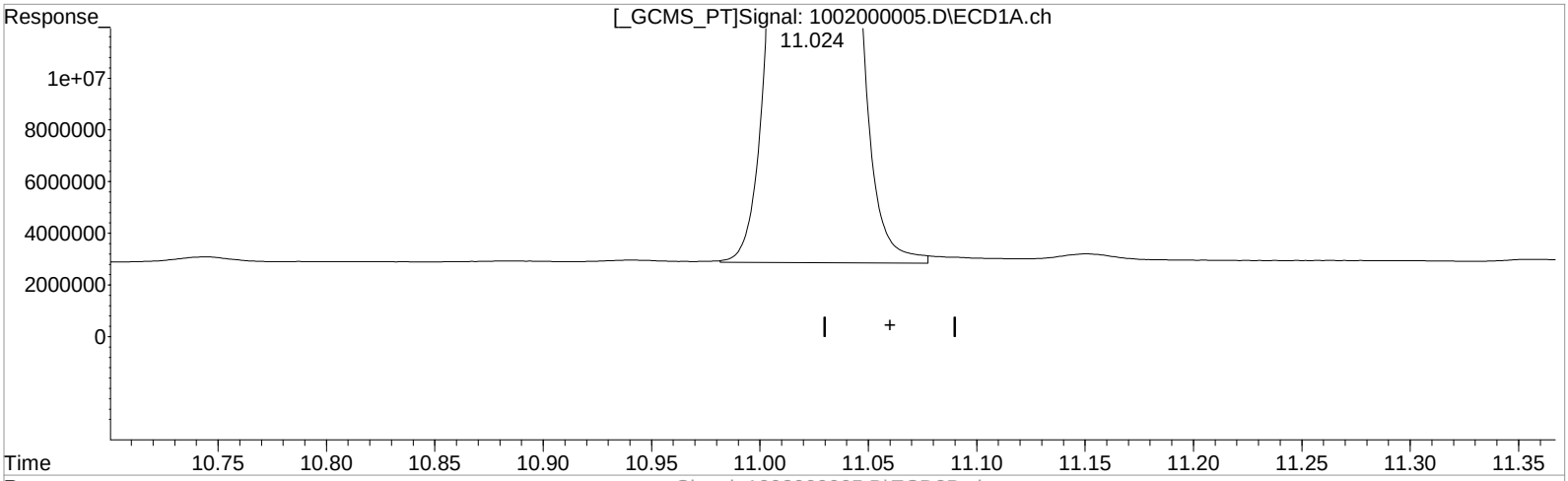
Quantitation Report (Qedit)

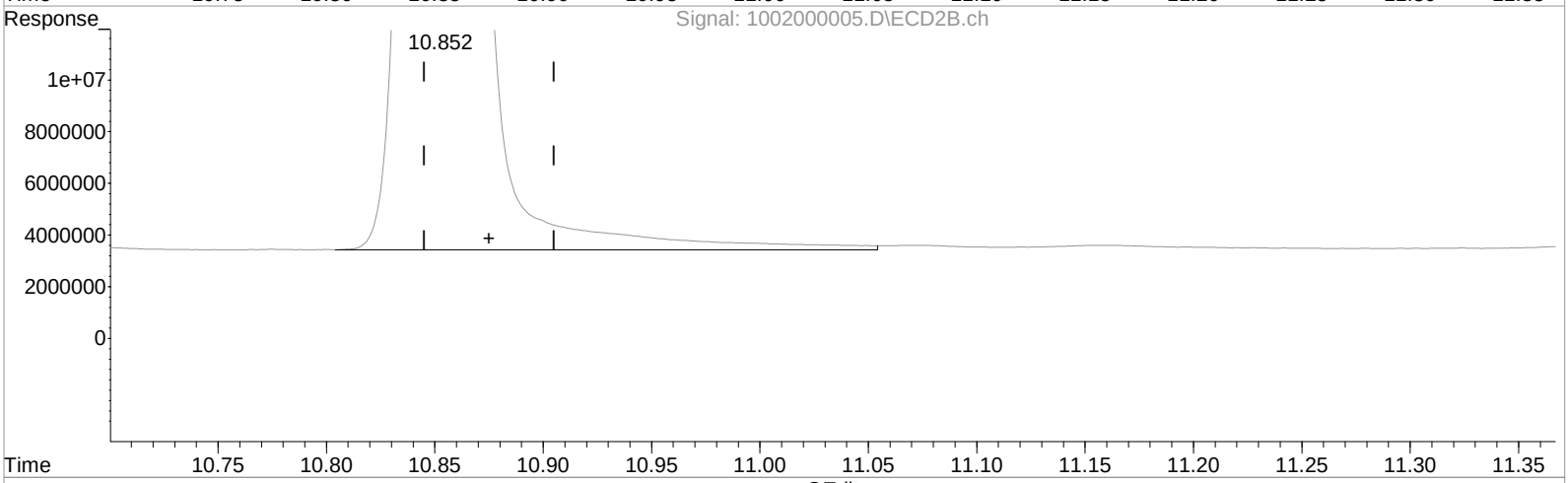
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000005.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 16:50:11 Operator: BB
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 11:52:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 11:41:34 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(1) Pentachloronitrobenzene (I)

11.024min 50.000 ug/L m

response 134994463

Manual Integration:

After

Missed Peak

10/11/23

(1) Pentachloronitrobenzene #2 (I)

10.852min 50.000 ug/L

response 198230088

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000009.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 18:59:28 Operator: BB
Sample : GCPS9-29D 50PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:14:10 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26)	I Pentachlo...	11.027	10.854	145.7E6	202.8E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
27)	L1 Toxaphene	14.510	14.393	2807984	1393223	55.490	50.431
28)	L1 Toxaphene...	14.933	14.443	1825456	3315175	49.828	57.754
29)	L1 Toxaphene...	15.377	14.562	1882525	6626766	51.913	56.626
30)	L1 Toxaphene...	15.518	15.550	1825027	3209402	60.898	57.164
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

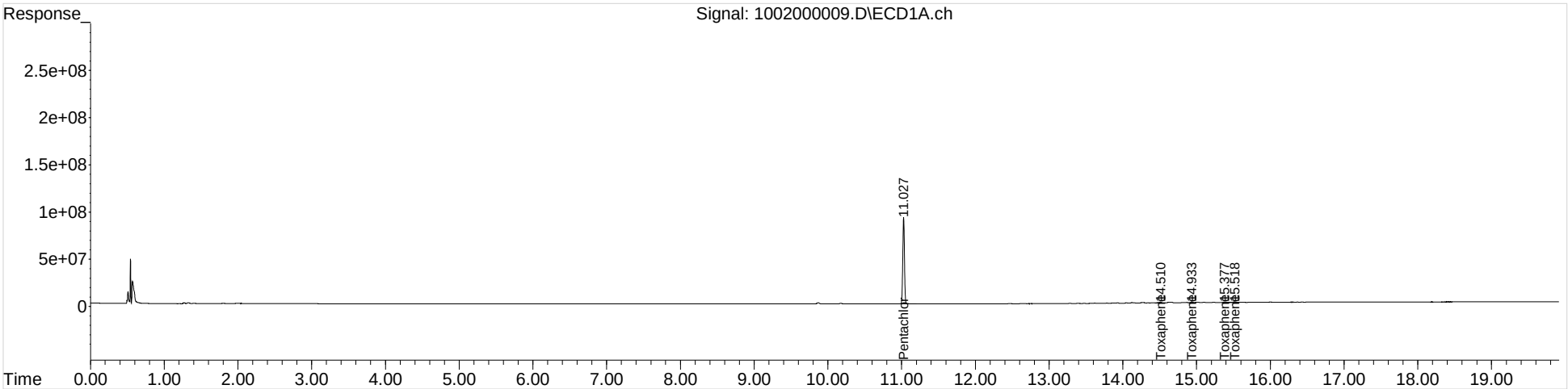
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000009.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 18:59:28 Operator: BB
Sample : GCPS9-29D 50PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:14:10 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100223\1002000010.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 19:31:39 Operator: BB
Sample : GCPS9-29D 100PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:14:30 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26)	I Pentachlo...	11.026	10.853	142.7E6	203.5E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
27)	L1 Toxaphene	14.509	14.393	4522193	2485343	91.253	91.494
28)	L1 Toxaphene...	14.933	14.442	3380192	5910811	94.214	102.600
29)	L1 Toxaphene...	15.376	14.561	3153706	12055156	88.803	102.639
30)	L1 Toxaphene...	15.518	15.552	3041295	5878559	103.626	104.327
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

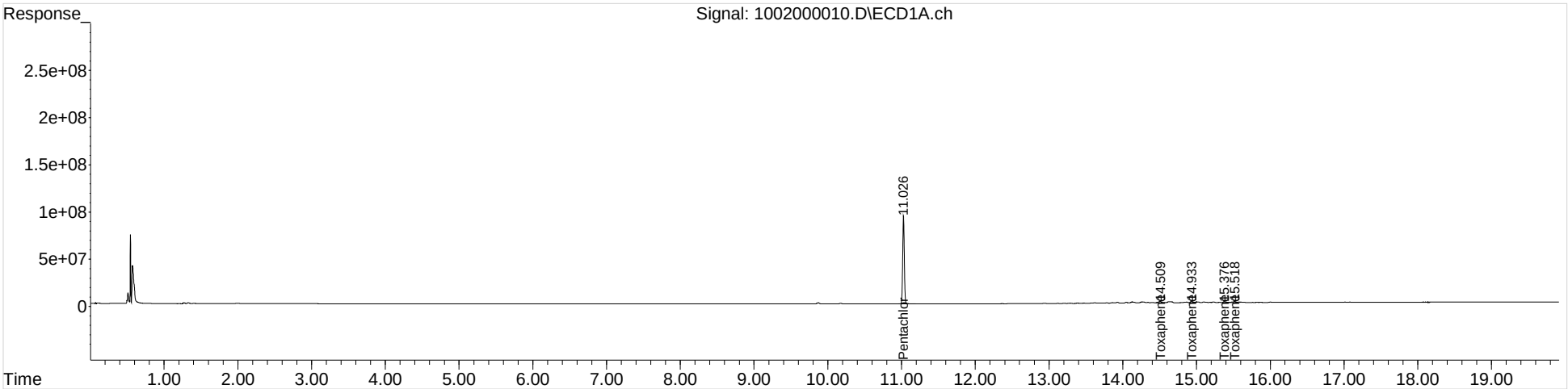
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000010.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 19:31:39 Operator: BB
Sample : GCPS9-29D 100PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:14:30 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100223\1002000011.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 20:04:01 Operator: BB
Sample : GCPS9-29D 200PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:14:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26)	I Pentachlo...	11.026	10.852	144.2E6	204.1E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
27)	L1 Toxaphene	14.507	14.391	9622066	6501035	192.143	237.869
28)	L1 Toxaphene...	14.932	14.440	6405123	10849779	176.669	187.740
29)	L1 Toxaphene...	15.374	14.561	6671550	22538655	185.905	191.295
30)	L1 Toxaphene...	15.517	15.548	5261678	10821107	177.415m	191.440
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

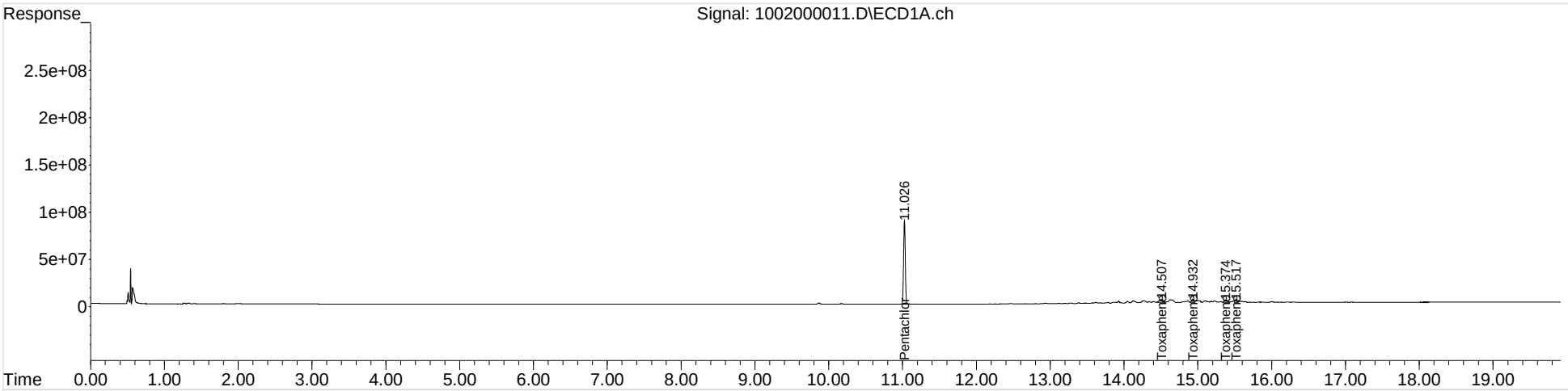
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000011.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 20:04:01 Operator: BB
Sample : GCPS9-29D 200PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:14:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



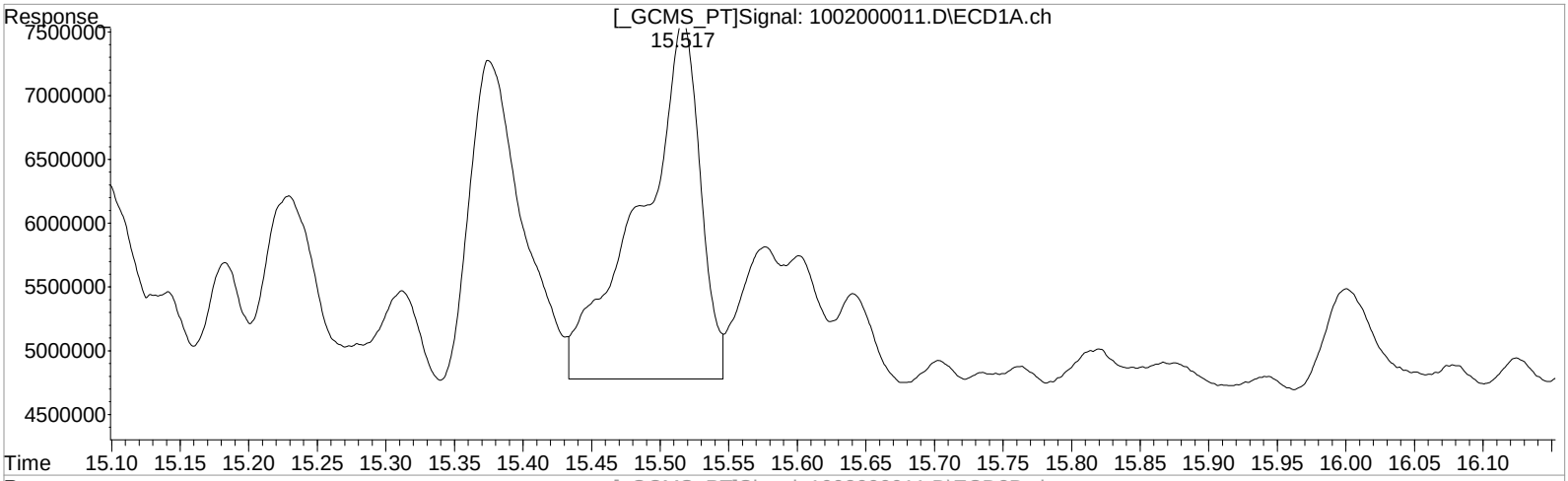
Quantitation Report (Qedit)

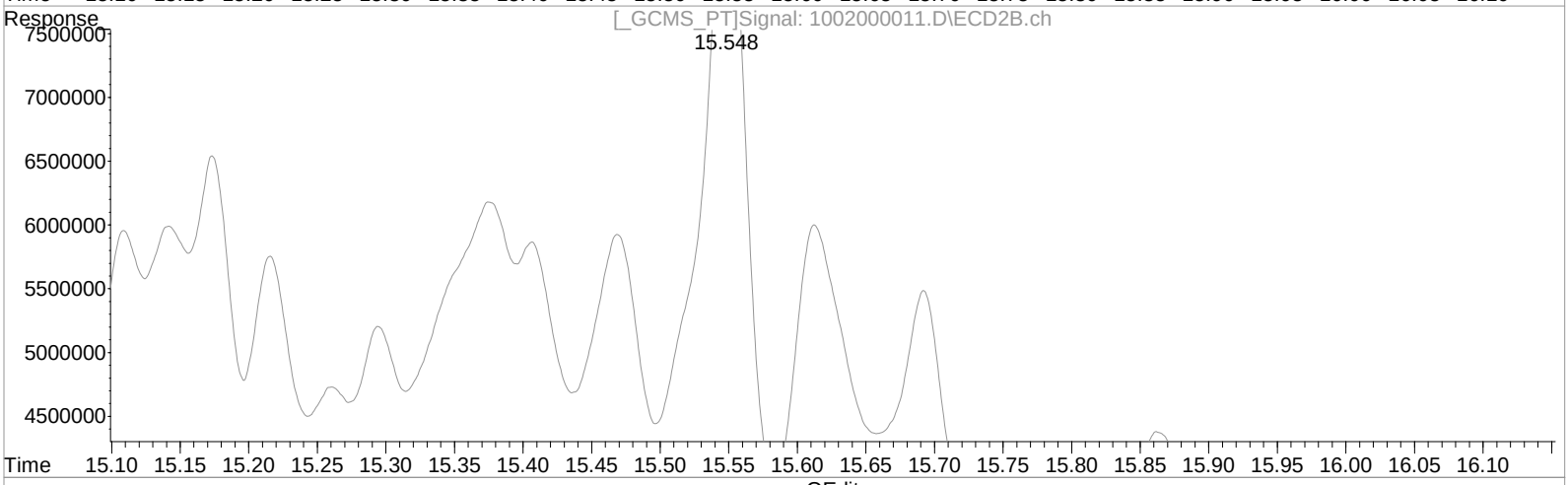
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000011.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 20:04:01 Operator: BB
Sample : GCPS9-29D 200PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 16:14:09 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/05/23

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

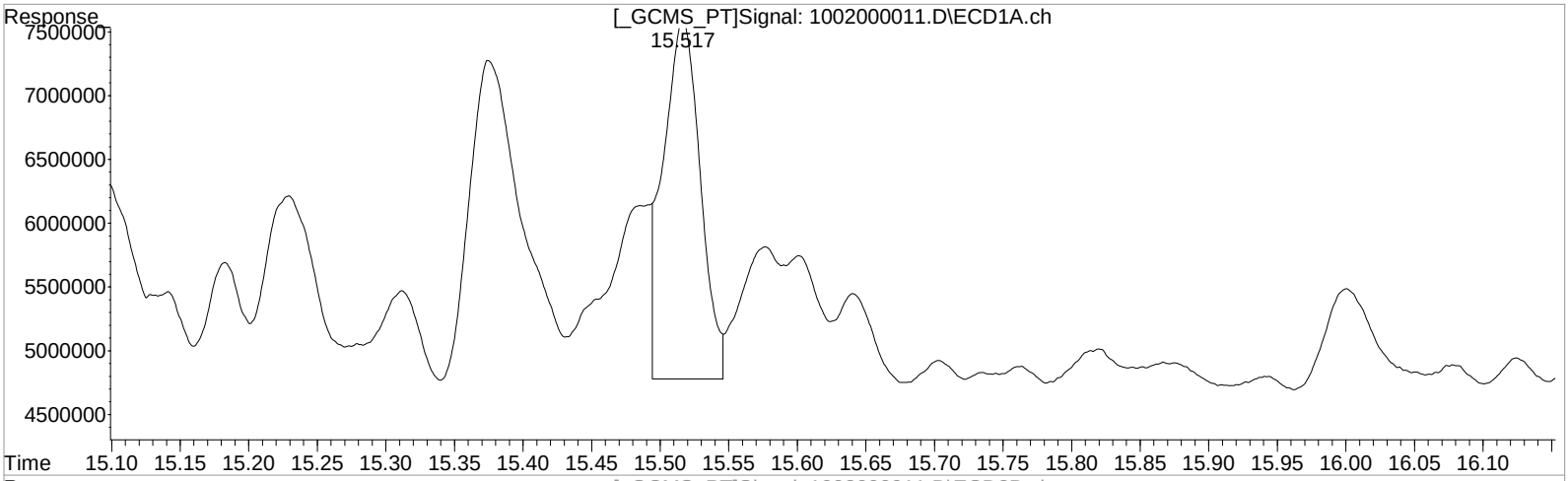
Quantitation Report (Qedit)

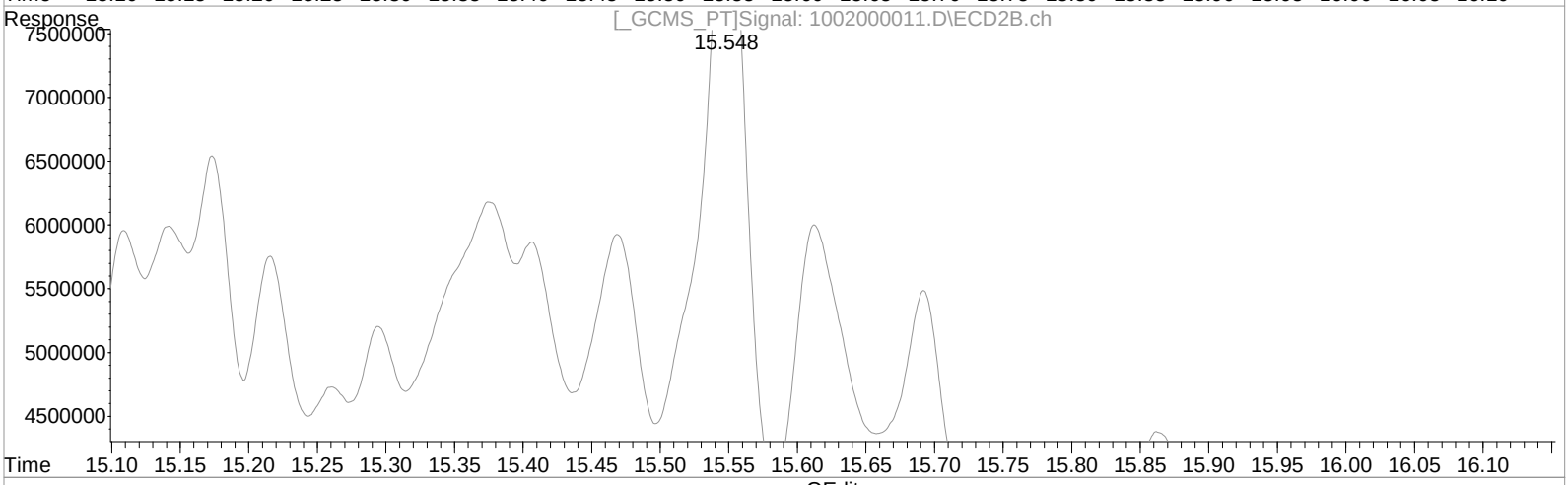
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000011.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 20:04:01 Operator: BB
Sample : GCPS9-29D 200PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 16:14:09 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/05/23

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100223\1002000012.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 20:36:15 Operator: BB
Sample : GCPS9-29D 500PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:15:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26) I	Pentachlo...	11.028	10.854	143.1E6	199.6E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
27) L1	Toxaphene	14.506	14.393	24232959	11148563	487.435	408.159
28) L1	Toxaphene...	14.934	14.441	20060923	26941248	557.362	476.730
29) L1	Toxaphene...	15.378	14.561	17468293	55727097	490.310	483.684
30) L1	Toxaphene...	15.517	15.549	12774238	26464386	433.866m	478.786
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

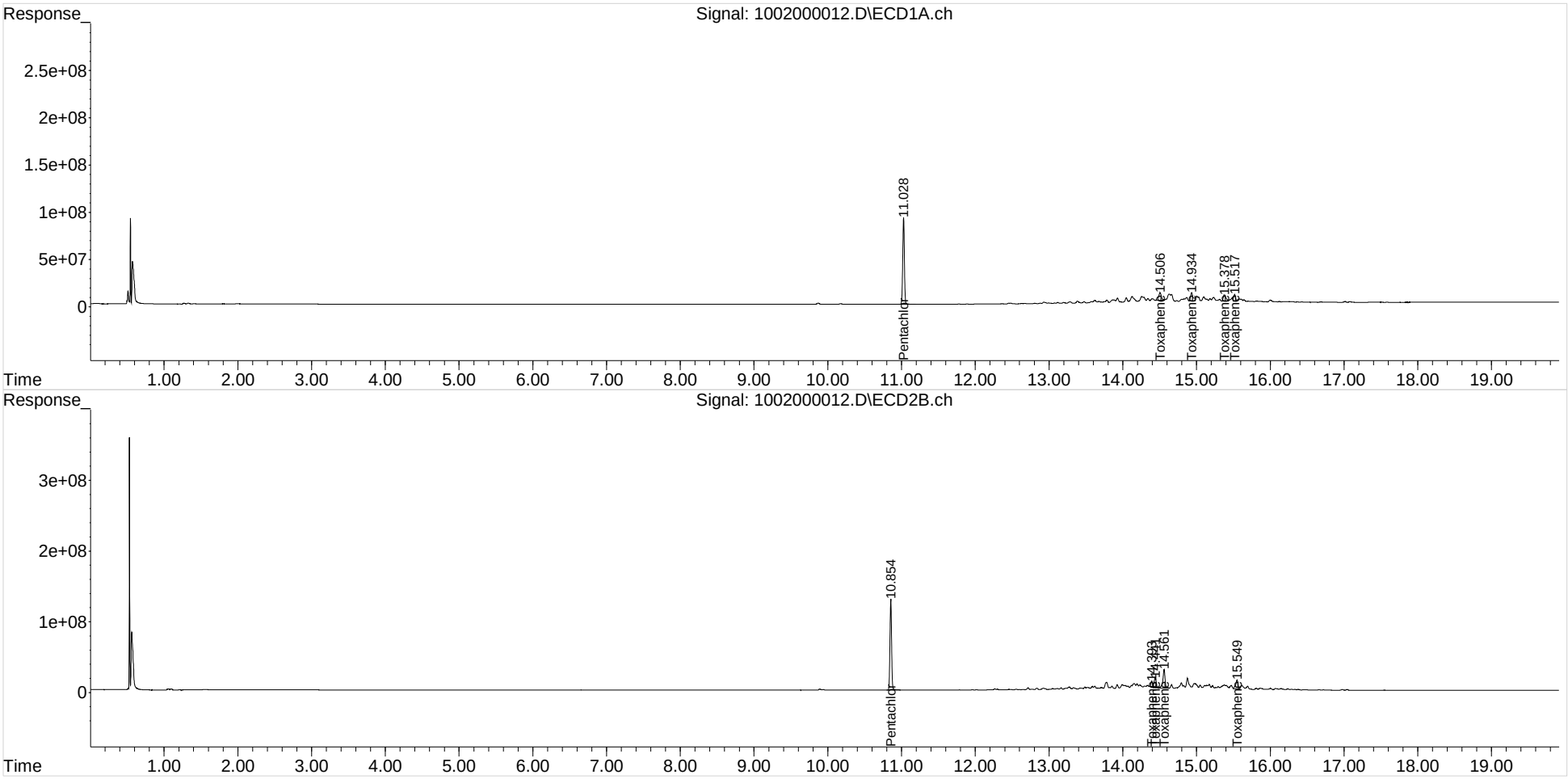
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000012.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 20:36:15 Operator: BB
Sample : GCPS9-29D 500PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:15:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



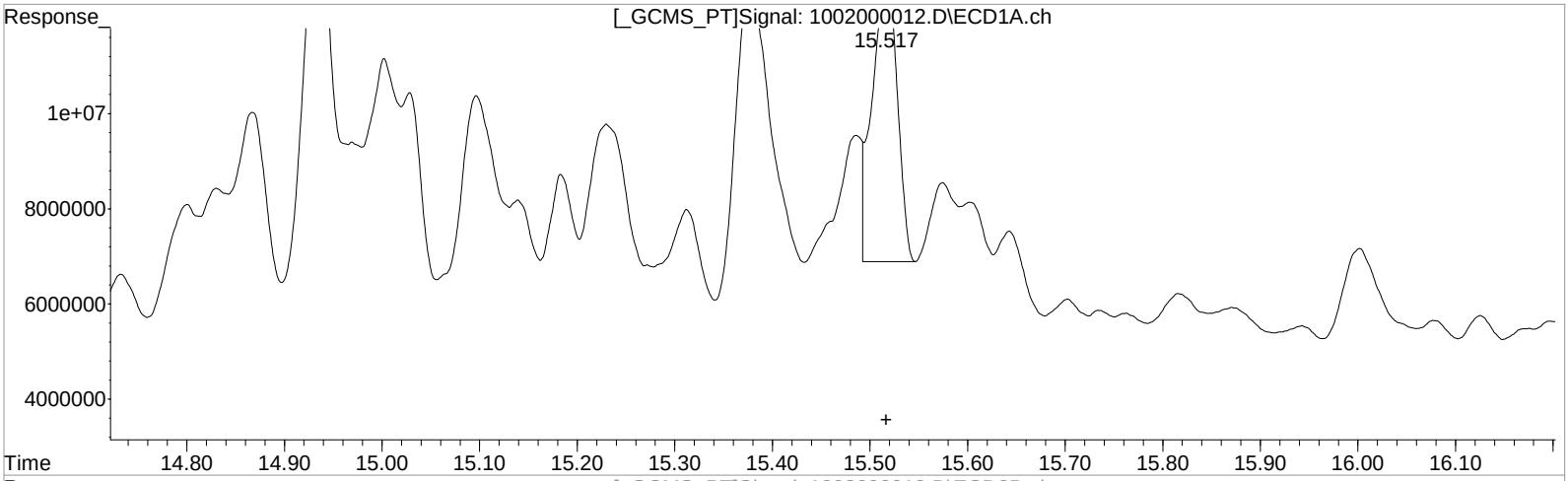
Quantitation Report (Qedit)

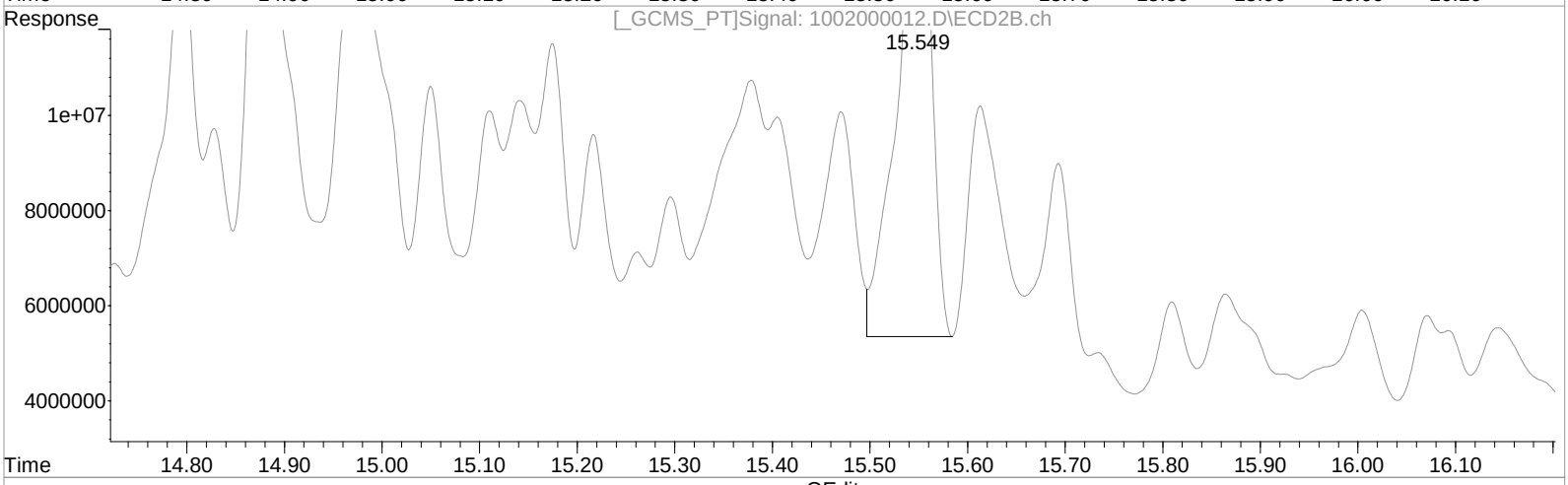
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000012.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 20:36:15 Operator: BB
Sample : GCPS9-29D 500PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 16:06:45 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/05/23

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

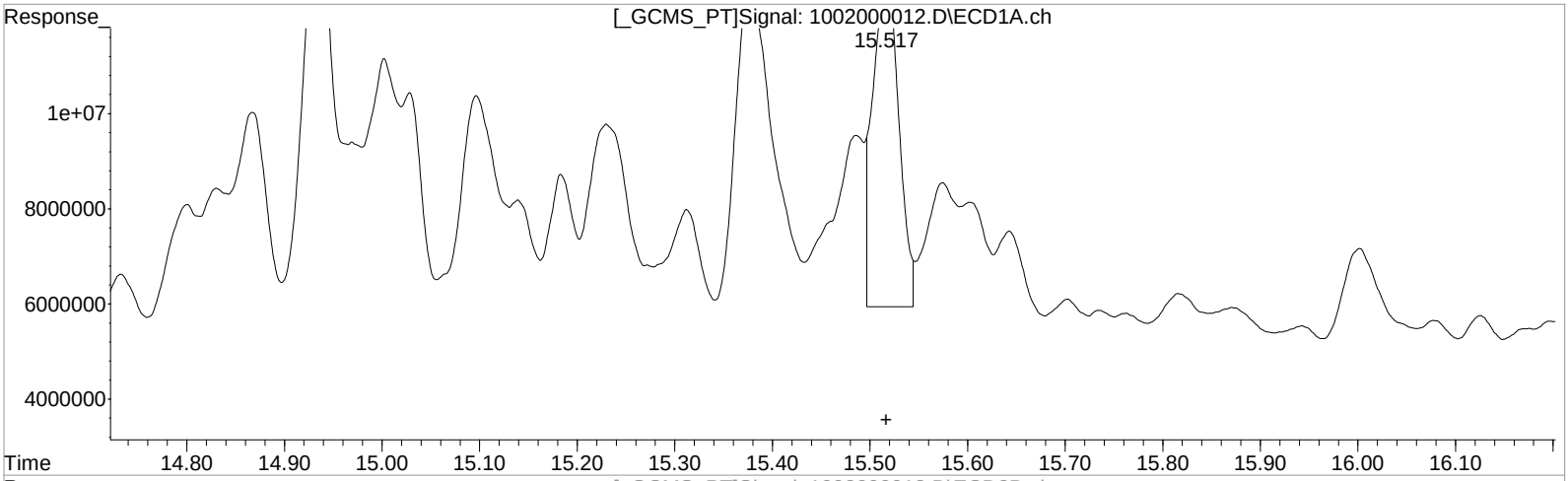
Quantitation Report (Qedit)

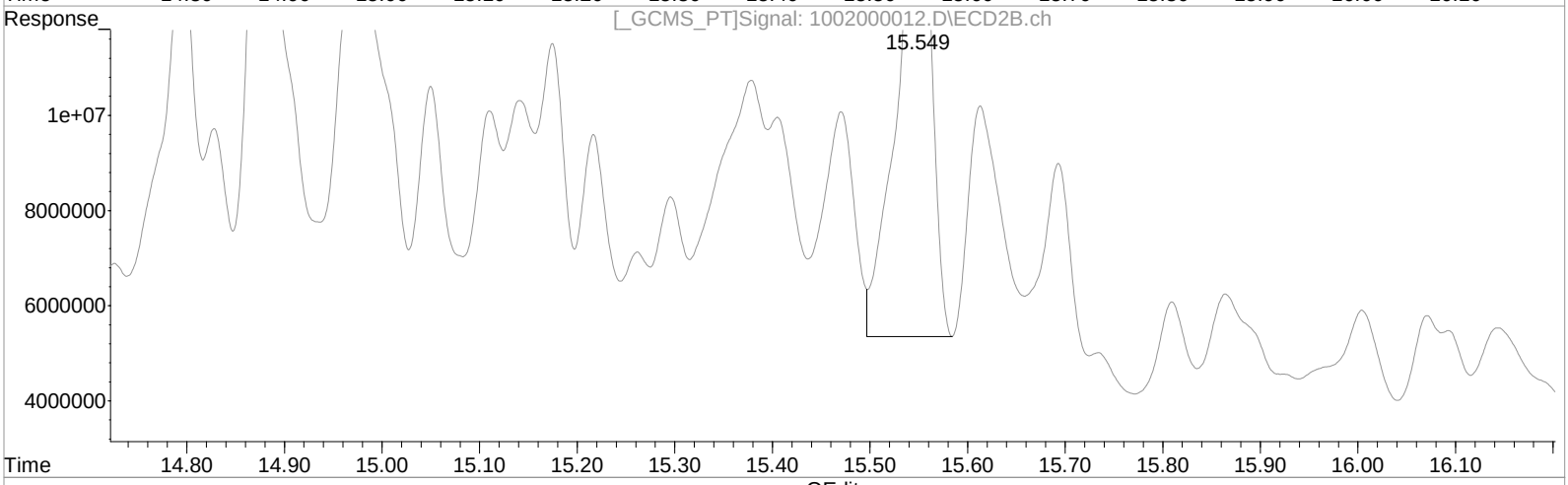
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000012.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 20:36:15 Operator: BB
Sample : GCPS9-29D 500PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 16:06:45 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/05/23

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100223\1002000013.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:08:32 Operator: BB
Sample : GCPS9-29D 1000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:15:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26)	I Pentachlo...	11.027	10.854	145.8E6	200.7E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
27)	L1 Toxaphene	14.509	14.393	50135805	32493173	990.352	1075.140
28)	L1 Toxaphene...	14.934	14.442	37316661	55303971	1018.171	973.303
29)	L1 Toxaphene...	15.379	14.562	37109691	111.8E6	1022.913	964.759
30)	L1 Toxaphene...	15.518	15.550	30975150	52738965	1033.154m	948.961
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

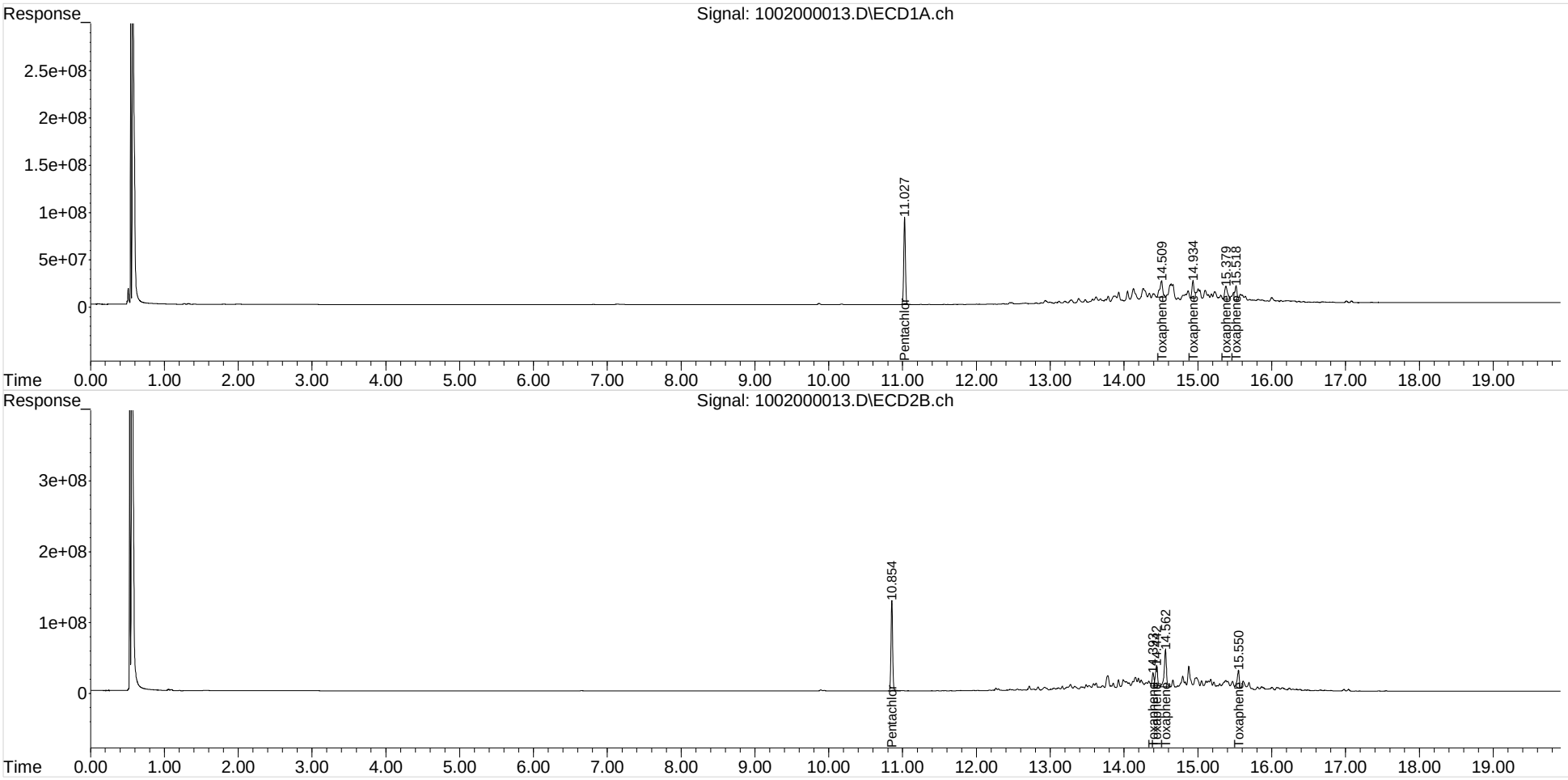
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000013.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:08:32 Operator: BB
Sample : GCPS9-29D 1000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:15:26 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



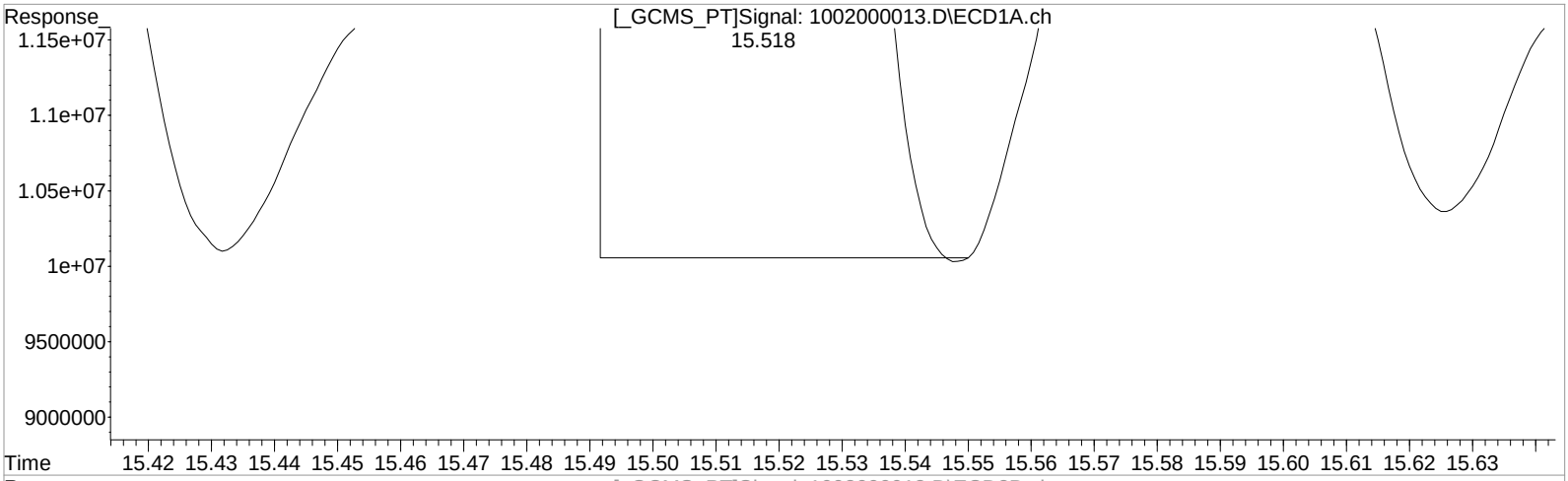
Quantitation Report (Qedit)

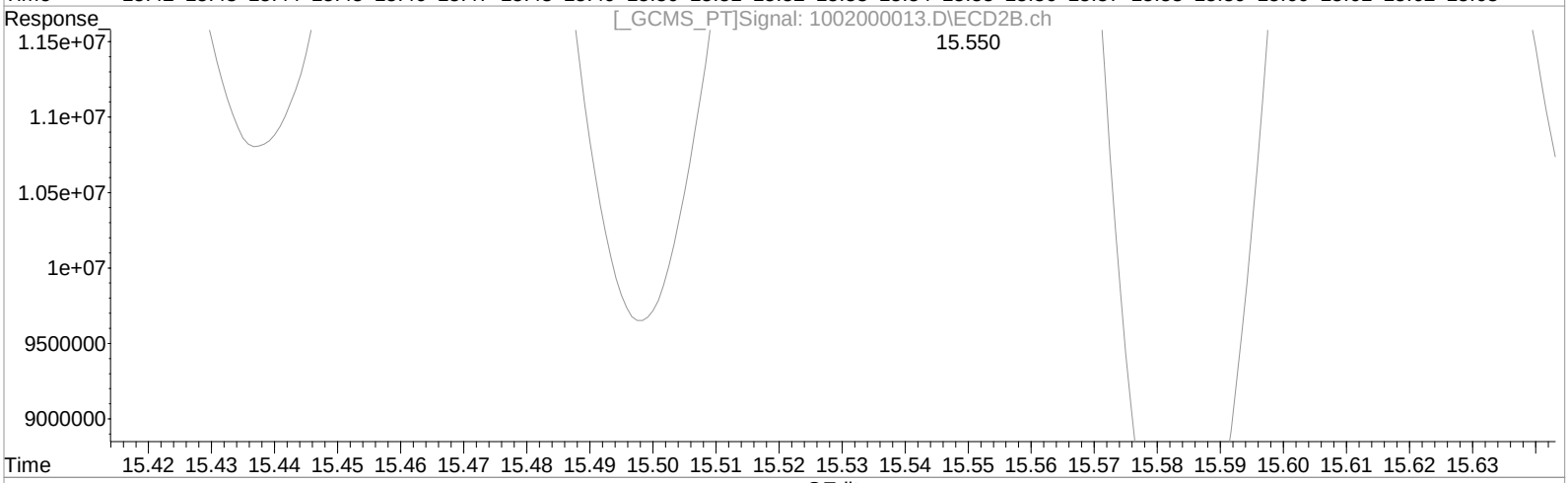
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000013.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:08:32 Operator: BB
Sample : GCPS9-29D 1000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 15:58:39 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

11.027min 50.000 ug/L

response 145764359

Manual Integration:

Before

10/05/23

(30) Toxaphene {4} #2 (L1)

10.854min 50.000 ug/L

response 200708932

(+) = Expected Retention Time

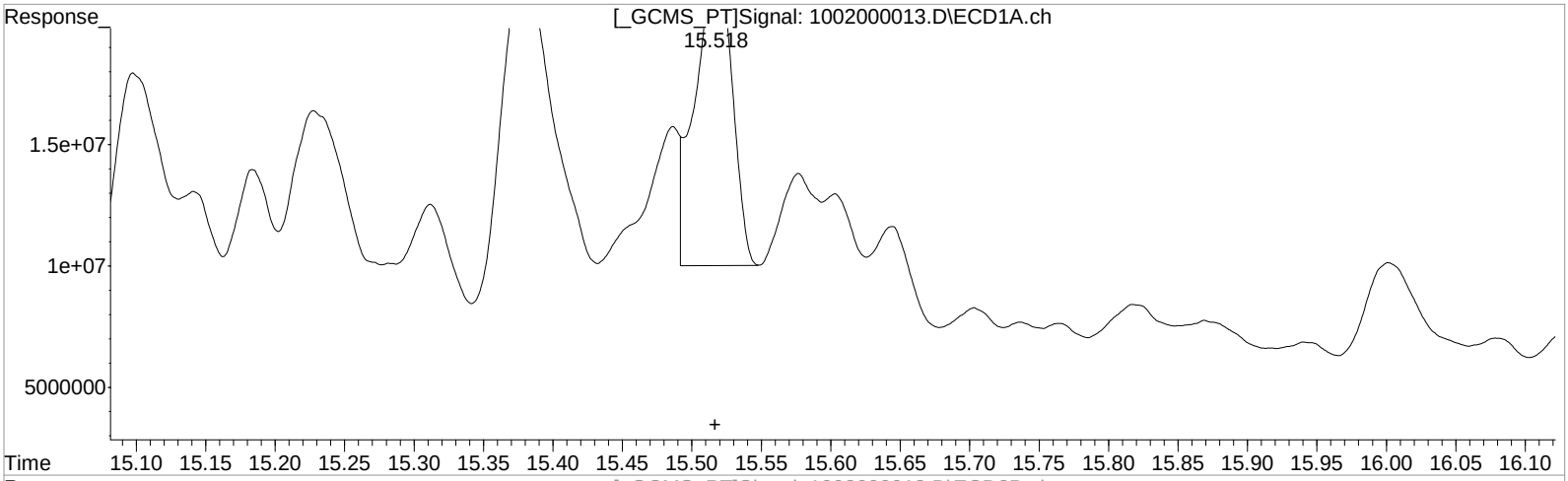
Quantitation Report (Qedit)

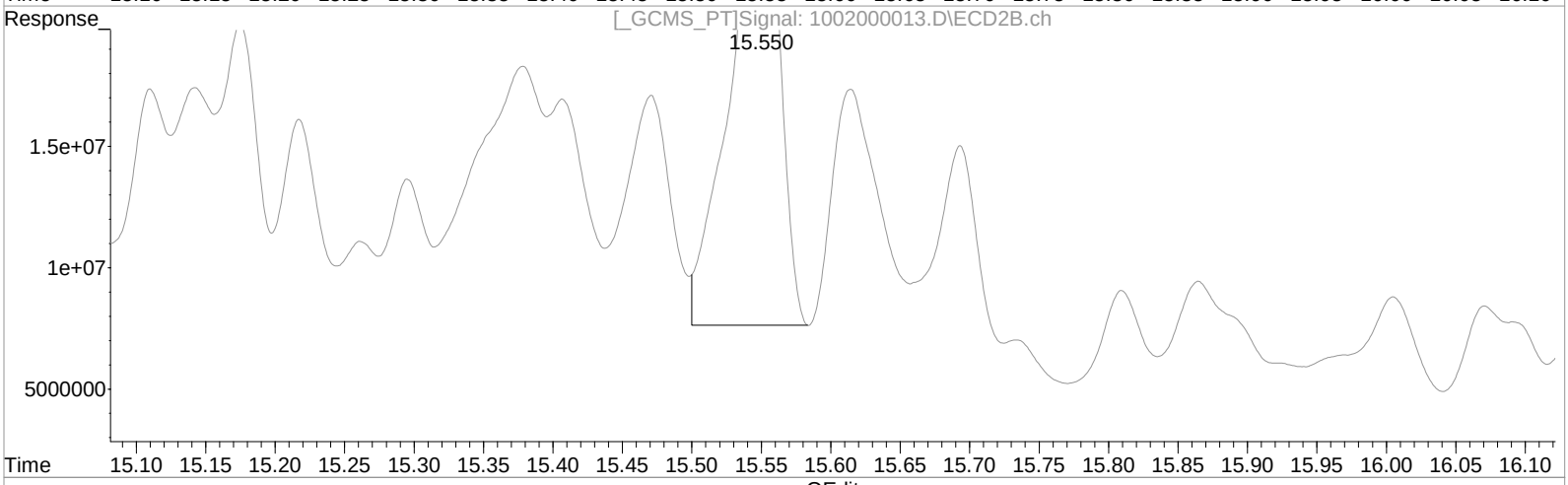
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000013.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:08:32 Operator: BB
Sample : GCPS9-29D 1000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 16:12:38 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/05/23

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

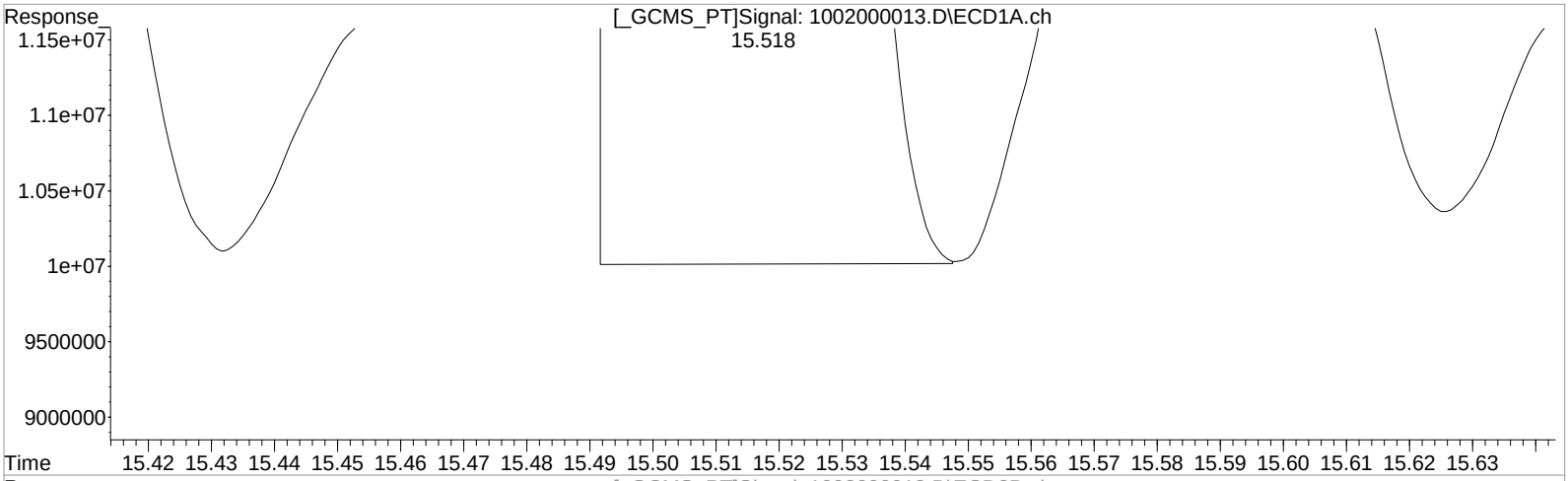
Quantitation Report (Qedit)

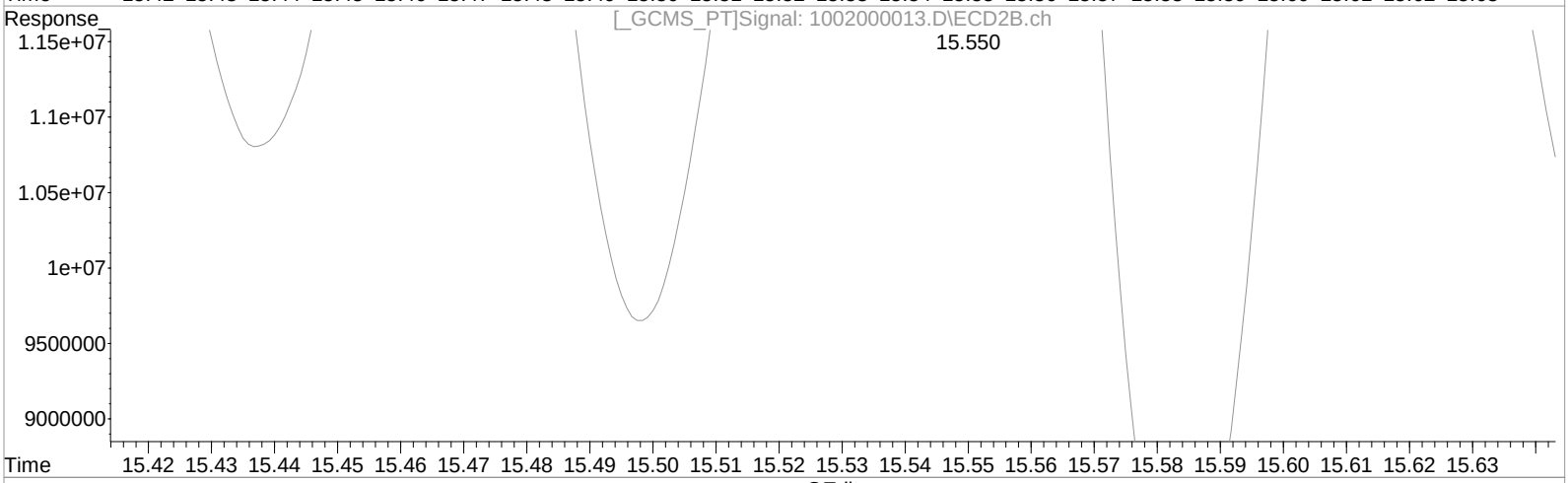
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000013.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:08:32 Operator: BB
Sample : GCPS9-29D 1000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 15:58:39 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

11.027min 50.000 ug/L

response 145764359

Manual Integration:

After

Baseline/Shoulder

10/05/23

(30) Toxaphene {4} #2 (L1)

10.854min 50.000 ug/L

response 200708932

(+) = Expected Retention Time

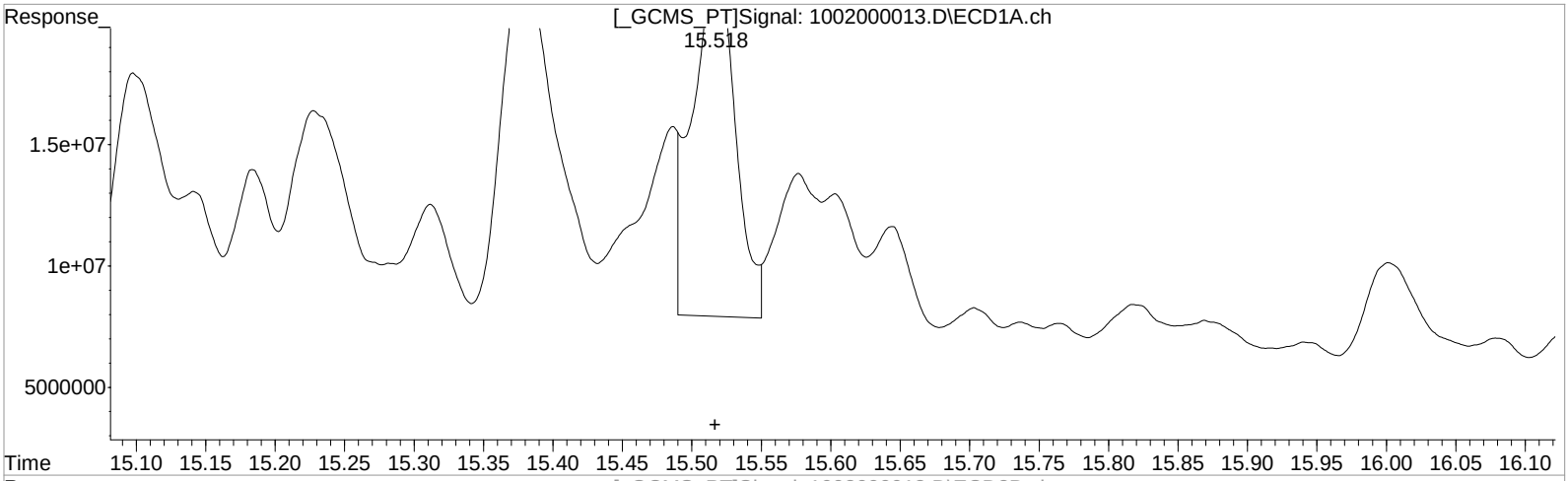
Quantitation Report (Qedit)

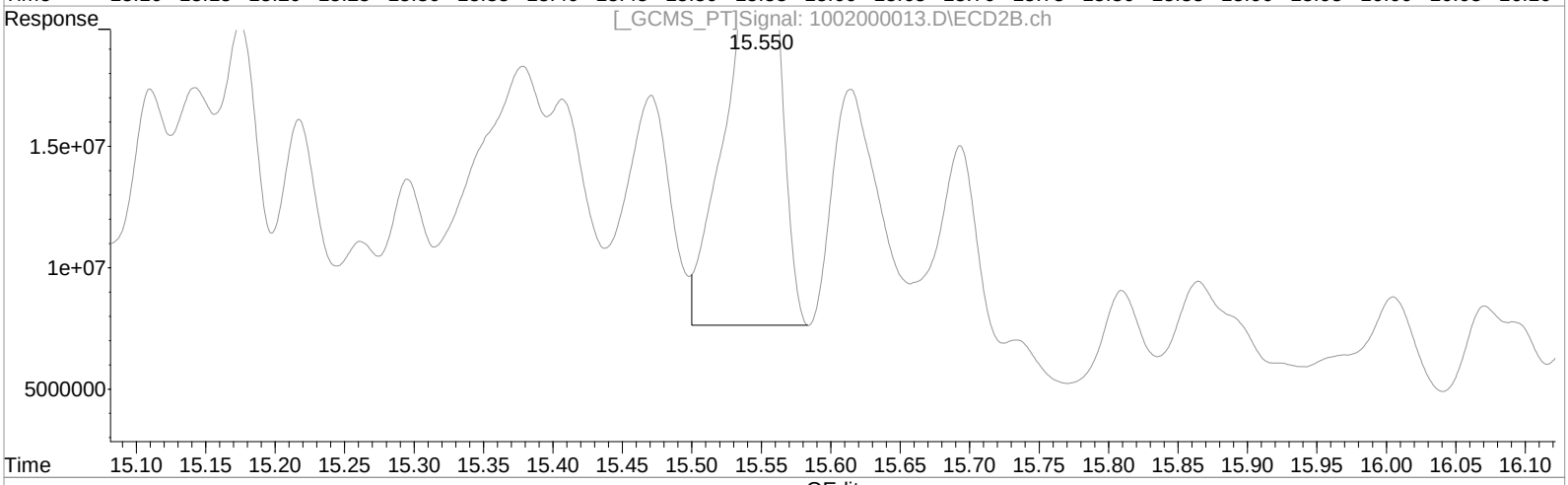
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000013.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:08:32 Operator: BB
Sample : GCPS9-29D 1000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 16:12:38 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/05/23

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100223\1002000014.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:40:45 Operator: BB
Sample : GCPS9-29D 2000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:15:47 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26)	I Pentachlo...	11.027	10.853	144.5E6	200.6E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
27)	L1 Toxaphene	14.508	14.393	105.6E6	67631103	2103.447	1983.328
28)	L1 Toxaphene...	14.934	14.442	75953269	108.3E6	2090.128	1906.928
29)	L1 Toxaphene...	15.379	14.562	82058268	220.6E6	2281.299	1904.971
30)	L1 Toxaphene...	15.517	15.550	56944986	105.5E6	1915.648m	1899.443
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

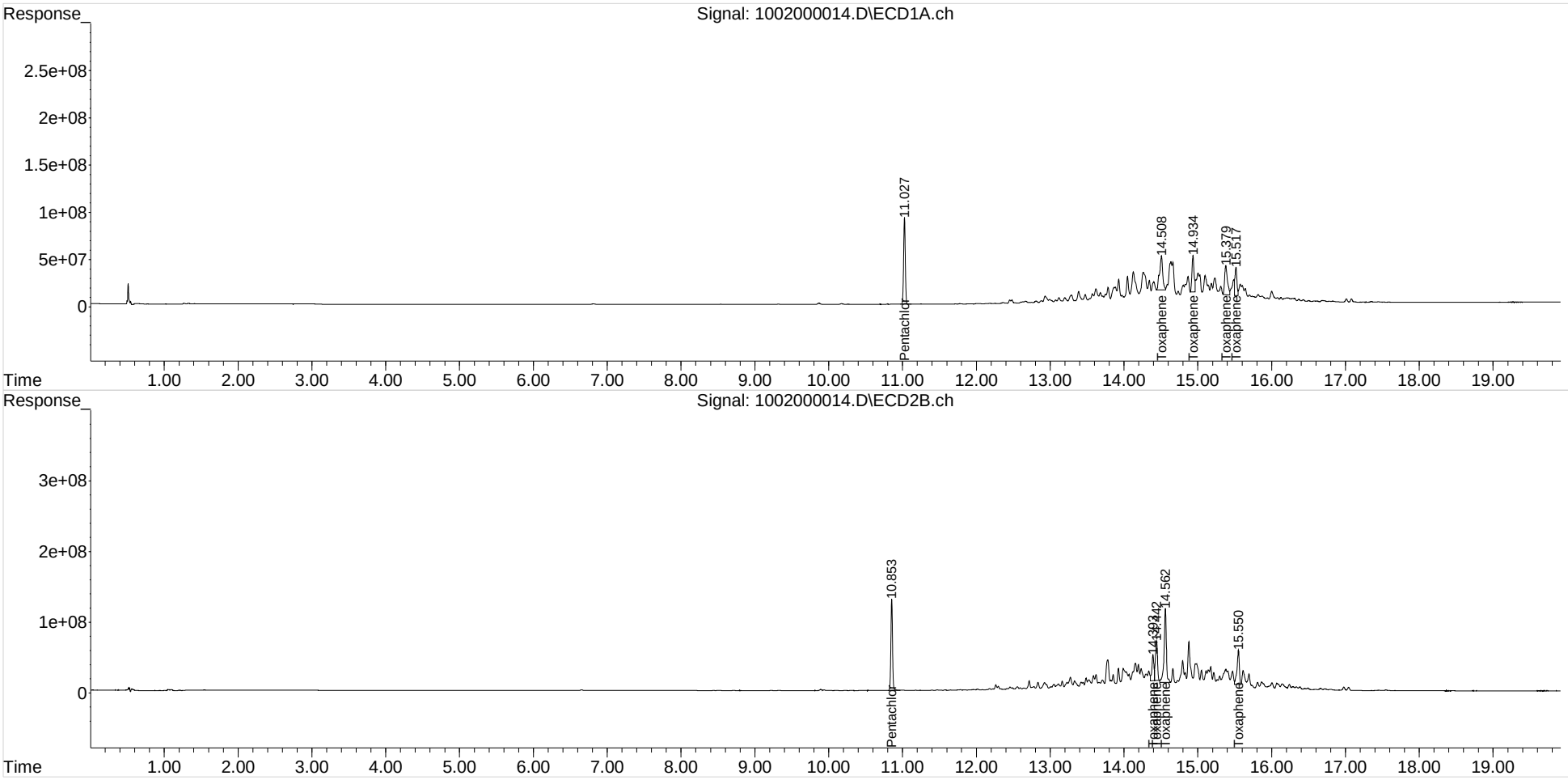
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000014.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:40:45 Operator: BB
Sample : GCPS9-29D 2000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:15:47 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



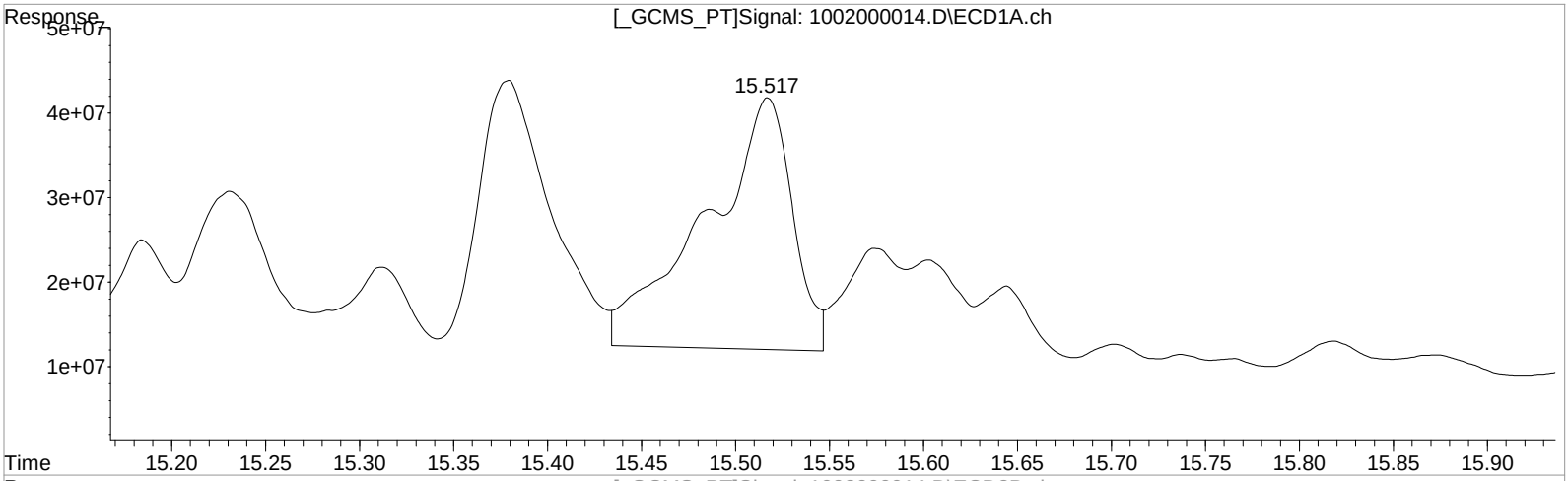
Quantitation Report (Qedit)

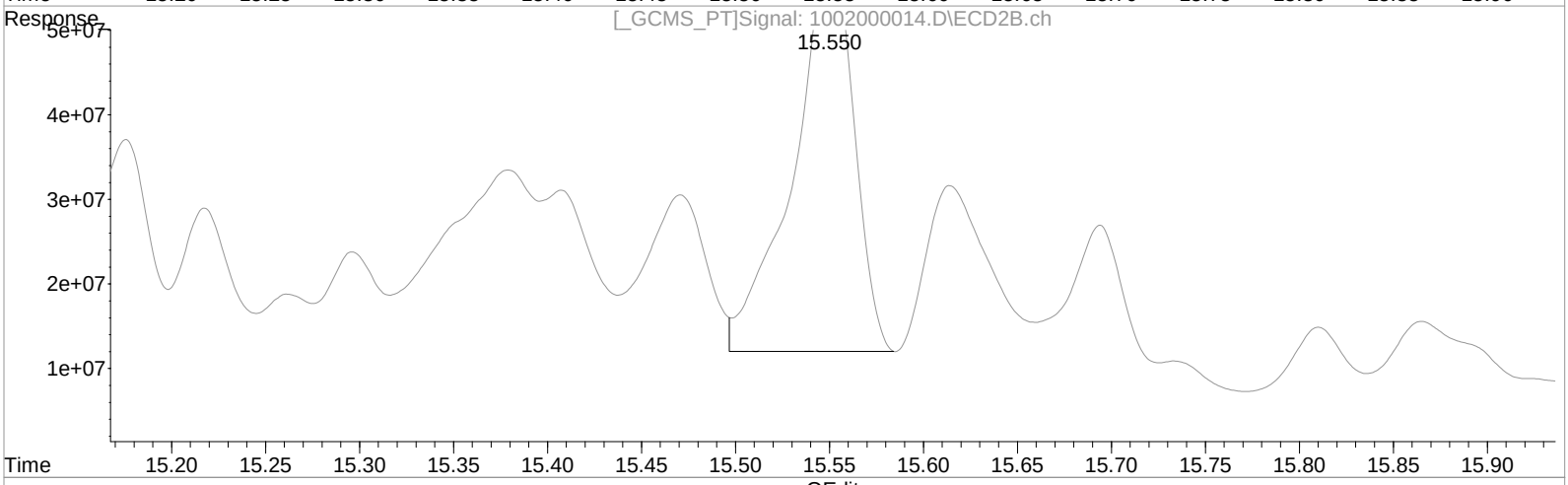
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000014.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:40:45 Operator: BB
Sample : GCPS9-29D 2000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 16:01:40 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/05/23

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

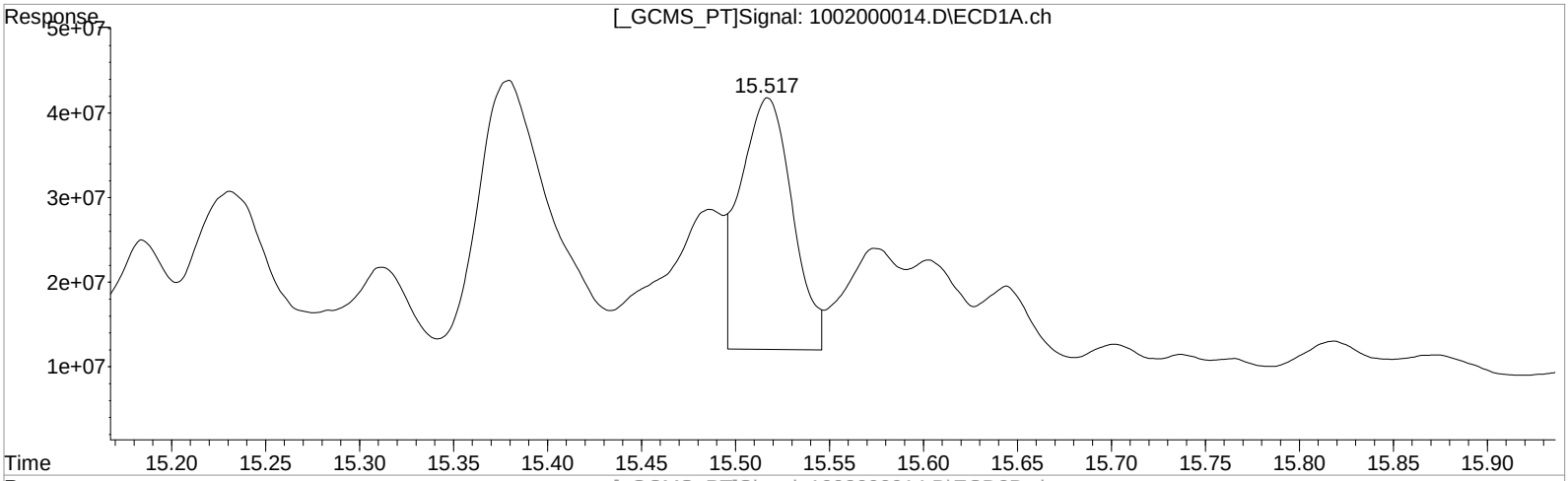
Quantitation Report (Qedit)

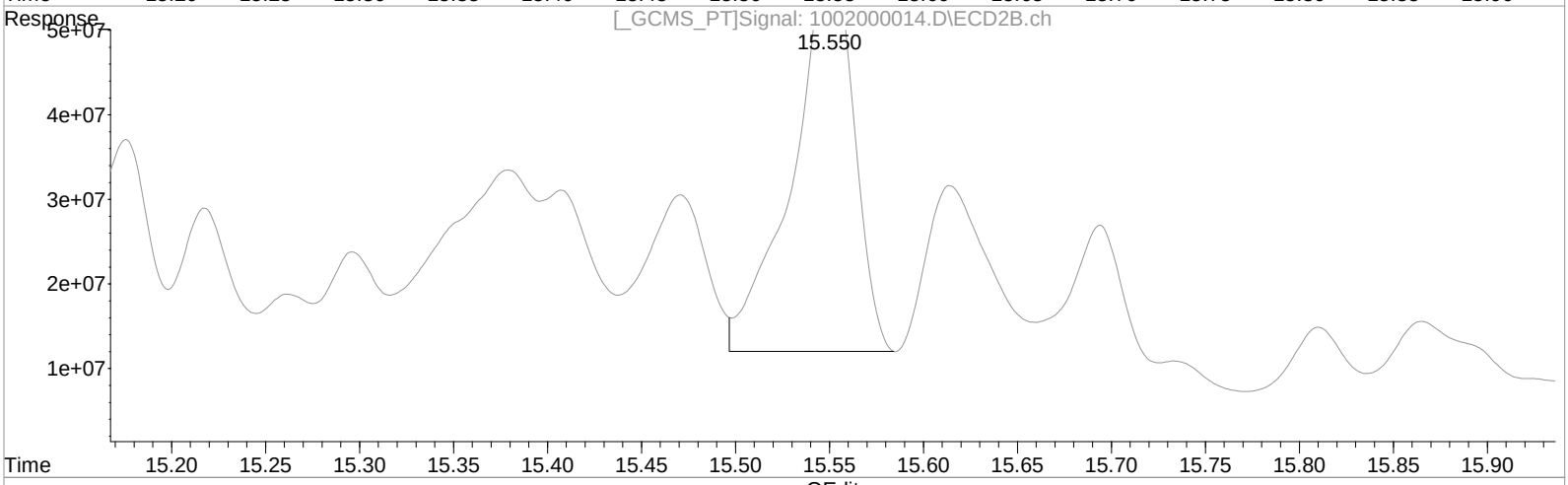
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000014.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 21:40:45 Operator: BB
Sample : GCPS9-29D 2000PPB TOX Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 05 16:01:40 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 05 15:56:03 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/05/23

(30) Toxaphene {4} #2 (L1)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100223\1002000015.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 22:13:09 Operator: BB
Sample : DWSTD08-84I 500PPB TOX ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:16:05 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26) I	Pentachlo...	11.025	10.852	145.1E6	200.1E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
27) L1	Toxaphene	14.507	14.390	22341300	9321076	443.248	343.429
28) L1	Toxaphene...	14.932	14.439	14513896	23817005	397.739	420.398
29) L1	Toxaphene...	15.374	14.559	15620006	43092910	432.444	373.095
30) L1	Toxaphene...	15.514	15.547	12194742	23811393	408.527	429.717
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

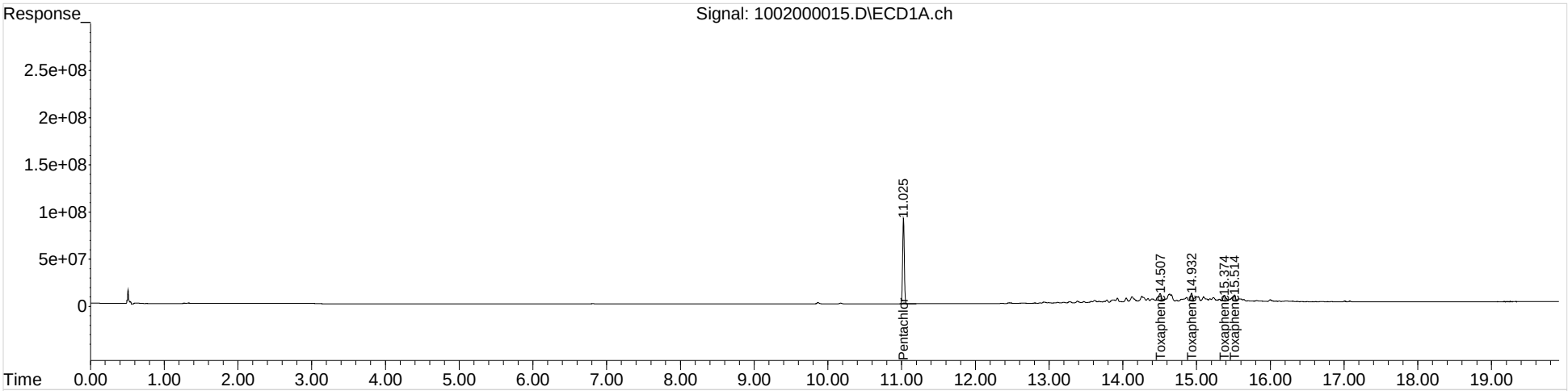
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000015.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 22:13:09 Operator: BB
Sample : DWSTD08-84I 500PPB TOX ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 08:16:05 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000016.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 22:45:22 Operator: BB
Sample : GCPS9-33I CHLOR 50PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:29:04 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26) I	Pentachlo...	11.027	10.853	147.7E6	203.2E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
31) L2	Chlordane	12.388	12.343	4491799	6666872	51.642	53.555
32) L2	Chlordane...	13.233	13.180	14407733	20545830	45.463	50.582
33) L2	Chlordane...	14.432	13.306	3273346	17198838	49.902	51.036
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

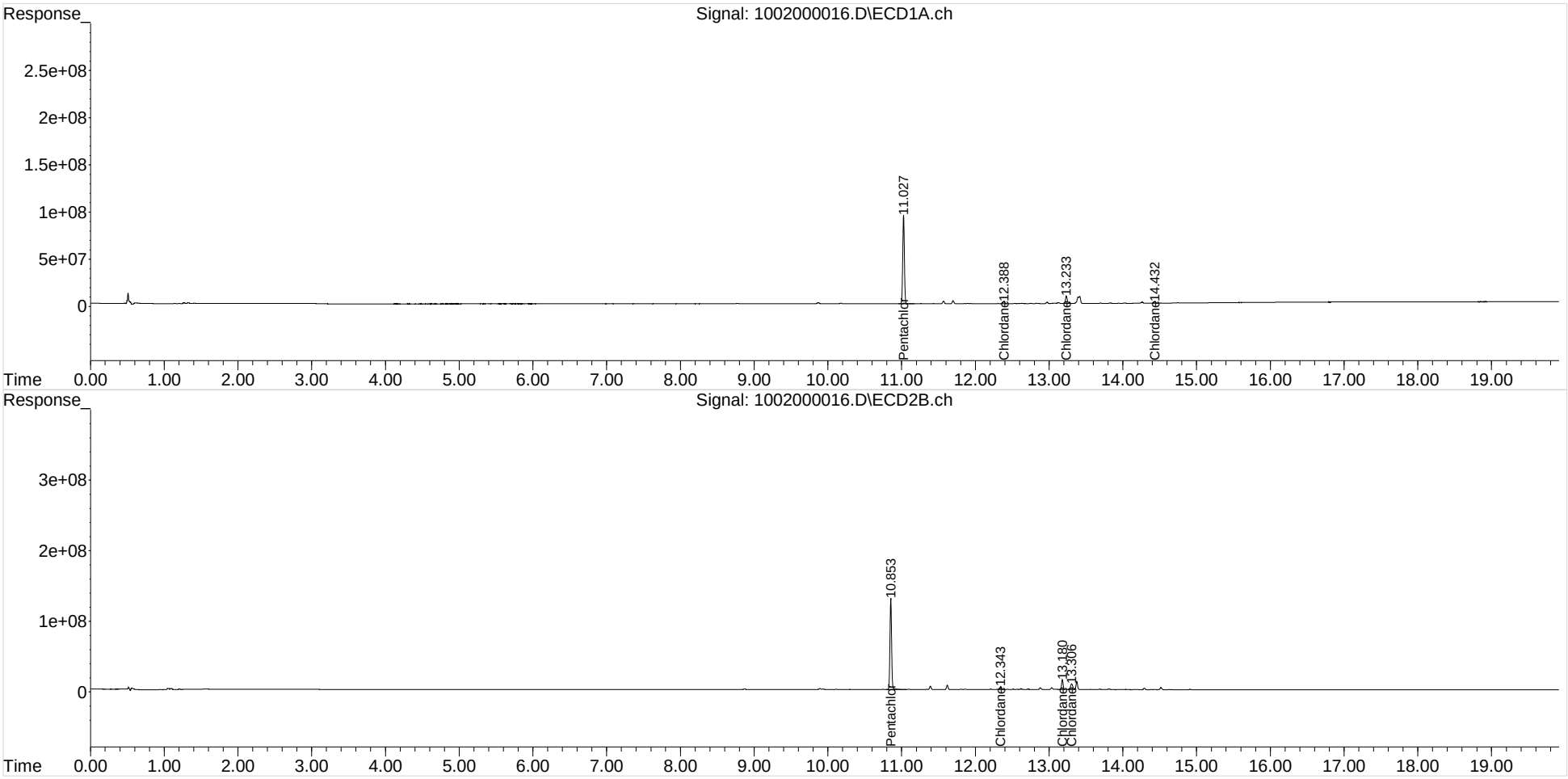
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000016.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 22:45:22 Operator: BB
Sample : GCPS9-33I CHLOR 50PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:29:04 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000017.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 23:17:44 Operator: BB
Sample : GCPS9-33I CHLOR 100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:29:28 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26) I	Pentachlo...	11.026	10.852	153.3E6	202.3E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
31) L2	Chlordane	12.387	12.341	8912344	13112975	98.717	105.831
32) L2	Chlordane...	13.232	13.178	30079664	40352357	91.442	99.811
33) L2	Chlordane...	14.431	13.304	6525991	33215296	95.849	99.027
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

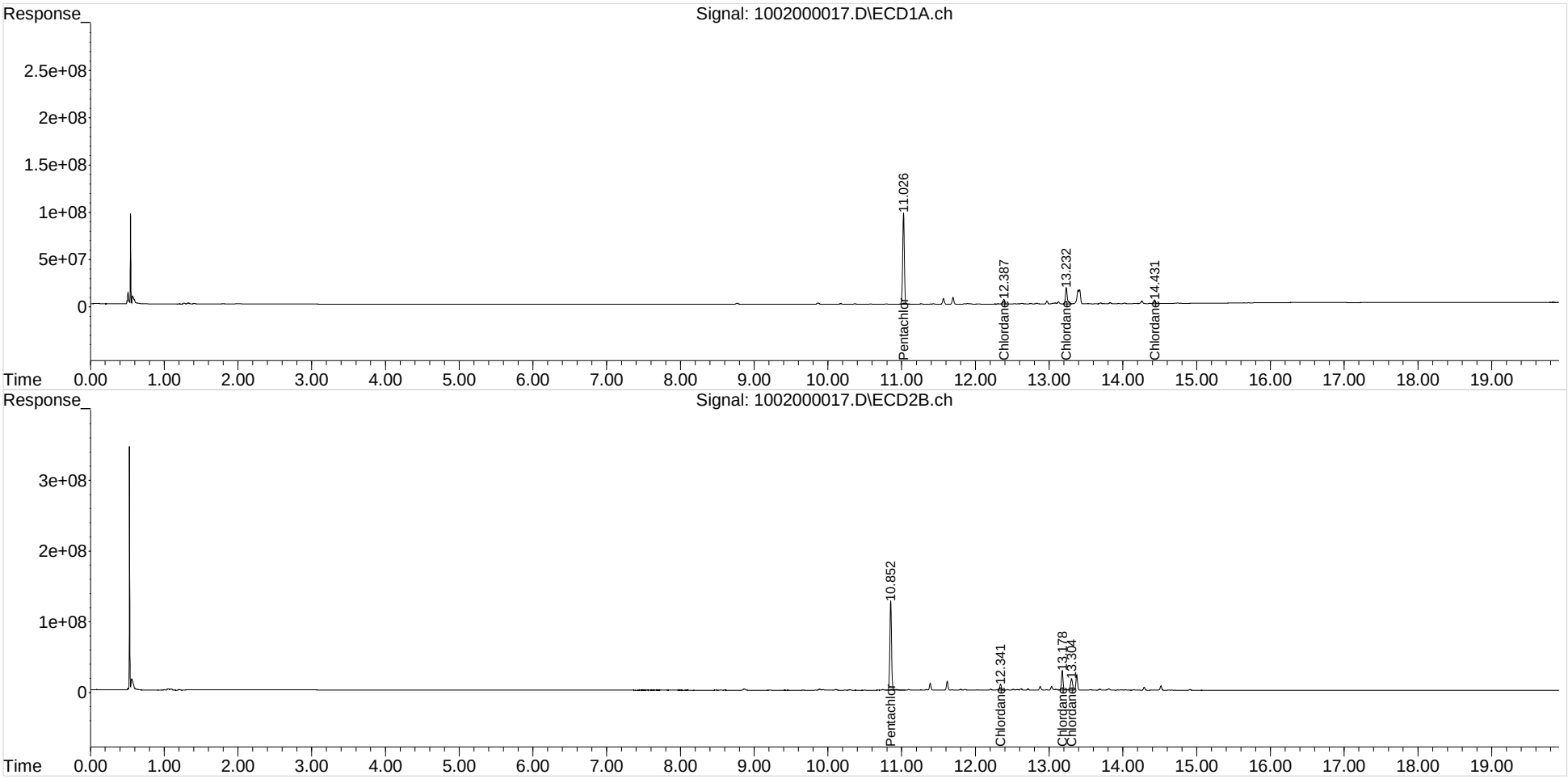
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000017.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 23:17:44 Operator: BB
Sample : GCPS9-33I CHLOR 100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:29:28 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100223\1002000018.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 23:49:57 Operator: BB
Sample : GCPS9-33I CHLOR 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:29:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26) I	Pentachlo...	11.027	10.852	152.2E6	196.9E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
31) L2	Chlordane	12.387	12.344	17054560	24812689	190.265	205.691
32) L2	Chlordane...	13.234	13.180	61139885	80190698	187.205	203.734
33) L2	Chlordane...	14.432	13.306	12624447	65463419	186.756	200.467
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

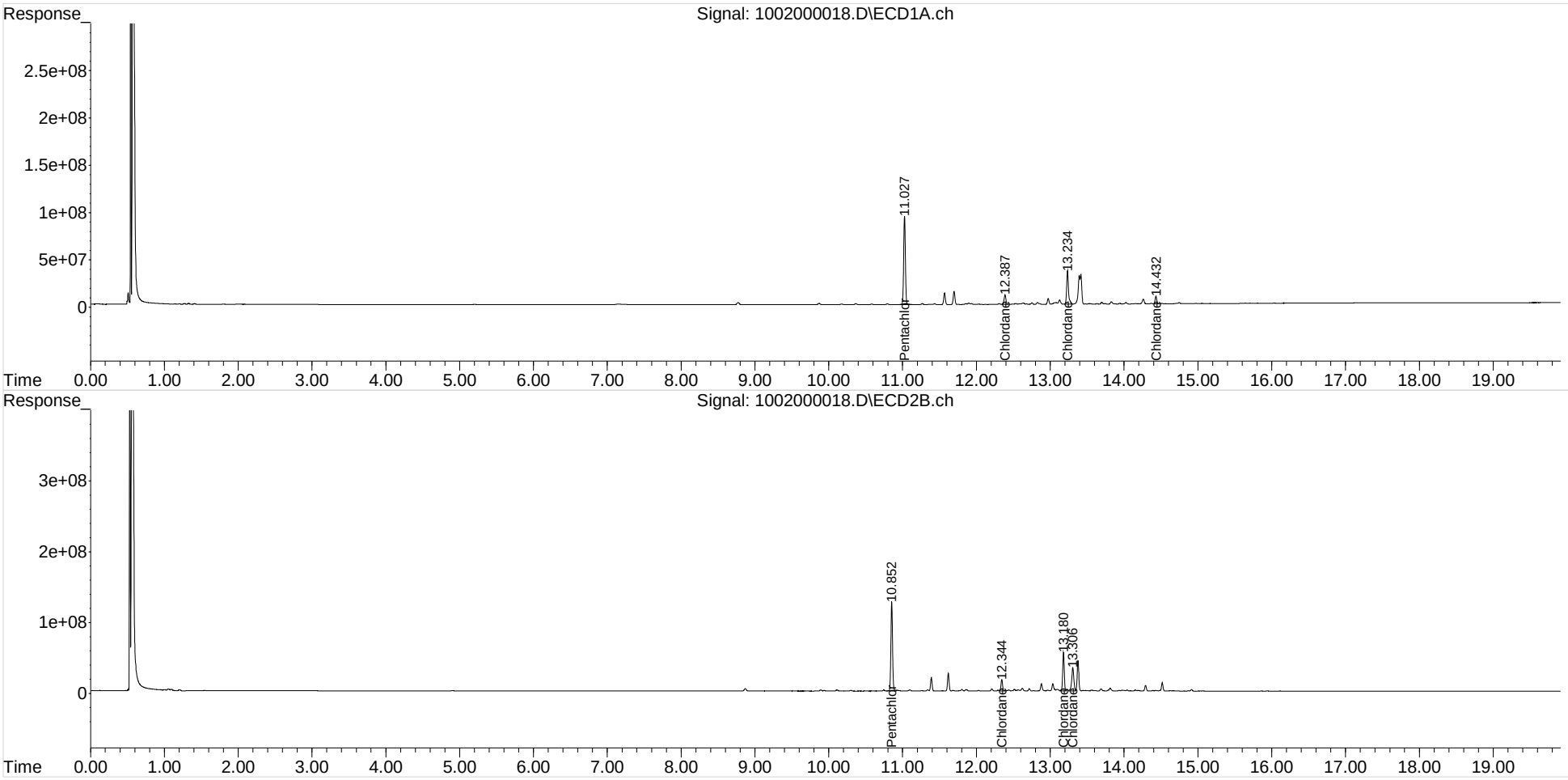
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000018.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03-Oct-2023, 23:49:57 Operator: BB
Sample : GCPS9-33I CHLOR 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:29:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100223\1002000019.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 00:22:19 Operator: BB
Sample : GCPS9-33I CHLOR 500PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:30:11 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26) I	Pentachlo...	11.024	10.851	154.7E6	198.5E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
31) L2	Chlordane	12.386	12.341	46366823	61376296	509.061	504.790
32) L2	Chlordane...	13.233	13.178	174.5E6	207.1E6	525.718	522.094
33) L2	Chlordane...	14.431	13.303	35462989	169.3E6	516.276	514.482
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

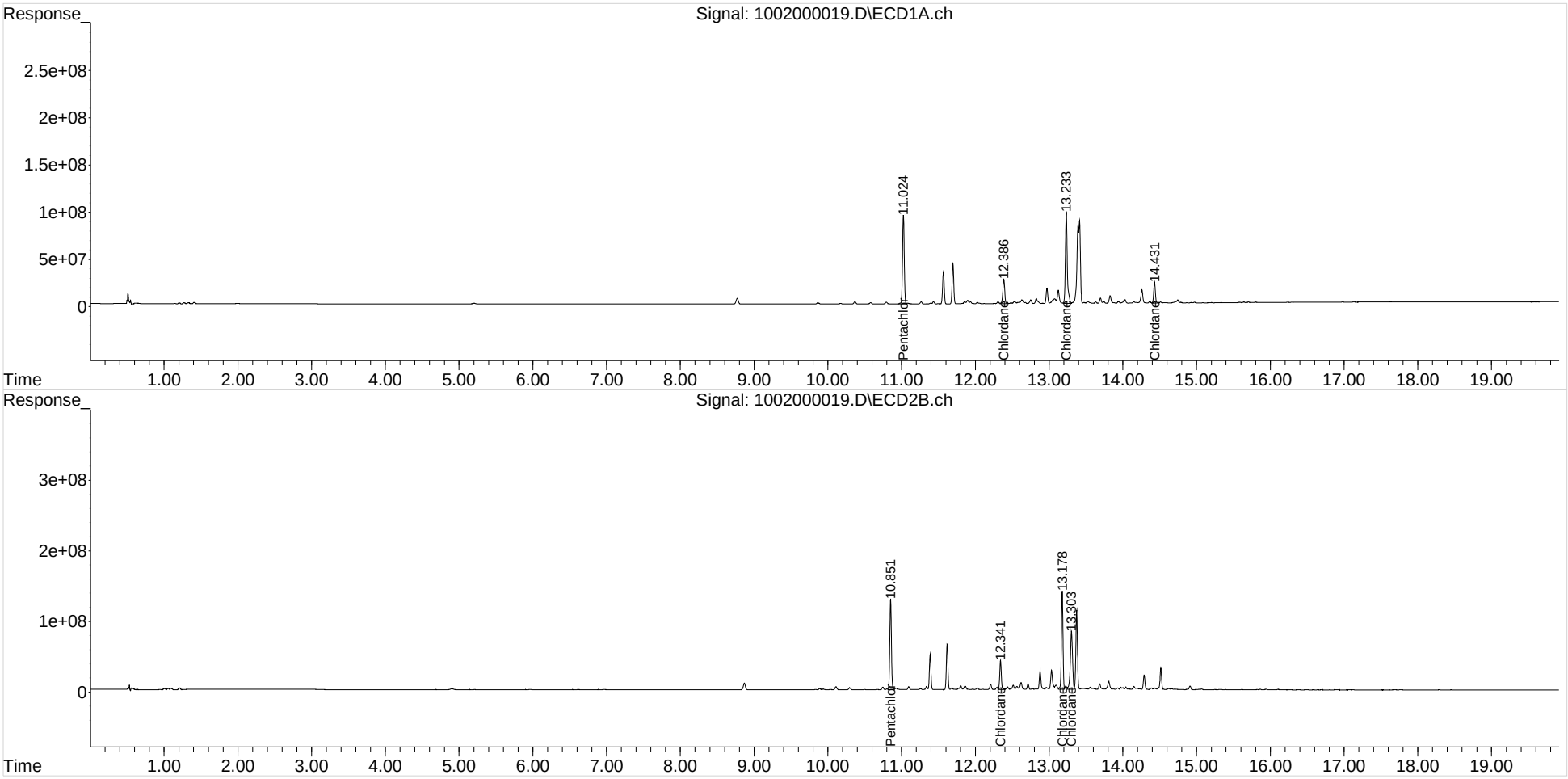
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000019.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 00:22:19 Operator: BB
Sample : GCPS9-33I CHLOR 500PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:30:11 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



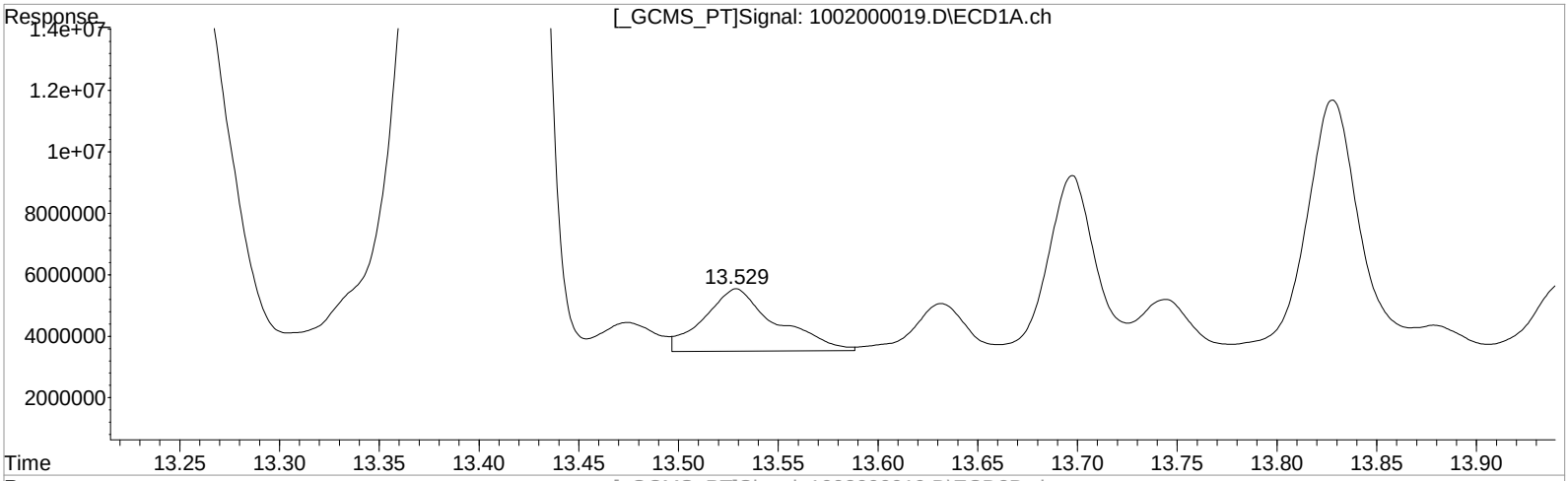
Quantitation Report (Qedit)

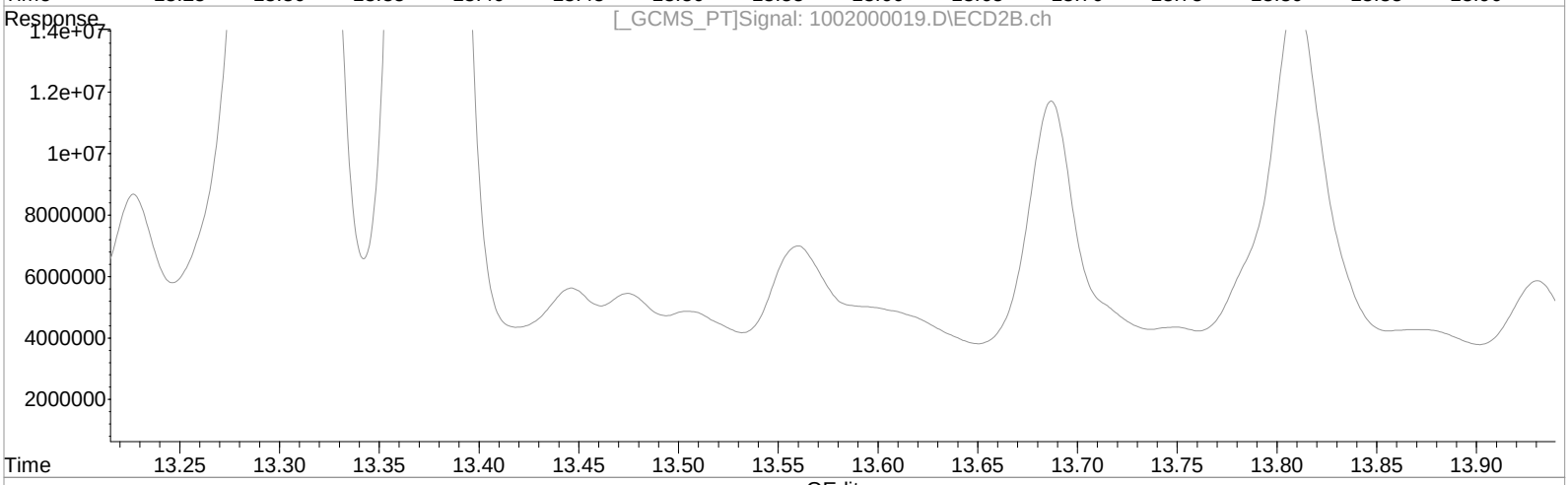
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000019.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 00:22:19 Operator: BB
Sample : GCPS9-33I CHLOR 500PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 04 11:10:37 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 02 16:07:27 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(33) Chlordane {3} #2 (L2)

11.024min 50.000 ug/L

response 154687439

Manual Integration:

Before

10/04/23

(33) Chlordane {3} #2 (L2)

10.851min 50.000 ug/L

response 198482008

(+) = Expected Retention Time

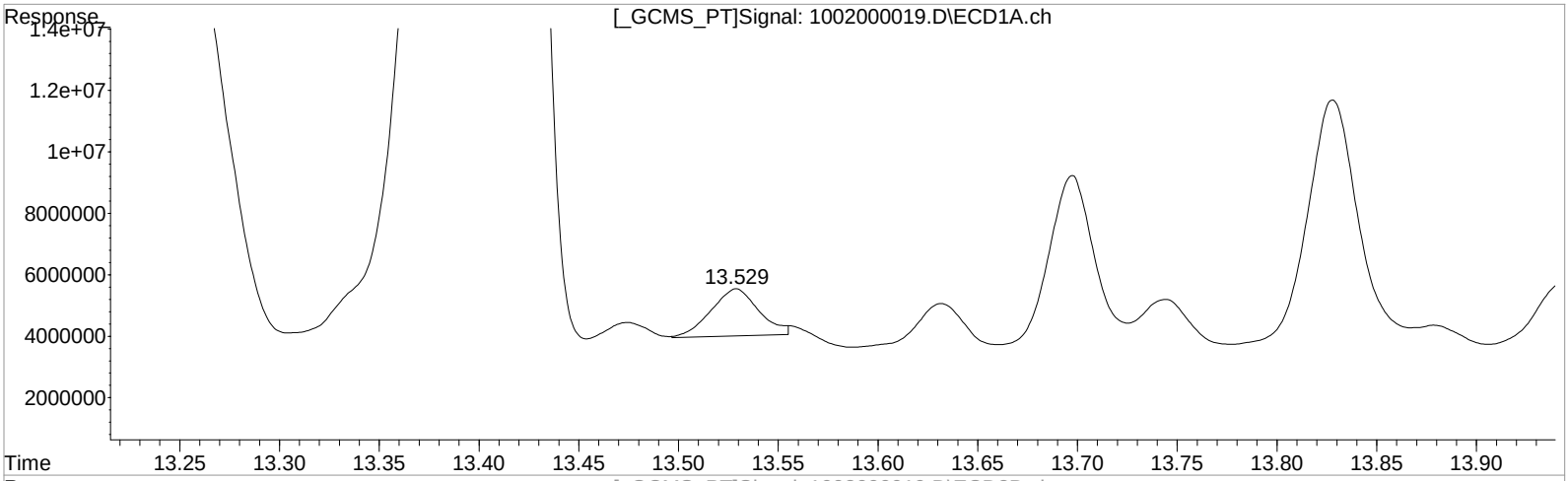
Quantitation Report (Qedit)

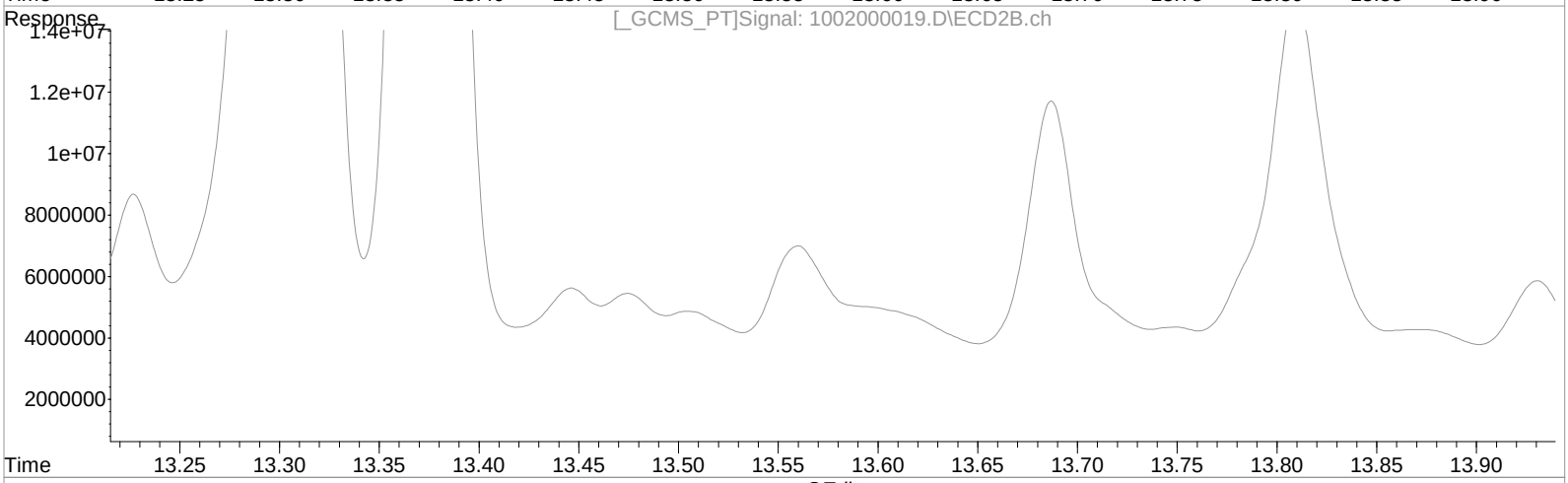
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100223\1002000019.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 00:22:19 Operator: BB
Sample : GCPS9-33I CHLOR 500PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 04 11:10:37 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Mon Oct 02 16:07:27 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(33) Chlordane {3} #2 (L2)

11.024min 50.000 ug/L

response 154687439

Manual Integration:

After

Baseline/Shoulder

10/04/23

(33) Chlordane {3} #2 (L2)

10.851min 50.000 ug/L

response 198482008

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000020.D Vial: 13
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 00:54:32 Operator: BB
Sample : GCPS9-33I CHLOR 1000PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:30:32 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26) I	Pentachlo...	11.026	10.852	153.1E6	198.0E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
31) L2	Chlordane	12.388	12.342	90047061	111.8E6	998.763	921.734
32) L2	Chlordane...	13.234	13.180	343.3E6	395.6E6	1045.036	999.471
33) L2	Chlordane...	14.432	13.305	63709584	320.0E6	937.005	974.593
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

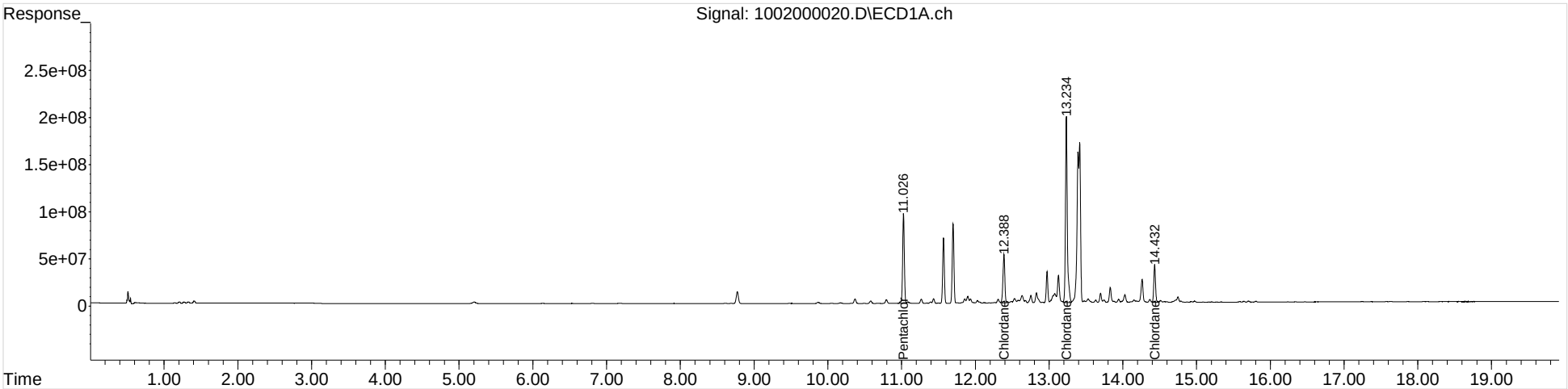
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000020.D Vial: 13
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 00:54:32 Operator: BB
Sample : GCPS9-33I CHLOR 1000PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:30:32 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100223\1002000021.D Vial: 14
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 01:26:53 Operator: BB
Sample : GCPS9-33I CHLOR 2000PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:30:53 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26) I	Pentachlo...	11.025	10.851	152.5E6	200.1E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
31) L2	Chlordane	12.387	12.342	181.8E6	223.3E6	2023.552	1821.649
32) L2	Chlordane...	13.233	13.179	748.7E6	742.2E6	2287.658	1855.814
33) L2	Chlordane...	14.430	13.304	154.5E6	652.4E6	2280.241	1966.214
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

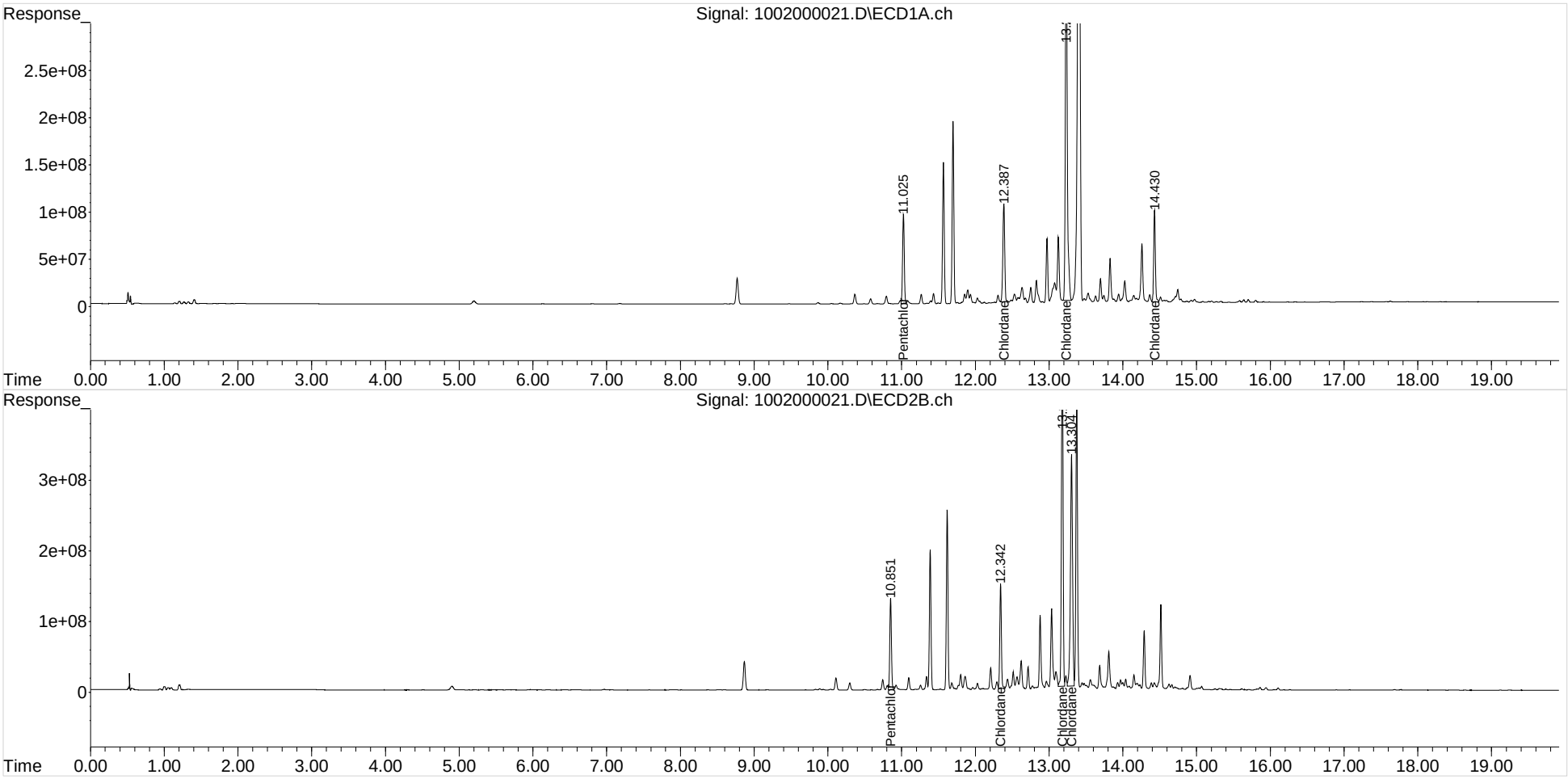
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000021.D Vial: 14
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 01:26:53 Operator: BB
Sample : GCPS9-33I CHLOR 2000PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:30:53 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100223\1002000022.D Vial: 15
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 01:59:06 Operator: BB
Sample : DWSTD08-84J CHLOR ICV 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:31:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
26) I	Pentachlo...	11.026	10.852	151.0E6	202.4E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
31) L2	Chlordane	12.387	12.344	18336356	26181388	206.265	211.134
32) L2	Chlordane...	13.235	13.180	53670918	70788108	165.701	174.954
33) L2	Chlordane...	14.432	13.306	15160414	66402276	226.135	197.812
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

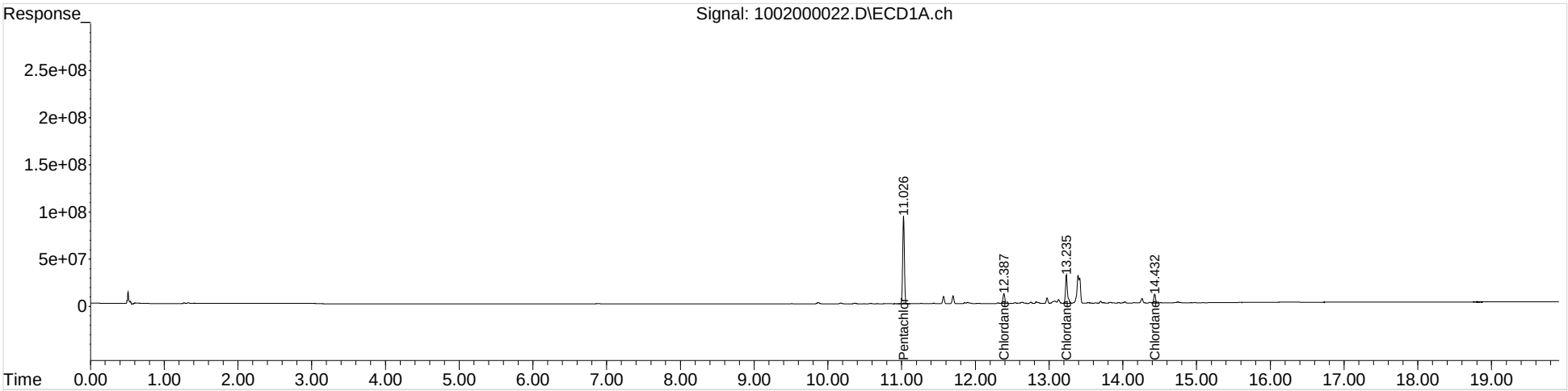
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100223\1002000022.D Vial: 15
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04-Oct-2023, 01:59:06 Operator: BB
Sample : DWSTD08-84J CHLOR ICV 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:31:14 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:20:59 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
1) I	Pentachlo...	11.057f	10.883f	170.0E6	129.5E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
14) m	4,4'-DDE	13.546f	13.627f	116009	104276	0.059m	0.057m
17) m	Endrin	14.275f	14.233f	11685008	11129615	6.446m	6.976m
20) m	4,4'-DDT	14.675f	14.736f	15902555	17140559	11.629m	12.740m
21) m	Endrin Al...	15.102f	14.913f	413685	463738	0.303m	0.384m#
24) m	Endrin Ke...	16.087f	15.988f	581342	734147	0.326m	0.518m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

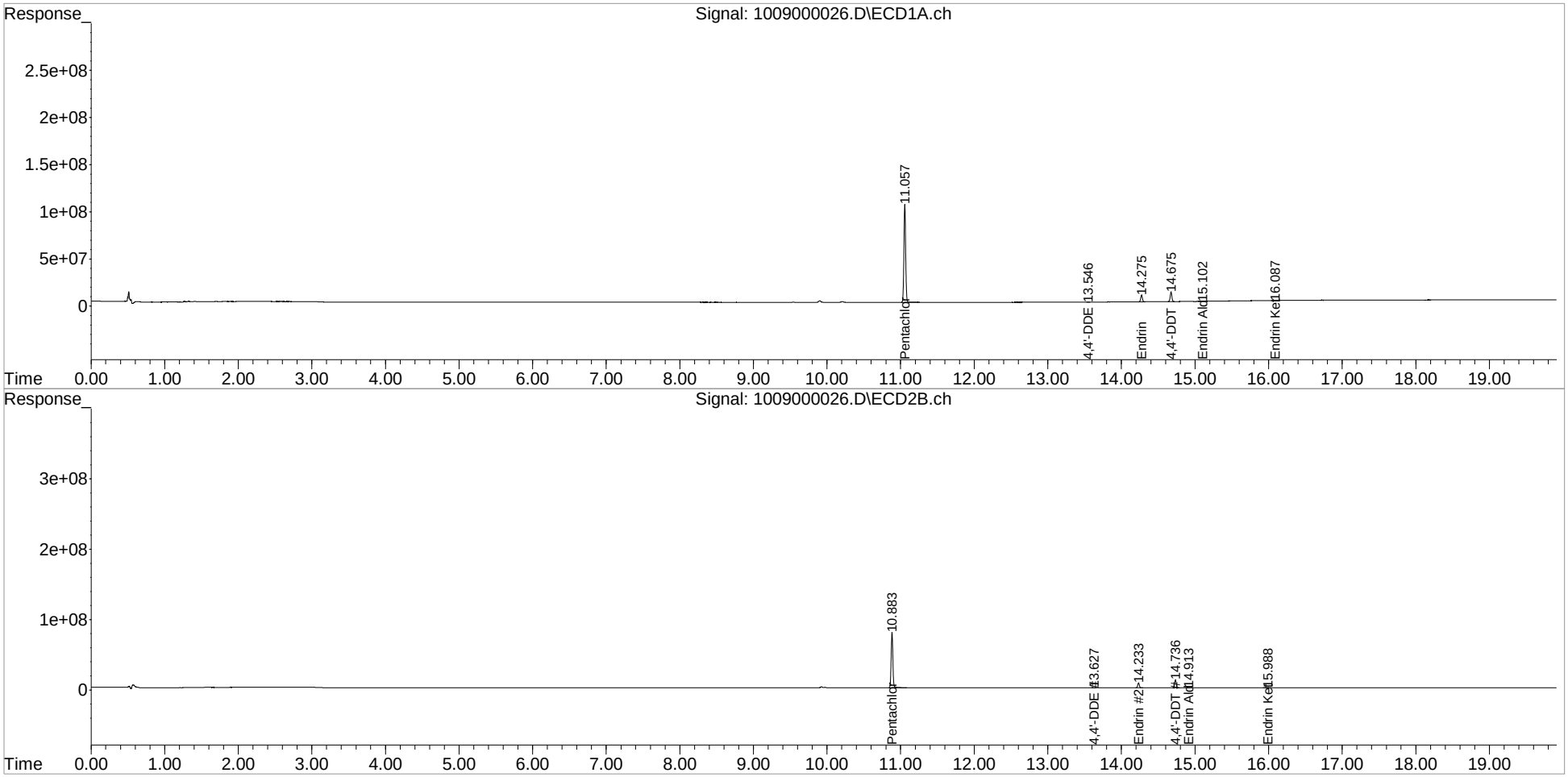
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:20:59 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

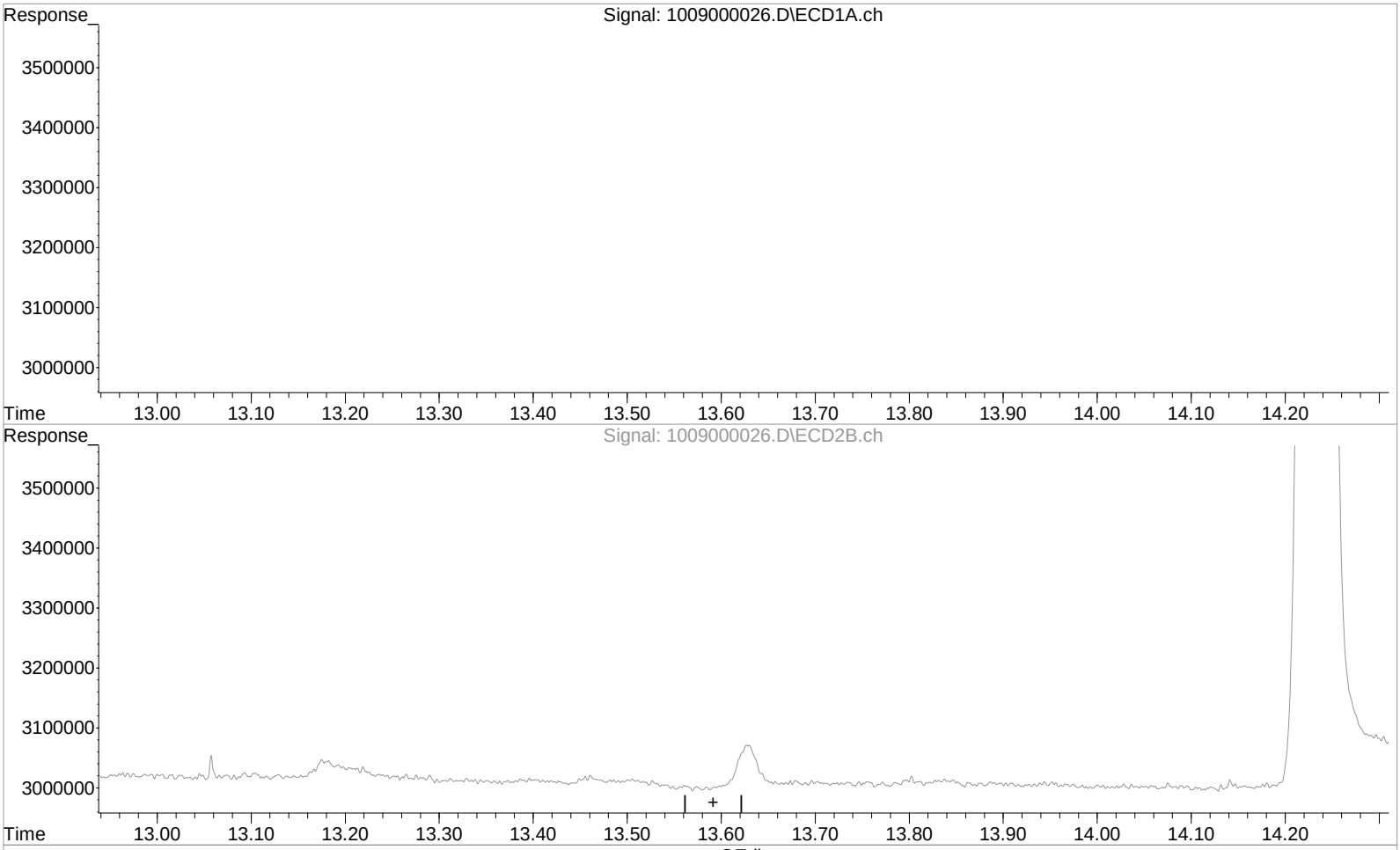


1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(14) 4,4'-DDE (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(14) 4,4'-DDE #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

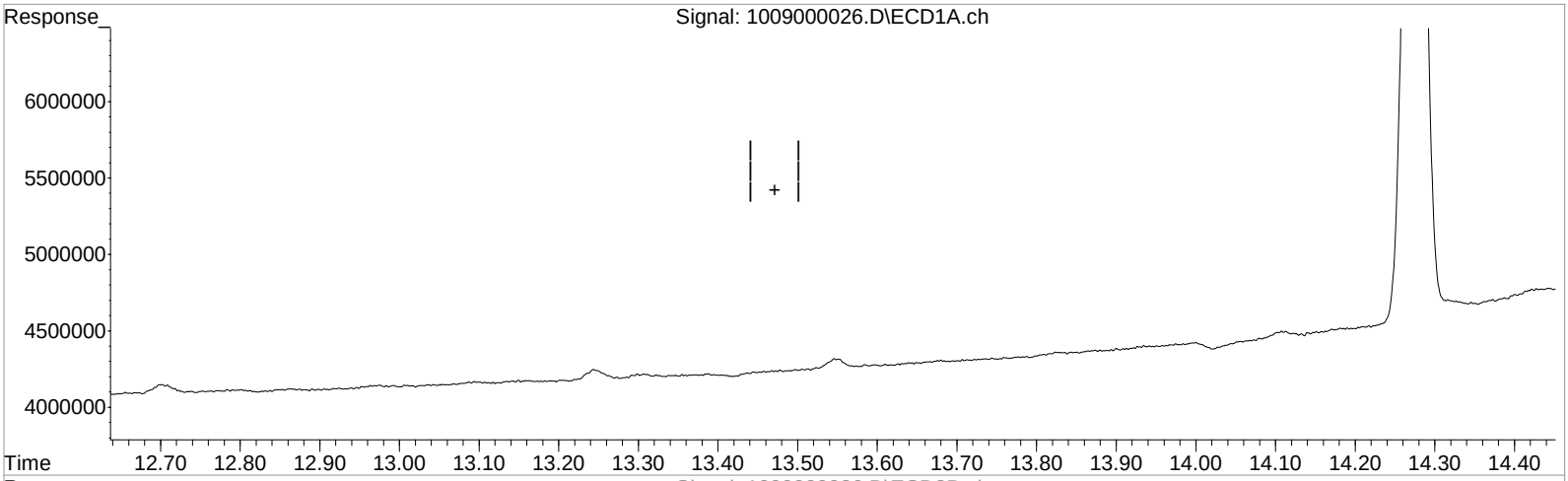
Quantitation Report (Qedit)

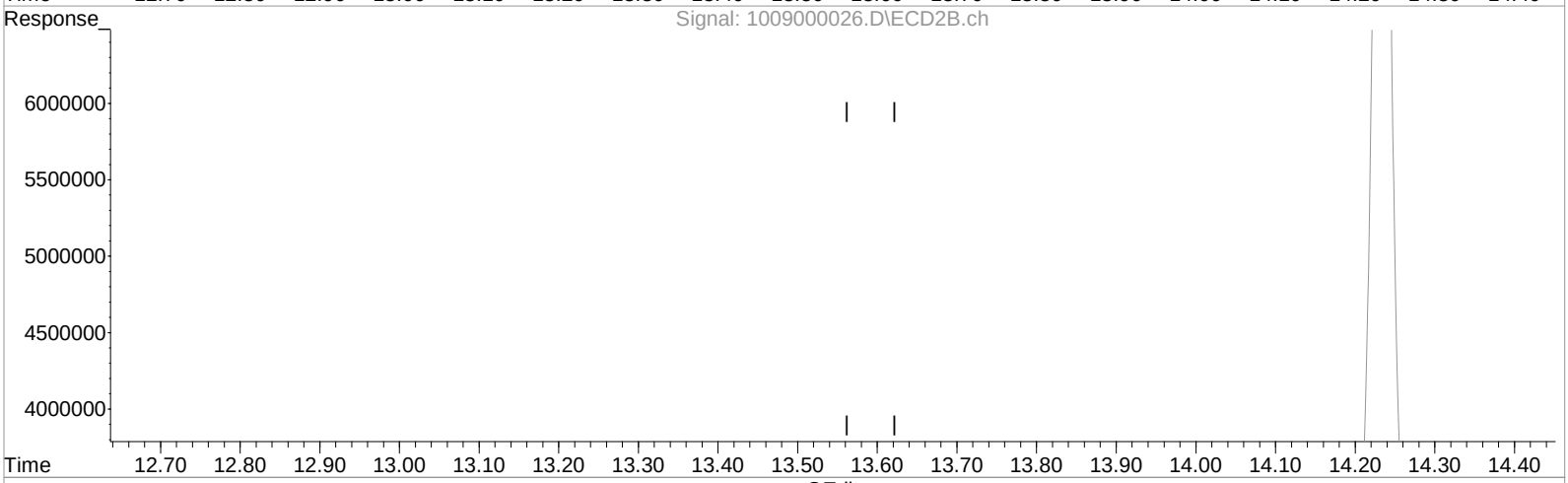
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(14) 4,4'-DDE (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(14) 4,4'-DDE #2 (m)

13.627min 0.057 ug/L m

response 104276

(+) = Expected Retention Time

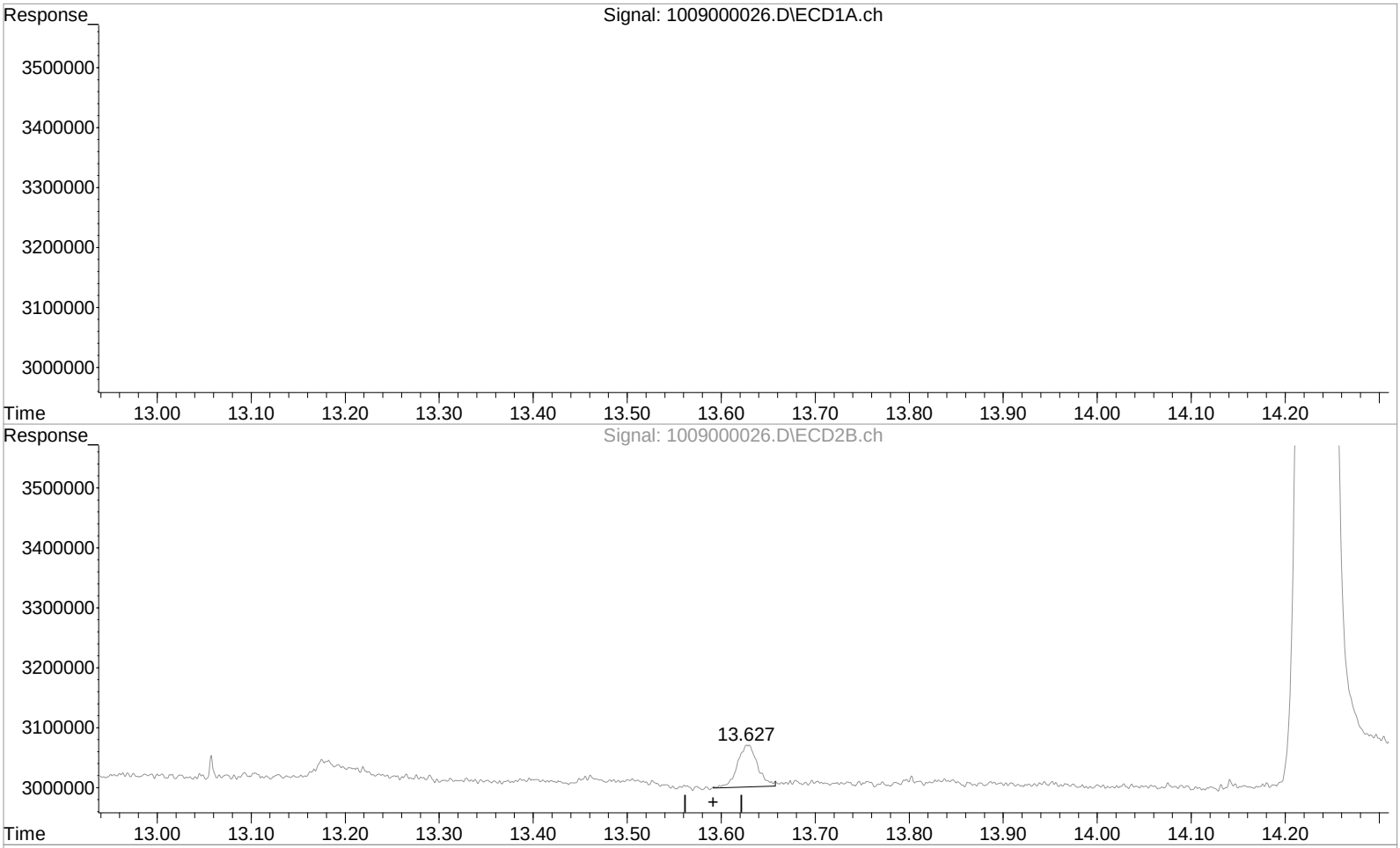
Quantitation Report (Qedit)

1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



(14) 4,4'-DDE (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

10/11/23

(14) 4,4'-DDE #2 (m)

13.627min 0.057 ug/L m

response 104276

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
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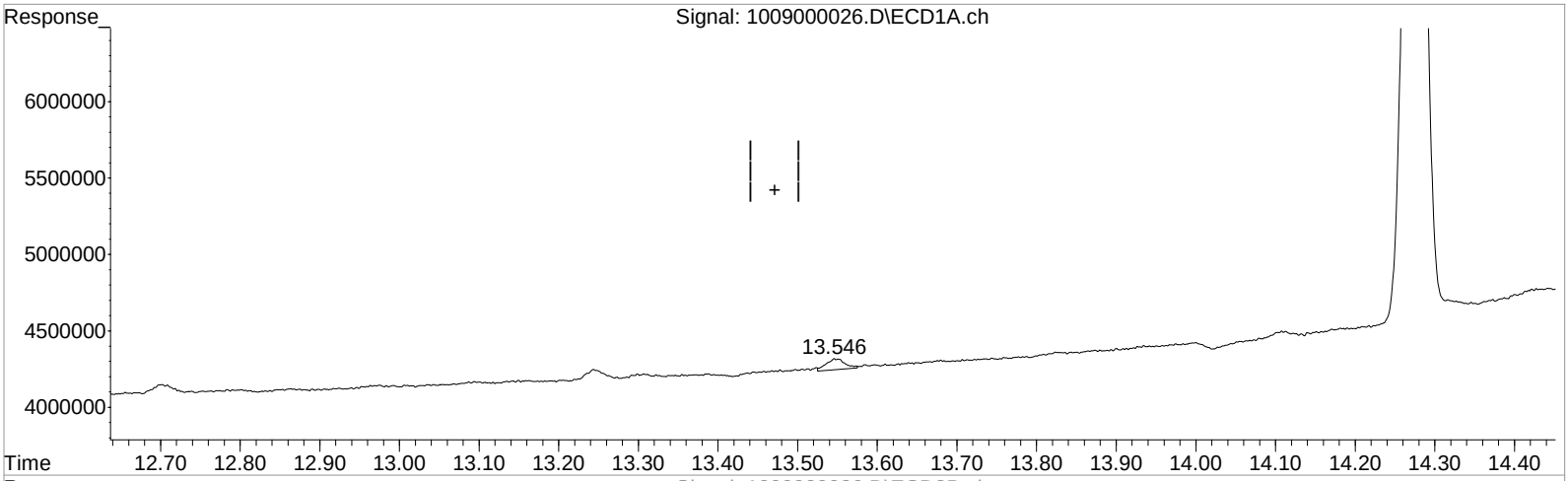
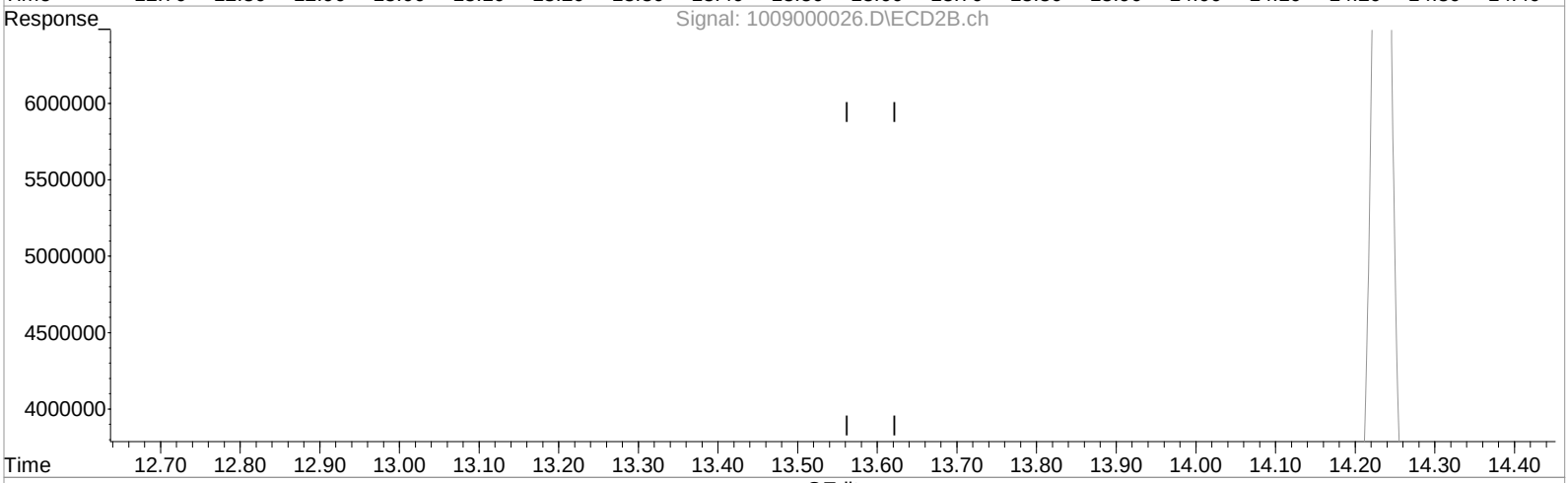
Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(14) 4,4'-DDE (m)

13.546min 0.059 ug/L m

response 116009

Manual Integration:

After

Missed Peak

10/11/23

(14) 4,4'-DDE #2 (m)

13.627min 0.057 ug/L m

response 104276

(+) = Expected Retention Time

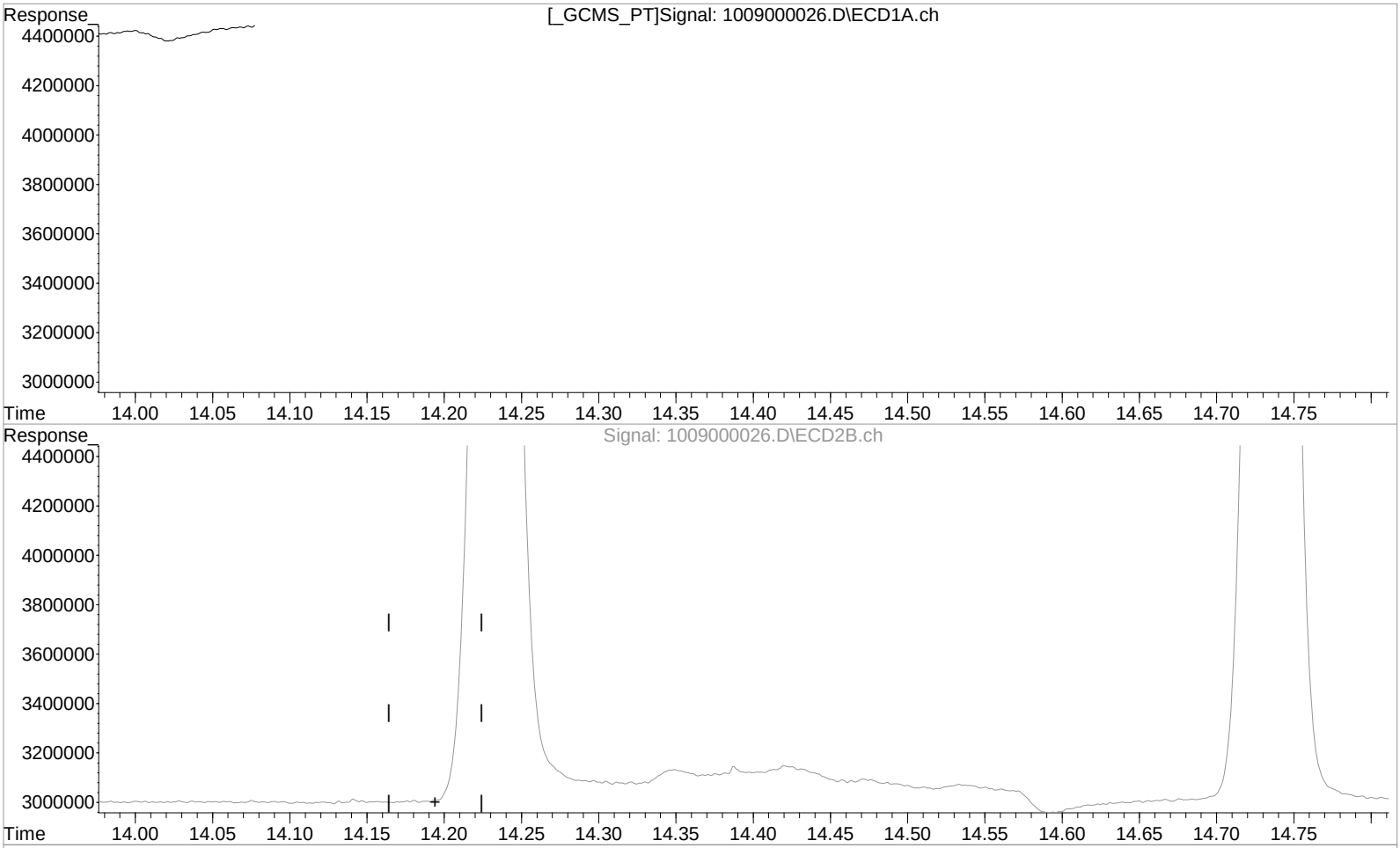
Quantitation Report (Qedit)

1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(17) Endrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(17) Endrin #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

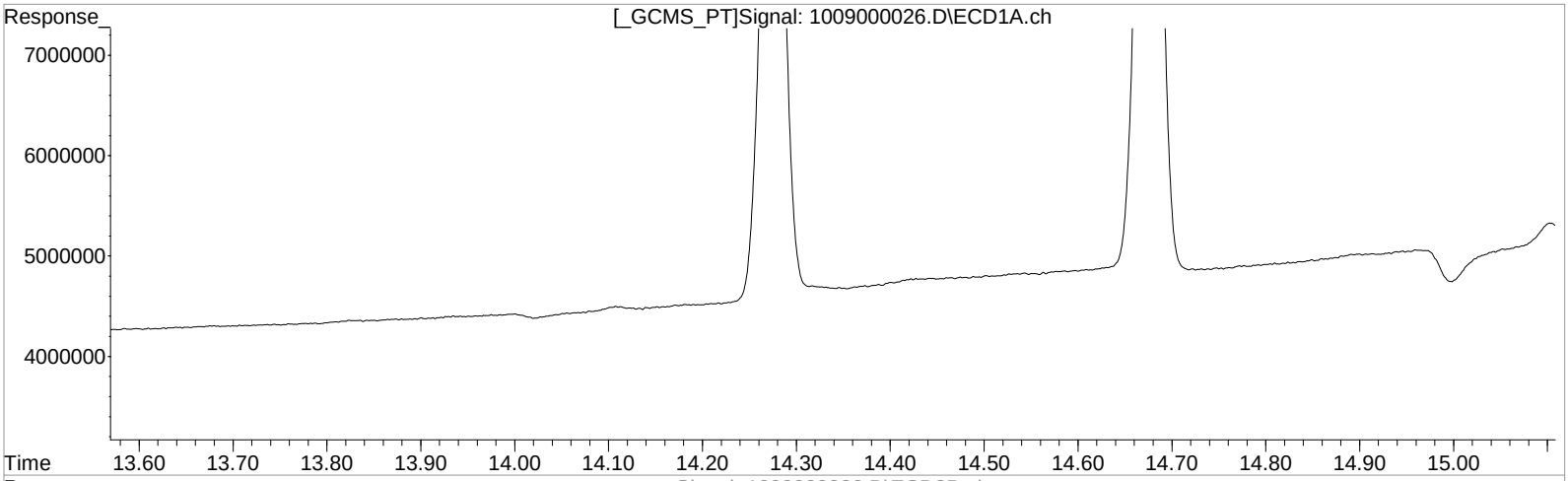
Quantitation Report (Qedit)

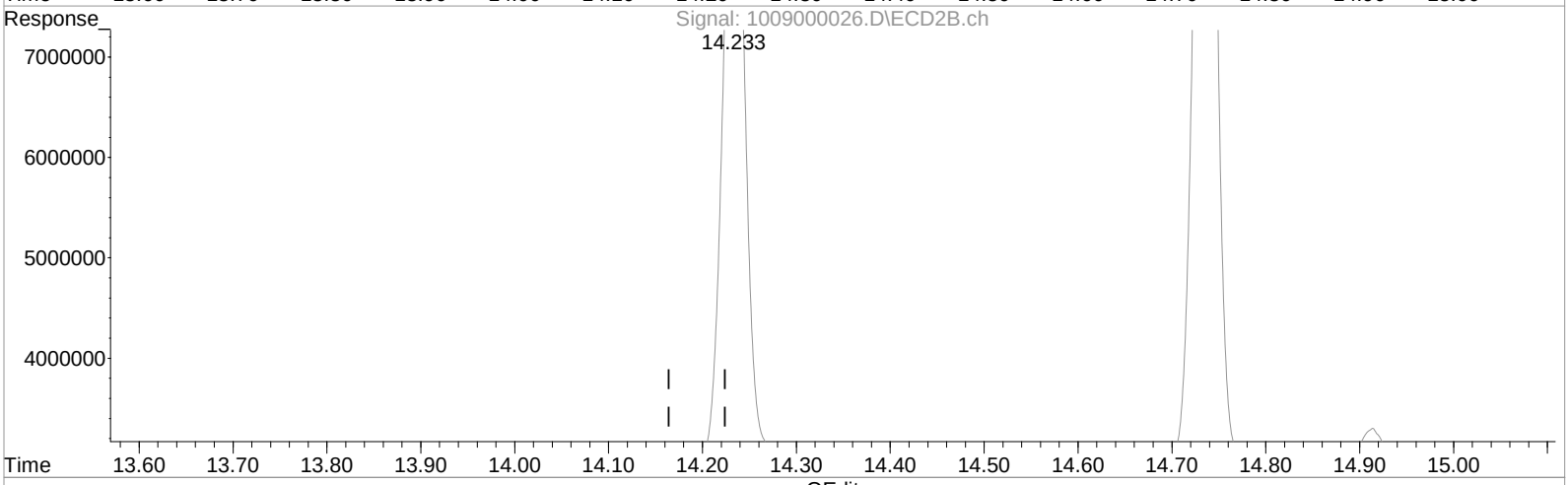
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(17) Endrin #2 (m)

14.233min 6.976 ug/L m

response 11129615

(+) = Expected Retention Time

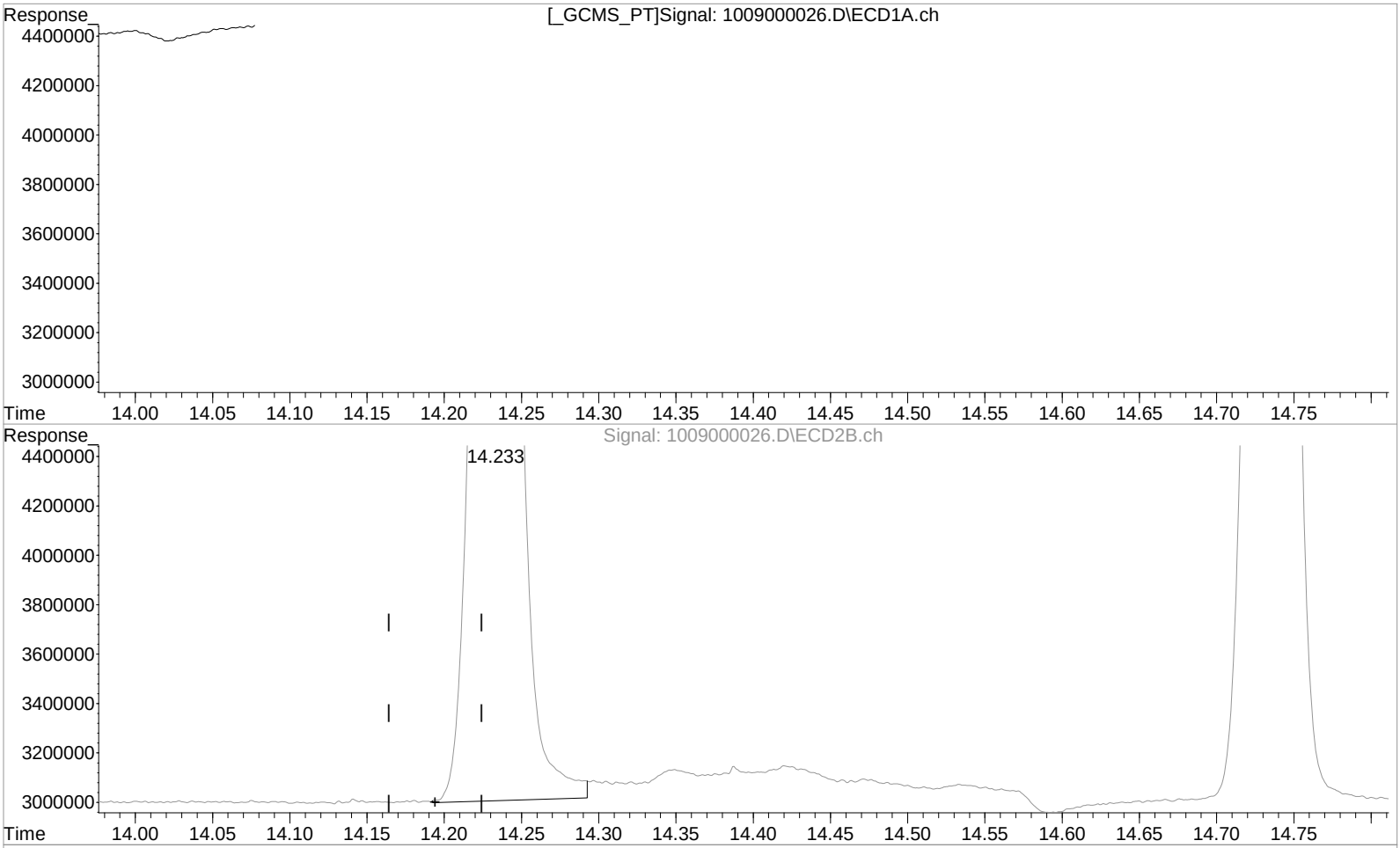
Quantitation Report (Qedit)

1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(17) Endrin (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

10/11/23

(17) Endrin #2 (m)

14.233min 6.976 ug/L m

response 11129615

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
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Quant Time: Oct 11 14:05:01 2023
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Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
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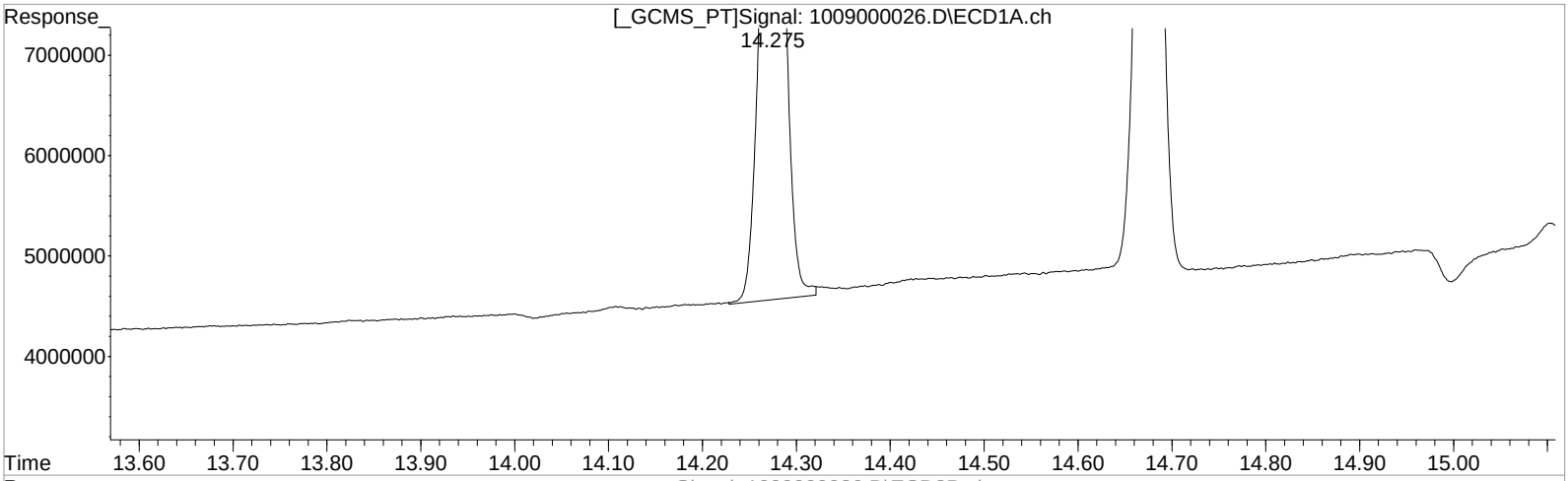
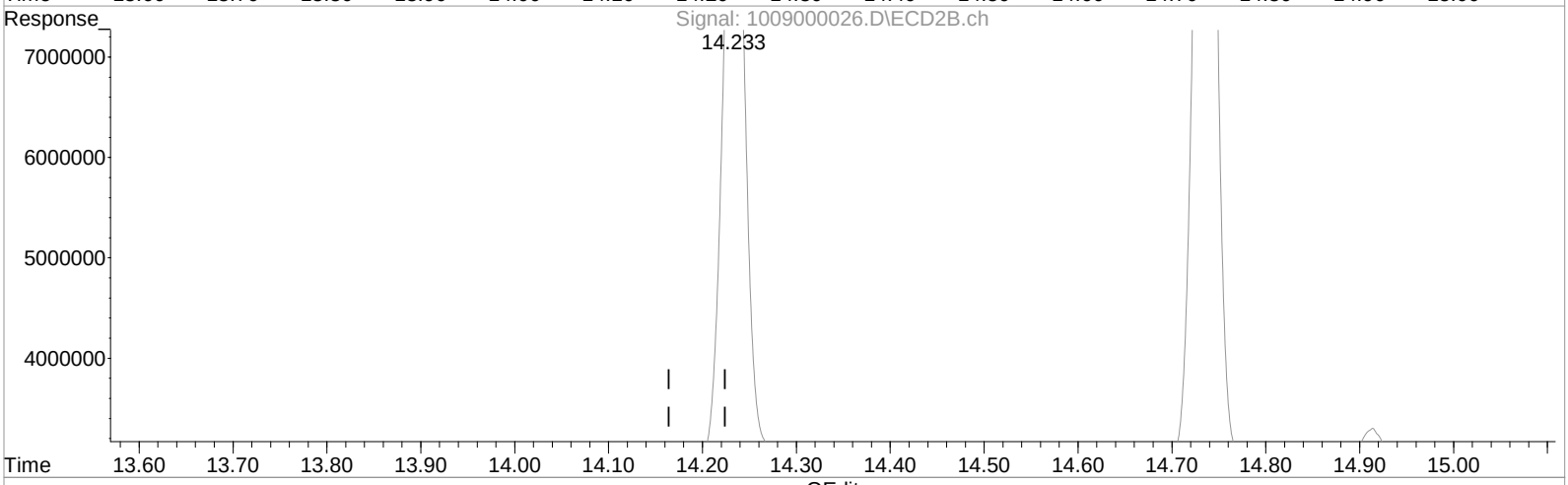
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(17) Endrin (m)

14.275min 6.446 ug/L m

response 11685008

Manual Integration:

After

Missed Peak

10/11/23

(17) Endrin #2 (m)

14.233min 6.976 ug/L m

response 11129615

(+) = Expected Retention Time

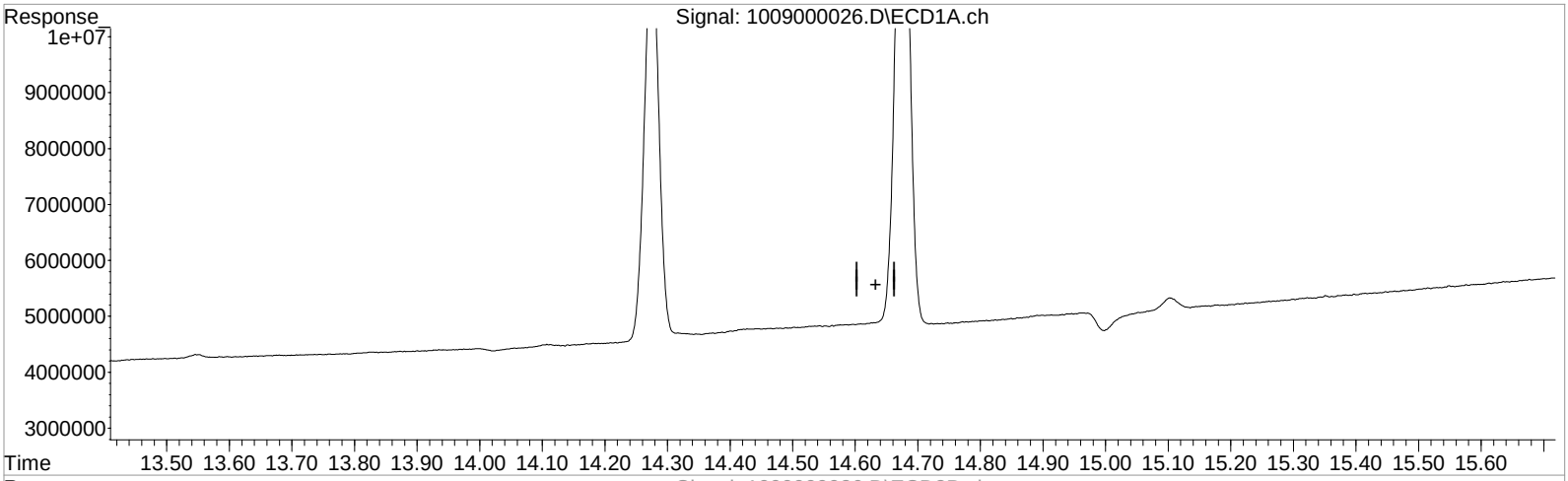
Quantitation Report (Qedit)

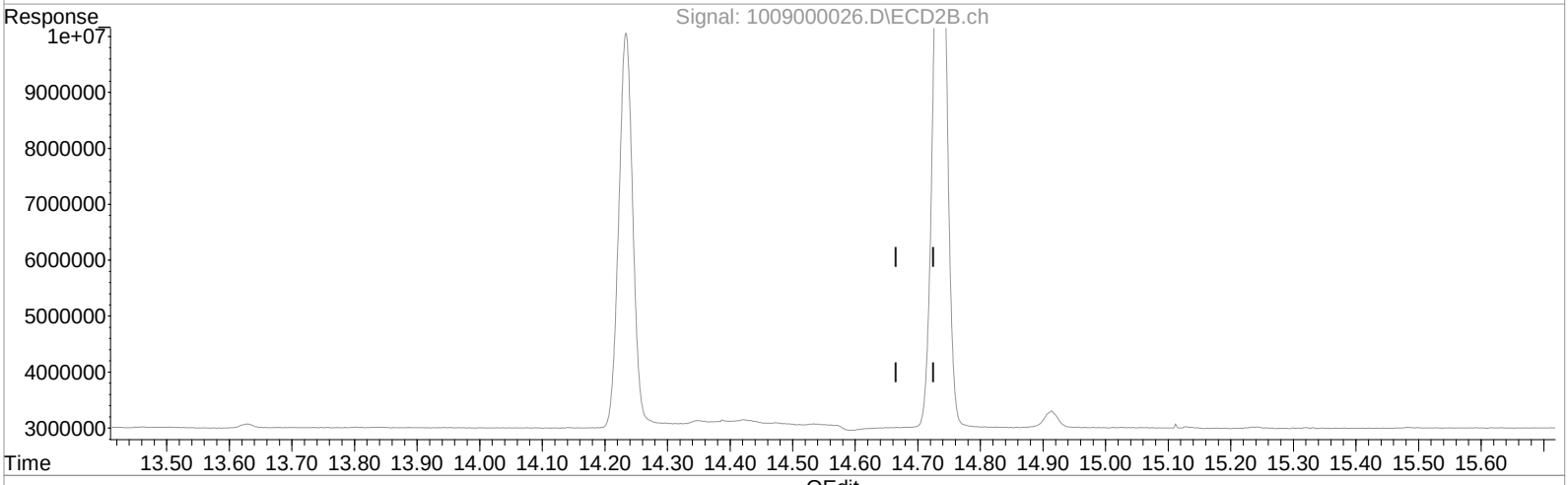
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(20) 4,4'-DDT (m)

0.000min 0.000 ug/L

response 0

(20) 4,4'-DDT #2 (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(+) = Expected Retention Time

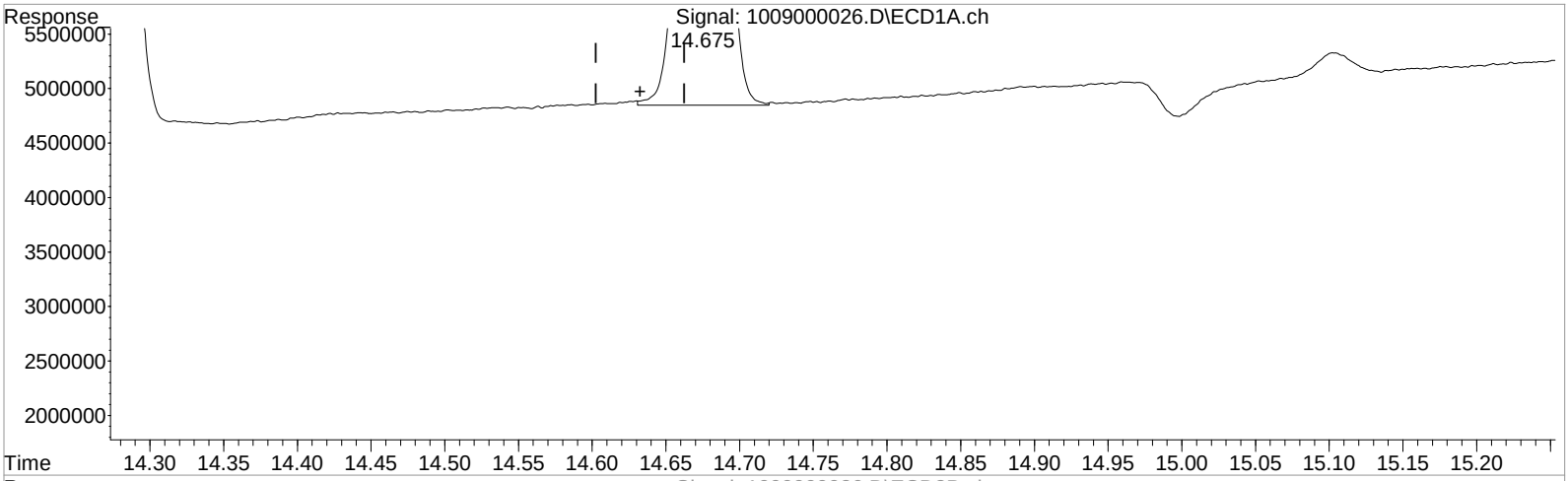
Quantitation Report (Qedit)

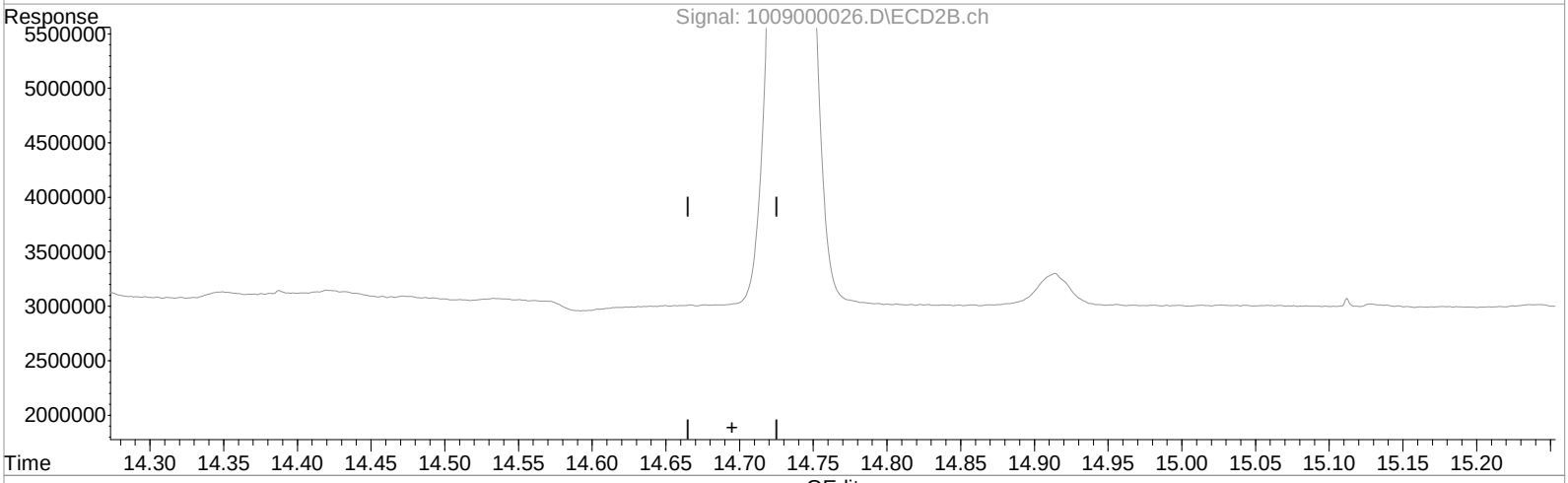
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(20) 4,4'-DDT (m)

14.675min 11.629 ug/L m

response 15902555

(20) 4,4'-DDT #2 (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(+) = Expected Retention Time

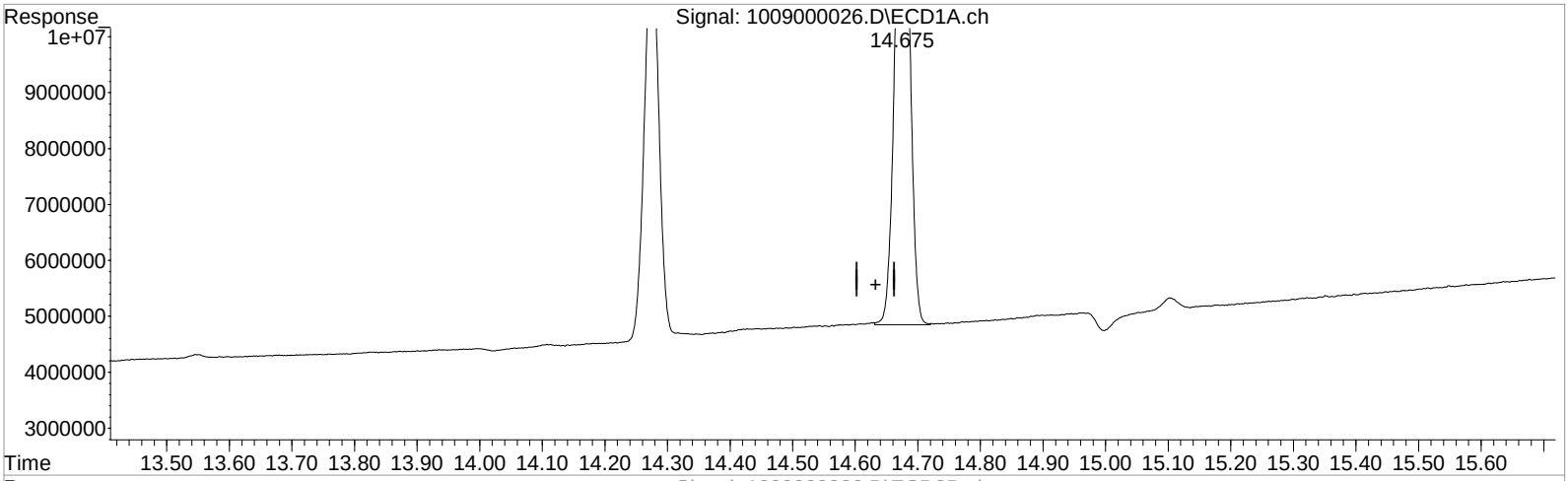
Quantitation Report (Qedit)

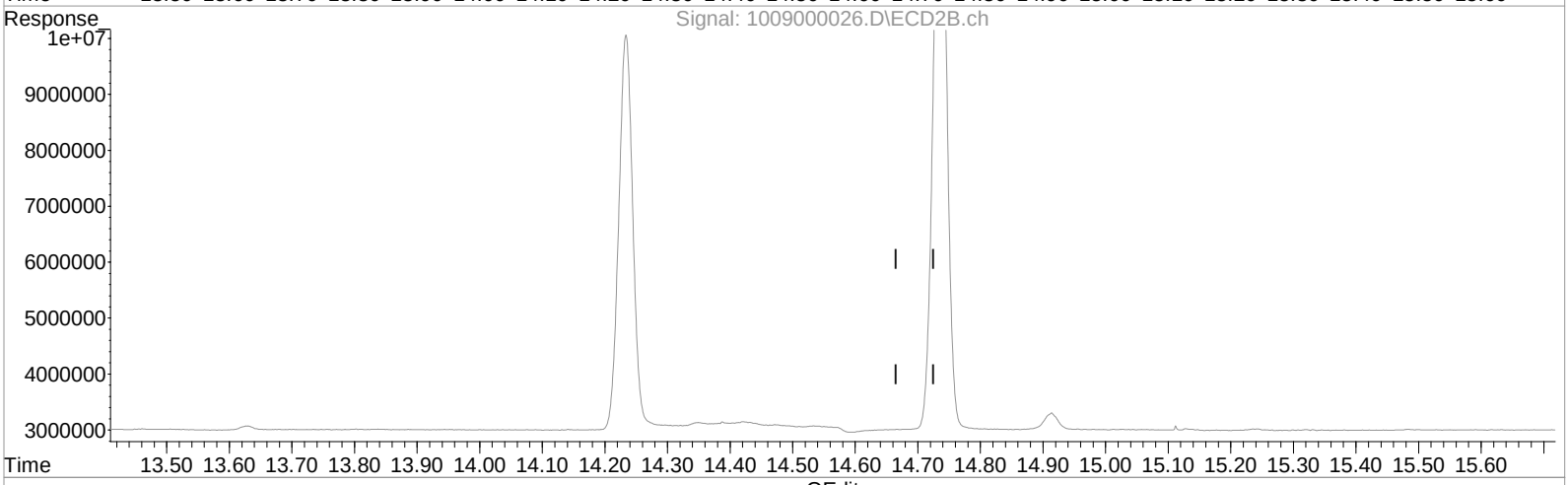
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(20) 4,4'-DDT (m)

14.675min 11.629 ug/L m

response 15902555

Manual Integration:

After

Baseline/Shoulder

10/11/23

(20) 4,4'-DDT #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

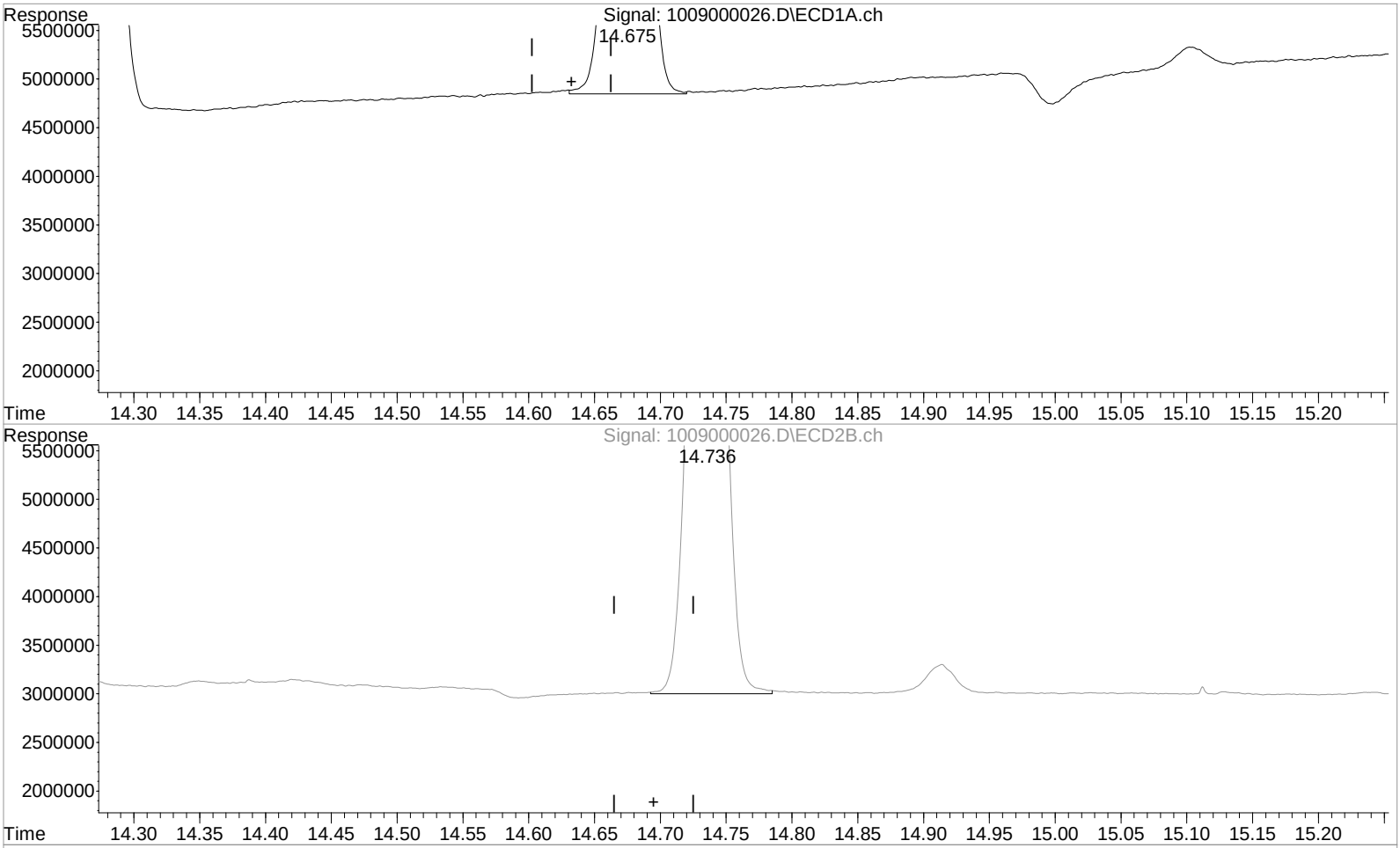
Quantitation Report (Qedit)

1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:05:01 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(20) 4,4'-DDT (m)

14.675min 11.629 ug/L m

response 15902555

Manual Integration:

After

Missed Peak

10/11/23

(20) 4,4'-DDT #2 (m)

14.736min 12.740 ug/L m

response 17140559

(+) = Expected Retention Time

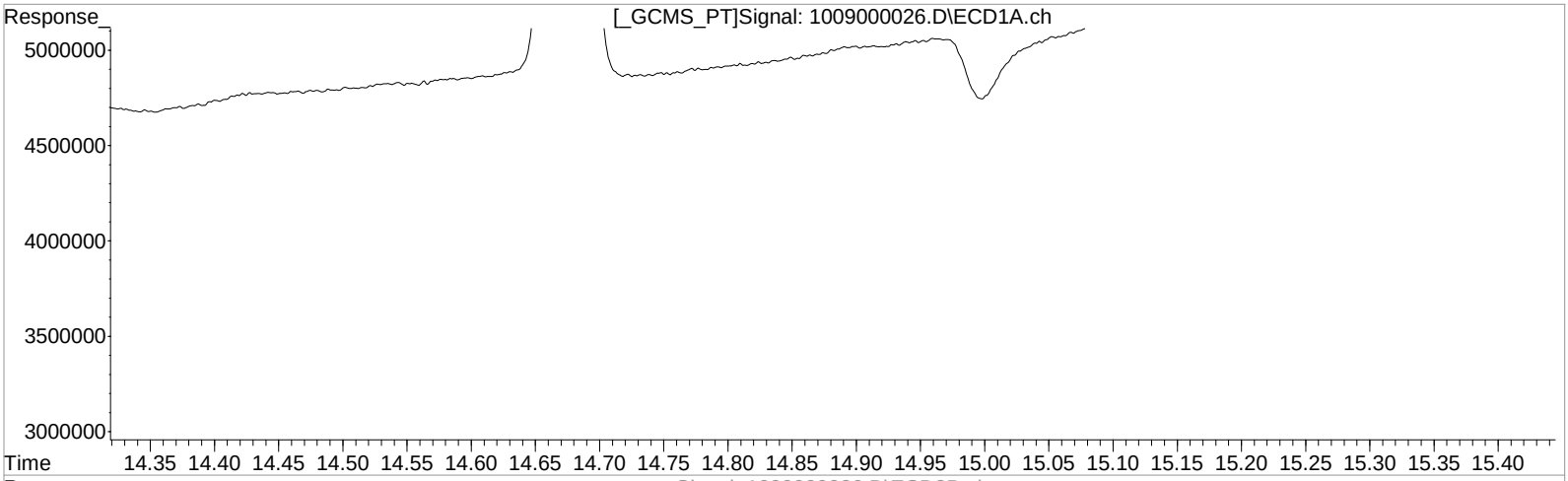
Quantitation Report (Qedit)

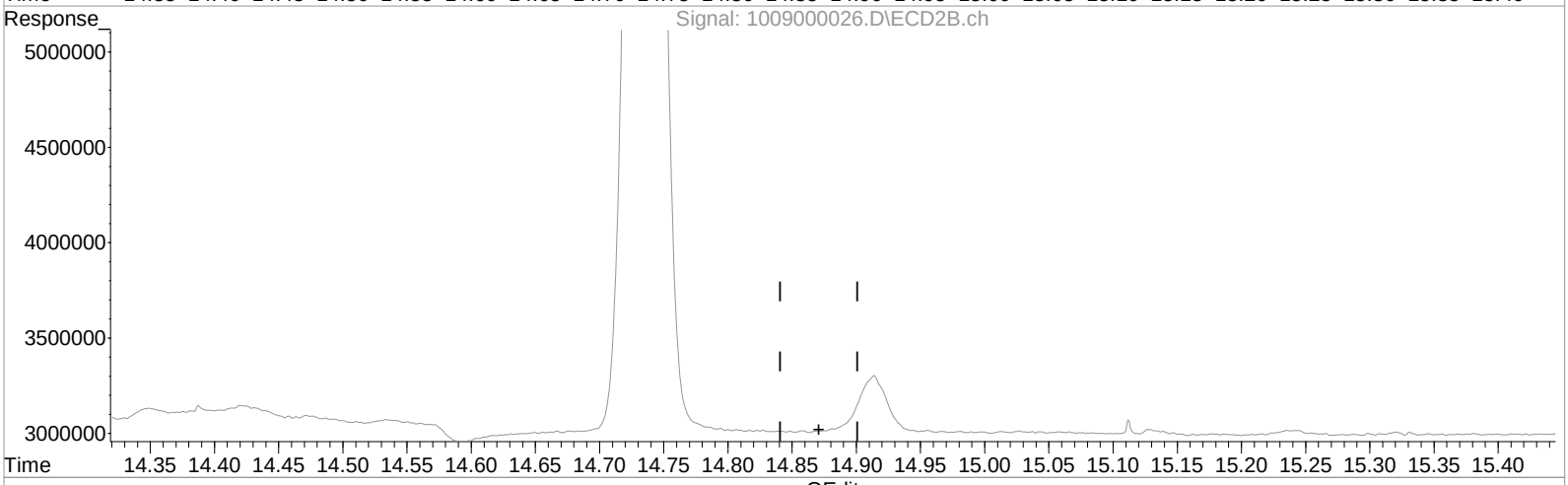
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:13:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(21) Endrin Aldehyde (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(21) Endrin Aldehyde #2 (m)

0.000min 0.000 ug/L

response 0

(+) = Expected Retention Time

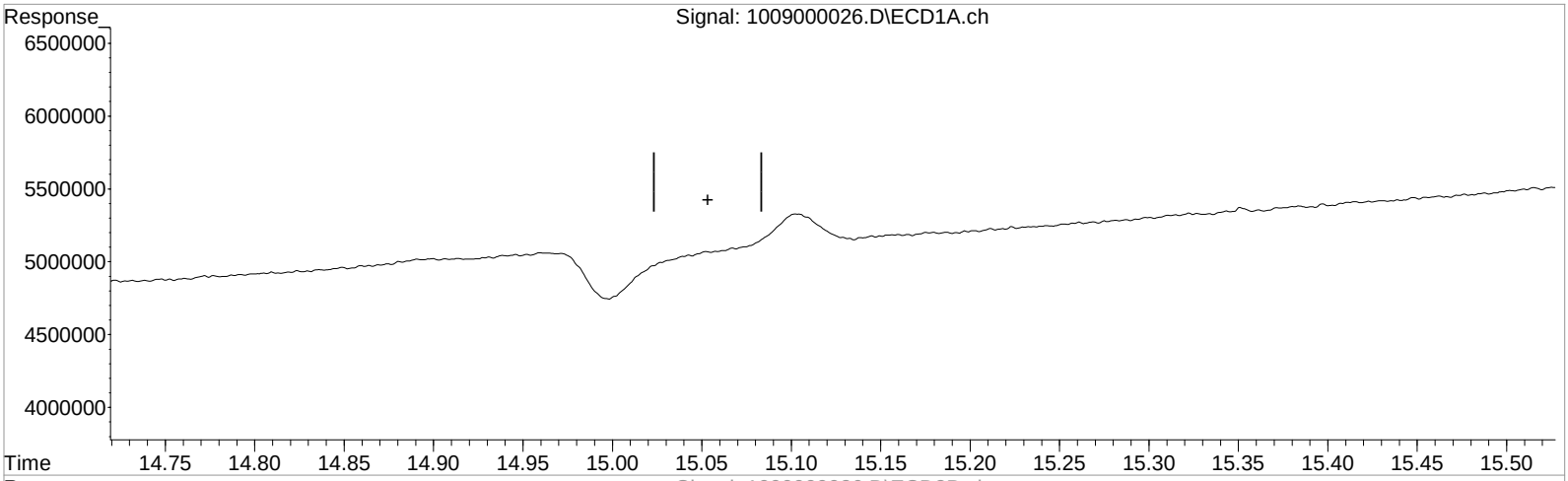
Quantitation Report (Qedit)

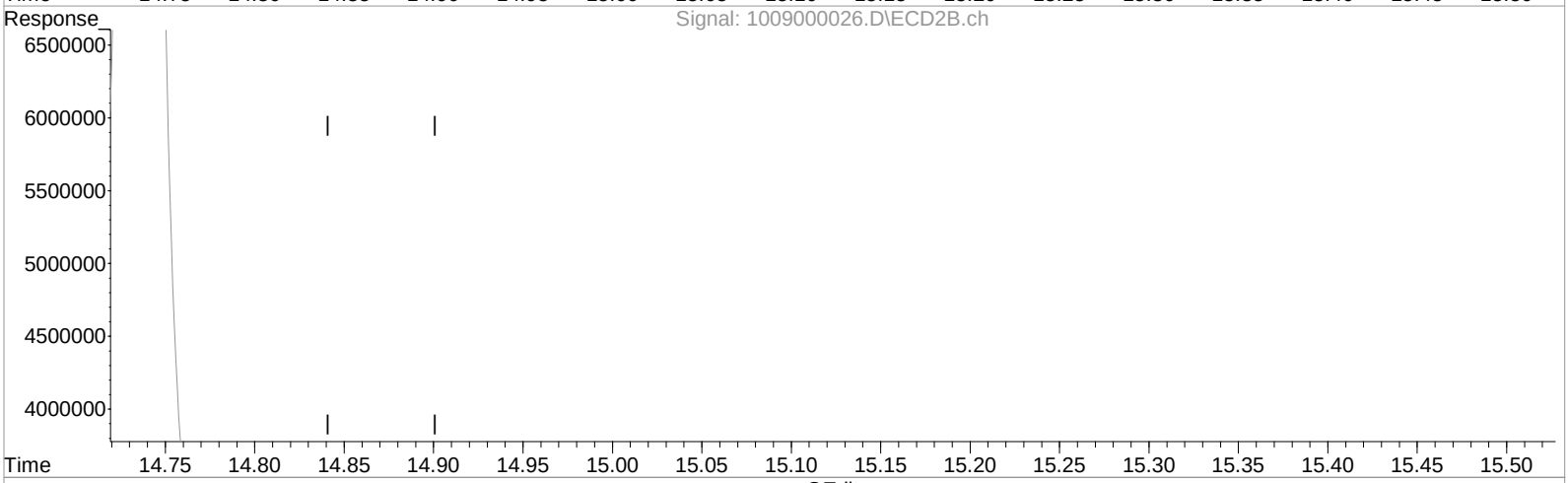
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:13:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(21) Endrin Aldehyde (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(21) Endrin Aldehyde #2 (m)

14.913min 0.384 ug/L m

response 463738

(+) = Expected Retention Time

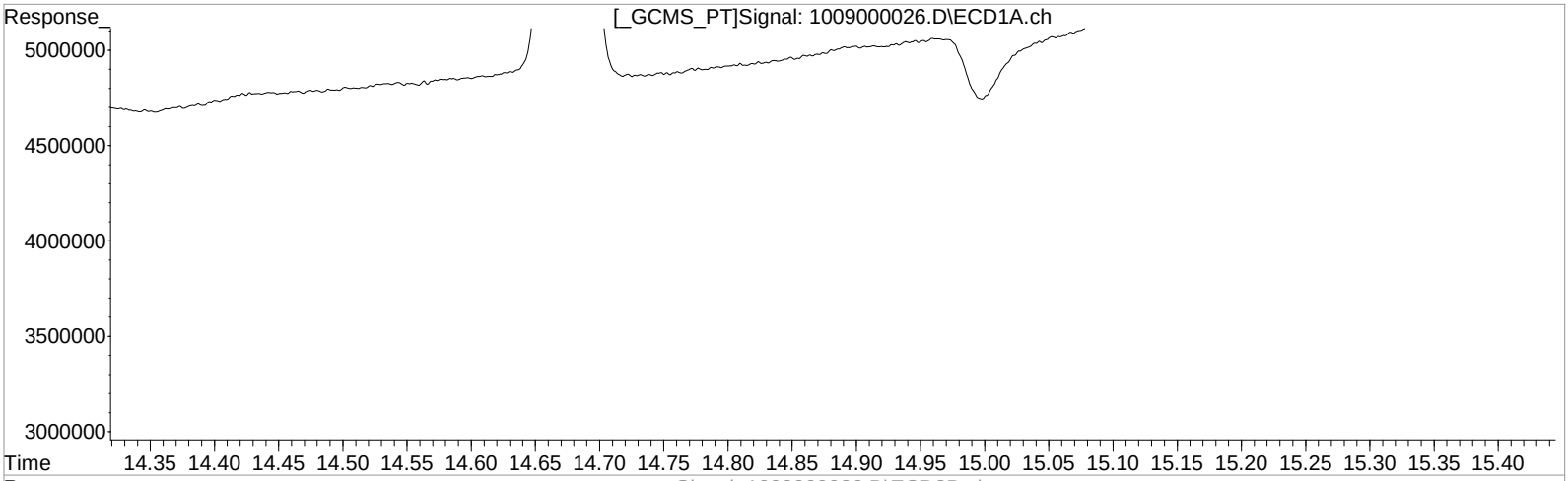
Quantitation Report (Qedit)

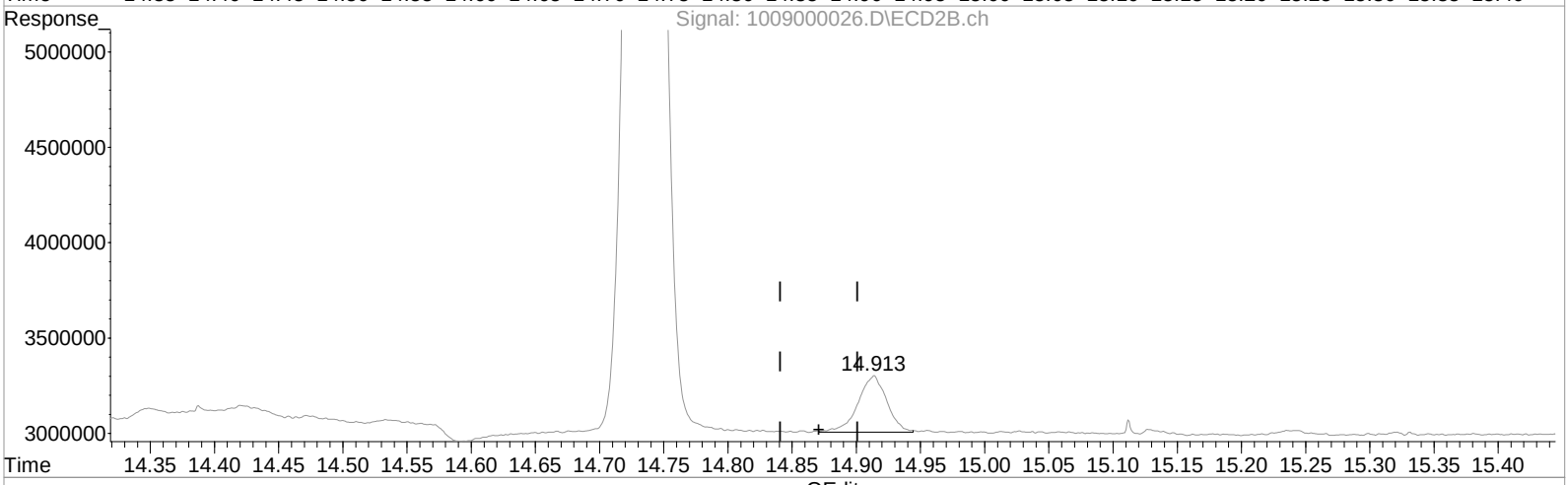
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:13:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(21) Endrin Aldehyde (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

10/11/23

(21) Endrin Aldehyde #2 (m)

14.913min 0.384 ug/L m

response 463738

(+) = Expected Retention Time

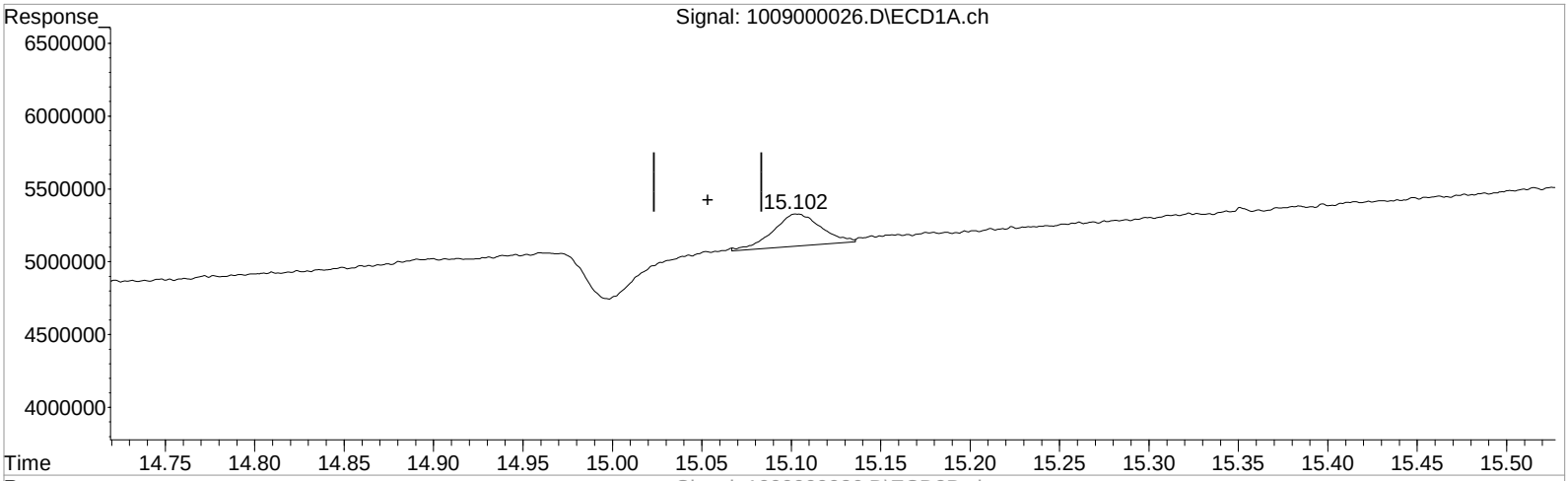
Quantitation Report (Qedit)

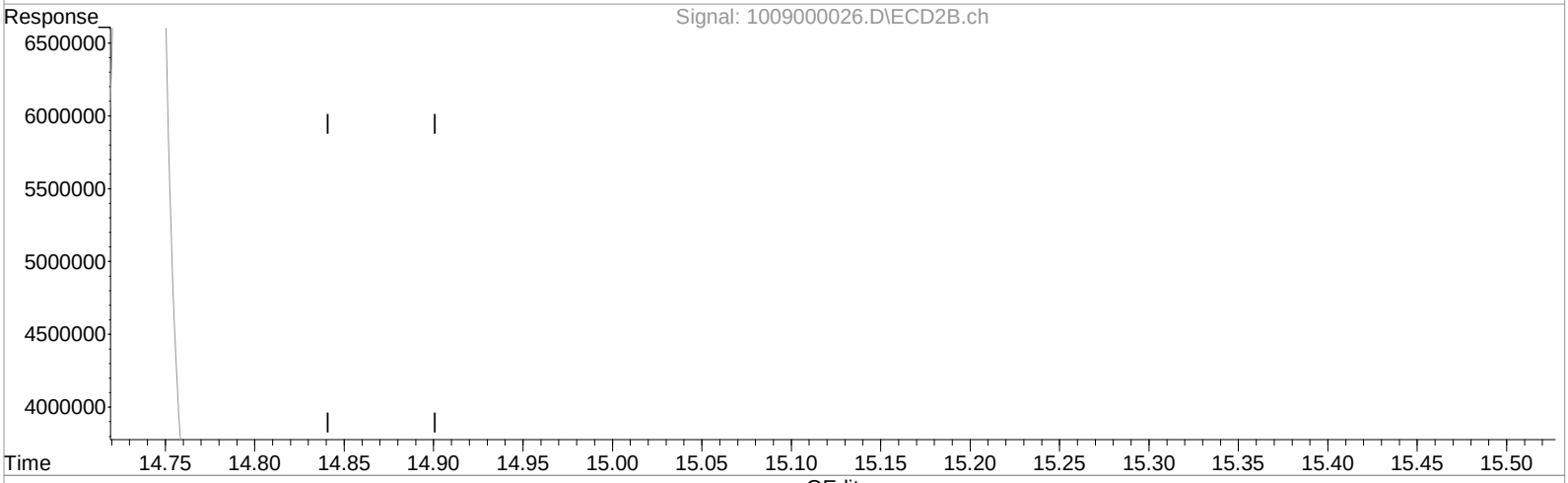
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:13:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(21) Endrin Aldehyde (m)

15.102min 0.303 ug/L m

response 413685

Manual Integration:

After

Missed Peak

10/11/23

(21) Endrin Aldehyde #2 (m)

14.913min 0.384 ug/L m

response 463738

(+) = Expected Retention Time

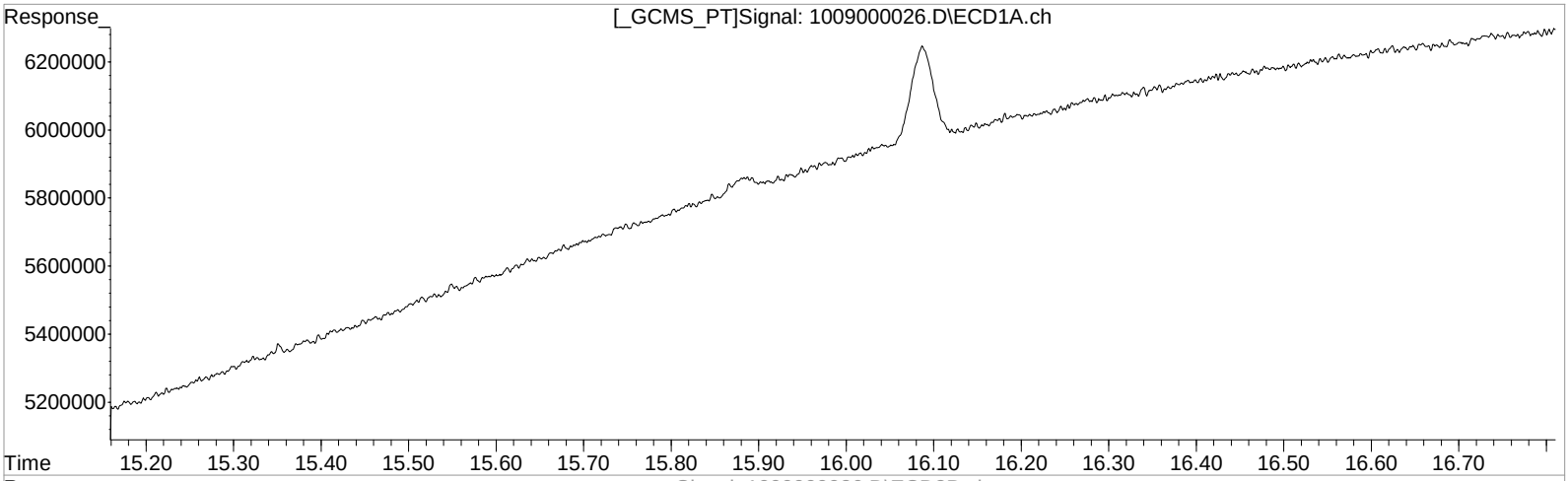
Quantitation Report (Qedit)

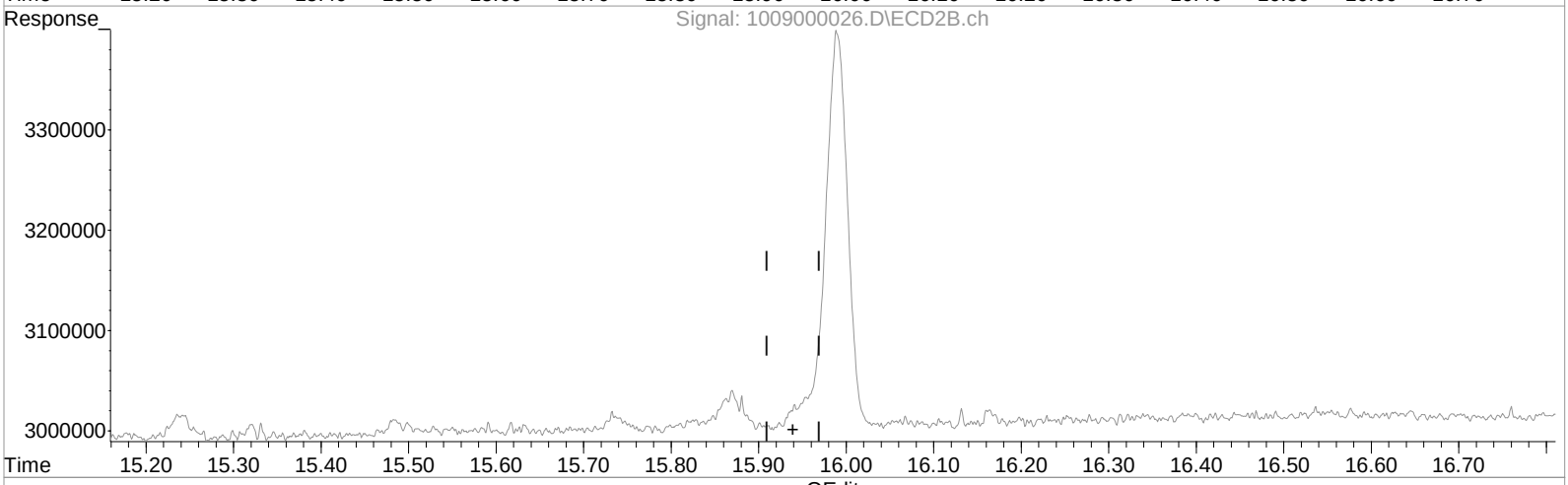
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:12:55 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(24) Endrin Ketone #2 (m)

0.000min 0.000 ug/L

response 0

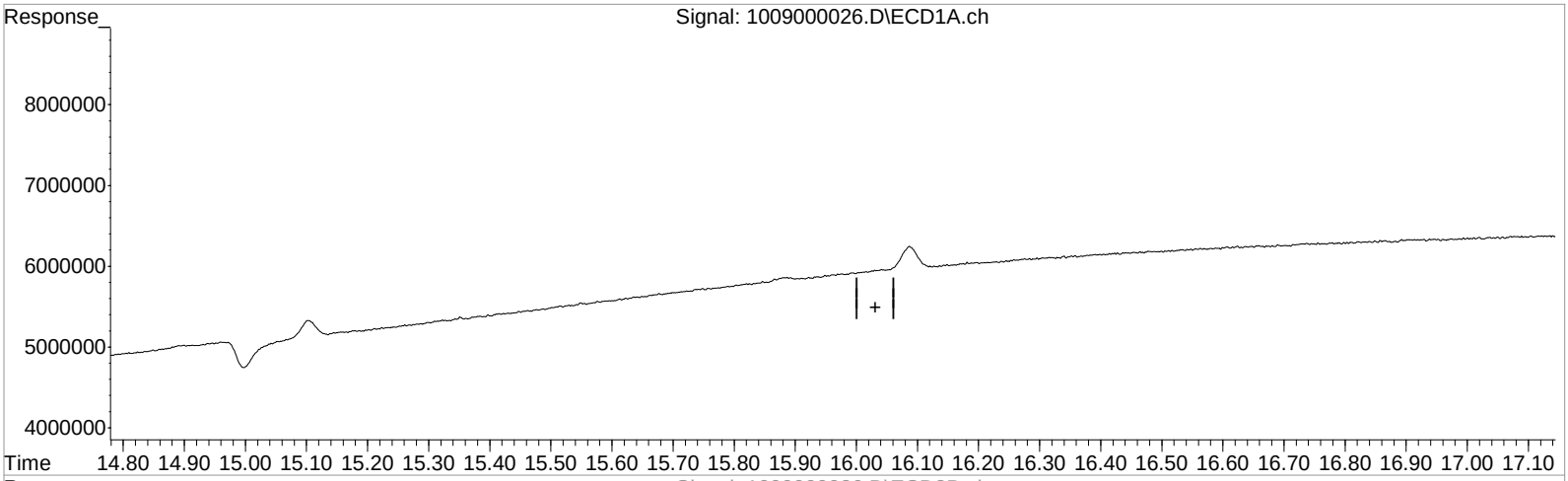
(+) = Expected Retention Time

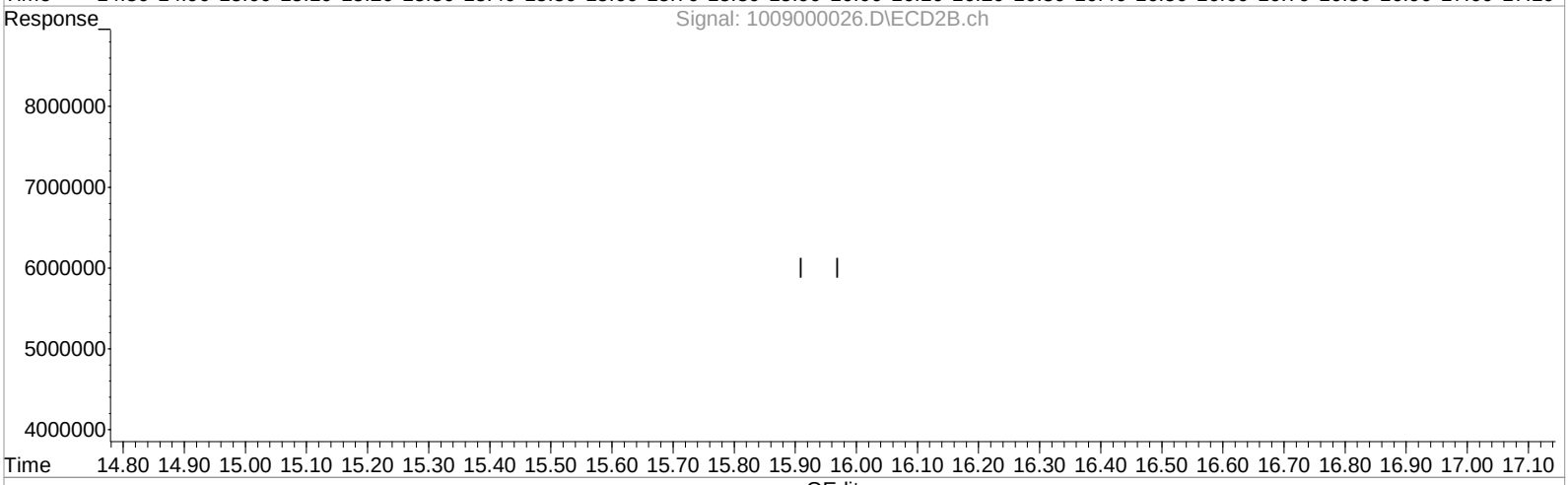
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:12:55 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

Before

10/11/23

(24) Endrin Ketone #2 (m)

15.988min 0.518 ug/L m

response 734147

(+) = Expected Retention Time

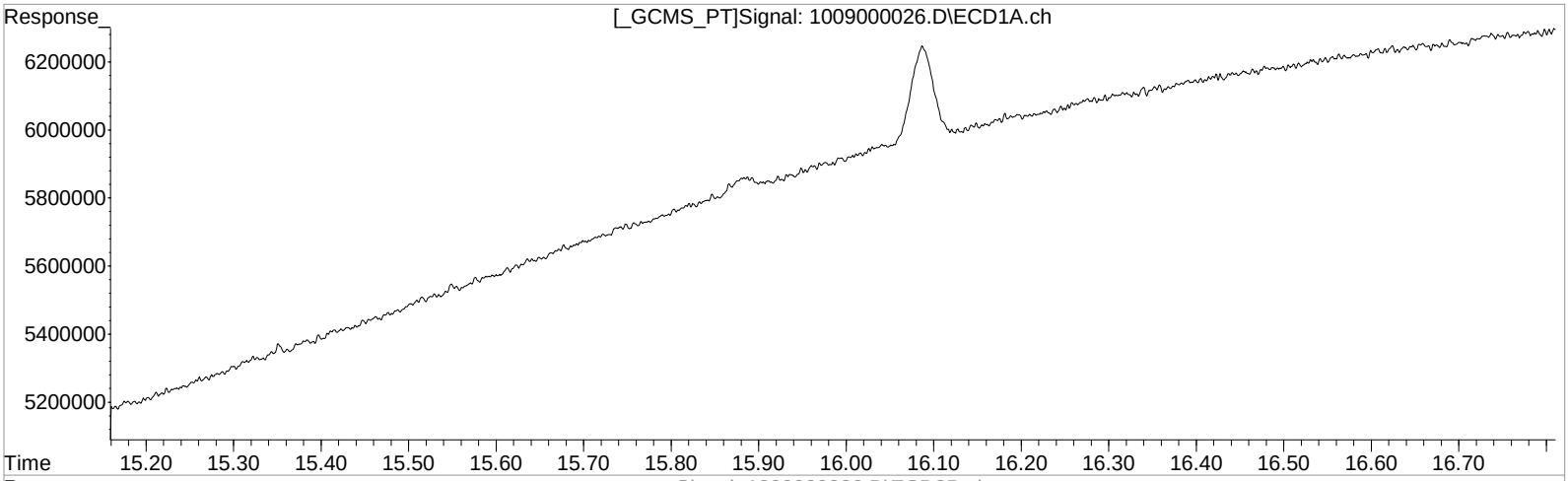
Quantitation Report (Qedit)

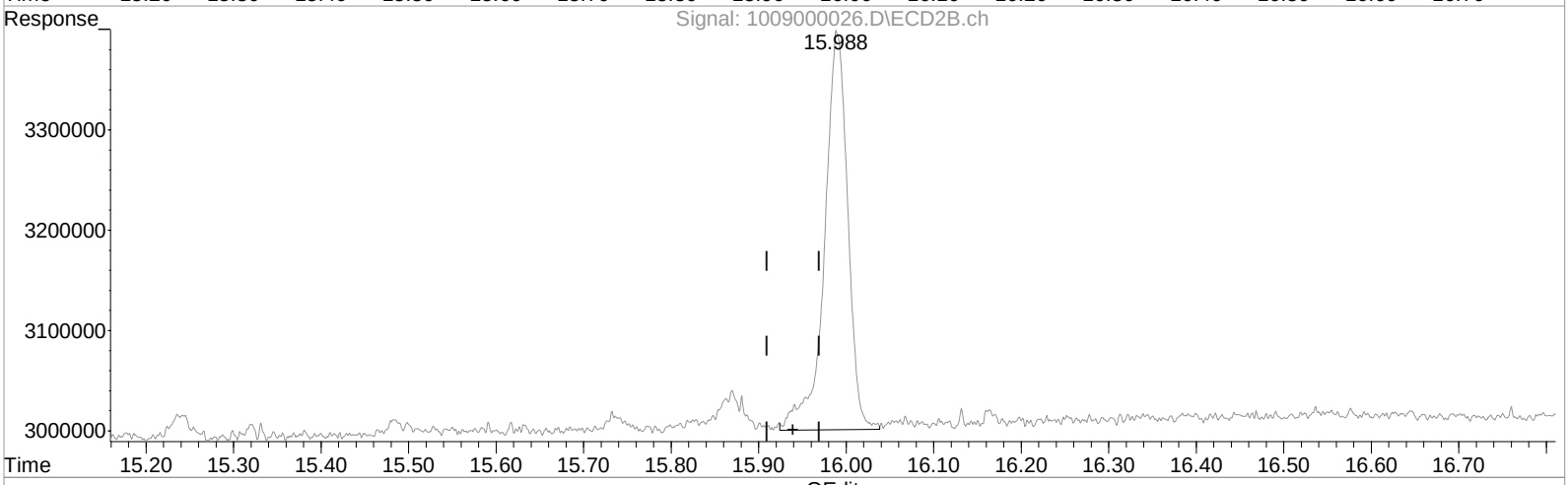
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:12:55 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

0.000min 0.000 ug/L

response 0

Manual Integration:

After

Missed Peak

10/11/23

(24) Endrin Ketone #2 (m)

15.988min 0.518 ug/L m

response 734147

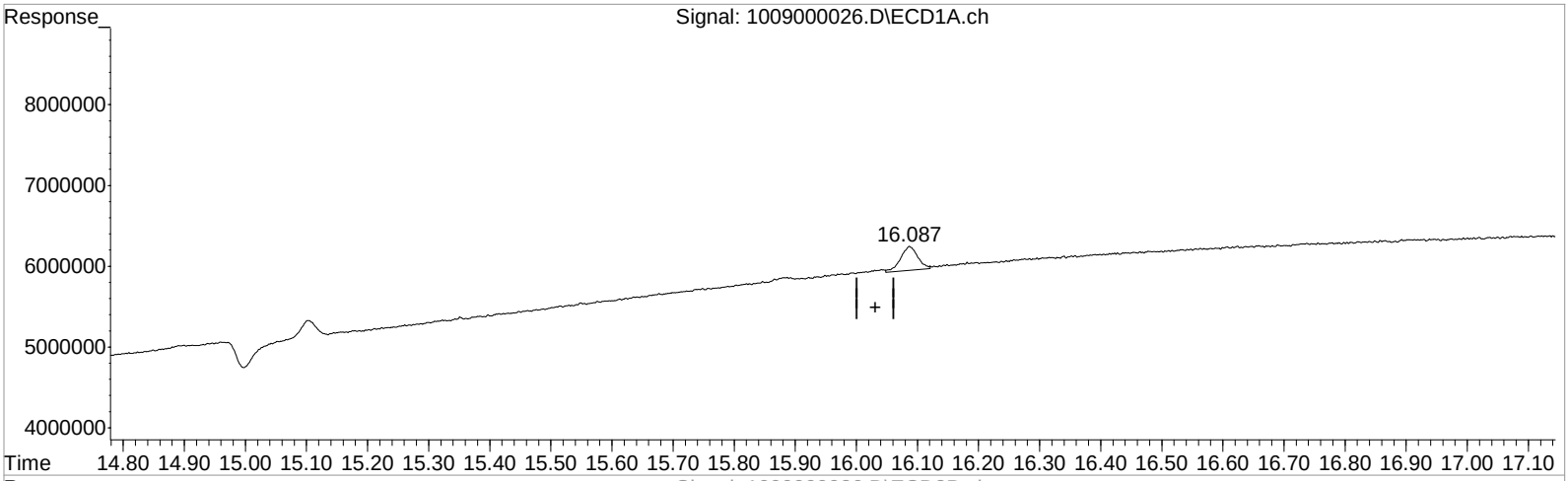
(+) = Expected Retention Time

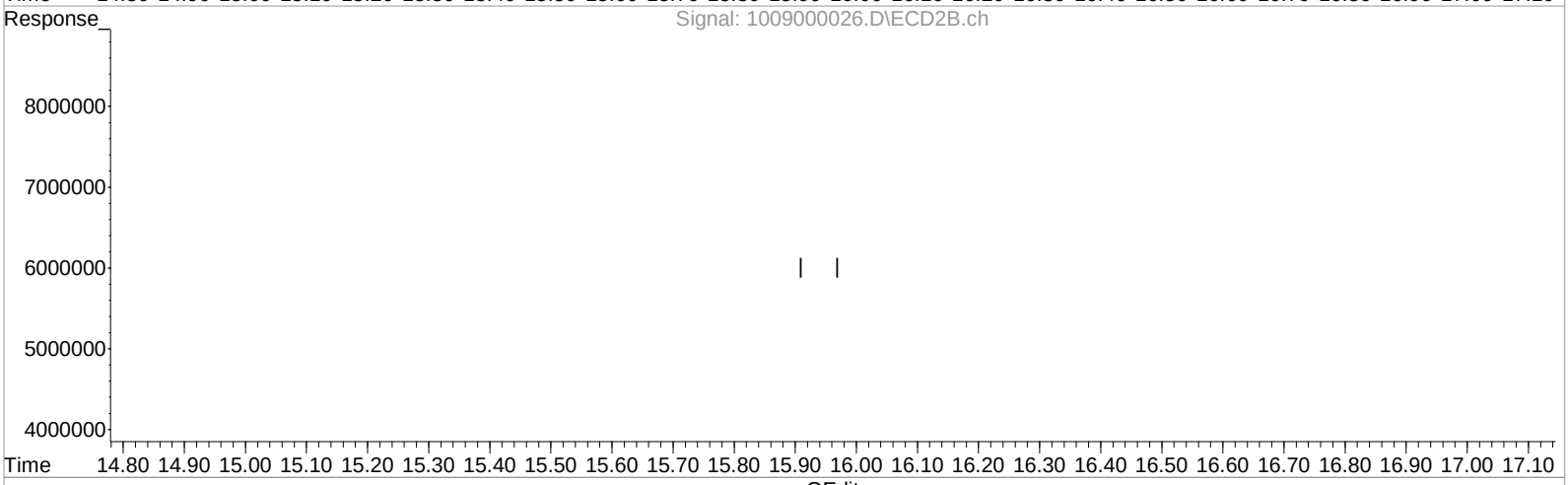
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000026.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 06:28:56 Operator: BB
Sample : PEM Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 11 14:12:55 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Wed Oct 11 12:13:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(24) Endrin Ketone (m)

16.087min 0.326 ug/L m

response 581342

Manual Integration:

After

Missed Peak

10/11/23

(24) Endrin Ketone #2 (m)

15.988min 0.518 ug/L m

response 734147

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000027.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:01:41 Operator: BB
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:39:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
1) I	Pentachlo...	11.057f	10.883f	168.9E6	130.8E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

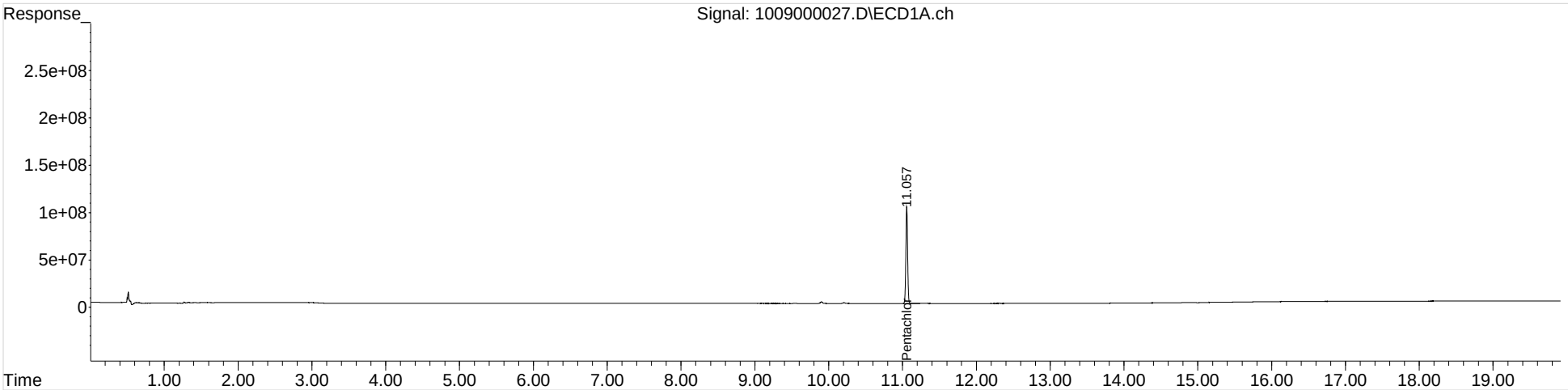
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000027.D Vial: 95
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:01:41 Operator: BB
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:39:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 15:57:11 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100923\1009000028.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:34:32 Operator: BB
Sample : PCB9-47B 25PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:39:55 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
34) I	Pentachlo...	11.058	10.884	166.6E6	128.0E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
35) L3	Aroclor 1016	11.316	11.123	434007	854677	21.175	N.D. #
37) L3	Aroclor 1...	11.436	11.352	1832054	529964	30.738	29.188
38) L3	Aroclor 1...	11.645	11.392	1214066	334717	29.474	28.949
39) L4	Aroclor 1260	15.102	15.227	1708954	3074091	16.700m	20.040
40) L4	Aroclor 1...	15.157	15.323	884004	1464283	30.647	29.450m
41) L4	Aroclor 1...	15.224	15.397	330935	930554	19.865	18.455
42) L4	Aroclor 1...	15.420	15.443	500764	532691	23.201	28.300m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

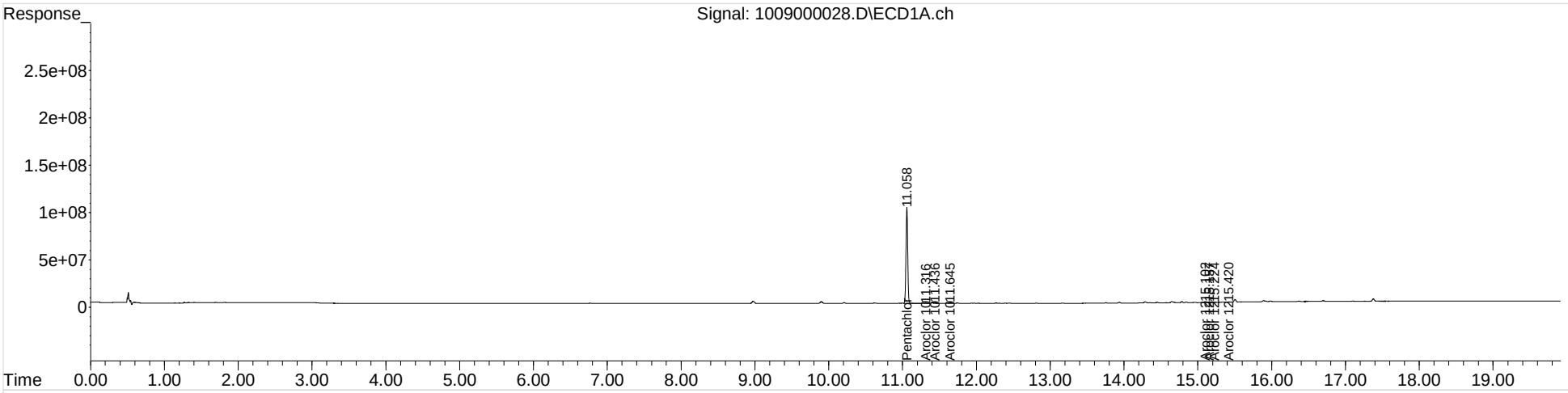
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000028.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:34:32 Operator: BB
Sample : PCB9-47B 25PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:39:55 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



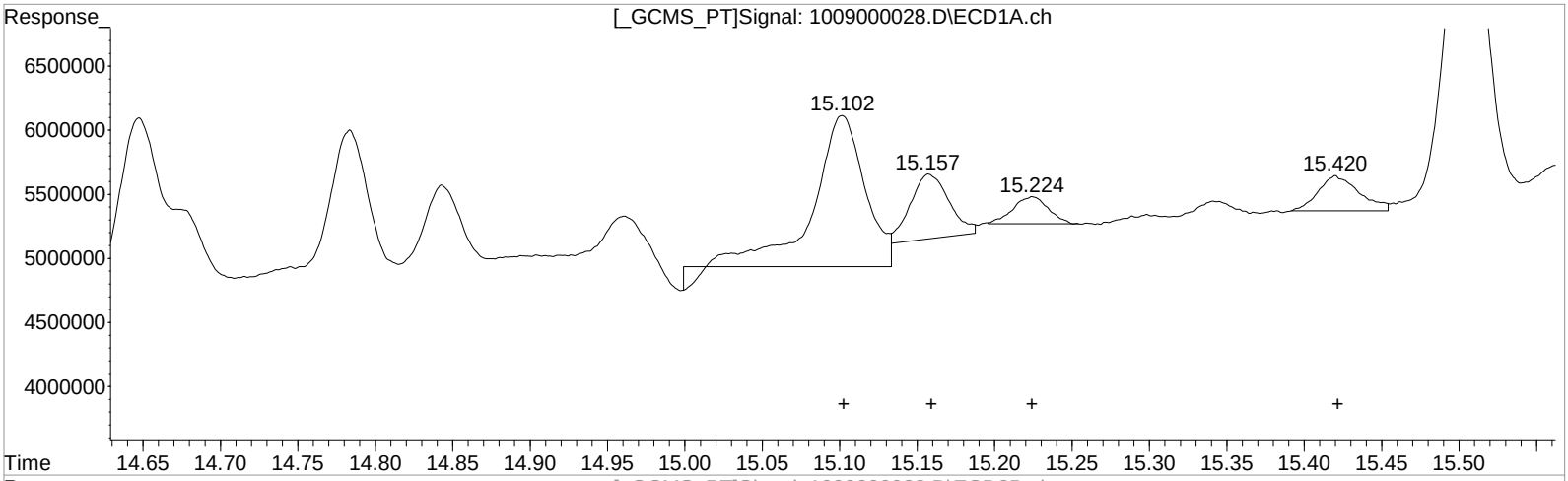
Quantitation Report (Qedit)

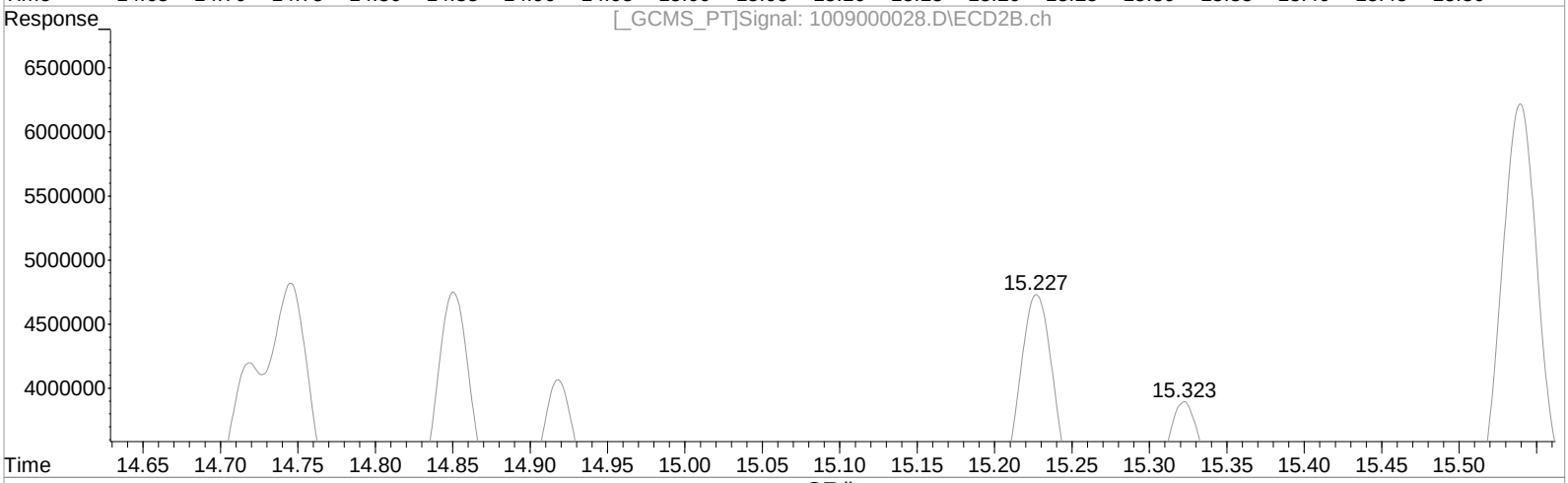
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000028.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:34:32 Operator: BB
Sample : PCB9-47B 25PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 15:06:53 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(39) Aroclor 1260 #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/10/23

(39) Aroclor 1260 #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

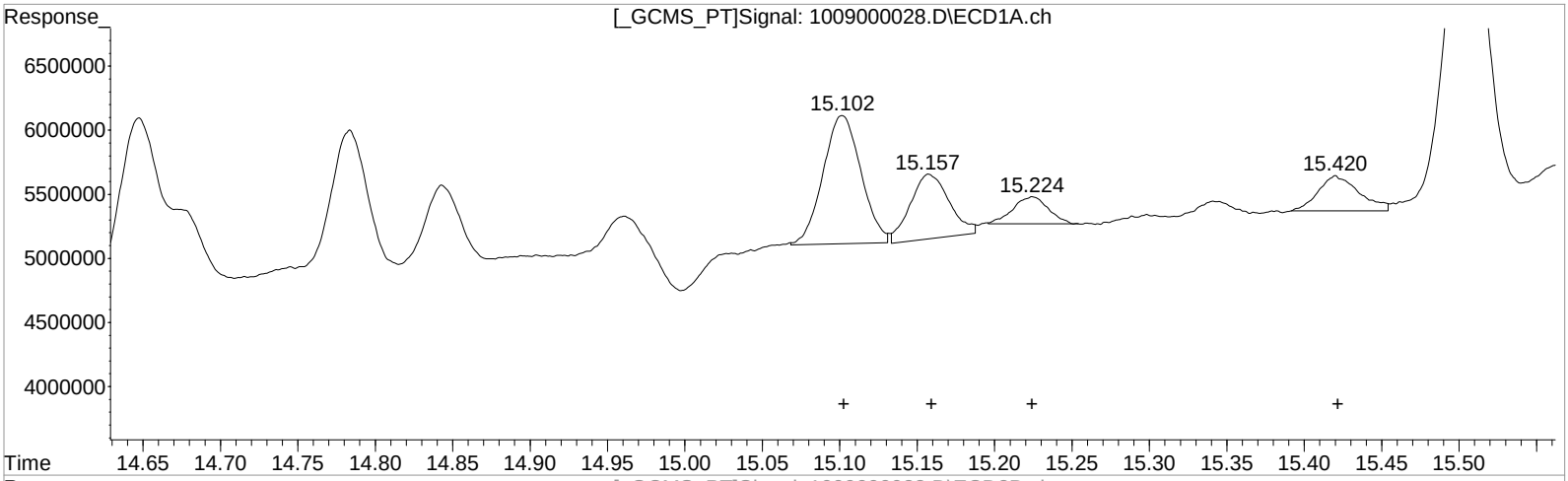
Quantitation Report (Qedit)

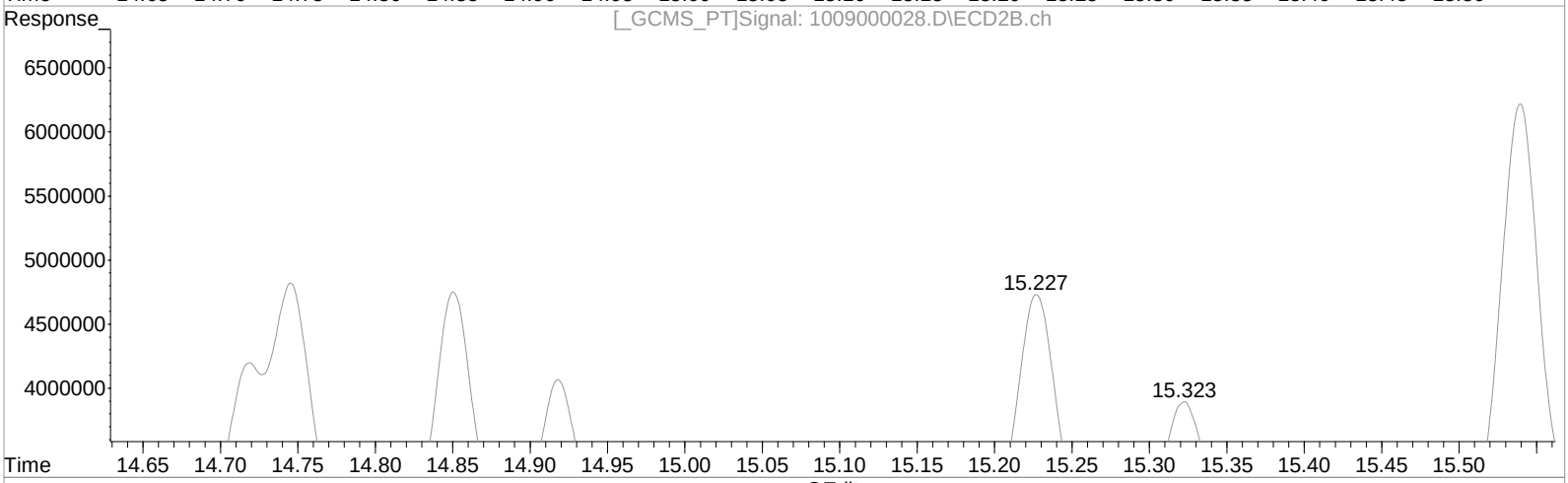
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000028.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:34:32 Operator: BB
Sample : PCB9-47B 25PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 15:06:53 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(39) Aroclor 1260 #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/10/23

(39) Aroclor 1260 #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000028.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:34:32 Operator: BB
Sample : PCB9-47B 25PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 15:06:53 2023
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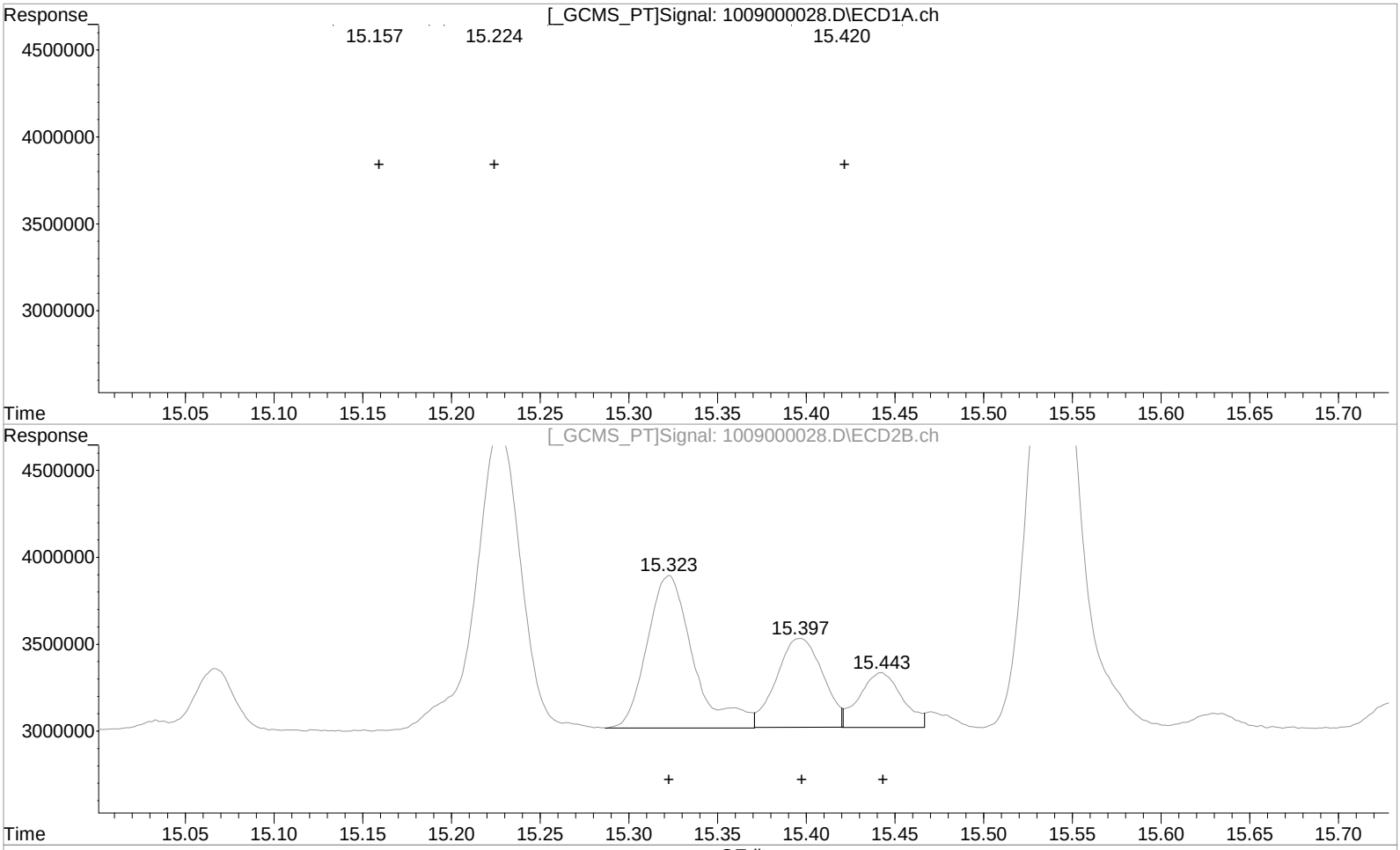
Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(40) Aroclor 1260 {2} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/10/23

(40) Aroclor 1260 {2} #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

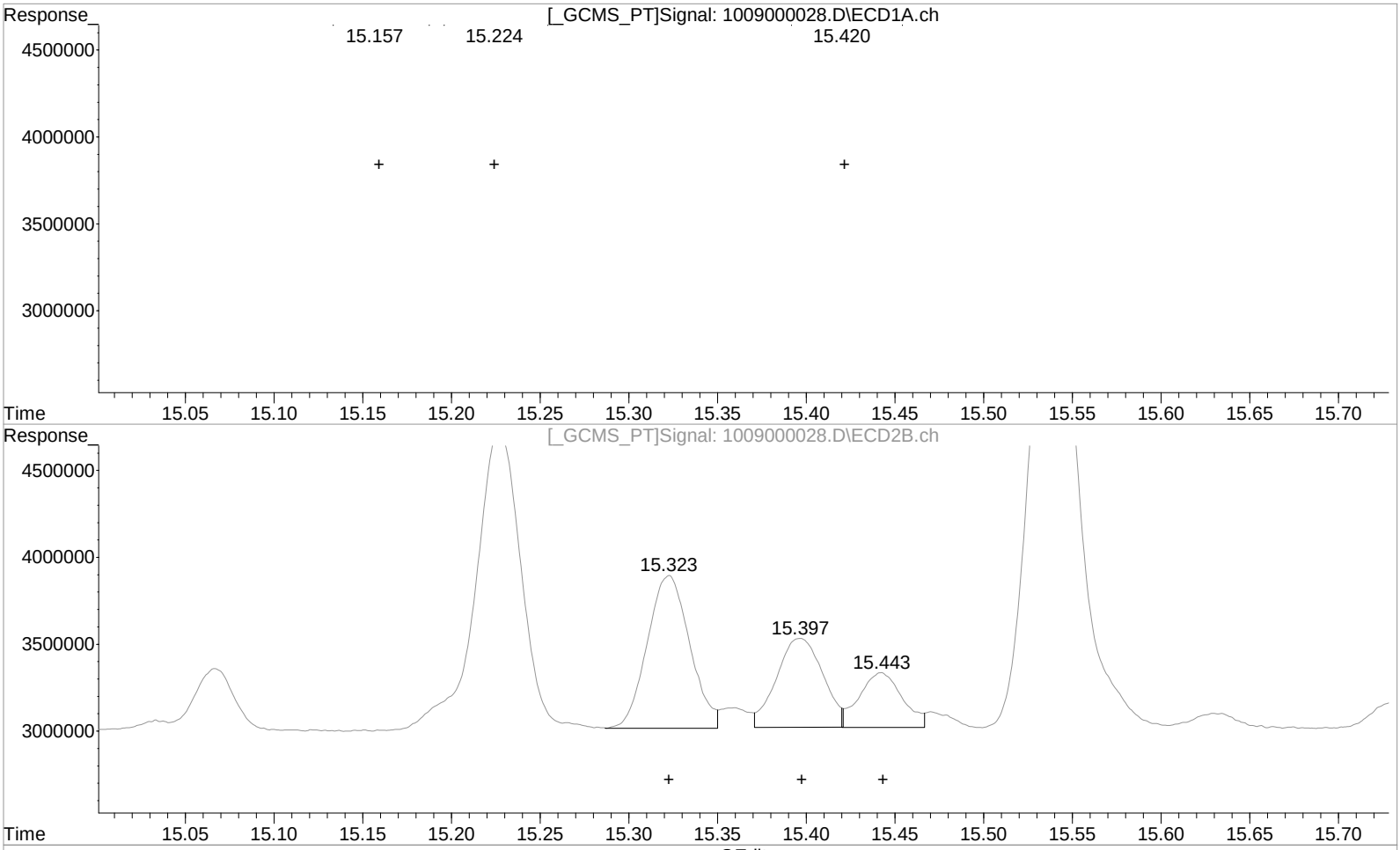
Quantitation Report (Qedit)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000028.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:34:32 Operator: BB
Sample : PCB9-47B 25PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 15:06:53 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(40) Aroclor 1260 {2} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/10/23

(40) Aroclor 1260 {2} #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

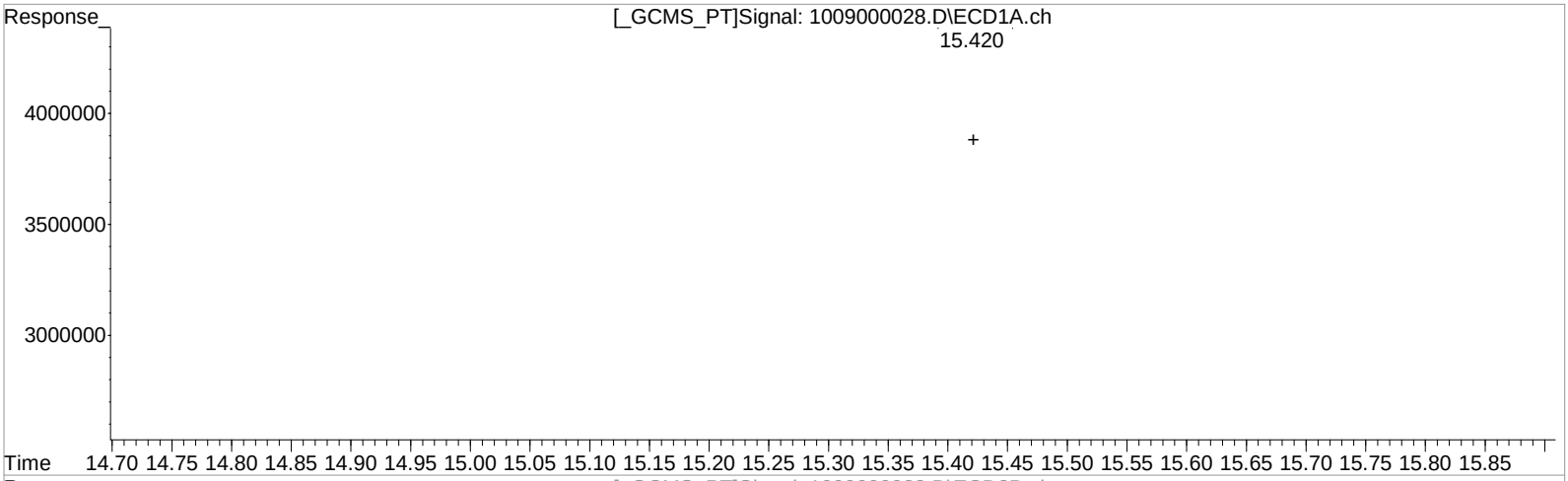
Quantitation Report (Qedit)

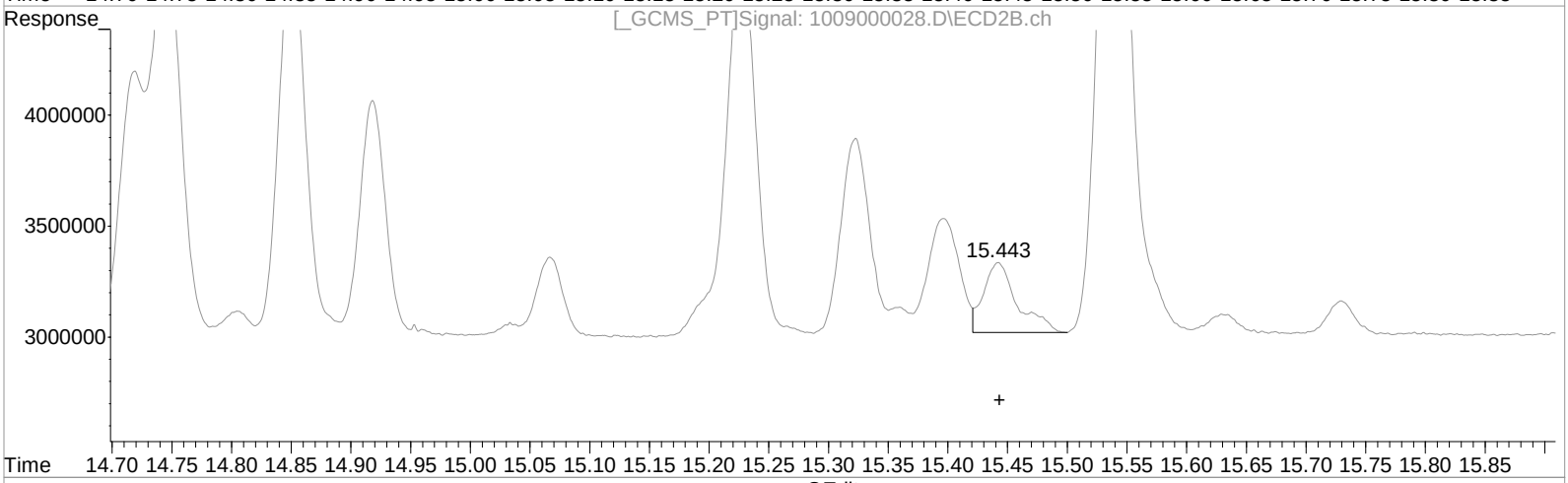
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000028.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:34:32 Operator: BB
Sample : PCB9-47B 25PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

11.058min 50.000 ug/L

response 166573249

Manual Integration:

Before

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

10.884min 50.000 ug/L

response 127964828

(+) = Expected Retention Time

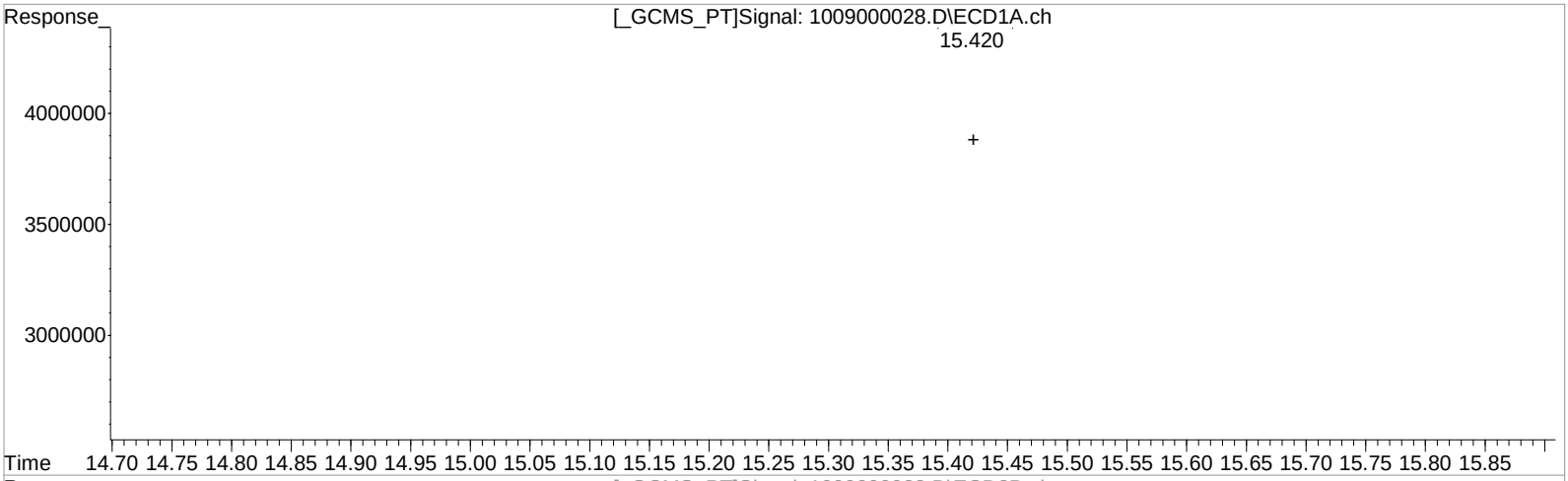
Quantitation Report (Qedit)

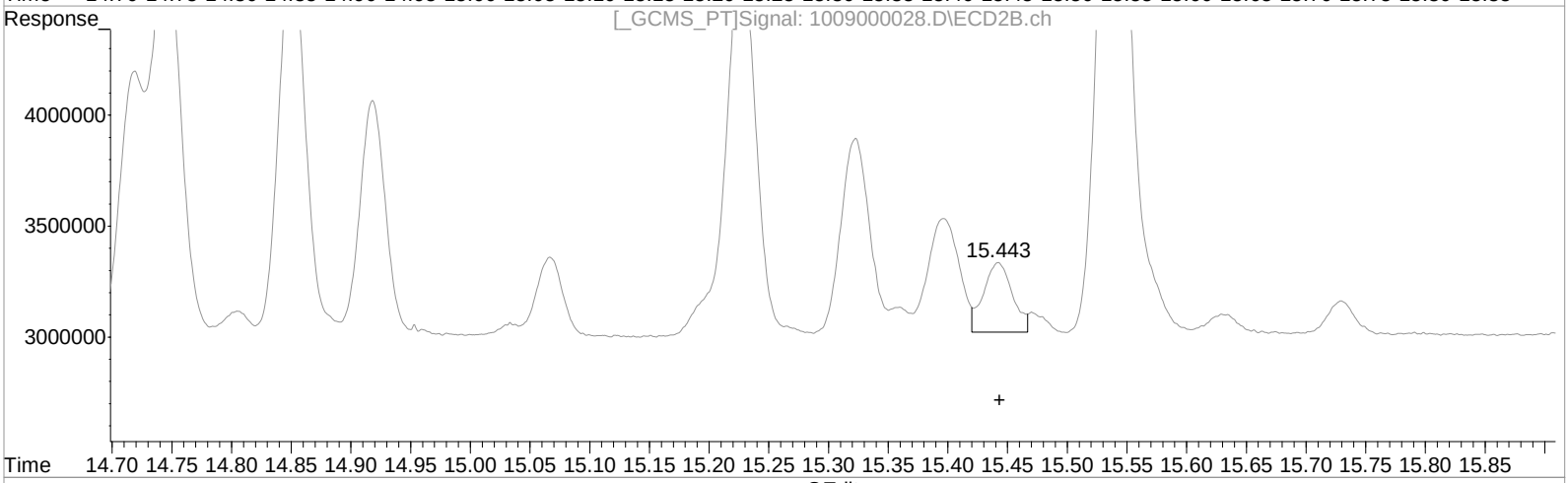
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000028.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 07:34:32 Operator: BB
Sample : PCB9-47B 25PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:08 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

11.058min 50.000 ug/L

response 166573249

Manual Integration:

After

Baseline/Shoulder

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

10.884min 50.000 ug/L

response 127964828

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000029.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:07:17 Operator: BB
Sample : PCB9-47B 50PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:40:15 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
34) I	Pentachlo...	11.058	10.885	163.1E6	121.8E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
35) L3	Aroclor 1016	11.315	11.122	759557	2238353	45.811	54.359
36) L3	Aroclor 1...	11.397	11.175	3366199	2543420	57.672	45.011
37) L3	Aroclor 1...	11.436	11.352	3357591	1000769	57.540	57.893
38) L3	Aroclor 1...	11.646	11.392	2300291	636433	57.042	57.816
39) L4	Aroclor 1260	15.102	15.227	3686403	5478632	58.305m	53.384
40) L4	Aroclor 1...	15.158	15.322	1333329	2689477	47.214	56.814m
41) L4	Aroclor 1...	15.223	15.395	825550	1795492	50.616	55.147
42) L4	Aroclor 1...	15.421	15.442	810083	1043526	47.430	58.229m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

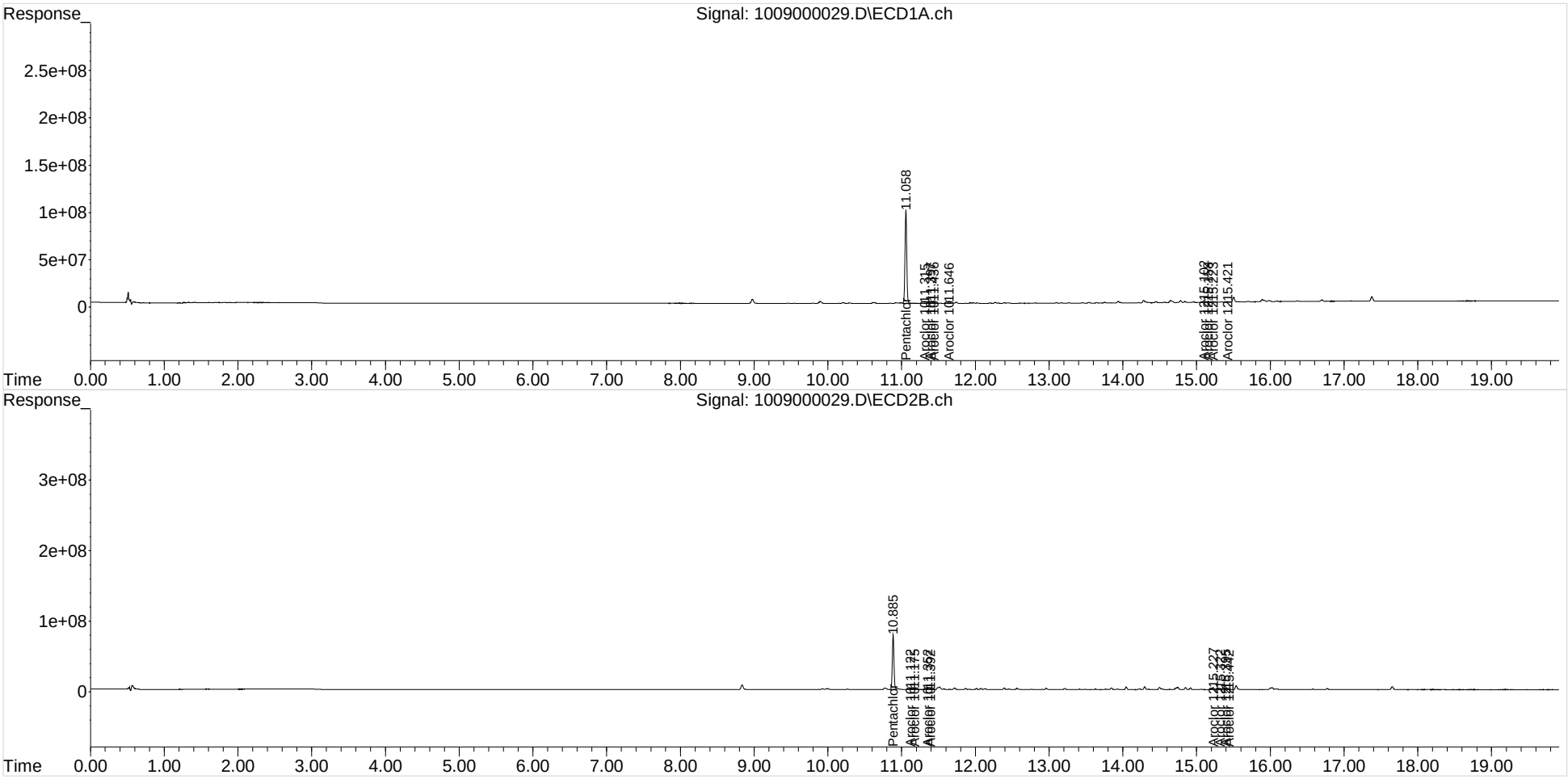
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000029.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:07:17 Operator: BB
Sample : PCB9-47B 50PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:40:15 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (Qedit)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000029.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:07:17 Operator: BB
Sample : PCB9-47B 50PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 14:27:19 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
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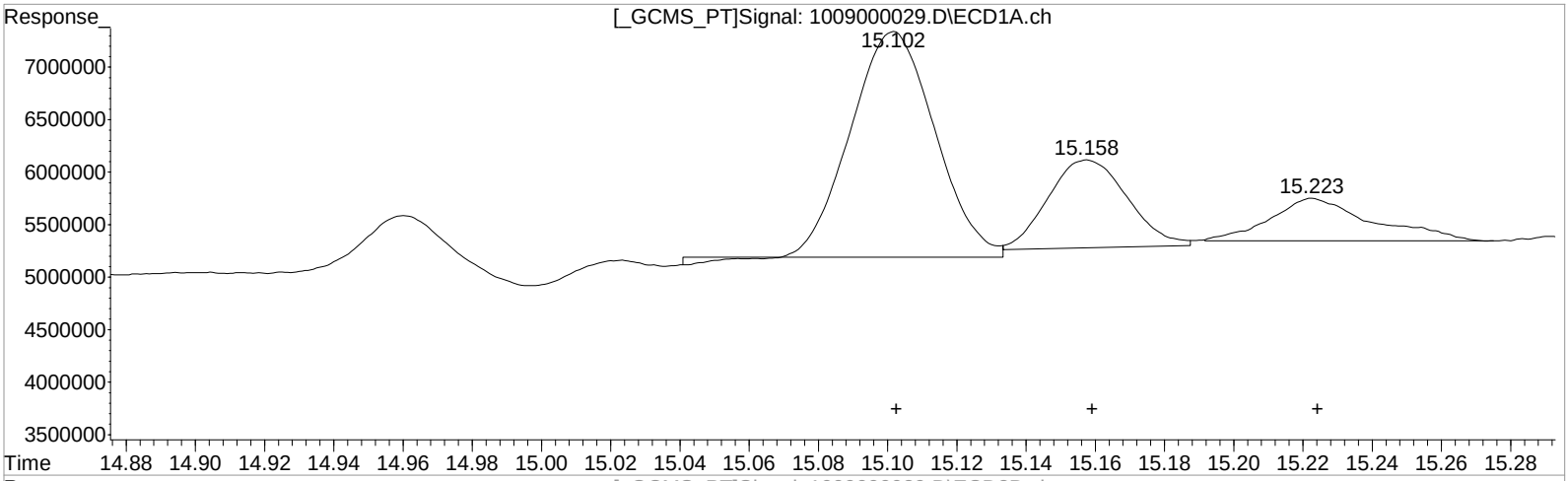
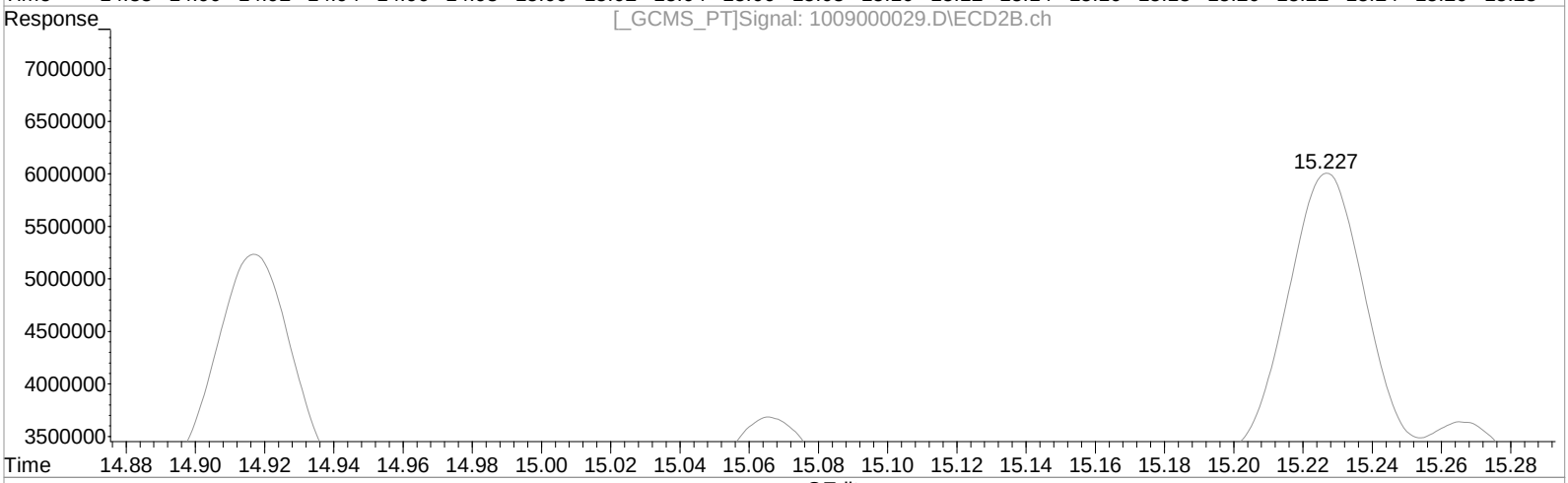
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(39) Aroclor 1260 #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/10/23

(39) Aroclor 1260 #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

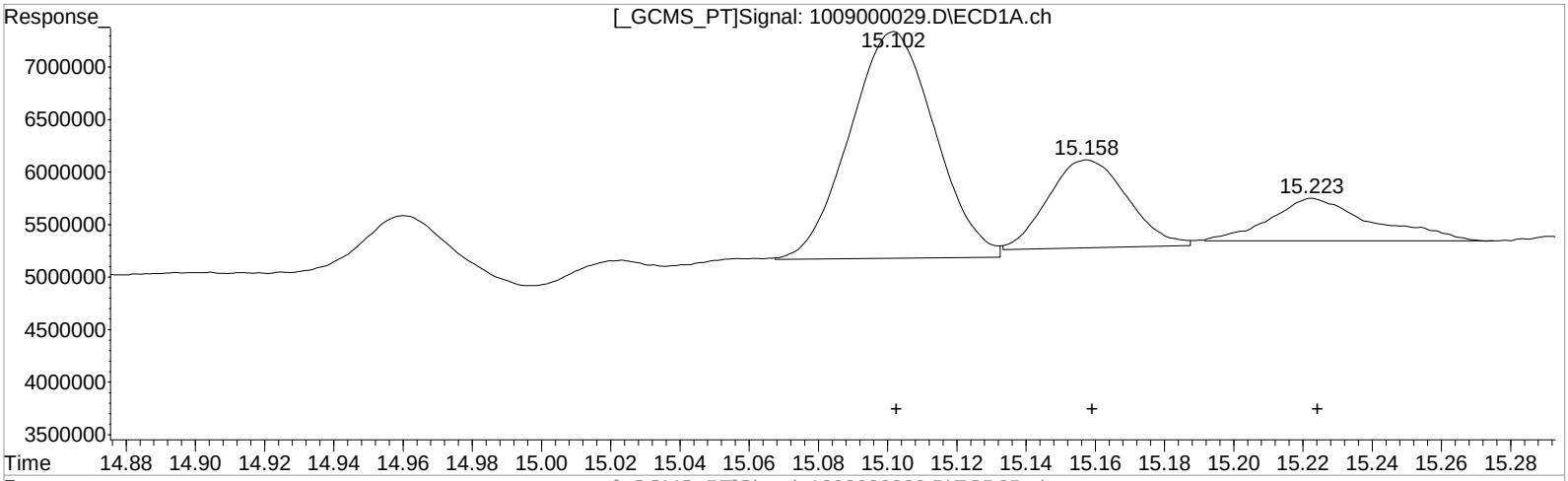
Quantitation Report (Qedit)

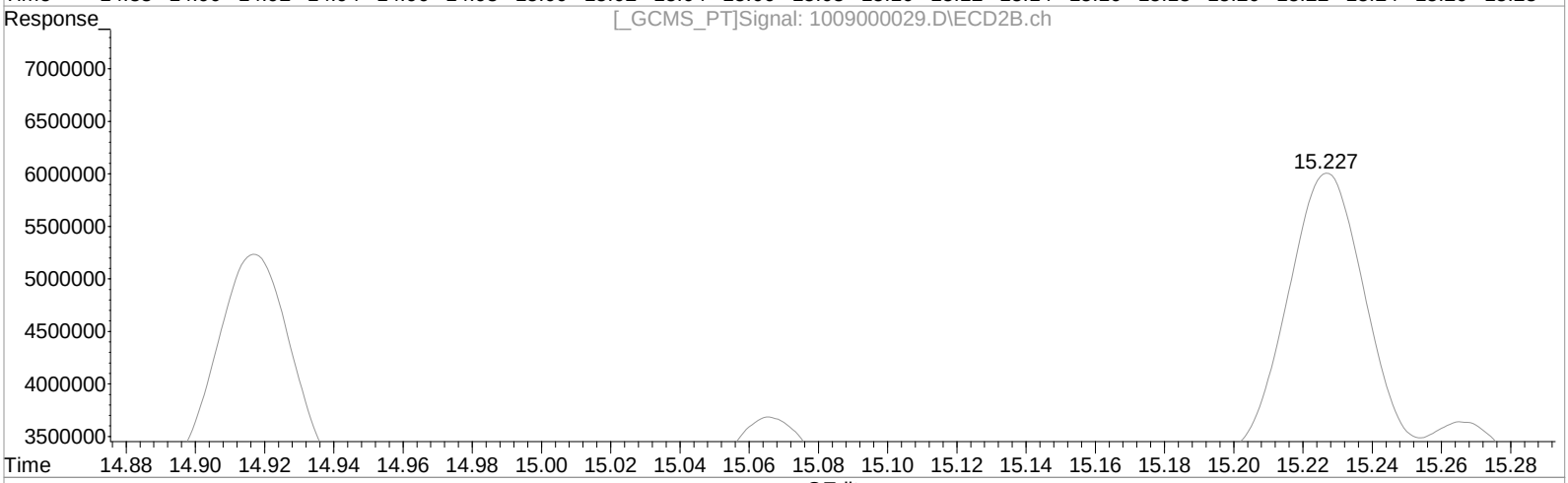
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000029.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:07:17 Operator: BB
Sample : PCB9-47B 50PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 14:27:19 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(39) Aroclor 1260 #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/10/23

(39) Aroclor 1260 #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

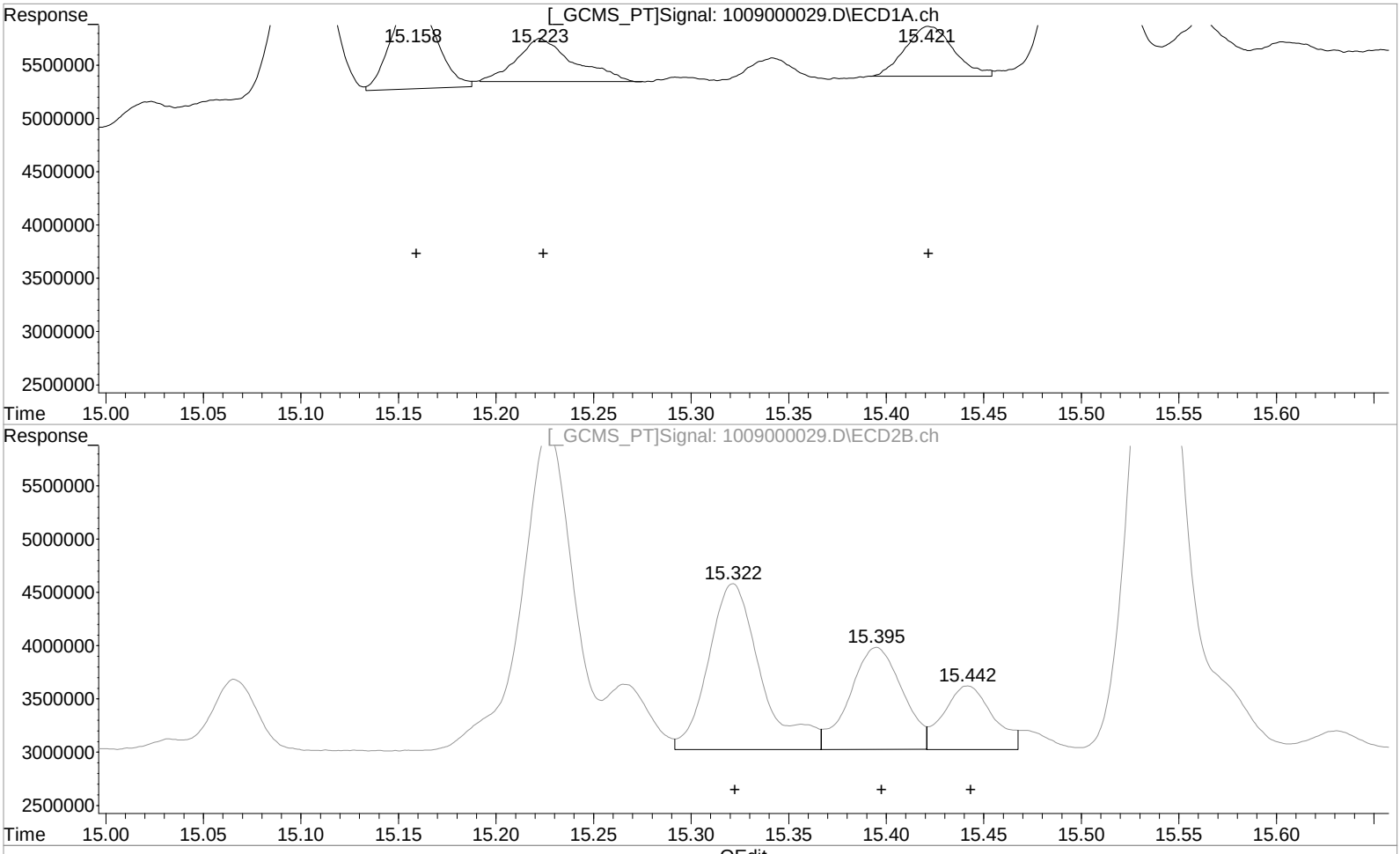
Quantitation Report (Qedit)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000029.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:07:17 Operator: BB
Sample : PCB9-47B 50PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 14:27:19 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



QEdit

(40) Aroclor 1260 {2} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/10/23

(40) Aroclor 1260 {2} #2 (L4)

0.000min 0.000 ug/L d

response 0

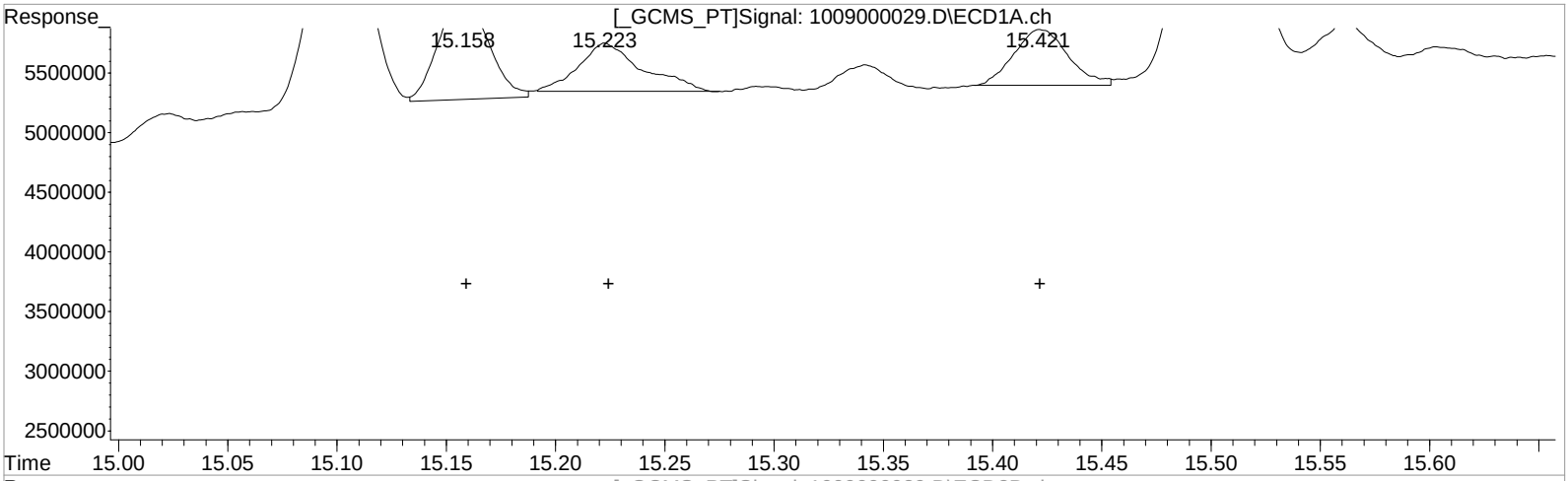
(+) = Expected Retention Time

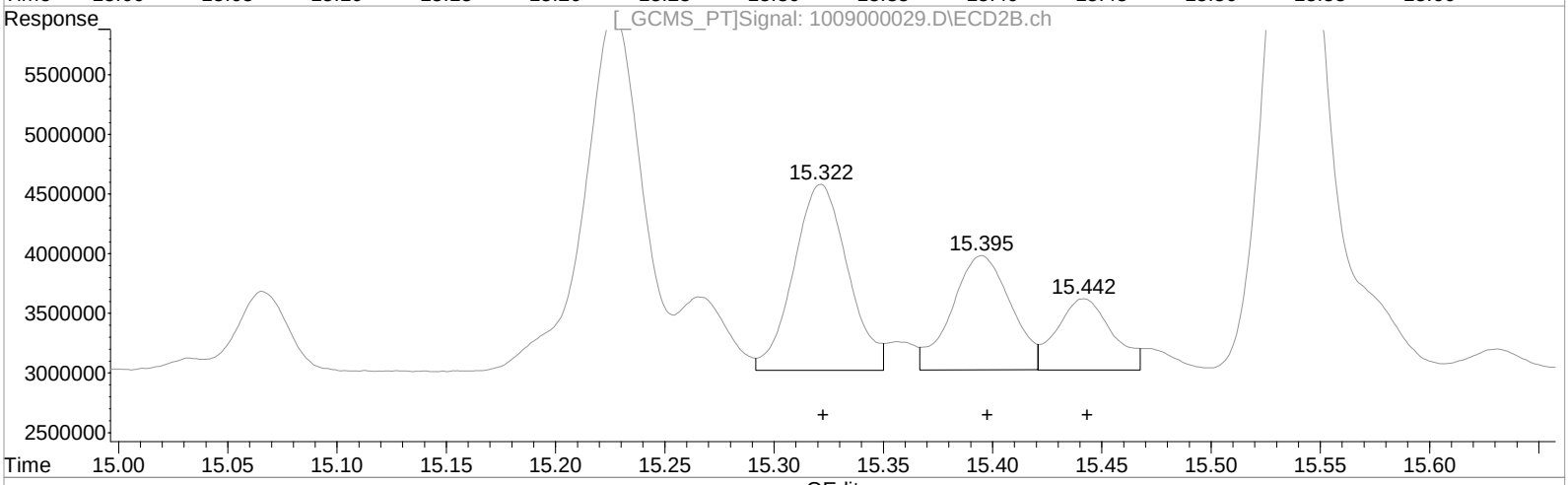
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000029.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:07:17 Operator: BB
Sample : PCB9-47B 50PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 14:27:19 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(40) Aroclor 1260 {2} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/10/23

(40) Aroclor 1260 {2} #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

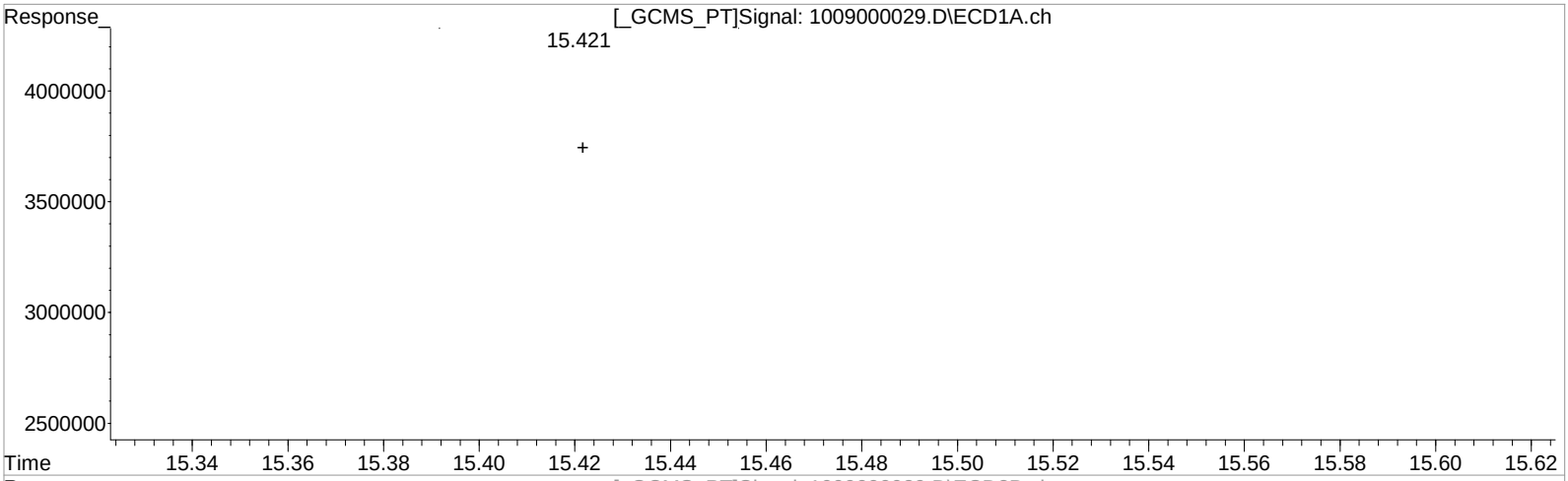
Quantitation Report (Qedit)

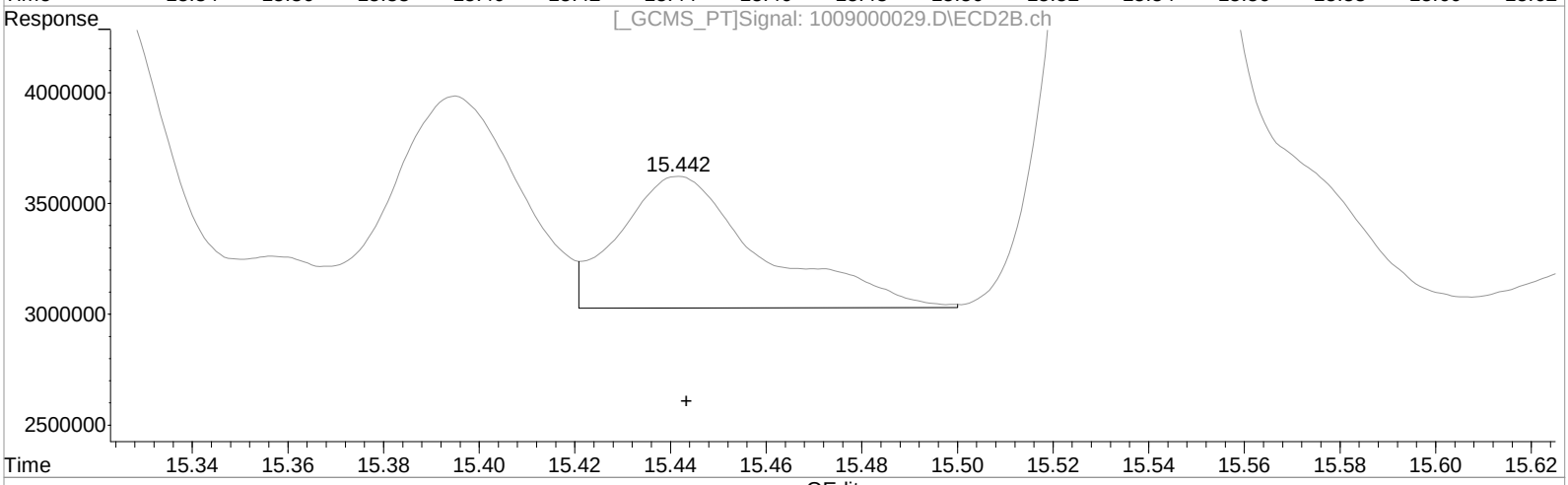
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000029.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:07:17 Operator: BB
Sample : PCB9-47B 50PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 14:21:34 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

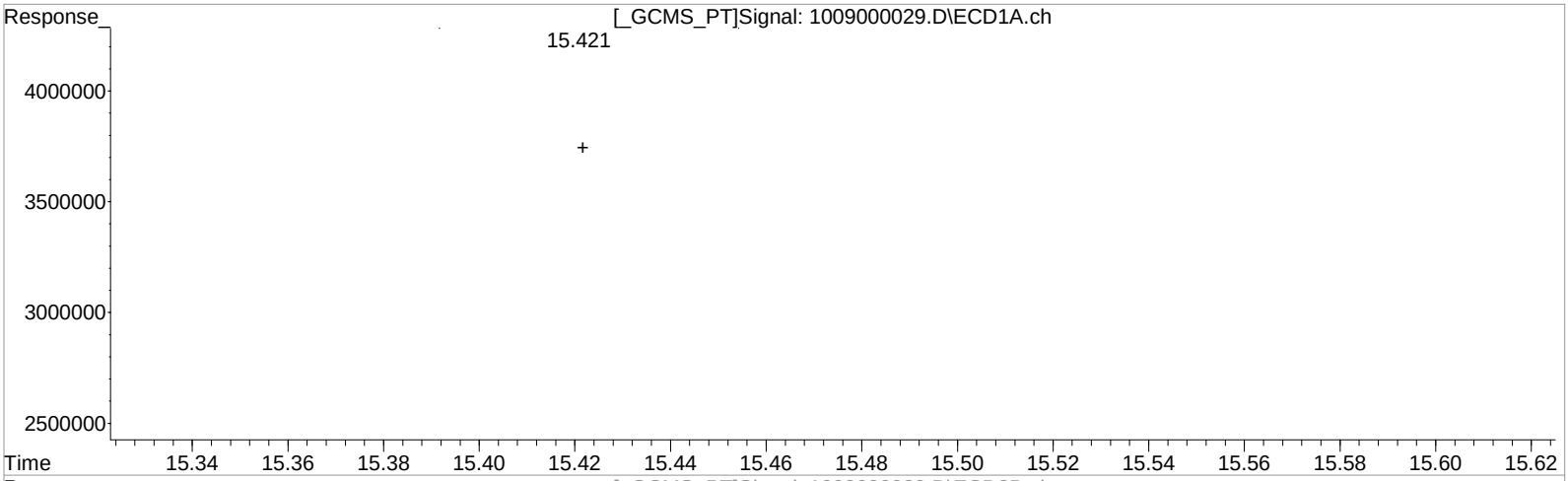
Quantitation Report (Qedit)

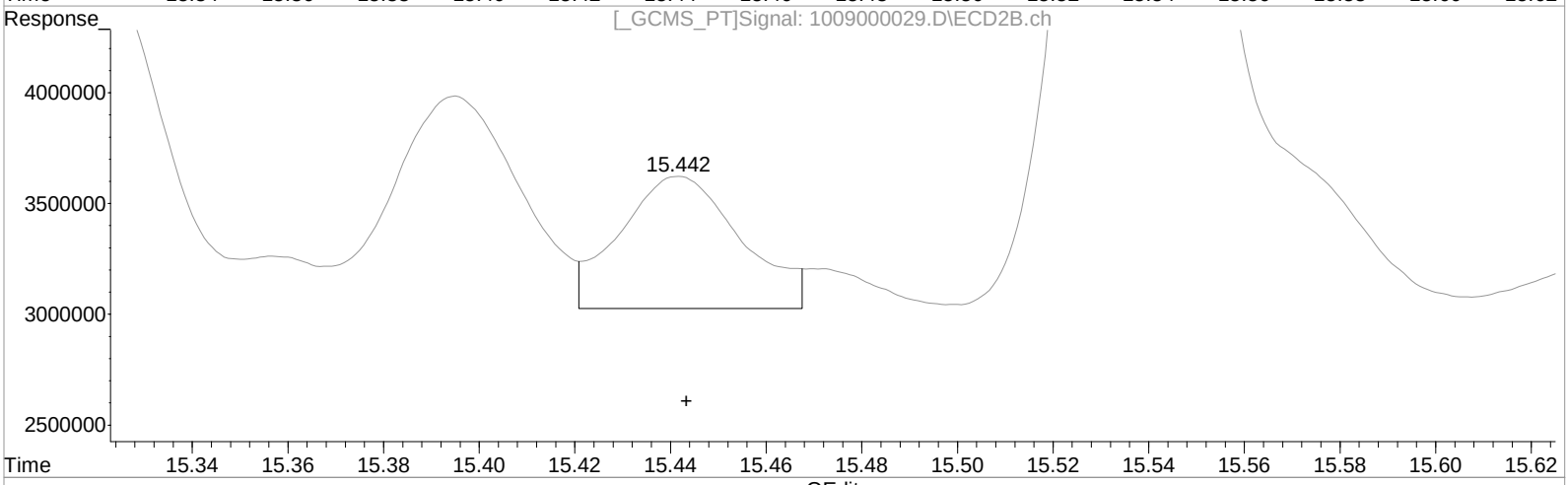
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000029.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:07:17 Operator: BB
Sample : PCB9-47B 50PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 14:21:34 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000030.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:40:13 Operator: BB
Sample : PCB9-47B 100PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:40:34 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
34) I	Pentachlo...	11.057	10.885	162.6E6	123.3E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
35) L3	Aroclor 1016	11.316	11.123	1571230	3031897	105.919	87.766
36) L3	Aroclor 1...	11.402	11.175	4255089	4444070	86.571	104.667
37) L3	Aroclor 1...	11.437	11.351	6210156	1884818	106.750	107.772
38) L3	Aroclor 1...	11.645	11.391	4374615	1224042	108.812	109.909
39) L4	Aroclor 1260	15.101	15.227	6649046	9948375	119.948	110.283
40) L4	Aroclor 1...	15.158	15.322	3127828	4792283	111.098	100.063
41) L4	Aroclor 1...	15.223	15.396	1883461	3234704	115.832	111.698m
42) L4	Aroclor 1...	15.422	15.442	1620089	1781300	109.169	98.247m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

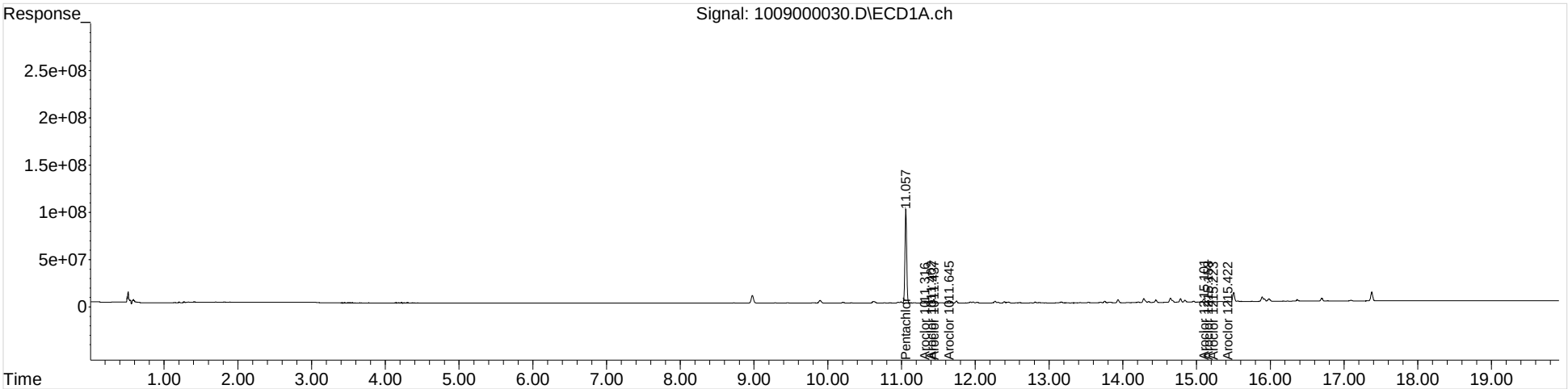
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000030.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:40:13 Operator: BB
Sample : PCB9-47B 100PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:40:34 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



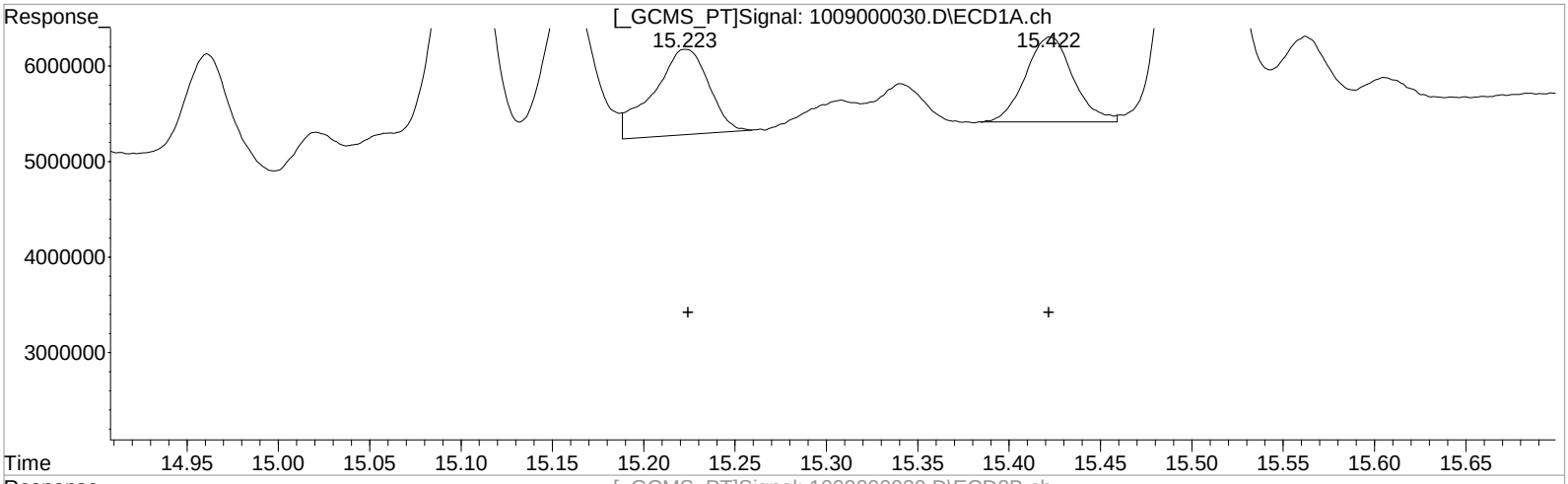
Quantitation Report (Qedit)

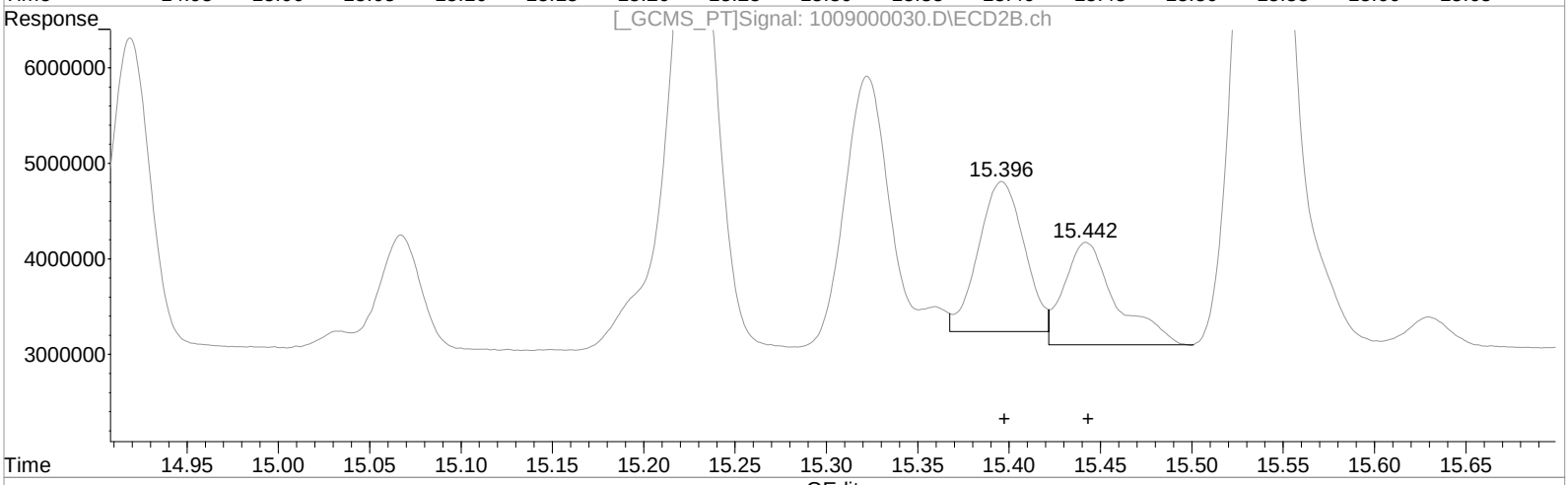
1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100923\1009000030.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:40:13 Operator: BB
Sample : PCB9-47B 100PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:20 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(41) Aroclor 1260 {3} #2 (L4)

11.057min 50.000 ug/L

response 162581339

Manual Integration:

Before

10/10/23

(41) Aroclor 1260 {3} #2 (L4)

10.885min 50.000 ug/L

response 123257365

(+) = Expected Retention Time

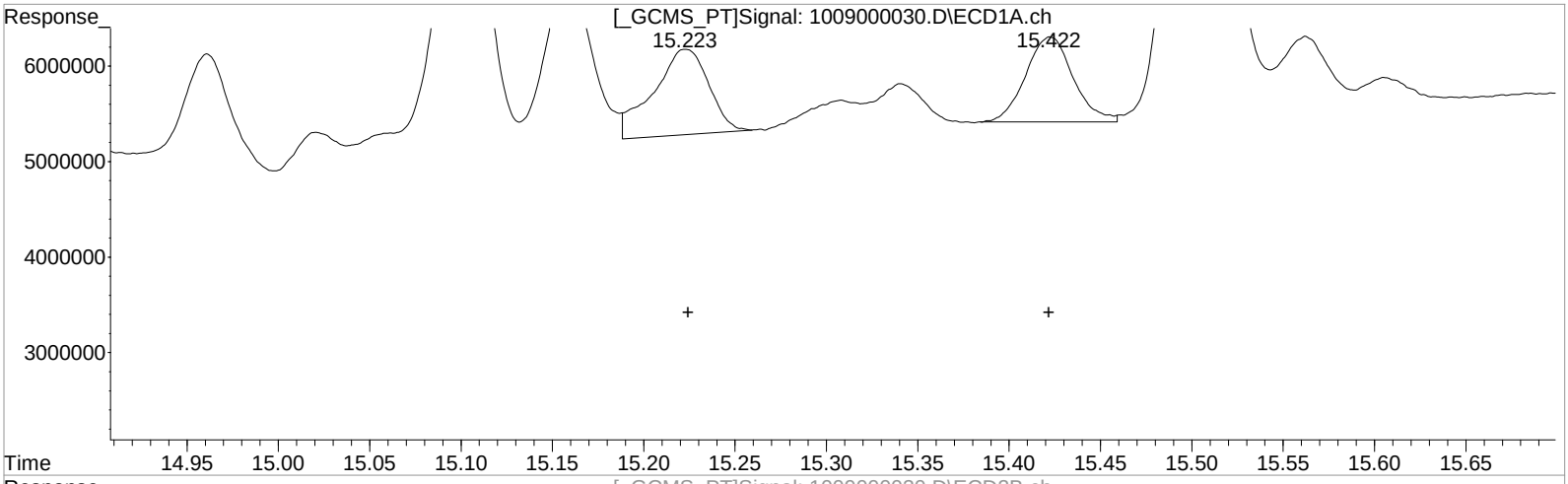
Quantitation Report (Qedit)

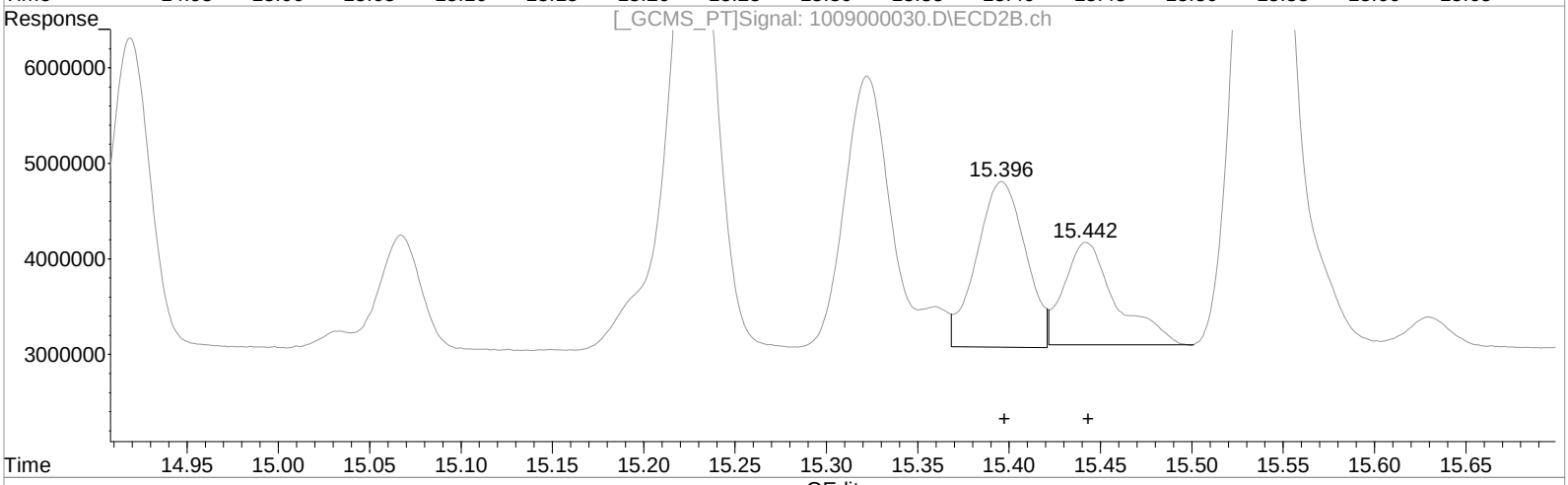
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000030.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:40:13 Operator: BB
Sample : PCB9-47B 100PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:20 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(41) Aroclor 1260 {3} #2 (L4)

11.057min 50.000 ug/L

response 162581339

Manual Integration:

After

Baseline/Shoulder

10/10/23

(41) Aroclor 1260 {3} #2 (L4)

10.885min 50.000 ug/L

response 123257365

(+) = Expected Retention Time

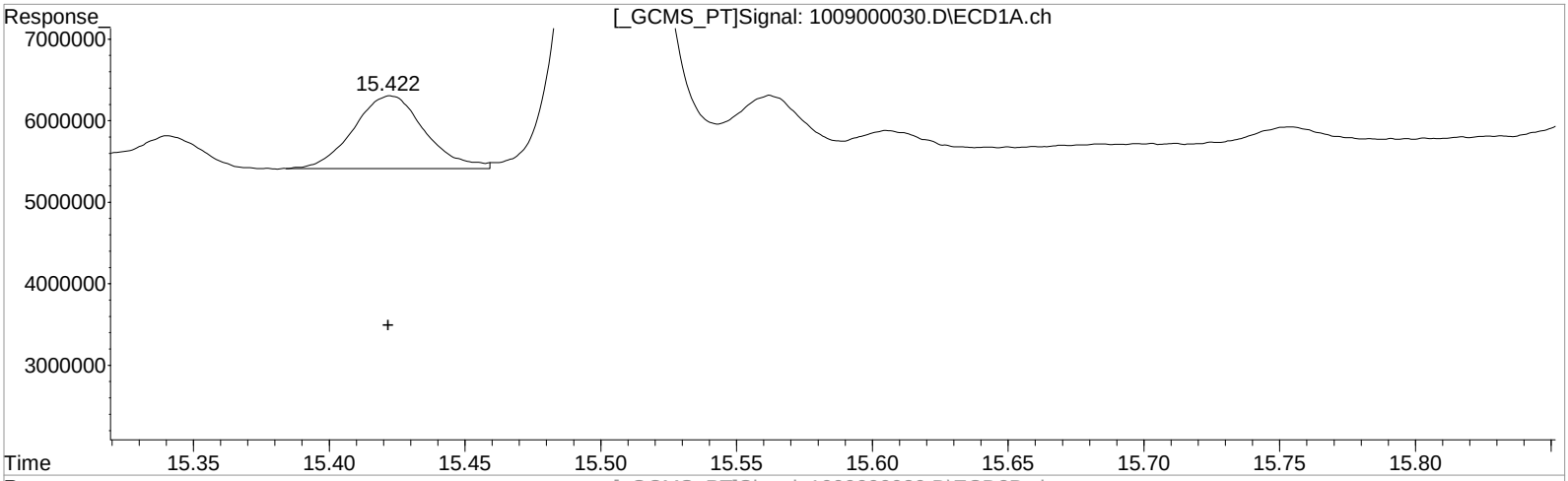
Quantitation Report (Qedit)

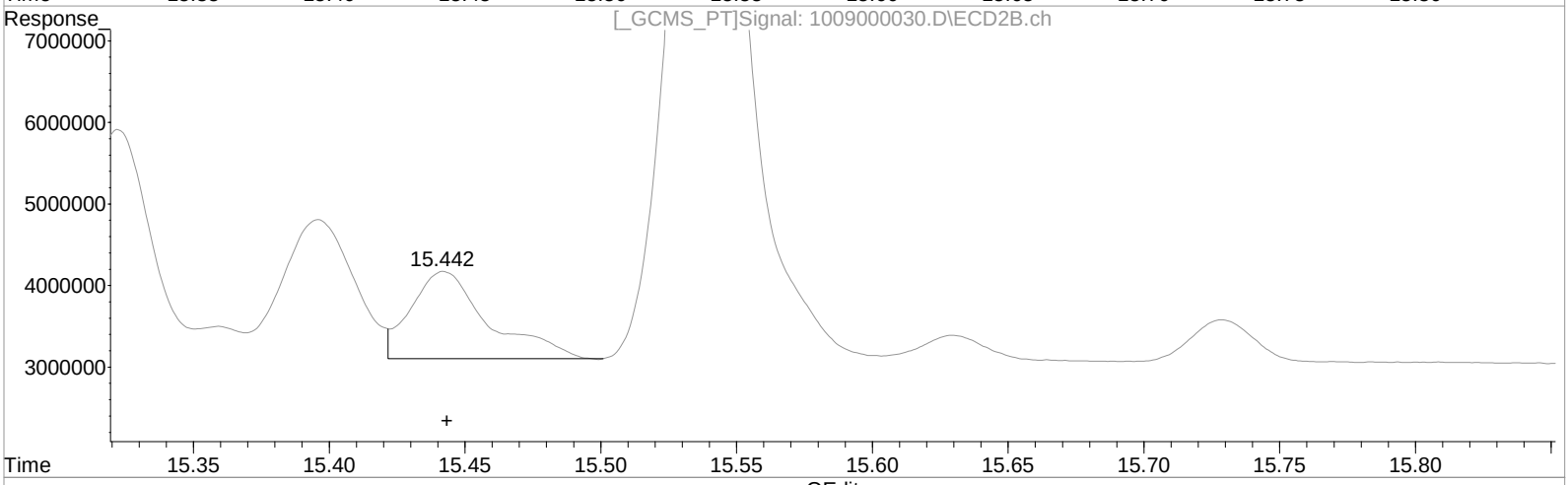
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000030.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:40:13 Operator: BB
Sample : PCB9-47B 100PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:20 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

11.057min 50.000 ug/L

response 162581339

Manual Integration:

Before

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

10.885min 50.000 ug/L

response 123257365

(+) = Expected Retention Time

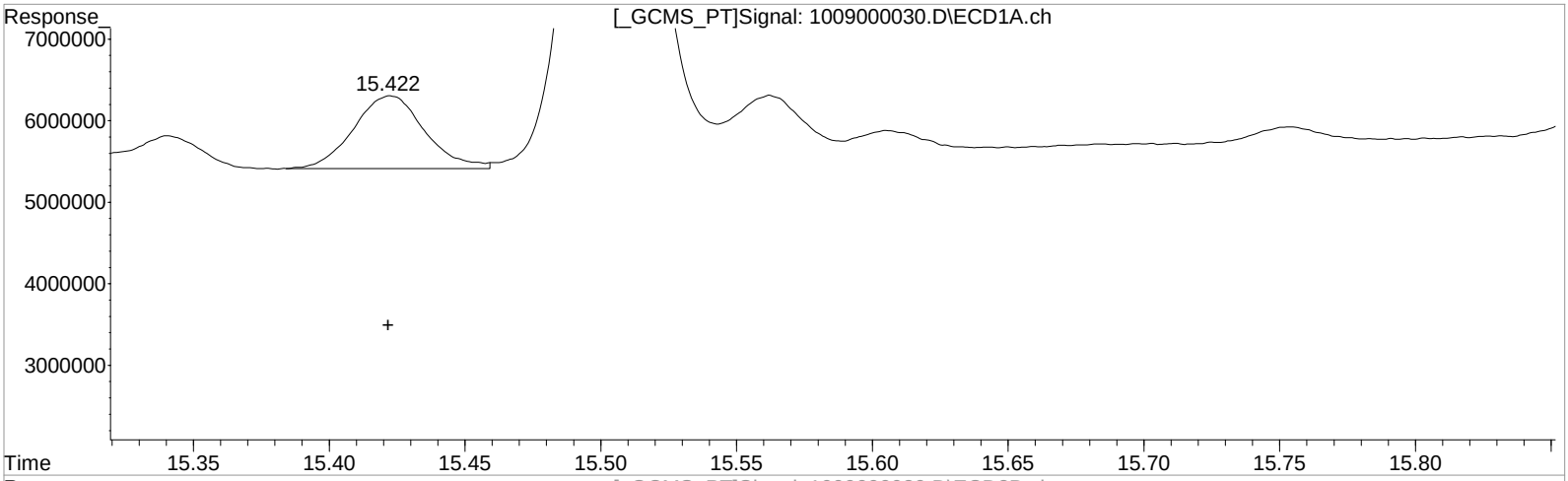
Quantitation Report (Qedit)

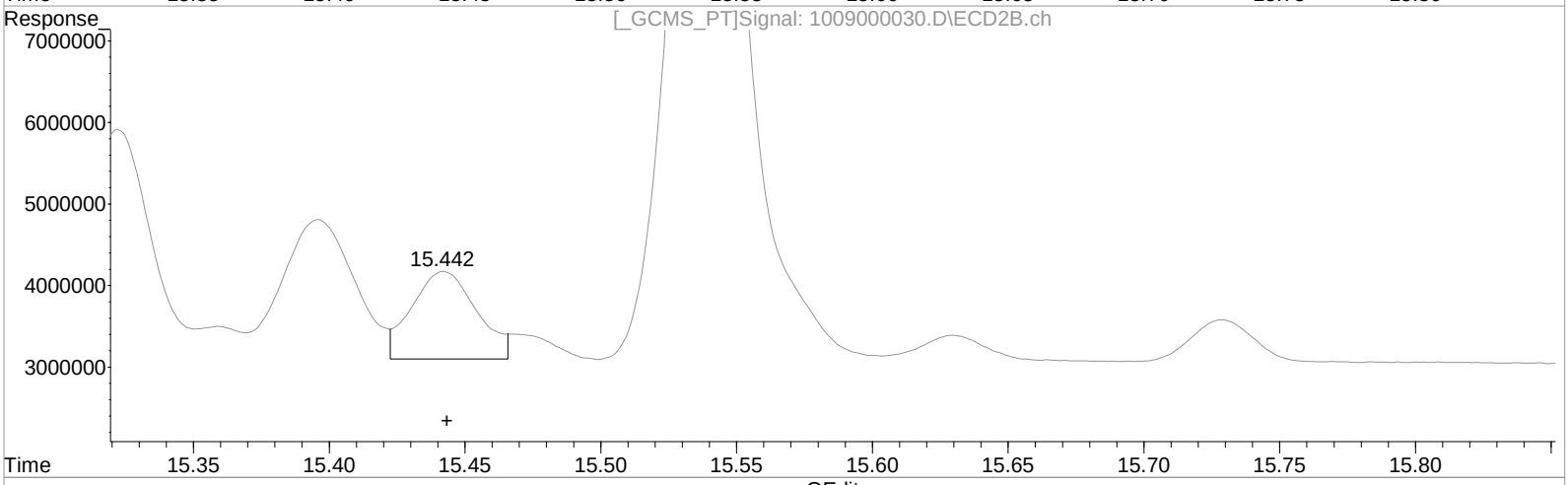
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000030.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 08:40:13 Operator: BB
Sample : PCB9-47B 100PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:20 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

11.057min 50.000 ug/L

response 162581339

Manual Integration:

After

Baseline/Shoulder

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

10.885min 50.000 ug/L

response 123257365

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100923\1009000031.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 09:13:01 Operator: BB
Sample : PCB9-47B 200PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:40:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
34) I	Pentachlo...	11.058	10.884	164.2E6	125.2E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
35) L3	Aroclor 1016	11.315	11.123	2960461	5913655	206.356	209.260
36) L3	Aroclor 1...	11.403	11.175	7589692	8028199	191.346	215.007
37) L3	Aroclor 1...	11.438	11.350	11656140	3558241	198.395	200.321
38) L3	Aroclor 1...	11.646	11.390	8092112	2243312	199.300	198.328
39) L4	Aroclor 1260	15.102	15.228	10568380	18187508	199.035	213.074
40) L4	Aroclor 1...	15.159	15.323	5399062	9746486	189.885	200.371
41) L4	Aroclor 1...	15.224	15.398	3434163	5915348	209.124	214.953
42) L4	Aroclor 1...	15.422	15.443	2981036	3461840	210.359	187.994m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

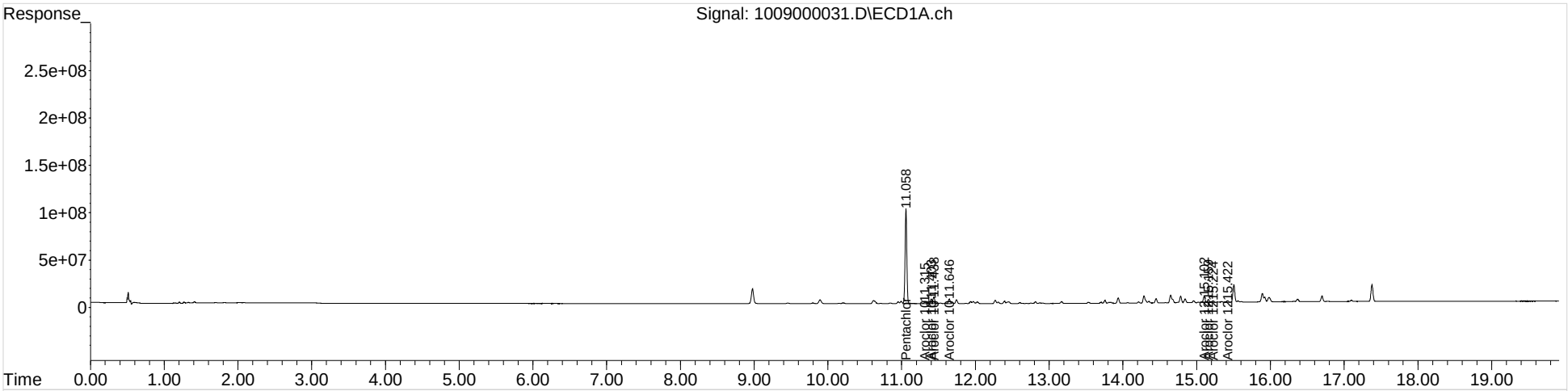
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000031.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 09:13:01 Operator: BB
Sample : PCB9-47B 200PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:40:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



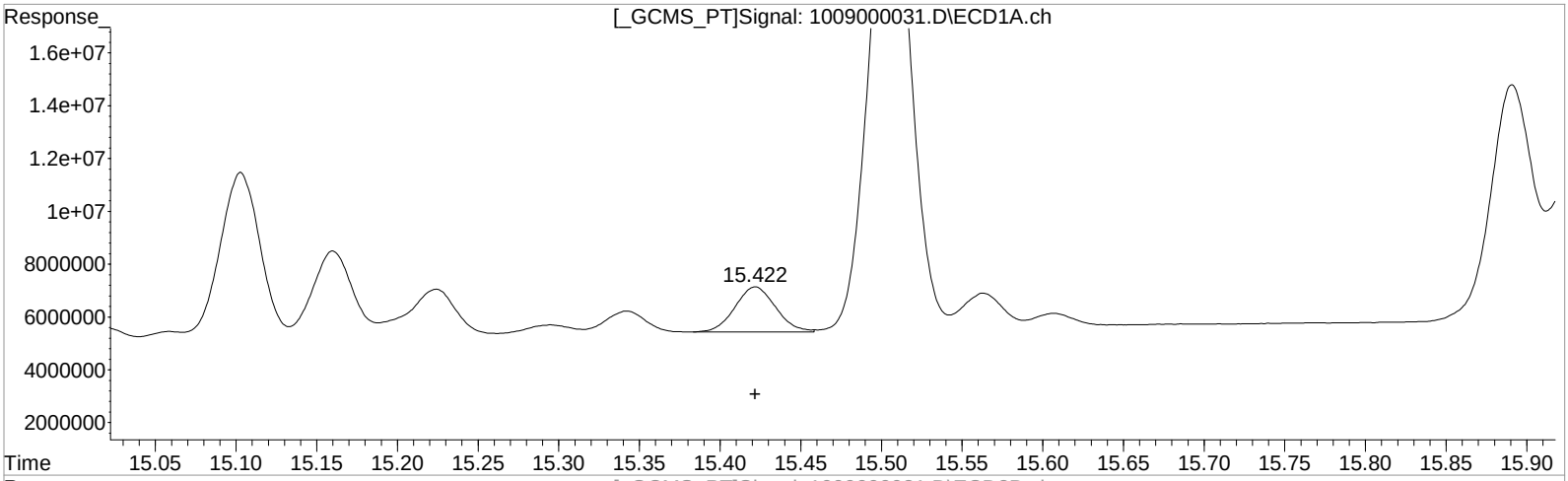
Quantitation Report (Qedit)

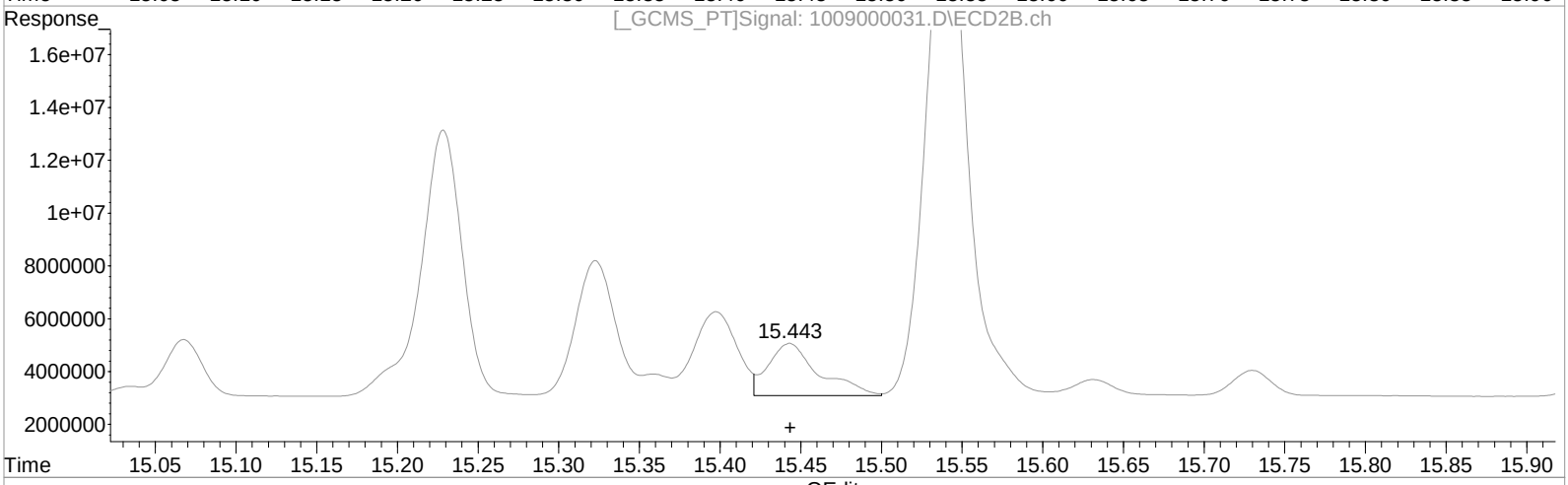
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000031.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 09:13:01 Operator: BB
Sample : PCB9-47B 200PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:37 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

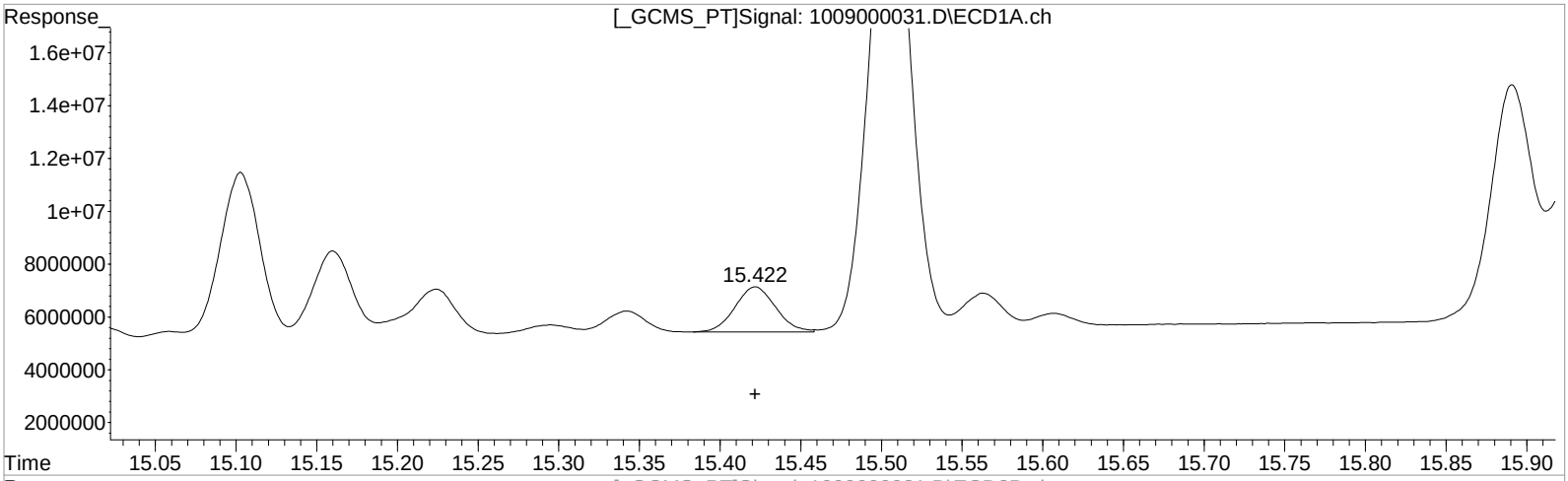
Quantitation Report (Qedit)

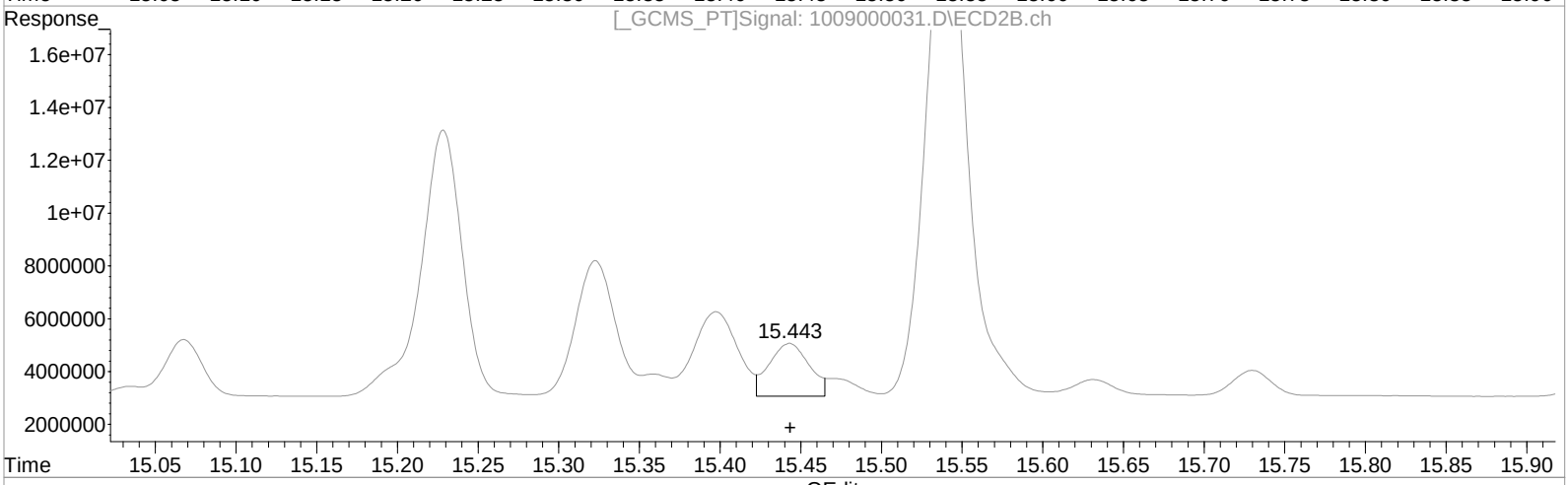
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000031.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 09:13:01 Operator: BB
Sample : PCB9-47B 200PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:37 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100923\1009000032.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 09:45:53 Operator: BB
Sample : PCB9-47B 500PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:41:09 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
34) I	Pentachlo...	11.057	10.883	164.2E6	129.3E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
35) L3	Aroclor 1016	11.316	11.121	6987255	12879379	500.887	490.249
36) L3	Aroclor 1...	11.400	11.172	17589909	17431012	509.705	492.765
37) L3	Aroclor 1...	11.436	11.348	25552894	8081797	435.015	440.483
38) L3	Aroclor 1...	11.643	11.389	18216693	5191085	448.748	444.305
39) L4	Aroclor 1260	15.101	15.226	24751494	40816721	490.235	484.284
40) L4	Aroclor 1...	15.157	15.322	12931895	21280799	454.907	423.550
41) L4	Aroclor 1...	15.221	15.396	8246192	13409302	502.254	492.387
42) L4	Aroclor 1...	15.419	15.440	6763037	9432984	495.026	495.925
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

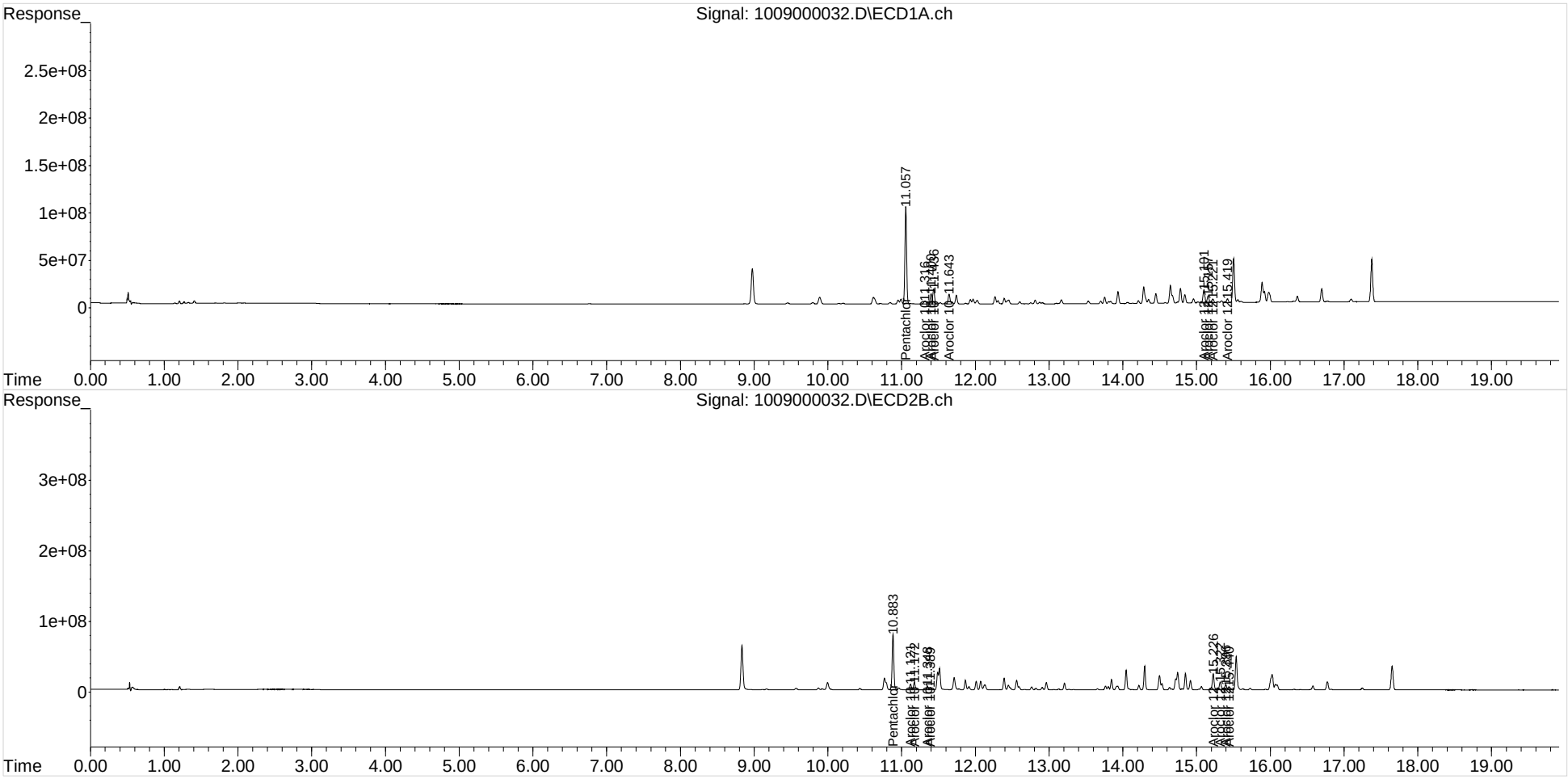
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000032.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 09:45:53 Operator: BB
Sample : PCB9-47B 500PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:41:09 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100923\1009000033.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 10:18:35 Operator: BB
Sample : PCB9-47B 1000PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:41:30 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
34) I	Pentachlo...	11.058	10.887	164.2E6	127.3E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
35) L3	Aroclor 1016	11.318	11.124	13696543	24975532	991.026	1008.367
36) L3	Aroclor 1...	11.403	11.175	33158591	33354864	1004.706	992.550
37) L3	Aroclor 1...	11.437	11.352	54051383	15931738	919.692	881.853
38) L3	Aroclor 1...	11.646	11.392	35621952	9943803	877.047	864.346
39) L4	Aroclor 1260	15.102	15.229	49160153	80954589	990.777	993.934
40) L4	Aroclor 1...	15.160	15.324	24449856	41367607	859.624	836.158
41) L4	Aroclor 1...	15.224	15.399	16174669	25897000	984.639	982.361
42) L4	Aroclor 1...	15.422	15.444	13344701	14780222	989.814	789.150m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

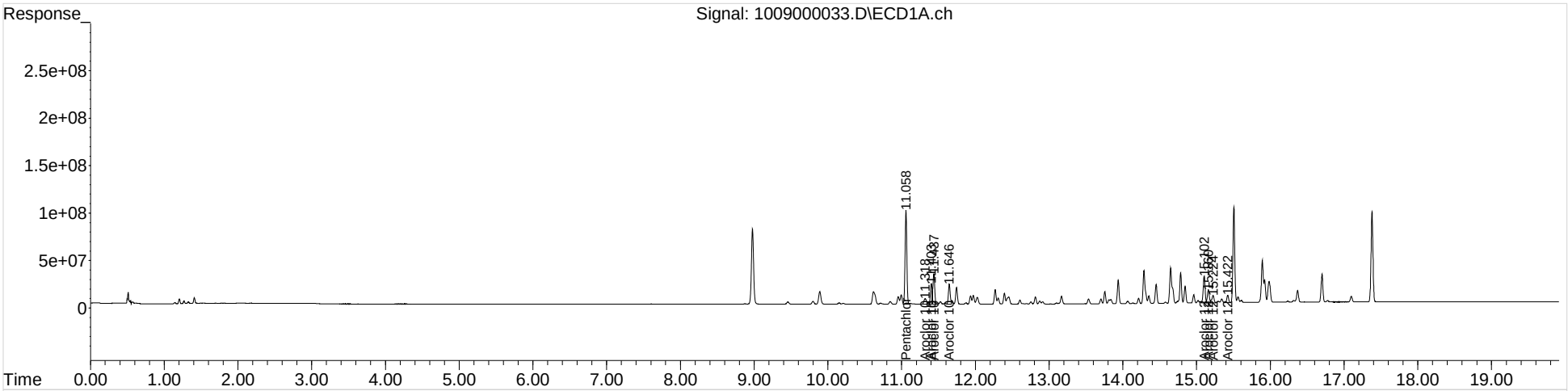
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000033.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 10:18:35 Operator: BB
Sample : PCB9-47B 1000PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:41:30 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



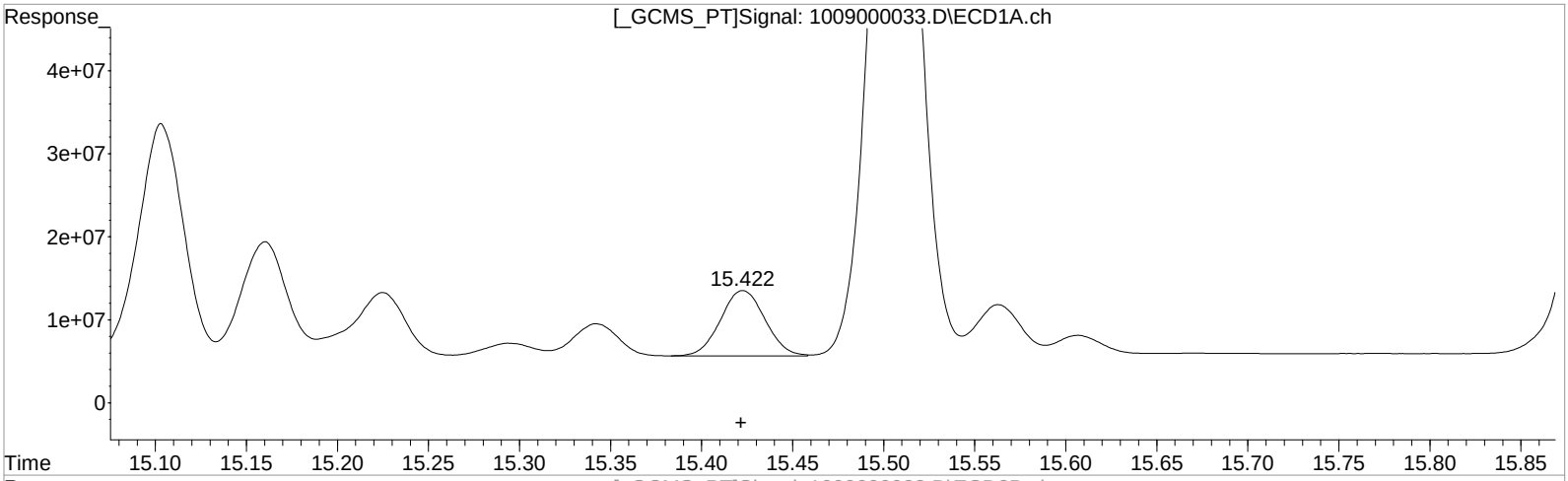
Quantitation Report (Qedit)

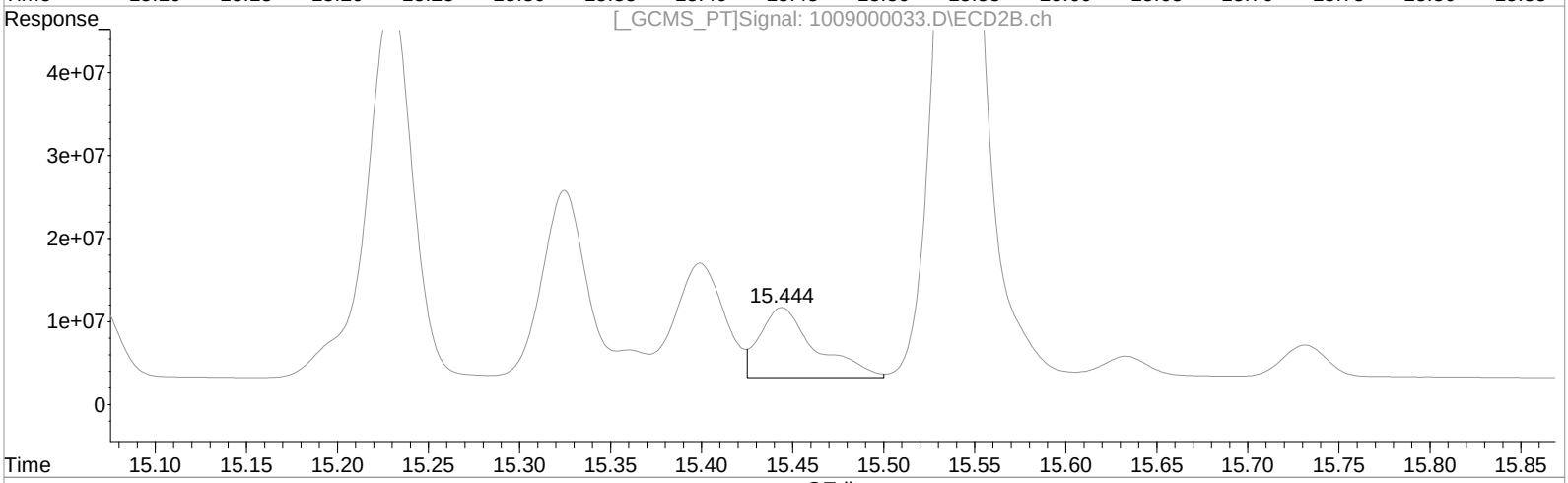
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000033.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 10:18:35 Operator: BB
Sample : PCB9-47B 1000PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

11.058min 50.000 ug/L

response 164248818

Manual Integration:

Before

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

10.887min 50.000 ug/L

response 127325713

(+) = Expected Retention Time

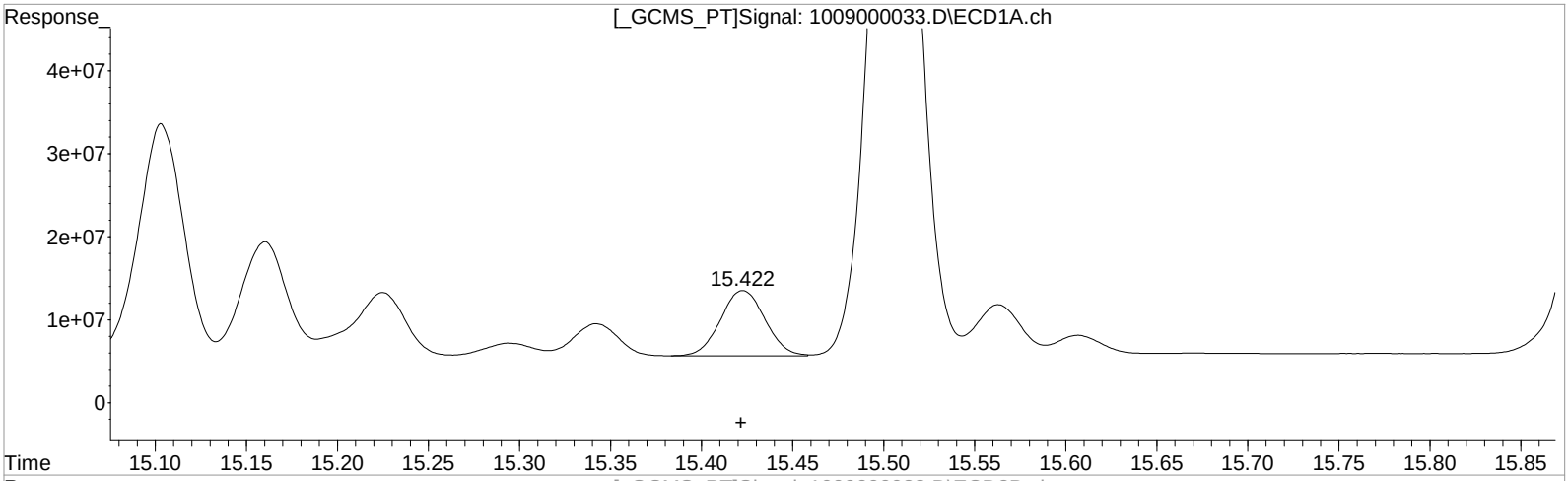
Quantitation Report (Qedit)

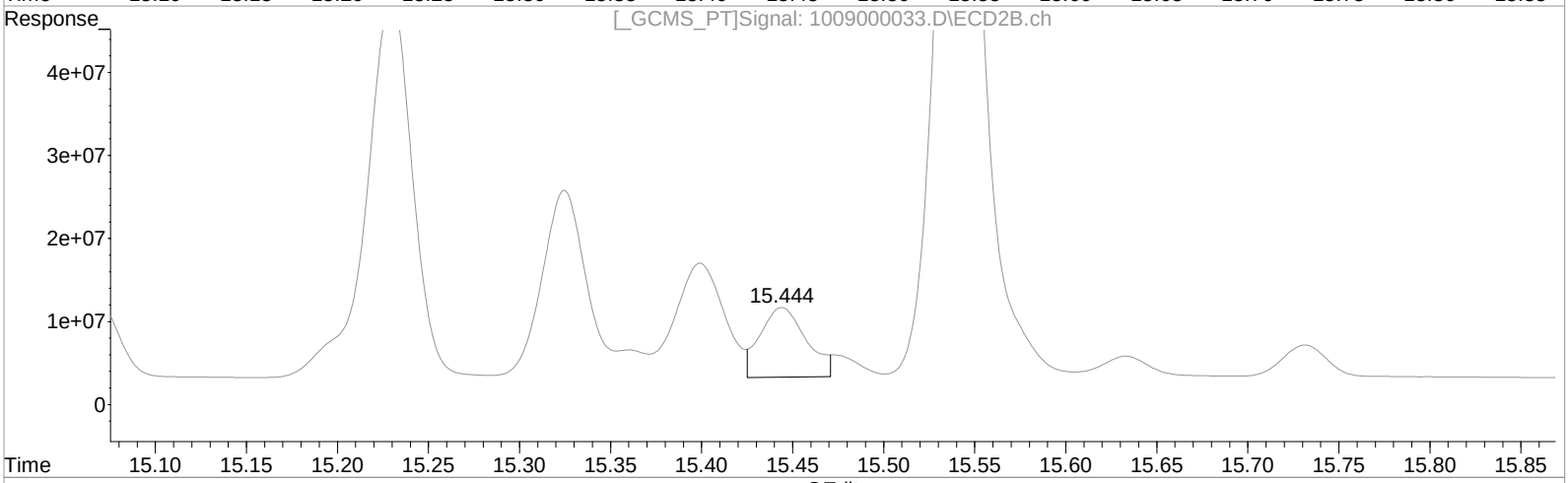
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000033.D Vial: 23
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 10:18:35 Operator: BB
Sample : PCB9-47B 1000PPB 1660 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 12:54:49 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 12:53:26 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

11.058min 50.000 ug/L

response 164248818

Manual Integration:

After

Baseline/Shoulder

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

10.887min 50.000 ug/L

response 127325713

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100923\1009000034.D Vial: 24
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 10:51:24 Operator: BB
Sample : PCB9-47C 200PPB 2154 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:41:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
34) I	Pentachlo...	11.056	10.883	166.6E6	129.2E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
43) L5	Aroclor 1221	9.453	9.567	3763561	7150104	200.000	200.000
44) L5	Aroclor 1...	9.794	9.871	2790467	4345698	200.000	200.000
45) L5	Aroclor 1...	9.888	9.923	12616223	2761295	200.000	200.000
46) L5	Aroclor 1...	10.204	9.995	1580388	16603398	200.000	200.000
47) L6	Aroclor 1254	12.390	11.713	1590921	2163563	200.000	200.000
48) L6	Aroclor 1...	12.870	12.561	6014753	3296726	200.000	200.000
49) L6	Aroclor 1...	14.210	13.732	1781420	5412815	200.000	200.000
50) L6	Aroclor 1...	14.575	14.217	1416232	4588628	200.000	200.000
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

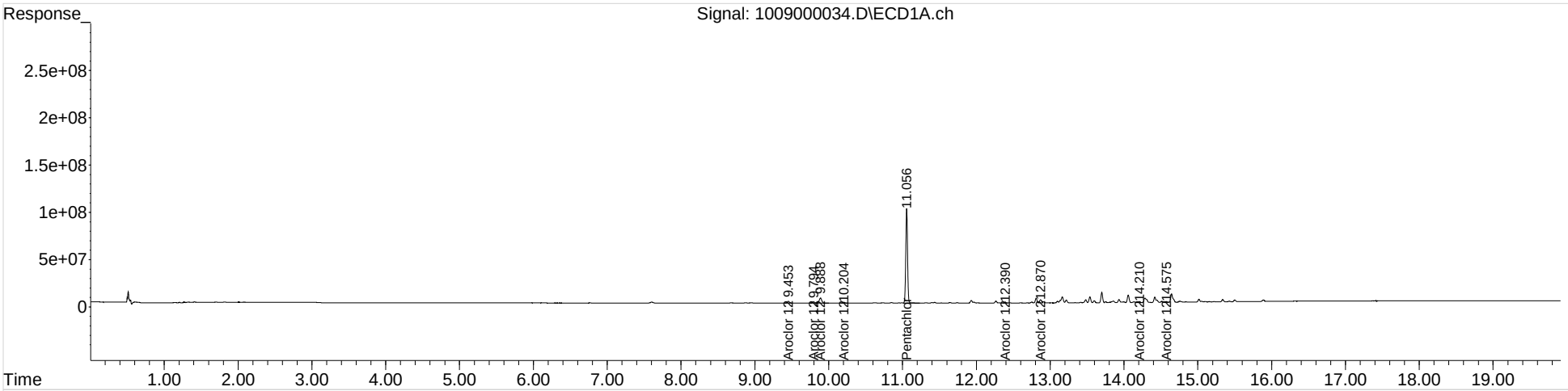
1st BB 10/11/23
2nd 10/16/23

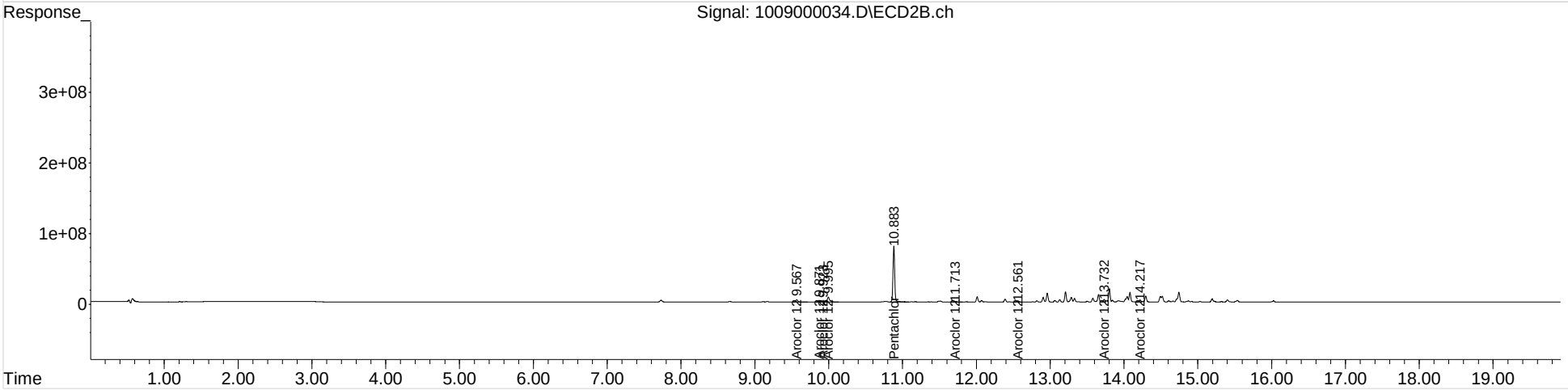
Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000034.D Vial: 24
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 10:51:24 Operator: BB
Sample : PCB9-47C 200PPB 2154 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:41:50 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000035.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 11:24:07 Operator: BB
Sample : PCB9-47D 200PPB 3262 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:42:13 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	Internal Standards							
51)	I Pentachlo...	11.055f	10.882f	167.3E6	125.8E6	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
52)	L7 Aroclor 1232	9.794	9.567	1975764	4388675	NoCal	200.000	#
53)	L7 Aroclor 1...	10.615	10.433	5231689	859008	200.000	200.000	
54)	L7 Aroclor 1...	11.434	11.172	7194478	4700158	200.000	200.000	
55)	L7 Aroclor 1...	12.306	11.513	1387275	12282051	200.000	200.000	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

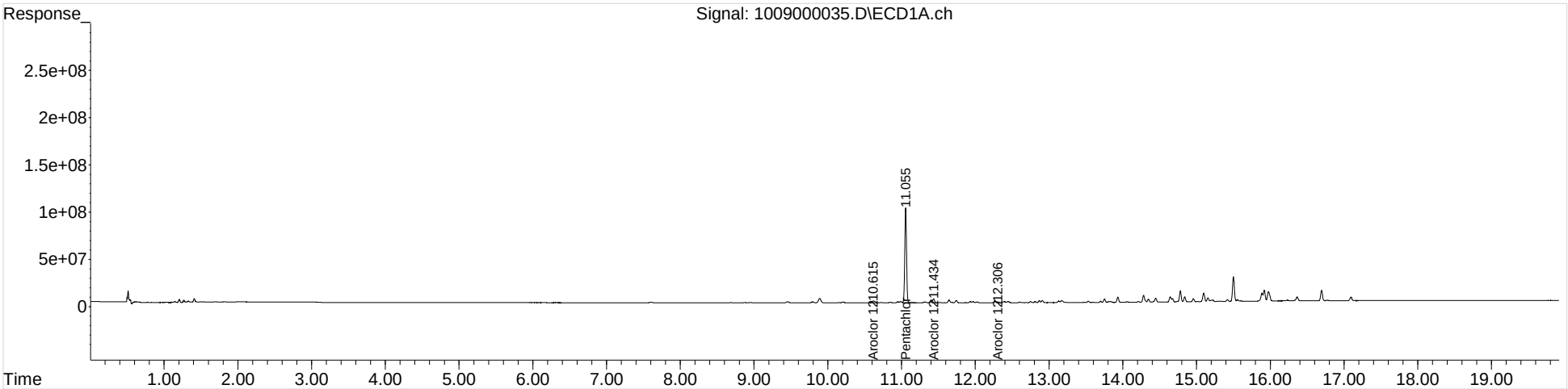
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000035.D Vial: 25
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 11:24:07 Operator: BB
Sample : PCB9-47D 200PPB 3262 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:42:13 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000036.D Vial: 26
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 11:56:58 Operator: BB
Sample : PCB9-47E 200PPB 4268 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:42:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
51) I	Pentachlo...	11.058f	10.883f	168.0E6	126.9E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
56) L8	Aroclor 1242	9.796	9.568	1240954	1923115	200.000	200.000
57) L8	Aroclor 1...	11.435	11.172	11058662	7751054	200.000	200.000
58) L8	Aroclor 1...	11.743	11.349	6514395	3486758	200.000	200.000
59) L8	Aroclor 1...	13.019	12.592	351859	2540132	200.000	200.000
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

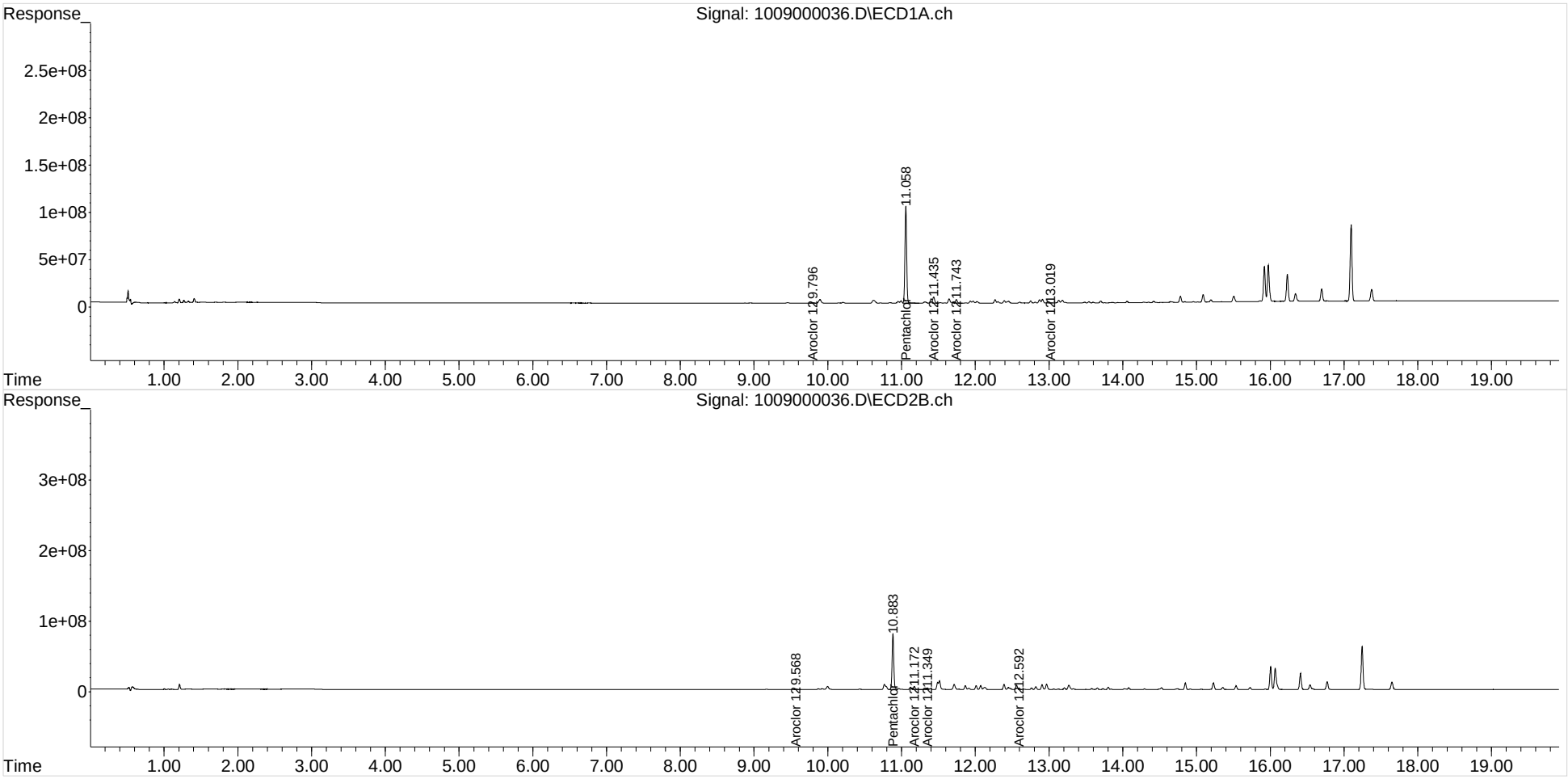
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000036.D Vial: 26
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 11:56:58 Operator: BB
Sample : PCB9-47E 200PPB 4268 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:42:36 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000037.D Vial: 27
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 12:29:35 Operator: BB
Sample : PCB9-47F 200PPB 1248 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:42:58 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
60) I	Pentachlo...	11.057f	10.883f	165.1E6	124.1E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
61) L9	Aroclor 1248	13.702	13.803	6636629	10534276	200.000	200.000
62) L9	Aroclor 1...	13.862	14.020	2865827	5340038	200.000	200.000
63) L9	Aroclor 1...	14.059	14.522	4531389	8373935	200.000	200.000
64) L9	Aroclor 1...	14.650	14.743	1547973	2151165	200.000m	200.000m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

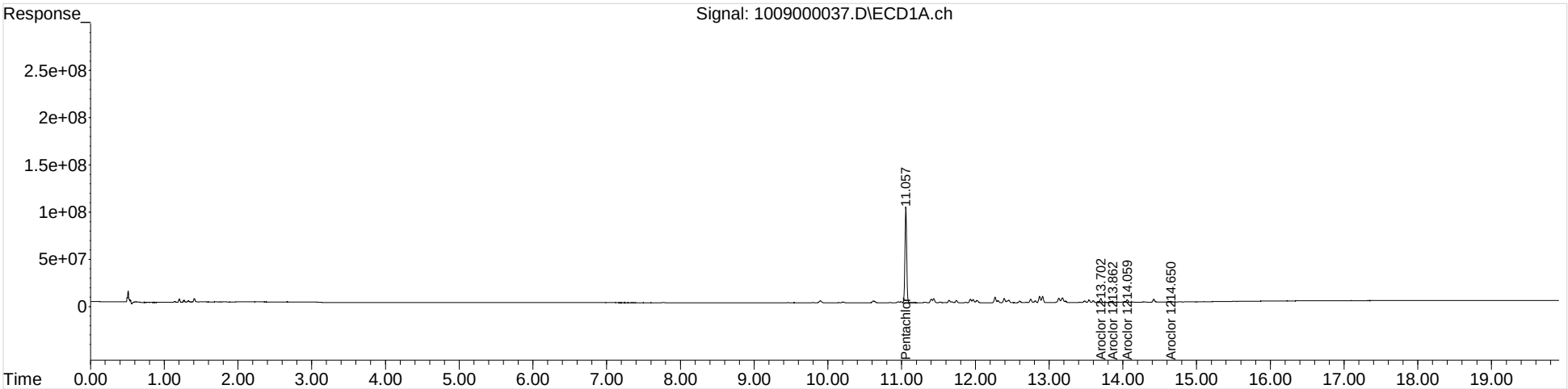
1st BB 10/11/23
2nd 10/16/23

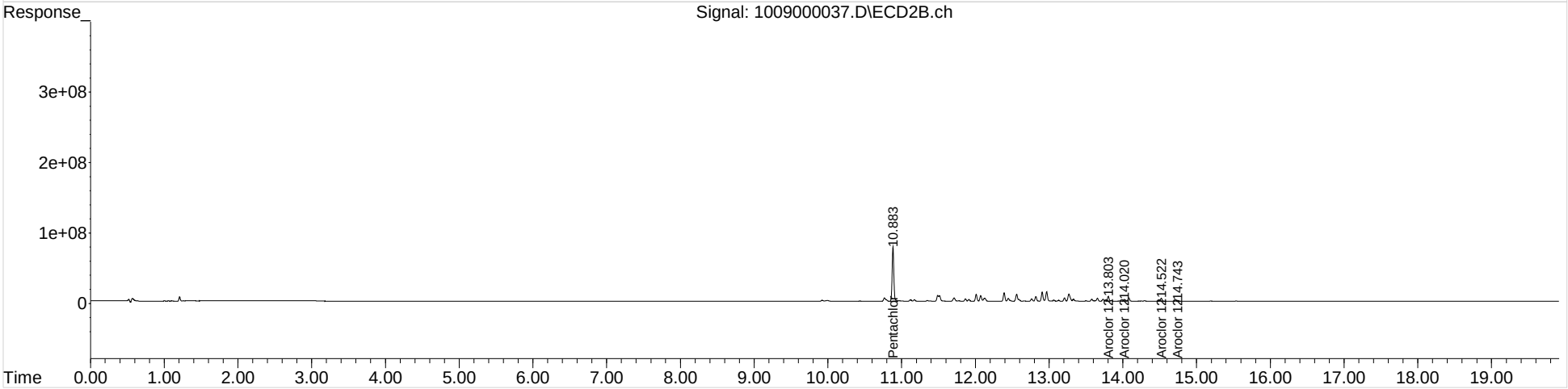
Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000037.D Vial: 27
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 12:29:35 Operator: BB
Sample : PCB9-47F 200PPB 1248 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:42:58 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





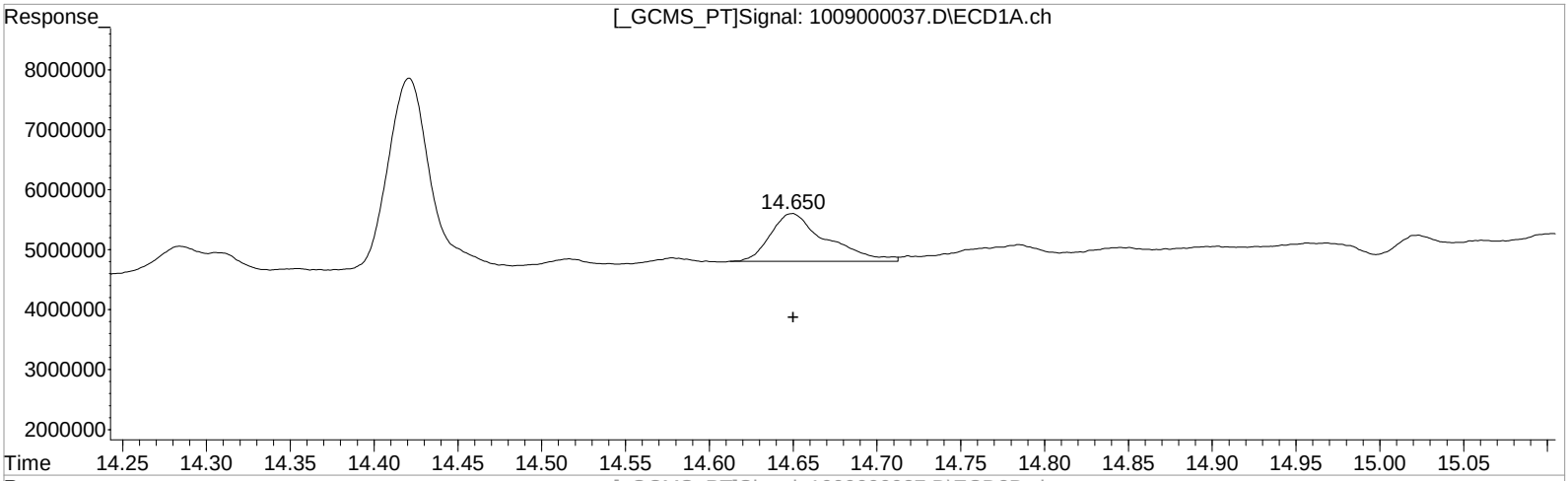
Quantitation Report (Qedit)

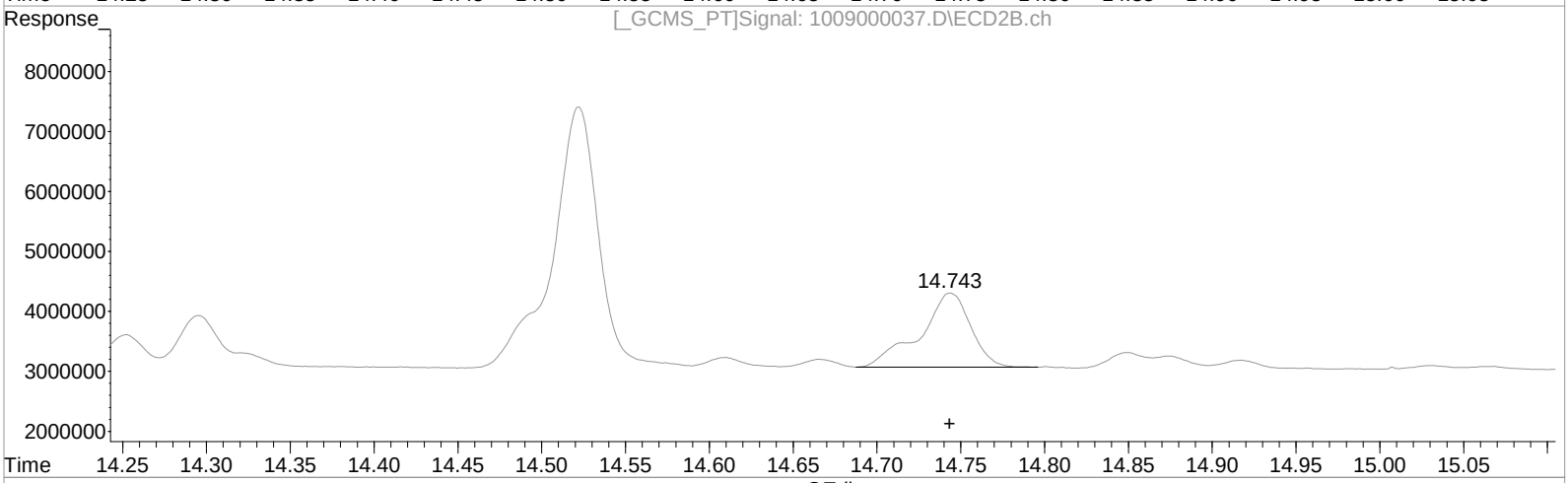
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000037.D Vial: 27
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 12:29:35 Operator: BB
Sample : PCB9-47F 200PPB 1248 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 17:42:31 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 17:41:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(64) Aroclor 1248 {4} #2 (L9)

11.057min 50.000 ug/L

response 165112927

Manual Integration:

Before

10/10/23

(64) Aroclor 1248 {4} #2 (L9)

10.883min 50.000 ug/L

response 124069446

(+) = Expected Retention Time

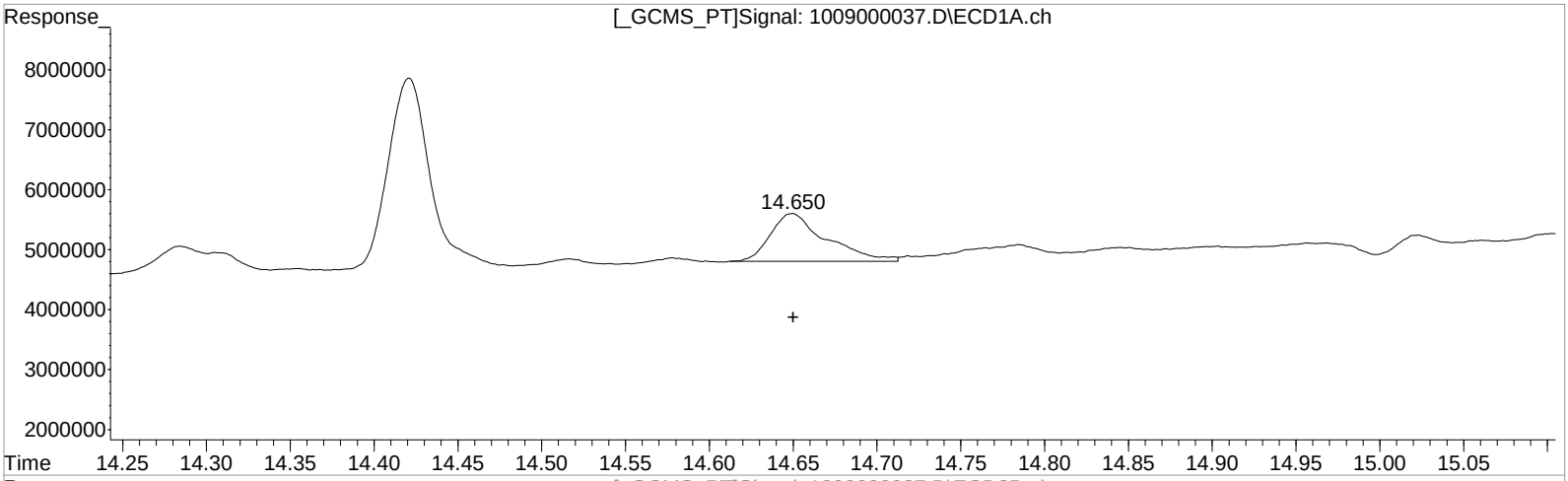
Quantitation Report (Qedit)

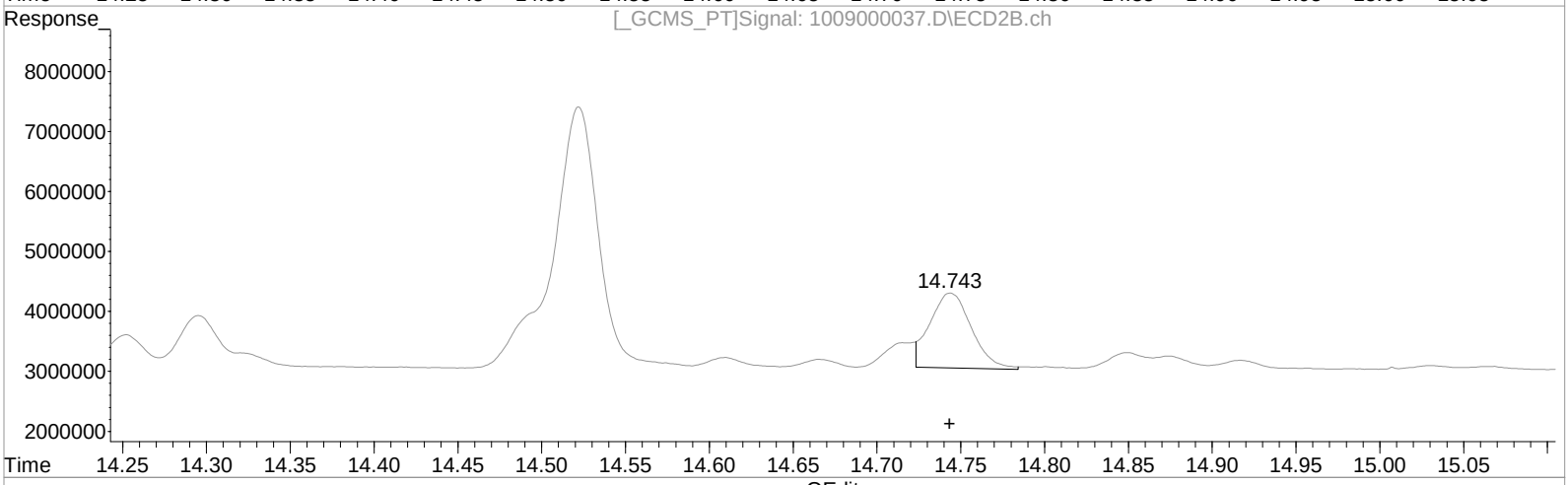
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000037.D Vial: 27
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 12:29:35 Operator: BB
Sample : PCB9-47F 200PPB 1248 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 17:42:31 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 17:41:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(64) Aroclor 1248 {4} #2 (L9)

11.057min 50.000 ug/L

response 165112927

Manual Integration:

After

Baseline/Shoulder

10/10/23

(64) Aroclor 1248 {4} #2 (L9)

10.883min 50.000 ug/L

response 124069446

(+) = Expected Retention Time

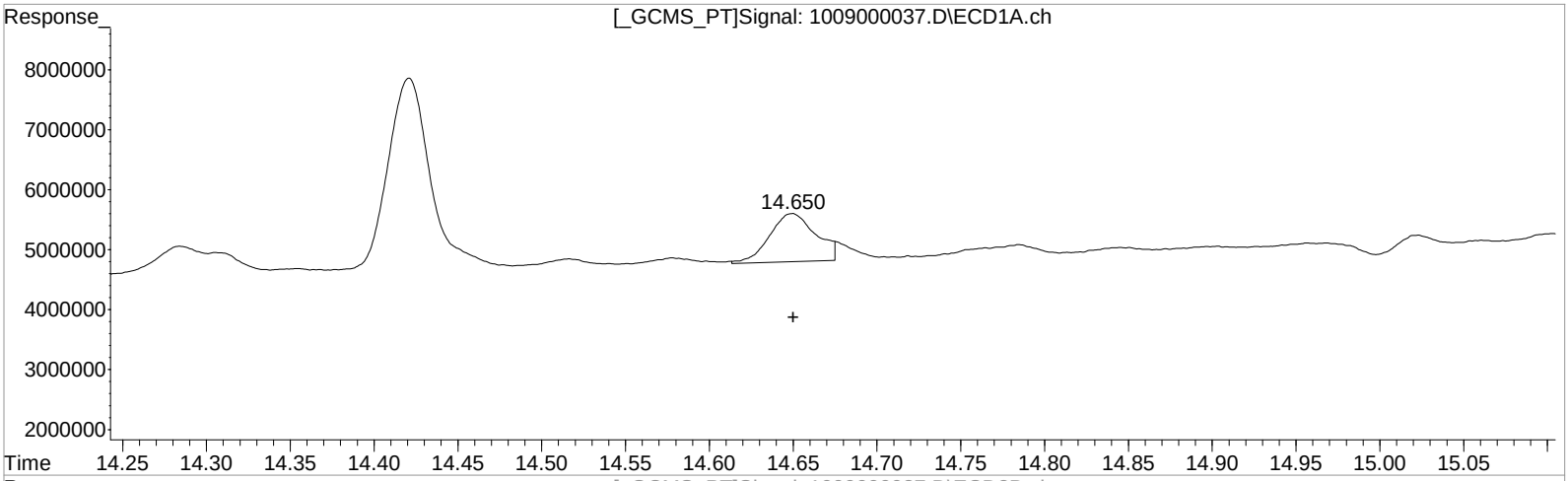
Quantitation Report (Qedit)

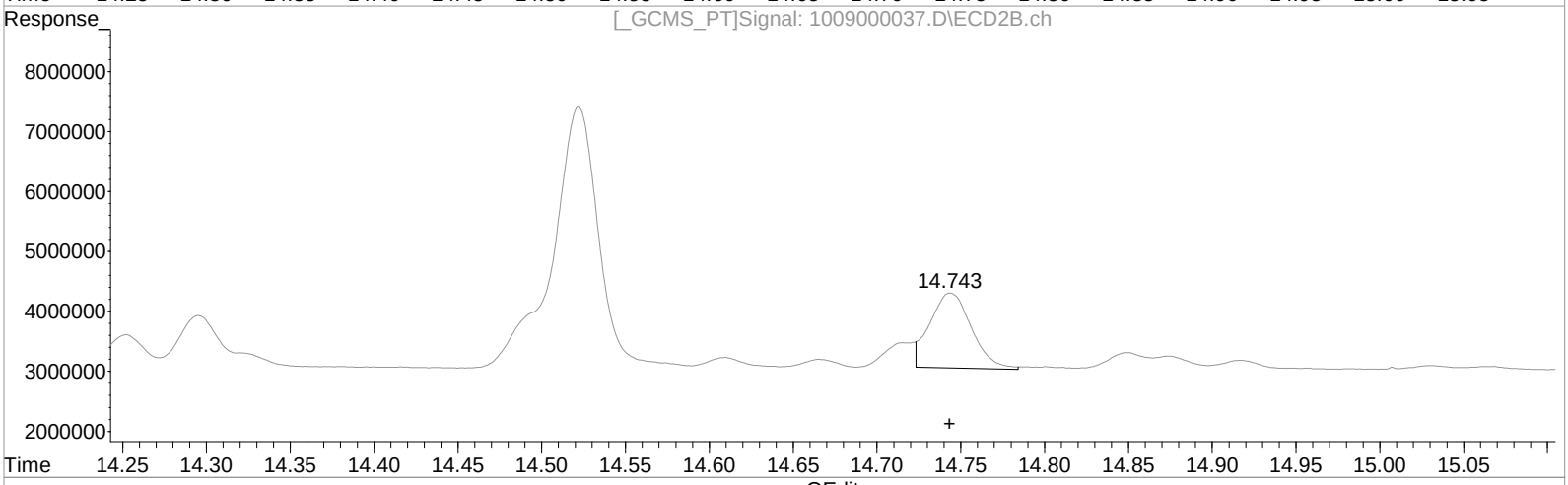
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000037.D Vial: 27
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 12:29:35 Operator: BB
Sample : PCB9-47F 200PPB 1248 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 17:42:31 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 17:41:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(64) Aroclor 1248 {4} #2 (L9)

11.057min 50.000 ug/L

response 165112927

Manual Integration:

After

Baseline/Shoulder

10/10/23

(64) Aroclor 1248 {4} #2 (L9)

10.883min 50.000 ug/L

response 124069446

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100923\1009000038.D Vial: 28
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 13:02:23 Operator: BB
Sample : PCB9-48D 1016 ICV 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:43:18 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
34) I	Pentachlo...	11.056	10.882	168.2E6	126.1E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
35) L3	Aroclor 1016	11.316	11.119	3373369	6292360	230.617	223.498
36) L3	Aroclor 1...	11.399	11.171	8354243	8909971	209.286	240.622
37) L3	Aroclor 1...	11.434	11.348	13885863	4092915	230.665	228.718
38) L3	Aroclor 1...	11.643	11.387	9186897	2303787	220.824	202.168
	SemiQuant Compounds - Not Calibrated on this Instrument						

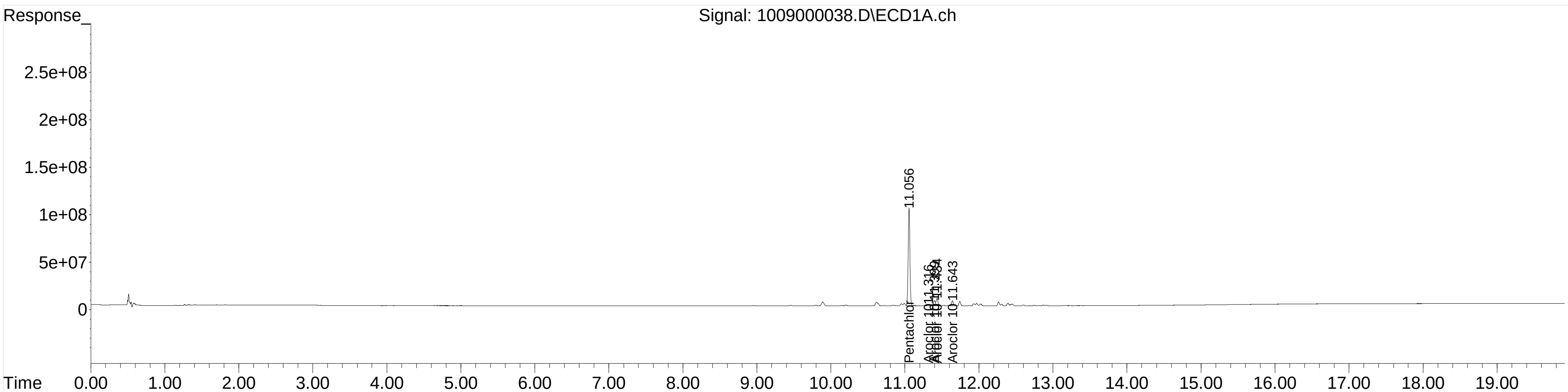
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

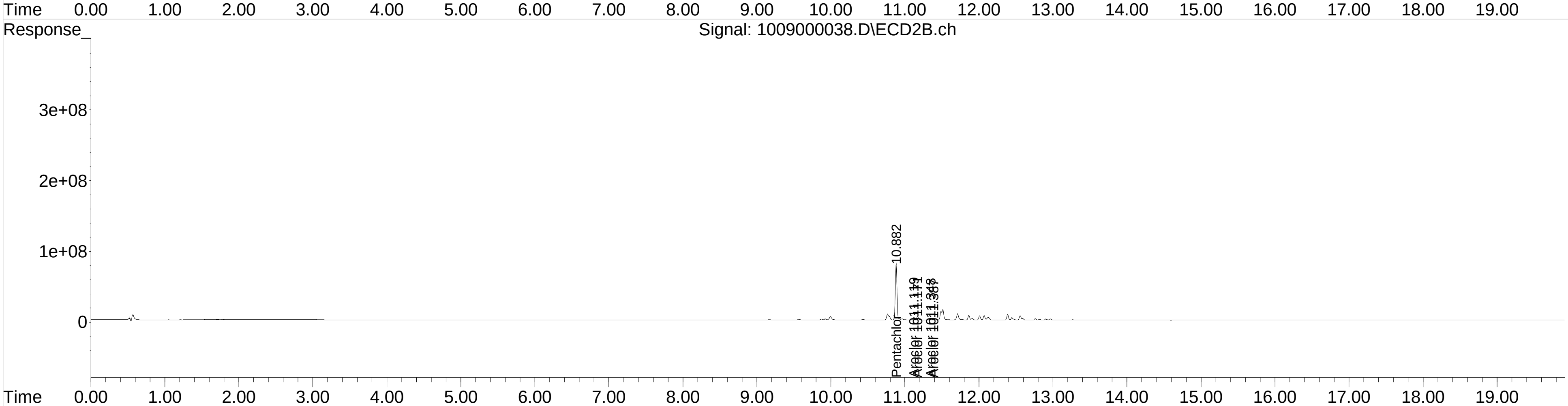
1st BB 10/11/23
2nd [signature] 10/16/23

Data File : J:\GC33\DATA\100923\1009000038.D   Vial: 28
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10-Oct-2023, 13:02:23   Operator: BB
Sample   : PCB9-48D 1016 ICV 200PPB   Inst   : GCI
Misc   :   Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:43:18 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj.   : 1 uL
Signal #1 Phase : RTX-CLP   Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um   Signal #2 Info : 320 x 0.25 um





Quantitation Report (QT Reviewed)

1st BB 10/11/23
2nd 4w 10/16/23

Data File : J:\GC33\DATA\100923\1009000039.D Vial: 29
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 13:35:07 Operator: BB
Sample : PCB9-48J 1260 ICV 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:43:37 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	Internal Standards						
34) I	Pentachlo...	11.054	10.880	168.9E6	128.3E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
39) L4	Aroclor 1260	15.097	15.222	10008516	19058727	181.844	218.316
40) L4	Aroclor 1...	15.154	15.317	5041545	9700120	172.391	194.615
41) L4	Aroclor 1...	15.218	15.393	3465520	7029699	205.178	252.057
42) L4	Aroclor 1...	15.416	15.437	3131633	3637336	215.152	192.767m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

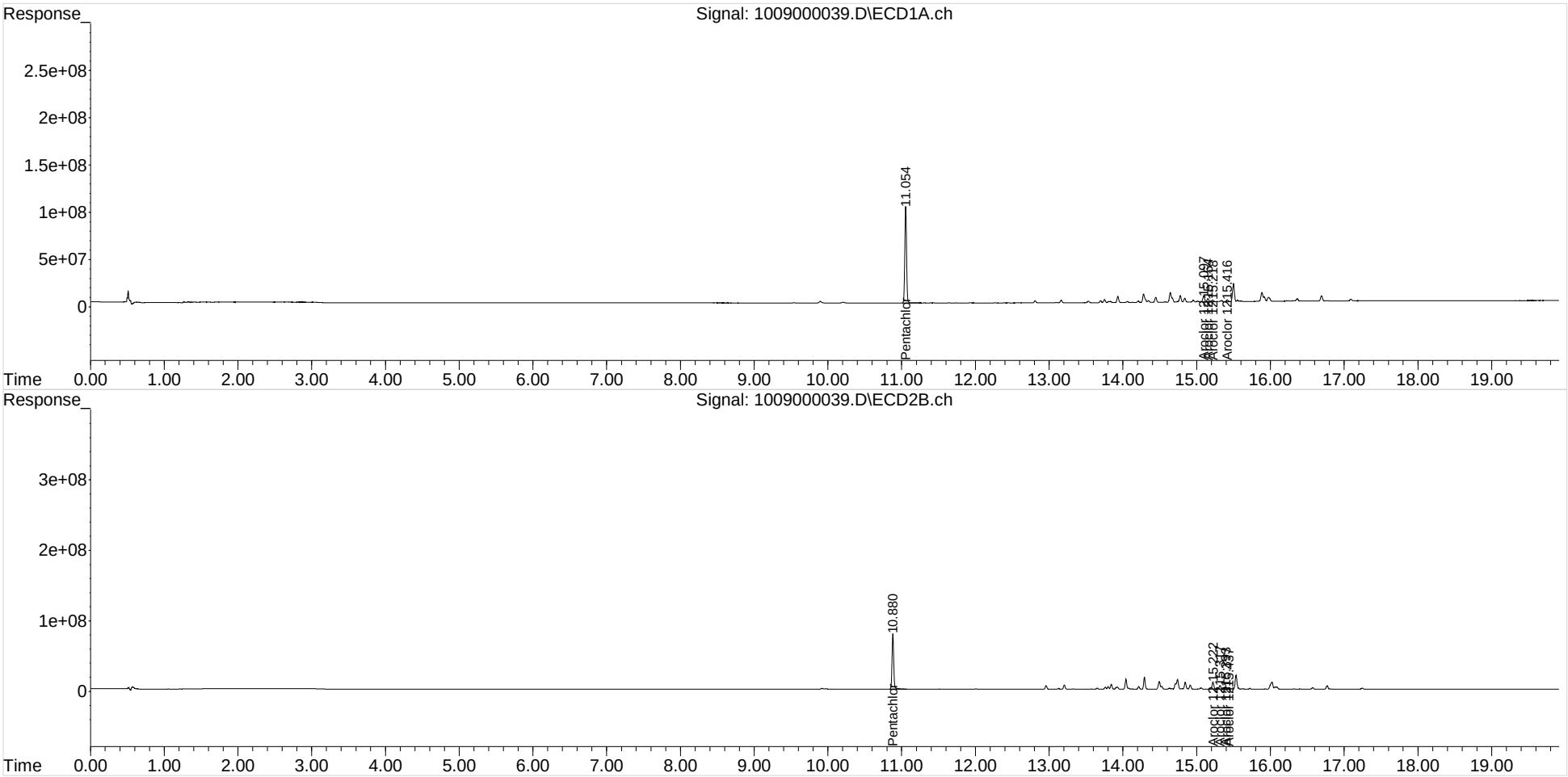
1st BB 10/11/23
2nd 10/16/23

Quantitation Report (QT Reviewed)

Data File : J:\GC33\DATA\100923\1009000039.D Vial: 29
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 13:35:07 Operator: BB
Sample : PCB9-48J 1260 ICV 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 16 07:43:37 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Thu Oct 12 11:39:04 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um



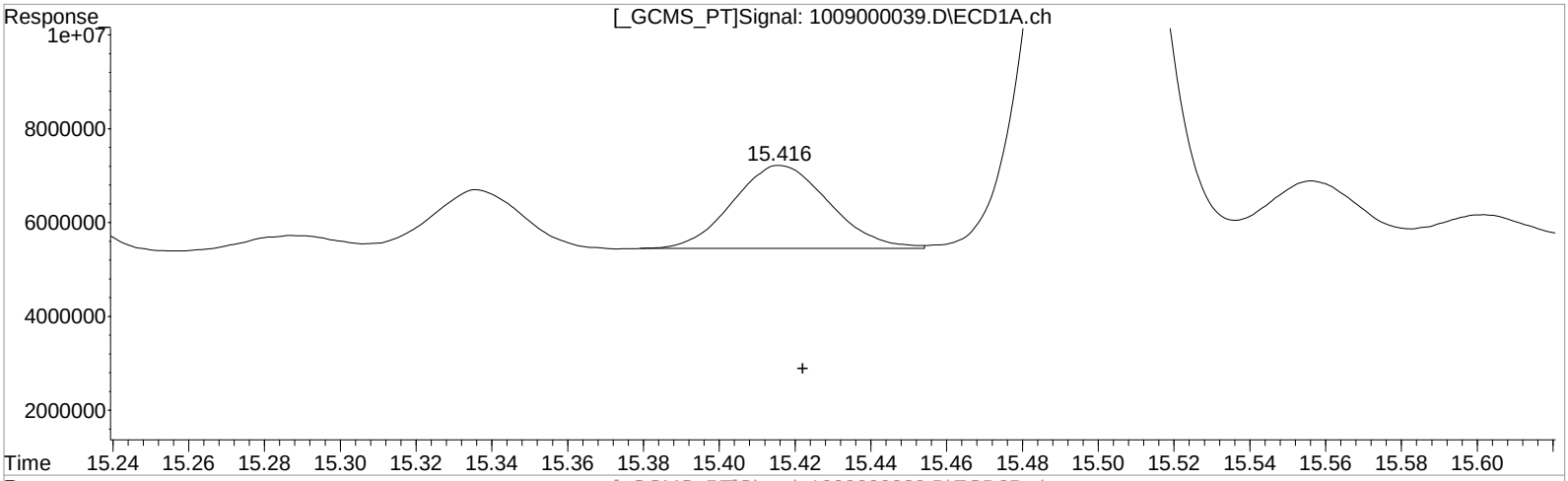
Quantitation Report (Qedit)

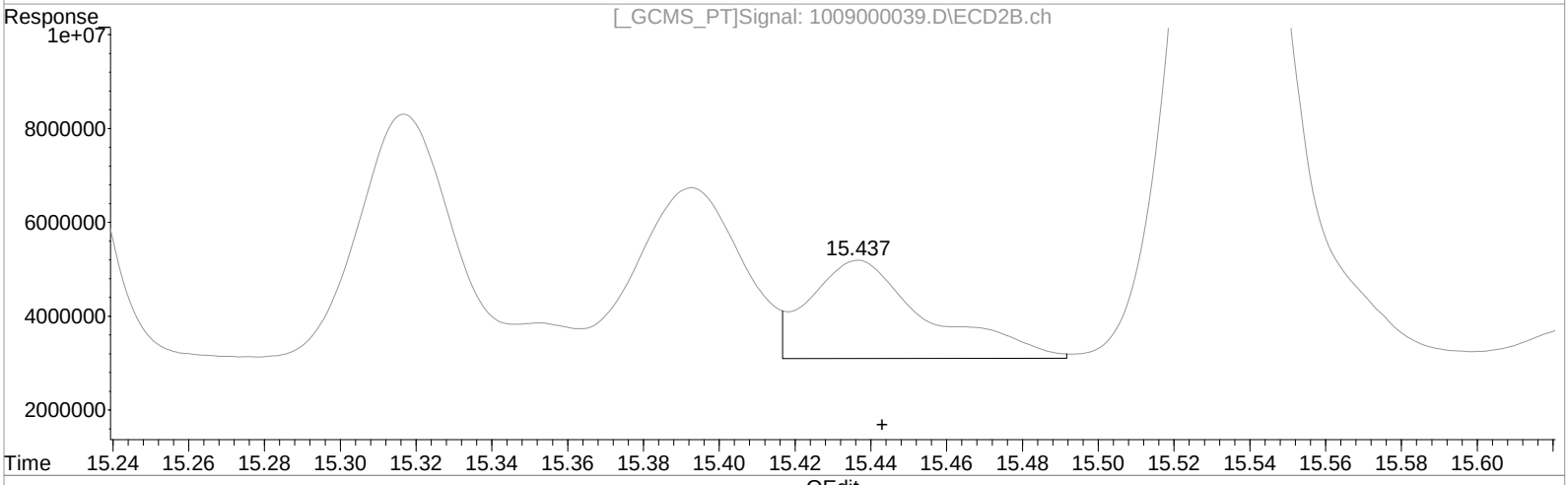
1st BB 10/11/23
2nd JW 10/16/23

Data File : J:\GC33\DATA\100923\1009000039.D Vial: 29
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 13:35:07 Operator: BB
Sample : PCB9-48J 1260 ICV 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 16:19:02 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 15:24:40 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

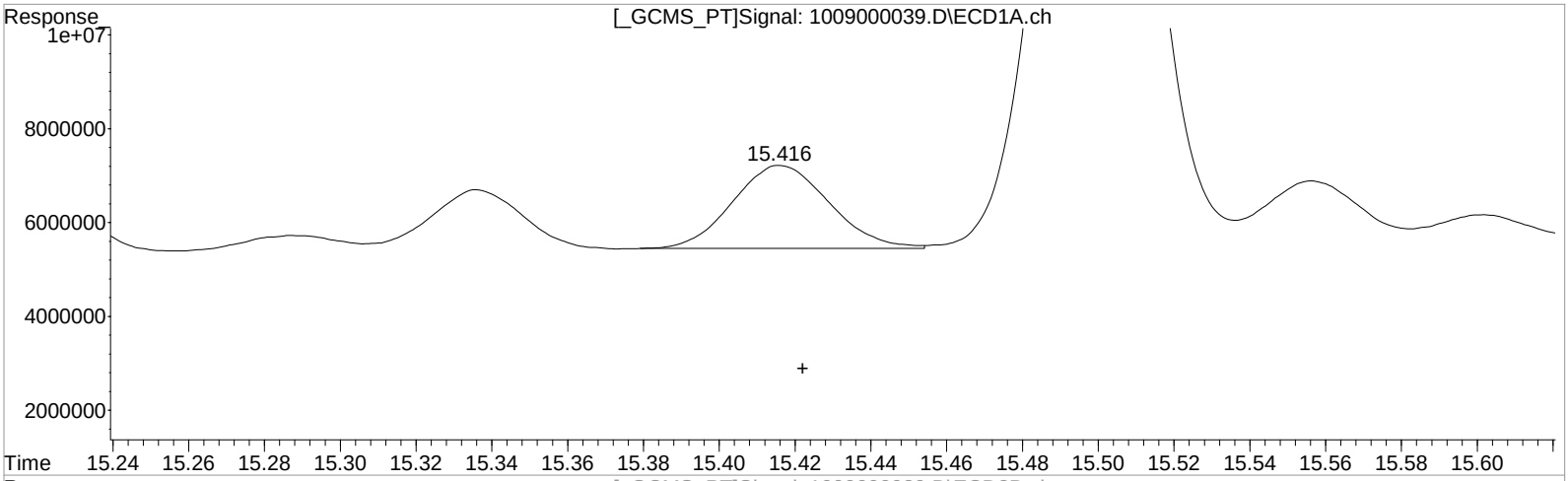
Quantitation Report (Qedit)

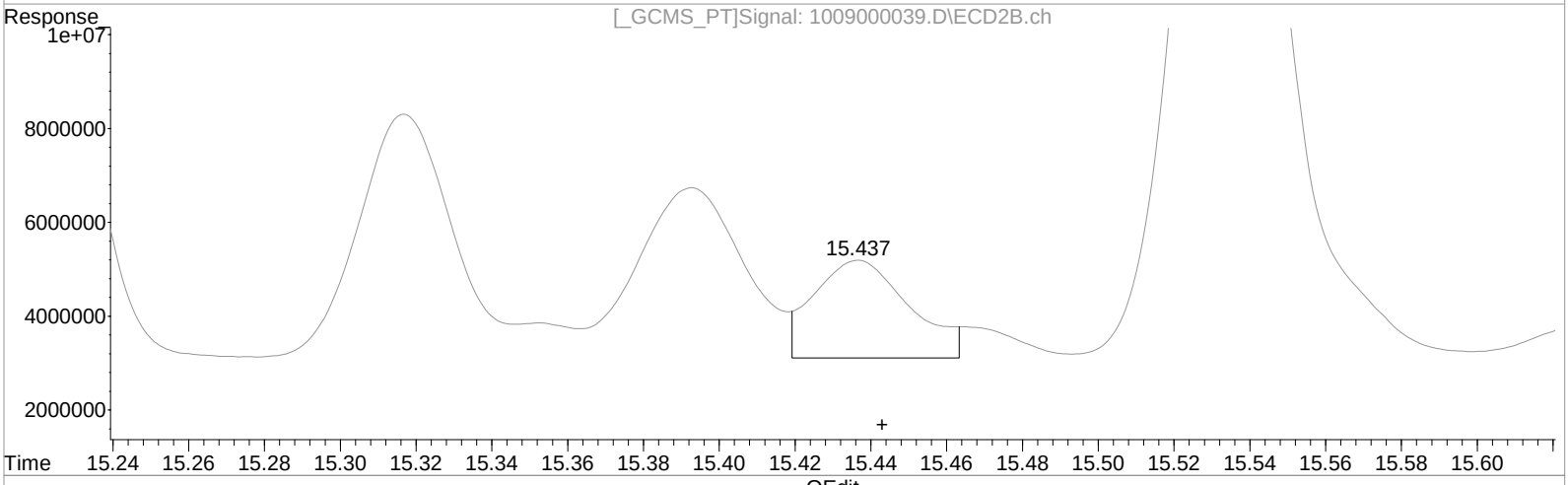
1st BB 10/11/23
2nd 10/16/23

Data File : J:\GC33\DATA\100923\1009000039.D Vial: 29
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10-Oct-2023, 13:35:07 Operator: BB
Sample : PCB9-48J 1260 ICV 200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: AR1242.p
Integration File signal 2: AR1242.p
Quant Time: Oct 10 16:19:02 2023
Quant Results File: GC33_091823_608.RES

Quant Method : J:\GC33\Methods\GC33_091823_608.M
Quant Title : 121317_508_608.M | MJ492 | CAL15641
QLast Update : Tue Oct 10 15:24:40 2023
Response via : Initial Calibration
DataAcq Meth:608.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP Signal #2 Phase: RTX-CLP2
Signal #1 Info : 320 x 0.50 um Signal #2 Info : 320 x 0.25 um





QEdit

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

Manual Integration:

After

Baseline/Shoulder

10/10/23

(42) Aroclor 1260 {4} #2 (L4)

0.000min 0.000 ug/L d

response 0

(+) = Expected Retention Time

Sequence Name: C:\GC33\Sequence\110123-608.sequence.xml
Comment:
Operator:
Data Path: C:\GC33\Data\110123\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

run: 81707

Cal: KC2300589

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
( ) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	1101F001	608	PRIMER
2)	Sample	100	1101F002	608	PRIMER
3)	Sample	94	1101F003	608	PEM
4)	Sample	95	1101F004	608	DWSTD08-85L 608 75PPB
5)	Sample	96	1101F005	608	PCB9-50J 1600 200PPB
6)	Sample	97	1101F006	608	TOX DWSTD08-83C 500PPB
7)	Sample	98	1101F007	608	CHLOR DWSD83D 200PPB
8)	Sample	99	1101F008	608	IB
9)	Sample	1	1101F009	608	KQ2317672-01 MB
10)	Sample	2	1101F010	608	KQ2317672-02 LCS 608
11)	Sample	3	1101F011	608	KQ2317672-03 DLCS
12)	Sample	4	1101F012	608	KQ2317672-04 LCS 1660
13)	Sample	5	1101F013	608	KQ2317672-05 DLCS 1660
14)	Sample	6	1101F014	608	K2310950-001
15)	Sample	7	1101F015	608	K2310951-001
16)	Sample	8	1101F016	608	K2310952-001
17)	Sample	9	1101F017	608	K2310962-005
18)	Sample	10	1101F018	608	K2310979-003
19)	Sample	11	1101F019	608	K2310623-001 20X
20)	Sample	12	1101F020	608	K2310623-002 20X
21)	Sample	94	1101F021	608	PEM
22)	Sample	95	1101F022	608	DWSTD08-85L 608 75PPB
23)	Sample	96	1101F023	608	PCB9-50J 1600 200PPB
24)	Sample	97	1101F024	608	TOX DWSTD08-83C 500PPB
25)	Sample	98	1101F025	608	CHLOR DWSD83D 200PPB
26)	Sample	99	1101F026	608	IB
27)	Sample	13	1101F027	608	K2310445-005
28)	Sample	14	1101F028	608	KQ2316839-01 MB
29)	Sample	15	1101F029	608	KQ2316839-02 LCS 608
30)	Sample	16	1101F030	608	KQ2316839-03 DLCS 608
31)	Sample	17	1101F031	608	KQ2316839-04 LCS 1660
32)	Sample	18	1101F032	608	KQ2316839-05 DLCS 1660
33)	Sample	19	1101F033	608	K2310823-001
34)	Sample	20	1101F034	608	K2310868-001
35)	Sample	21	1101F035	608	K2310879-001
36)	Sample	22	1101F036	608	KQ2317362-01 MB
37)	Sample	23	1101F037	608	KQ2317362-02 LCS 608
38)	Sample	24	1101F038	608	KQ2317362-03 DLCS 608
39)	Sample	25	1101F039	608	KQ2317362-04 LCS 1660
40)	Sample	26	1101F040	608	KQ2317362-05 DLCS 1660
41)	Sample	27	1101F041	608	K2311290-006

Last Modified: Wed Nov 01 12:05:03 2023 Page: 1

Sequence Name: C:\GC33\Sequence\110723-608.sequence.xml
Comment:
Operator:
Data Path: C:\GC33\Data\110723\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Run: 823308

Cal: KC2300589

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run	Sequence Barcode Options
(X) Full Method	( ) On Mismatch, Inject Anyway
( ) Reprocessing Only	( ) On Mismatch, Don't Inject
	(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	1107F001	608	PRIMER
2)	Sample	100	1107F002	608	PRIMER
3)	Sample	94	1107F003	608	PEM
4)	Sample	95	1107F004	608	DWSTD08-85L 608 75PPB
5)	Sample	96	1107F005	608	PCB9-50J 1600 200PPB
6)	Sample	97	1107F006	608	TOX DWSTD08-83C 500PPB
7)	Sample	98	1107F007	608	CHLOR DWSD83D 200PPB
8)	Sample	99	1107F008	608	IB
9)	Sample	30	1107F009	608	KQ2317362-05 DLCS 1660
10)	Sample	1	1107F010	608	KQ2318921-01 MB
11)	Sample	2	1107F011	608	KQ2318921-02 LCS 608
12)	Sample	3	1107F012	608	KQ2318921-03 DLCS 608
13)	Sample	4	1107F013	608	KQ2318921-04 LCS 1660
14)	Sample	5	1107F014	608	KQ2318921-05 LCS 1660
15)	Sample	6	1107F015	608	K2312061-005
16)	Sample	7	1107F016	608	KQ2309493-01 MB
17)	Sample	8	1107F017	608	KQ2309493-02 LCS 608
18)	Sample	9	1107F018	608	KQ2309493-03 DLCS 608
19)	Sample	10	1107F019	608	KQ2309493-04 LCS 1660
20)	Sample	11	1107F020	608	KQ2309493-05 DLCS 1660
21)	Sample	12	1107F021	608	K2312353-001
22)	Sample	13	1107F022	608	KQ2319199-01 MB
23)	Sample	14	1107F023	608	KQ2319199-02 LCS 608
24)	Sample	15	1107F024	608	KQ2319199-03 DLCS 608
25)	Sample	94	1107F025	608	PEM
26)	Sample	95	1107F026	608	DWSTD08-85L 608 75PPB
27)	Sample	96	1107F027	608	PCB9-50J 1600 200PPB
28)	Sample	97	1107F028	608	TOX DWSTD08-83C 500PPB
29)	Sample	98	1107F029	608	CHLOR DWSD83D 200PPB
30)	Sample	99	1107F030	608	IB
31)	Sample	16	1107F031	608	KQ2319199-04 LCS 1660
32)	Sample	17	1107F032	608	KQ2319199-05 DLCS 1660
33)	Sample	18	1107F033	608	K2312242-001
34)	Sample	19	1107F034	608	K2312248-001
35)	Sample	20	1107F035	608	K2311358-005
36)	Sample	21	1107F036	608	K2311403-001
37)	Sample	22	1107F037	608	K2311341-001 10X
38)	Sample	99	1107F038	608	IB

Last Modified: Tue Nov 07 09:25:31 2023 Page: 1

run: 821752

Starting sequence Thu Nov 02 17:15:19 2023

Instrument Name: GC33
Sequence File: C:\GC33\Sequence\110223-608.sequence.xml
Comment:
Operator:
Data Path: C:\GC33\Data\110223\

Line	Type	Vials	DataFile	Sample Name
Acquisition Method Path: C:\GC33\Methods\				
Acquisition Method File: 608.M				
1)	Sample	100	1102F001	PRIMER
2)	Sample	100	1102F002	PRIMER
3)	Sample	100	1102F003	PRIMER
4)	Sample	100	1102F004	PRIMER
5)	Sample	100	1102F005	PRIMER
6)	Sample	94	1102F006	PEM
7)	Sample	95	1102F007	DWSTD08-85L 608 75PPB
8)	Sample	96	1102F008	PCB9-50J 1600 200PPB
9)	Sample	97	1102F009	TOX DWSTD08-83C 500PPB
10)	Sample	98	1102F010	CHLOR DWSD83D 200PPB
11)	Sample	99	1102F011	IB
12)	Sample	13	1102F012	K2310445-005
13)	Sample	14	1102F013	KQ2316839-01 MB
14)	Sample	15	1102F014	KQ2316839-02 LCS 608
15)	Sample	16	1102F015	KQ2316839-03 DLCS 608
16)	Sample	17	1102F016	KQ2316839-04 LCS 1660
17)	Sample	18	1102F017	KQ2316839-05 DLCS 1660
18)	Sample	19	1102F018	K2310823-001
19)	Sample	20	1102F019	K2310868-001
20)	Sample	21	1102F020	K2310879-001
21)	Sample	22	1102F021	KQ2317362-01 MB
22)	Sample	23	1102F022	KQ2317362-02 LCS 608
23)	Sample	24	1102F023	KQ2317362-03 DLCS 608
24)	Sample	25	1102F024	KQ2317362-04 LCS 1660
25)	Sample	26	1102F025	KQ2317362-05 DLCS 1660
26)	Sample	27	1102F026	K2311290-006
27)	Sample	28	1102F027	K2311307-001
28)	Sample	29	1102F028	K2311341-001
29)	Sample	30	1102F029	K2311358-005
30)	Sample	31	1102F030	K2311403-001
31)	Sample	94	1102F031	PEM
32)	Sample	95	1102F032	DWSTD08-85L 608 75PPB
33)	Sample	96	1102F033	PCB9-50J 1600 200PPB
34)	Sample	97	1102F034	TOX DWSTD08-83C 500PPB
35)	Sample	98	1102F035	CHLOR DWSD83D 200PPB
36)	Sample	99	1102F036	IB
37)	Sample	32	1102F037	K2311404-001
38)	Sample	33	1102F038	KQ2316994-01 MB

```
     39) Sample          34      1102F039              KQ2316994-02 LCS 608
     40) Sample          35      1102F040              KQ2316994-03 DLCS 608
     41) Sample          36      1102F041              KQ2316994-04 LCS 1660

Fri Nov 03 10:09:31 2023
    Fatal sequence error detected.
    User aborted run


      C:\GC33\Data\110223\2023 Nov 02 1715 Sequence Log .LOG
```

Volatile Organic Compounds by GC/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F022.D\
Lab ID: K2310979-002
RunType: N/A
Matrix: Wastewater

Date Acquired: 10/2/23 19:07:00
Batch ID: 819142
Analysis Method: 624.1/VOC_FP

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Lab Control Sample Recovery	X	
Duplicate Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Printed: 10/3/23 12:02
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F022.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 19:07:00	**Vial:**	9
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2310979-002	**Raw Units:**	ppb

Bottle ID:	K2310979-002.04	**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	VOC_FP	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	819142	**Prep Lot:**		**Report Group:**	K2310979
Analysis	624.1	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	24217

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Fluorobenzene	5.72		1047537	10.00	OK
1,4-Dichlorobenzene-d4	11.59		307212	10.00	OK
Chlorobenzene-d5	9.17		400016	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		301364	9.27	93	68 - 120	Y
Dibromofluoromethane	4.86		210082	9.83	98	76 - 132	Y
Toluene-d8	7.59		974030	9.75	98	80 - 120	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
1,1,1-Trichloroethane (TCA)	0.00		0	0.00	0	U	Y
1,1,2,2-Tetrachloroethane	0.00		0	0.00	0	U	Y
1,1,2-Trichloroethane	0.00		0	0.00	0	U	Y
1,1-Dichloroethane	0.00		0	0.00	0	U	Y
1,1-Dichloroethene	0.00		0	0.00	0	U	Y
1,2-Dichlorobenzene	0.00		0	0.00	0	U	Y
1,2-Dichloroethane (EDC)	0.00		0	0.00	0	U	Y
1,2-Dichloropropane	0.00		0	0.00	0	U	Y
1,3-Dichlorobenzene	0.00		0	0.00	0	U	Y
1,4-Dichlorobenzene	0.00		0	0.00	0	U	Y
2-Chloroethyl Vinyl Ether	0.00		0	0.00	0	U	Y
Acrolein	0.00		0	0.00	0	U	Y
Acrylonitrile	0.00		0	0.00	0	U	Y
Benzene	0.00		0	0.00	0	U	Y
Bromoform	0.00		0	0.00	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 10/3/23 12:02
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F022.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 19:07:00	**Vial:**	9
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2310979-002	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bromomethane	0.00		0	0.00	0	U	Y
Carbon Tetrachloride	0.00		0	0.00	0	U	Y
Chlorobenzene	0.00		0	0.00	0	U	Y
Chloroethane	0.00		0	0.00	0	U	Y
Chloroform	4.63		1386	0.03	0.030	U	Y
Chloromethane	0.00		0	0.00	0	U	Y
Dibromochloromethane	0.00		0	0.00	0	U	Y
Bromodichloromethane	0.00		0	0.00	0	U	Y
Dichlorodifluoromethane (CFC 12)	0.00		0	0.00	0	U	Y
Methylene Chloride	2.76		1034	0.03	0.030	U	Y
Ethylbenzene	0.00		0	0.00	0	U	Y
Tetrachloroethene (PCE)	0.00		0	0.00	0	U	Y
Toluene	0.00		0	0.00	0	U	Y
Trichloroethene (TCE)	0.00		0	0.00	0	U	Y
Trichlorofluoromethane	0.00		0	0.00	0	U	Y
Vinyl Chloride	0.00		0	0.00	0	U	Y
cis-1,3-Dichloropropene	0.00		0	0.00	0	U	Y
trans-1,2-Dichloroethene	0.00		0	0.00	0	U	Y
trans-1,3-Dichloropropene	0.00		0	0.00	0	U	Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F022.D Vial: 21
Acq On : 2 Oct 2023 7:07 pm Operator: GH/EW/OT/MK
Sample : K2310979-002 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 10:47:14 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1047537	10.00	PPB		0.00
64) Chlorobenzene-d5	9.17	82	400016	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	307212	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	210082	9.83	PPB		0.00
Spiked Amount 10.000			Recovery =	98.30%			
47) 1,2-Dichloroethane-d4	5.35	65	262116	11.00	PPB		0.00
Spiked Amount 10.000			Recovery =	110.00%			
62) Toluene-d8	7.59	98	974030	9.75	PPB		0.00
Spiked Amount 10.000			Recovery =	97.50%			
84) 4-Bromofluorobenzene	10.42	95	301364	9.27	PPB		0.00
Spiked Amount 10.000			Recovery =	92.70%			
Target Compounds							Qvalue
13) Acetone	2.37	43	10047	2.43	PPB		89
20) Methylene Chloride	2.76	84	1034	0.03	PPB	#	65
39) Chloroform	4.63	83	1386	0.03	PPB		75
106) Naphthalene	13.40	128	26221	1.34	PPB		97

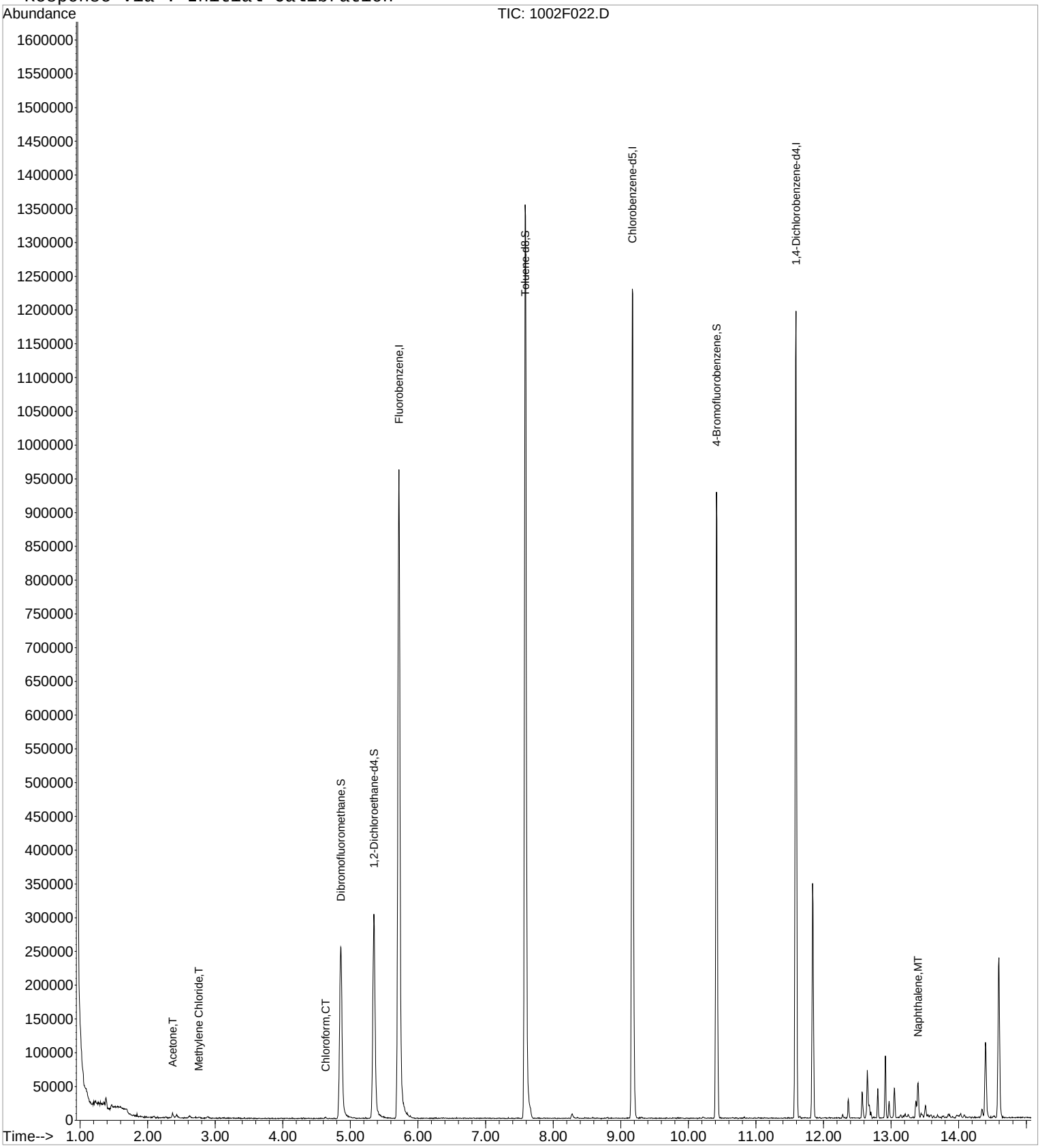
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

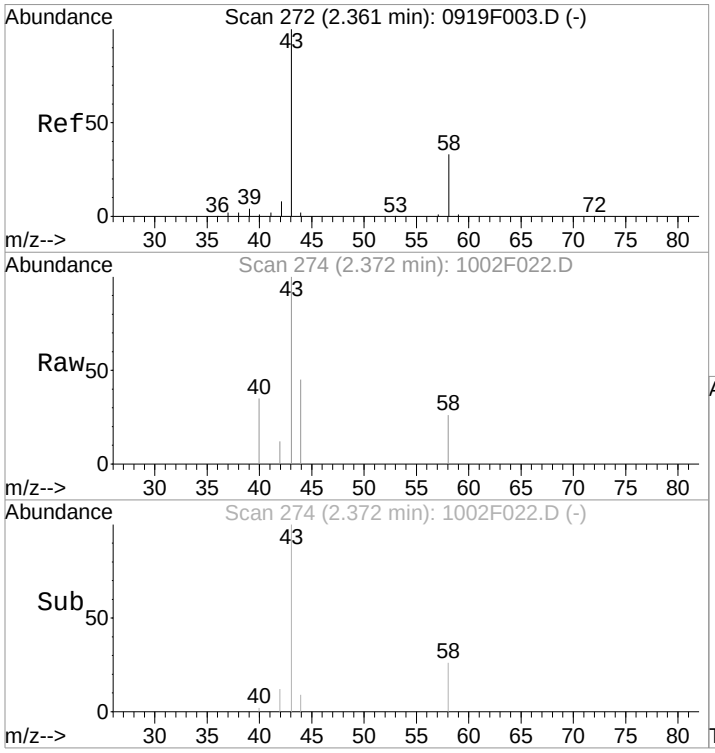
1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F022.D Vial: 21
Acq On : 2 Oct 2023 7:07 pm Operator: GH/EW/OT/MK
Sample : K2310979-002 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 11:41 2023 Quant Results File: 091123MS23_8260.RES

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration



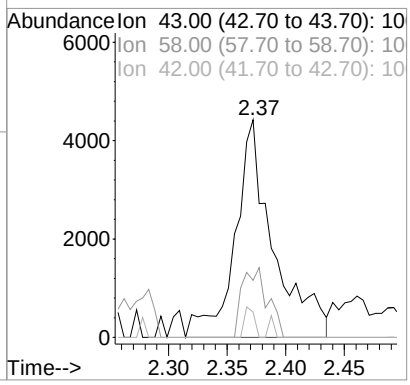
1st 10/03/23
2nd 10/04/23

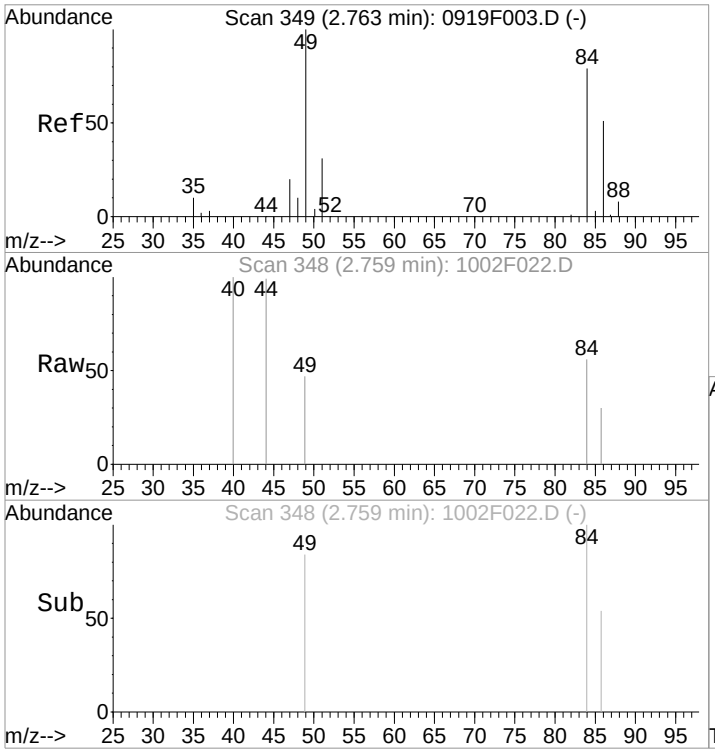


#13
Acetone
Concen: 2.43 PPB
RT: 2.37 min Scan# 274
Delta R.T. 0.01 min
Lab File: 1002F022.D
Acq: 2 Oct 2023 7:07 pm

Tgt Ion: 43 Resp: 10047

Ion	Ratio	Lower	Upper
43	100		
58	26.2	2.8	62.8
42	11.6	0.0	38.1

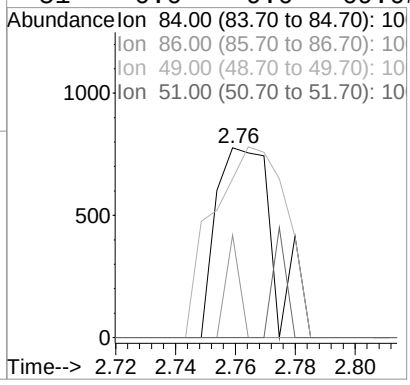




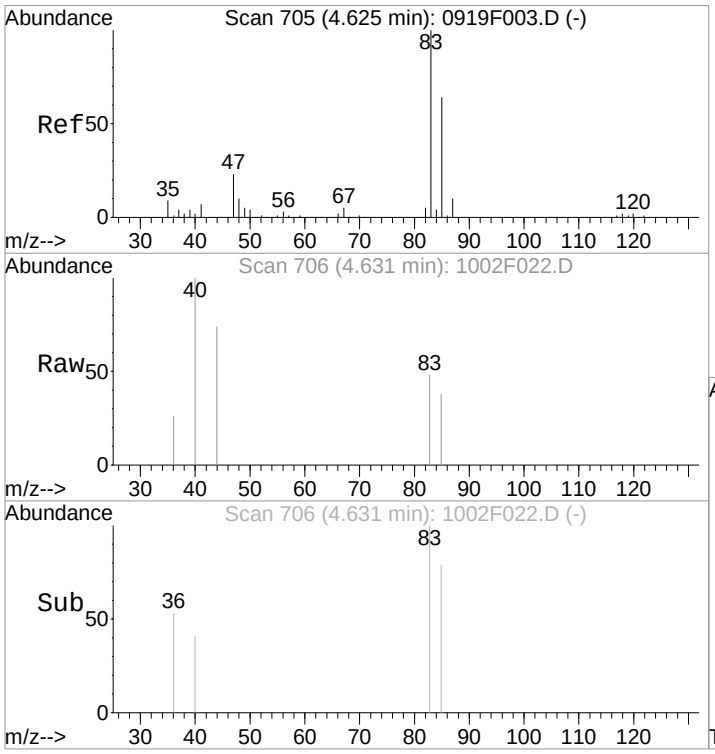
#20
Methylene Chloride
Concen: 0.03 PPB
RT: 2.76 min Scan# 348
Delta R.T. -0.01 min
Lab File: 1002F022.D
Acq: 2 Oct 2023 7:07 pm

Tgt Ion: 84 Resp: 1034

Ion	Ratio	Lower	Upper
84	100		
86	53.9	34.8	94.8
49	83.5	96.5	156.5#
51	0.0	9.0	69.0#



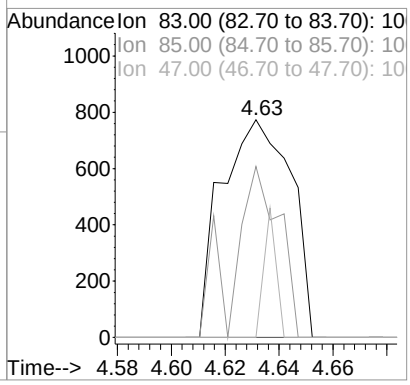
1st 10/03/23
2nd 10/04/23

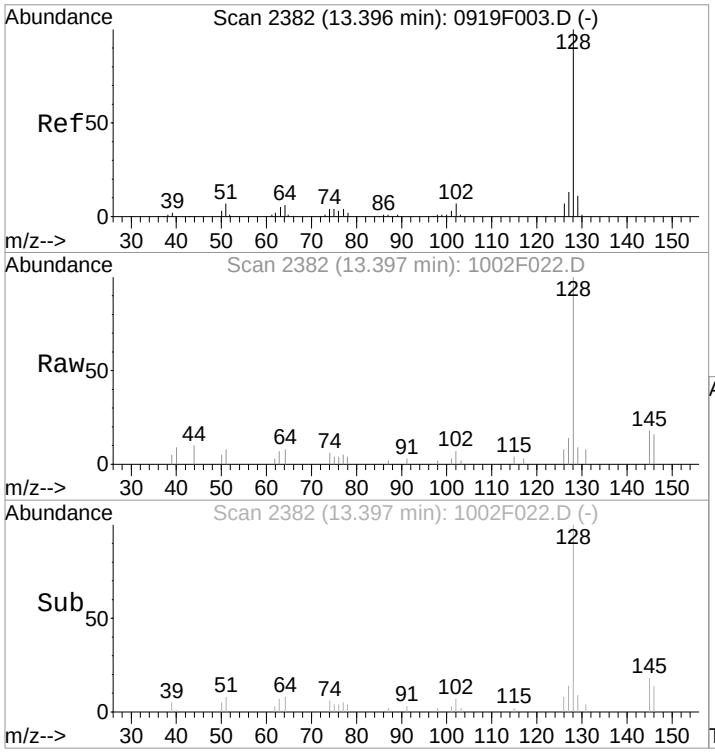


#39
Chloroform
Concen: 0.03 PPB
RT: 4.63 min Scan# 706
Delta R.T. 0.00 min
Lab File: 1002F022.D
Acq: 2 Oct 2023 7:07 pm

Tgt Ion: 83 Resp: 1386

Ion	Ratio	Lower	Upper
83	100		
85	78.5	36.0	96.0
47	0.0	0.0	55.3

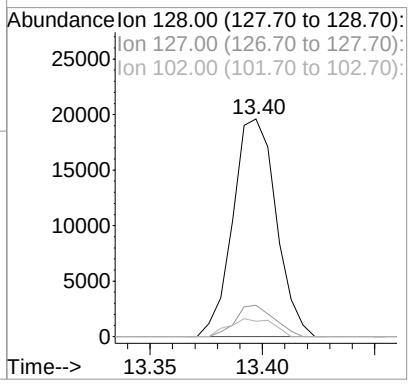




#106
Naphthalene
Concen: 1.34 PPB
RT: 13.40 min Scan# 2382
Delta R.T. -0.00 min
Lab File: 1002F022.D
Acq: 2 Oct 2023 7:07 pm

Tgt Ion:128 Resp: 26221

Ion	Ratio	Lower	Upper
128	100		
127	14.4	0.0	42.6
102	7.1	0.0	37.2



1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F011.D\
Lab ID: KQ2317367-04
RunType: MB
Matrix: Wastewater

Date Acquired: 10/2/23 14:39:00
Batch ID: 819142
Analysis Method: 624.1/VOC_FP

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F011.D\
Lab ID: KQ2317367-04
RunType: MB
Matrix: Wastewater

Date Acquired: 10/2/23 14:39:00
Batch ID: 819142
Analysis Method: 624.1/VOC_UNP

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F011.D\
Lab ID: KQ2317368-05
RunType: MB
Matrix: Water

Date Acquired: 10/2/23 14:39:00
Batch ID: 819143
Analysis Method: 8260C/VOC FP

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

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Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F011.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 14:39:00	**Vial:**	8
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317367-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	VOC_UNP	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	819142	**Prep Lot:**		**Report Group:**	KQ2317367
Analysis	624.1	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS, Unpreserved	**Calibration ID:**	KC2300542
		Report List ID:	23088

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Fluorobenzene	5.72		1087044	10.00	OK
1,4-Dichlorobenzene-d4	11.59		328380	10.00	OK
Chlorobenzene-d5	9.17		422318	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		323600	9.43	94	68 - 120	Y
Dibromofluoromethane	4.86		217531	9.81	98	76 - 132	Y
Toluene-d8	7.59		1021279	9.85	99	80 - 120	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
1,1,1-Trichloroethane (TCA)	0.00		0	0.00	0	U	Y
1,1,2,2-Tetrachloroethane	0.00		0	0.00	0	U	Y
1,1,2-Trichloroethane	0.00		0	0.00	0	U	Y
1,1-Dichloroethane	0.00		0	0.00	0	U	Y
1,1-Dichloroethene	0.00		0	0.00	0	U	Y
1,2-Dichlorobenzene	11.99		1659	0.04	0.040	J	Y
1,2-Dichloroethane (EDC)	0.00		0	0.00	0	U	Y
1,2-Dichloropropane	0.00		0	0.00	0	U	Y
1,3-Dichlorobenzene	11.51		858	0.02	0.020	J	Y
1,4-Dichlorobenzene	11.51		858	0.02	0.020	J	Y
2-Chloroethyl Vinyl Ether	0.00		0	0.00	0	U	Y
Acrolein	0.00		0	0.00	0	U	Y
Acrylonitrile	0.00		0	0.00	0	U	Y
Benzene	0.00		0	0.00	0	U	Y
Bromoform	0.00		0	0.00	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 10/03/23

2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F011.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 14:39:00	**Vial:**	8
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317367-04	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bromomethane	0.00		0	0.00	0	U	Y
Carbon Tetrachloride	0.00		0	0.00	0	U	Y
Chlorobenzene	0.00		0	0.00	0	U	Y
Chloroethane	0.00		0	0.00	0	U	Y
Chloroform	0.00		0	0.00	0	U	Y
Chloromethane	0.00		0	0.00	0	U	Y
Dibromochloromethane	0.00		0	0.00	0	U	Y
Bromodichloromethane	0.00		0	0.00	0	U	Y
Methylene Chloride	2.77		5543	0.14	0.14	J	Y
Ethylbenzene	0.00		0	0.00	0	U	Y
Tetrachloroethene (PCE)	0.00		0	0.00	0	U	Y
Toluene	0.00		0	0.00	0	U	Y
Trichloroethene (TCE)	0.00		0	0.00	0	U	Y
Vinyl Chloride	0.00		0	0.00	0	U	Y
cis-1,3-Dichloropropene	0.00		0	0.00	0	U	Y
trans-1,2-Dichloroethene	0.00		0	0.00	0	U	Y
trans-1,3-Dichloropropene	0.00		0	0.00	0	U	Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F011.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 14:39:00	**Vial:**	7
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317367-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	VOC_FP	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	819142	**Prep Lot:**		**Report Group:**	KQ2317367
Analysis	624.1	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	24217

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Fluorobenzene	5.72		1087044	10.00	OK
1,4-Dichlorobenzene-d4	11.59		328380	10.00	OK
Chlorobenzene-d5	9.17		422318	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		323600	9.43	94	68 - 120	Y
Dibromofluoromethane	4.86		217531	9.81	98	76 - 132	Y
Toluene-d8	7.59		1021279	9.85	99	80 - 120	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
1,1,1-Trichloroethane (TCA)	0.00		0	0.00	0	U	Y
1,1,2,2-Tetrachloroethane	0.00		0	0.00	0	U	Y
1,1,2-Trichloroethane	0.00		0	0.00	0	U	Y
1,1-Dichloroethane	0.00		0	0.00	0	U	Y
1,1-Dichloroethene	0.00		0	0.00	0	U	Y
1,2-Dichlorobenzene	11.99		1659	0.04	0.040	U	Y
1,2-Dichloroethane (EDC)	0.00		0	0.00	0	U	Y
1,2-Dichloropropane	0.00		0	0.00	0	U	Y
1,3-Dichlorobenzene	11.51		858	0.02	0.020	U	Y
1,4-Dichlorobenzene	11.51		858	0.02	0.020	U	Y
2-Chloroethyl Vinyl Ether	0.00		0	0.00	0	U	Y
Acrolein	0.00		0	0.00	0	U	Y
Acrylonitrile	0.00		0	0.00	0	U	Y
Benzene	0.00		0	0.00	0	U	Y
Bromoform	0.00		0	0.00	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 10/03/23

2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F011.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 14:39:00	**Vial:**	7
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317367-04	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bromomethane	0.00		0	0.00	0	U	Y
Carbon Tetrachloride	0.00		0	0.00	0	U	Y
Chlorobenzene	0.00		0	0.00	0	U	Y
Chloroethane	0.00		0	0.00	0	U	Y
Chloroform	0.00		0	0.00	0	U	Y
Chloromethane	0.00		0	0.00	0	U	Y
Dibromochloromethane	0.00		0	0.00	0	U	Y
Bromodichloromethane	0.00		0	0.00	0	U	Y
Dichlorodifluoromethane (CFC 12)	0.00		0	0.00	0	U	Y
Methylene Chloride	2.77		5543	0.14	0.14	U	Y
Ethylbenzene	0.00		0	0.00	0	U	Y
Tetrachloroethene (PCE)	0.00		0	0.00	0	U	Y
Toluene	0.00		0	0.00	0	U	Y
Trichloroethene (TCE)	0.00		0	0.00	0	U	Y
Trichlorofluoromethane	0.00		0	0.00	0	U	Y
Vinyl Chloride	0.00		0	0.00	0	U	Y
cis-1,3-Dichloropropene	0.00		0	0.00	0	U	Y
trans-1,2-Dichloroethene	0.00		0	0.00	0	U	Y
trans-1,3-Dichloropropene	0.00		0	0.00	0	U	Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F011.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 14:39:00	**Vial:**	5
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317368-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	III	**Matrix:**	Water
Prod Code:	VOC FP	**Collect Date:**	9/21/23	**Receive Date:**	9/22/23

Analysis Lot:	819143	**Prep Lot:**		**Report Group:**	KQ2317368
Analysis	8260C	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	20915

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chlorobenzene-d5	9.17		422318	10.00	OK
1,4-Dichlorobenzene-d4	11.59		328380	10.00	OK
Fluorobenzene	5.72		1087044	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		323600	9.43	94	68 - 117	Y
Dibromofluoromethane	4.86		217531	9.81	98	73 - 122	Y
Toluene-d8	7.59		1021279	9.85	99	65 - 144	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Acetone	0.00		0	0.00	0	U	Y
Benzene	0.00		0	0.00	0	U	Y
Bromobenzene	0.00		0	0.00	0	U	Y
Bromochloromethane	0.00		0	0.00	0	U	Y
Bromodichloromethane	0.00		0	0.00	0	U	Y
Bromoform	0.00		0	0.00	0	U	Y
Bromomethane	0.00		0	0.00	0	U	Y
2-Butanone (MEK)	0.00		0	0.00	0	U	Y
n-Butylbenzene	11.96	+0.01	999	0.02	0.020	U	Y
sec-Butylbenzene	0.00		0	0.00	0	U	Y
tert-Butylbenzene	0.00		0	0.00	0	U	Y
Carbon Disulfide	2.43		8492	0.10	0.10	J	Y
Carbon Tetrachloride	0.00		0	0.00	0	U	Y
Chlorobenzene	0.00		0	0.00	0	U	Y
Chloroethane	0.00		0	0.00	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F011.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 14:39:00	**Vial:**	5
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317368-05	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Chloroform	0.00		0	0.00	0	U	Y
Chloromethane	0.00		0	0.00	0	U	Y
2-Chlorotoluene	0.00		0	0.00	0	U	Y
4-Chlorotoluene	10.87	+0.01	1240	0.01	0.010	U	Y
1,2-Dibromo-3-chloropropane	0.00		0	0.00	0	U	Y
Dibromochloromethane	0.00		0	0.00	0	U	Y
1,2-Dibromoethane (EDB)	0.00		0	0.00	0	U	Y
Dibromomethane	0.00		0	0.00	0	U	Y
1,2-Dichlorobenzene	11.99		1659	0.04	0.040	U	Y
1,3-Dichlorobenzene	11.51		858	0.02	0.020	U	Y
1,4-Dichlorobenzene	11.51	-0.10	858	0.02	0.020	U	Y
Dichlorodifluoromethane	0.00		0	0.00	0	U	Y
1,1-Dichloroethane	0.00		0	0.00	0	U	Y
1,2-Dichloroethane (EDC)	0.00		0	0.00	0	U	Y
1,1-Dichloroethene	0.00		0	0.00	0	U	Y
cis-1,2-Dichloroethene	0.00		0	0.00	0	U	Y
trans-1,2-Dichloroethene	0.00		0	0.00	0	U	Y
1,2-Dichloropropane	0.00		0	0.00	0	U	Y
1,3-Dichloropropane	0.00		0	0.00	0	U	Y
2,2-Dichloropropane	0.00		0	0.00	0	U	Y
1,1-Dichloropropene	0.00		0	0.00	0	U	Y
cis-1,3-Dichloropropene	0.00		0	0.00	0	U	Y
trans-1,3-Dichloropropene	0.00		0	0.00	0	U	Y
Ethylbenzene	0.00		0	0.00	0	U	Y
Hexachlorobutadiene	13.30		1390	0.16	0.16	J	Y
2-Hexanone	0.00		0	0.00	0	U	Y
Isopropylbenzene	0.00		0	0.00	0	U	Y
4-Isopropyltoluene	0.00		0	0.00	0	U	Y
4-Methyl-2-pentanone (MIBK)	0.00		0	0.00	0	U	Y
Methylene Chloride	2.77	+0.01	5543	0.14	0.14	J	Y
Naphthalene	13.40		6420	0.31	0.31	J	Y
n-Propylbenzene	0.00		0	0.00	0	U	Y
Styrene	0.00		0	0.00	0	U	Y
1,1,1,2-Tetrachloroethane	0.00		0	0.00	0	U	Y
1,1,2,2-Tetrachloroethane	0.00		0	0.00	0	U	Y
Tetrachloroethene (PCE)	0.00		0	0.00	0	U	Y
Toluene	0.00		0	0.00	0	U	Y
1,2,3-Trichlorobenzene	13.59		3345	0.46	0.46	J	Y
1,2,4-Trichlorobenzene	13.21	+0.01	2856	0.20	0.20	J	Y
1,1,2-Trichloroethane	0.00		0	0.00	0	U	Y
1,1,1-Trichloroethane (TCA)	0.00		0	0.00	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F011.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 14:39:00	**Vial:**	5
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317368-05	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Trichloroethene (TCE)	0.00		0	0.00	0	U	Y
Trichlorofluoromethane (CFC 11)	0.00		0	0.00	0	U	Y
1,2,3-Trichloropropane	0.00		0	0.00	0	U	Y
1,2,4-Trimethylbenzene	0.00		0	0.00	0	U	Y
1,3,5-Trimethylbenzene	0.00		0	0.00	0	U	Y
Vinyl Chloride	0.00		0	0.00	0	U	Y
o-Xylene	0.00		0	0.00	0	U	Y
m,p-Xylenes	0.00		0	0.00	0	U	Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F011.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 14:39:00	**Vial:**	5
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317368-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	III	**Matrix:**	Water
Prod Code:	VOC FP	**Collect Date:**	9/21/23	**Receive Date:**	9/22/23

Analysis Lot:	819143	**Prep Lot:**		**Report Group:**	KQ2317368
Analysis	8260C	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	23955

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chlorobenzene-d5	9.17		422318	10.00	OK
1,4-Dichlorobenzene-d4	11.59		328380	10.00	OK
Fluorobenzene	5.72		1087044	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		323600	9.43	94	68 - 117	Y
Dibromofluoromethane	4.86		217531	9.81	98	73 - 122	Y
Toluene-d8	7.59		1021279	9.85	99	65 - 144	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Chlorobenzene	0.00		0	0.00	0	U	Y
Tetrachloroethene (PCE)	0.00		0	0.00	0	U	Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 10/3/23 12:04
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Quantitation Report (QT Reviewed)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F011.D Vial: 10
Acq On : 2 Oct 2023 2:39 pm Operator: GH/EW/OT/MK
Sample : MB Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 10:47:01 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1087044	10.00	PPB		0.00
64) Chlorobenzene-d5	9.17	82	422318	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	328380	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	217531	9.81	PPB		0.00
Spiked Amount 10.000			Recovery =	98.10%			
47) 1,2-Dichloroethane-d4	5.34	65	272816	11.03	PPB		0.00
Spiked Amount 10.000			Recovery =	110.30%			
62) Toluene-d8	7.59	98	1021279	9.85	PPB		0.00
Spiked Amount 10.000			Recovery =	98.50%			
84) 4-Bromofluorobenzene	10.42	95	323600	9.43	PPB		0.00
Spiked Amount 10.000			Recovery =	94.30%			
Target Compounds							Qvalue
15) Carbon Disulfide	2.43	76	8492	0.10	PPB		98
20) Methylene Chloride	2.77	84	5543	0.14	PPB		91
67) Ethyl methacrylate	7.61	69	521	0.02	PPB	#	1
93) 4-Chlorotoluene	10.87	91	1240	0.01	PPB	#	48
98) 1,3-Dichlorobenzene	11.51	146	858	0.02	PPB		79
~~99) 1,4-Dichlorobenzene~~	~~11.51~~	~~146~~	~~858~~	~~0.02~~	~~PPB~~		~~77~~ WRT, ND
100) n-Butylbenzene	11.96	91	999	0.02	PPB	#	31
101) 1,2-Dichlorobenzene	11.99	146	1659	0.04	PPB	#	64
103) 1,3,5-Trichlorobenzene	12.75	180	1297	0.06	PPB		97
104) 1,2,4-Trichlorobenzene	13.21	180	2856	0.20	PPB		79
105) Hexachlorobutadiene	13.30	225	1390	0.16	PPB	#	47
106) Naphthalene	13.40	128	6420	0.31	PPB		68
107) 1,2,3-Trichlorobenzene	13.59	180	3345	0.46	PPB		97

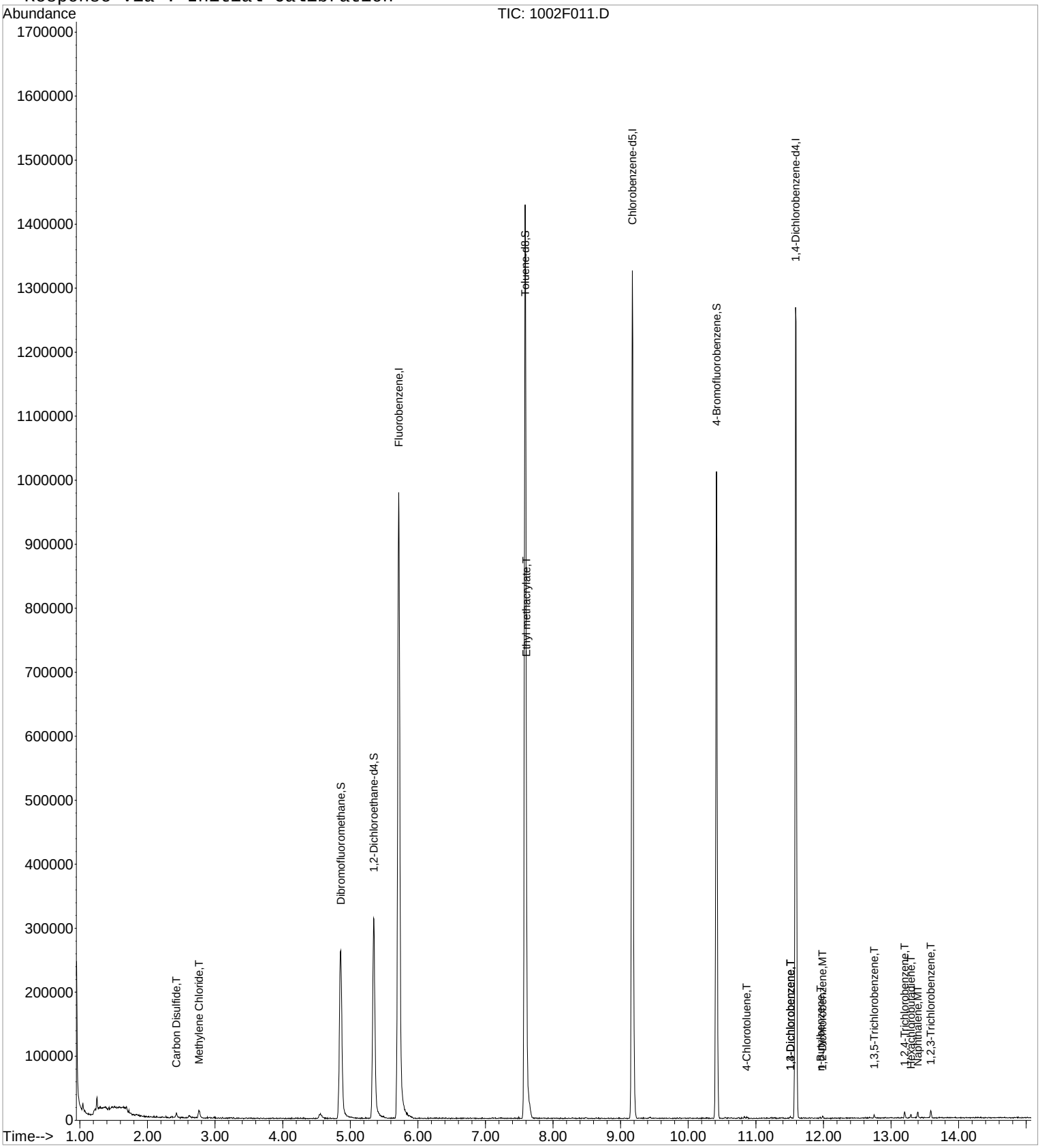
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

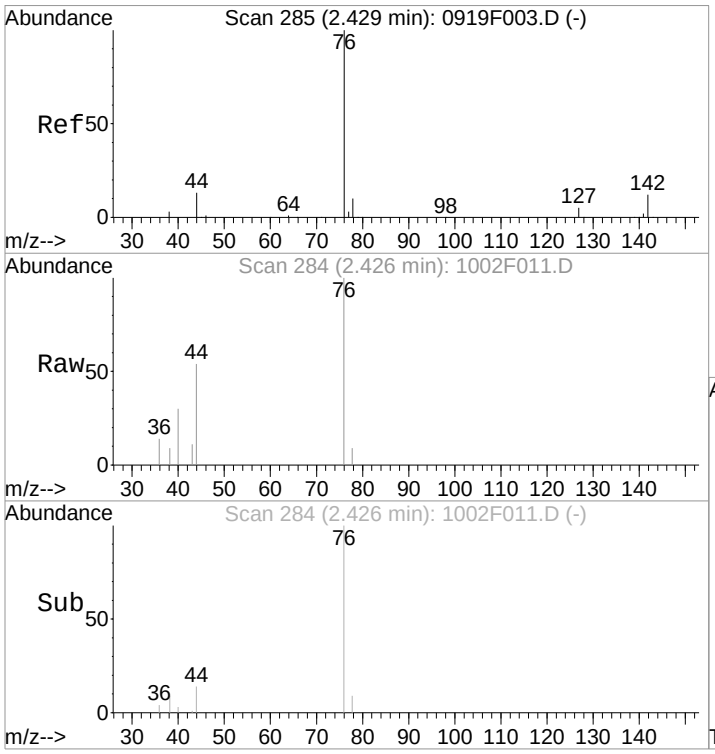
1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F011.D Vial: 10
Acq On : 2 Oct 2023 2:39 pm Operator: GH/EW/OT/MK
Sample : MB Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 11:11 2023 Quant Results File: 091123MS23_8260.RES

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration



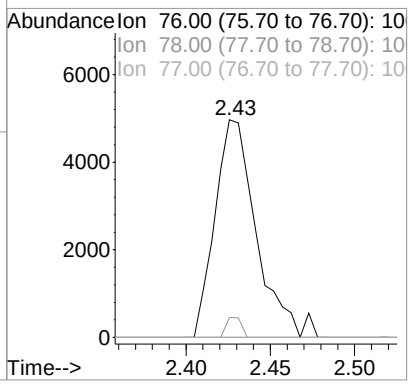
1st 10/03/23
2nd 10/04/23

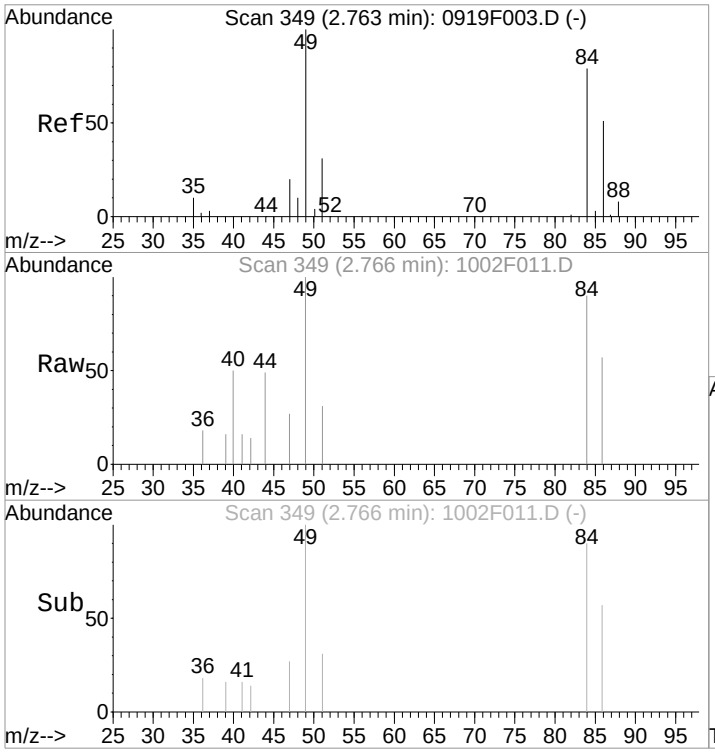


#15
Carbon Disulfide
Concen: 0.10 PPB
RT: 2.43 min Scan# 284
Delta R.T. -0.01 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion: 76 Resp: 8492

Ion	Ratio	Lower	Upper
76	100		
78	9.2	0.0	39.0
77	0.0	0.0	32.5

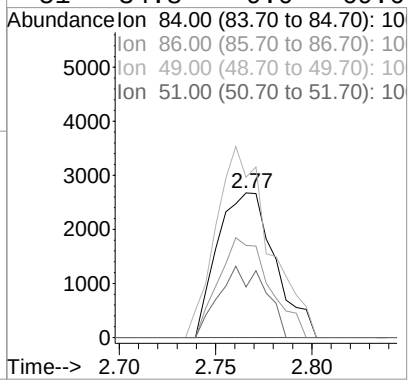




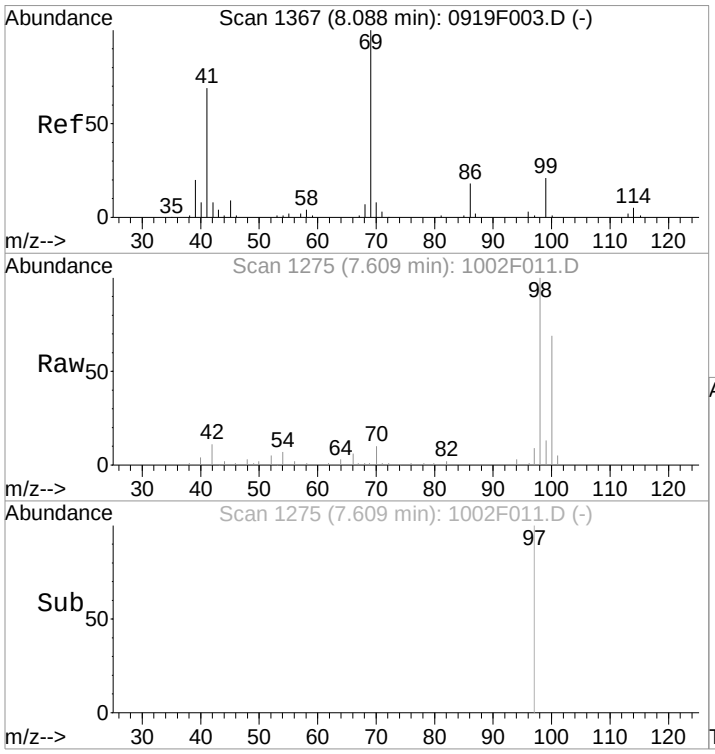
#20
Methylene Chloride
Concen: 0.14 PPB
RT: 2.77 min Scan# 349
Delta R.T. -0.00 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion: 84 Resp: 5543

Ion	Ratio	Lower	Upper
84	100		
86	63.7	34.8	94.8
49	110.9	96.5	156.5
51	34.8	9.0	69.0



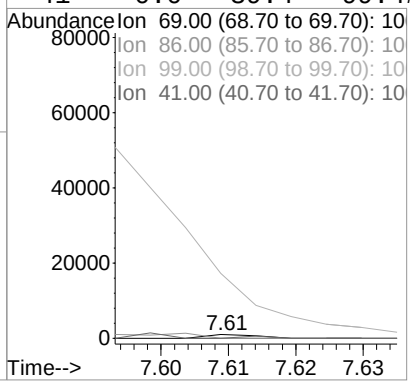
1st 10/03/23
2nd 10/04/23

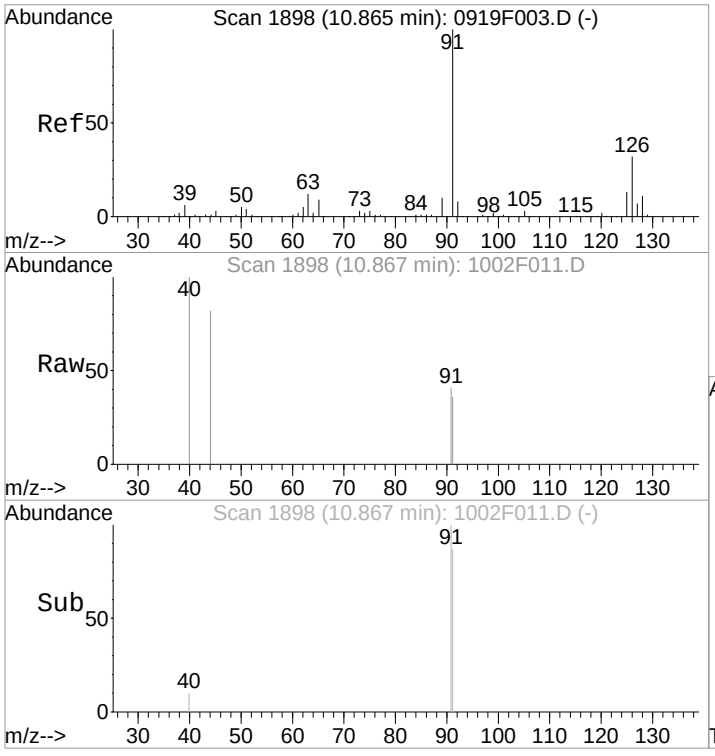


#67
Ethyl methacrylate
Concen: 0.02 PPB
RT: 7.61 min Scan# 1275
Delta R.T. -0.48 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion: 69 Resp: 521

Ion	Ratio	Lower	Upper
69	100		
86	0.0	0.0	45.8
99	1323.6	0.0	48.5#
41	0.0	39.4	99.4#

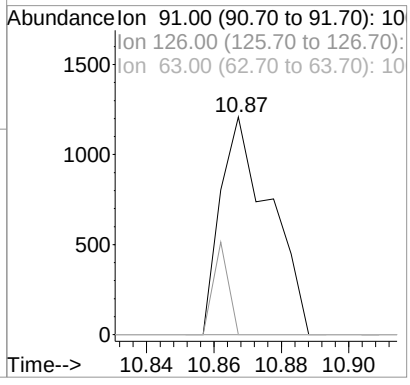




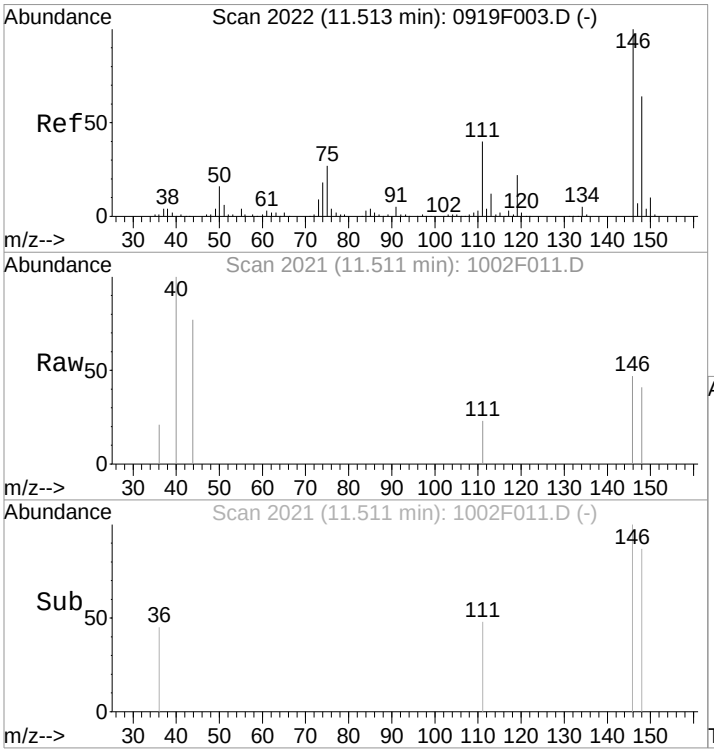
#93
4-Chlorotoluene
Concen: 0.01 PPB
RT: 10.87 min Scan# 1898
Delta R.T. -0.00 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion: 91 Resp: 1240

Ion	Ratio	Lower	Upper
91	100		
126	0.0	3.8	63.8#
63	0.0	0.0	42.1



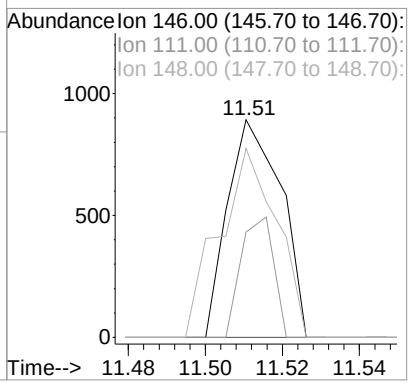
1st 10/03/23
2nd 10/04/23

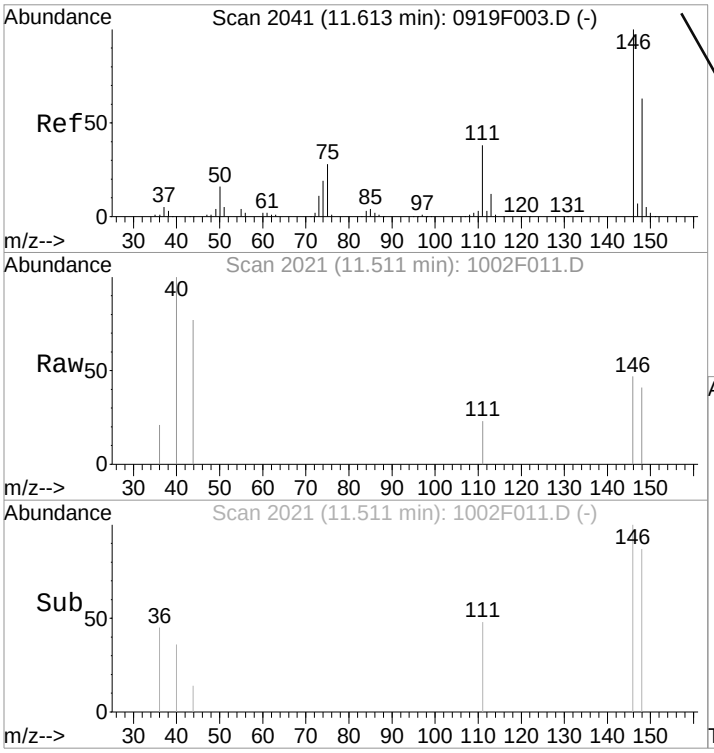


#98
1,3-Dichlorobenzene
Concen: 0.02 PPB
RT: 11.51 min Scan# 2021
Delta R.T. -0.00 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion:146 Resp: 858

Ion	Ratio	Lower	Upper
146	100		
111	48.4	11.0	71.0
148	86.9	36.1	96.1



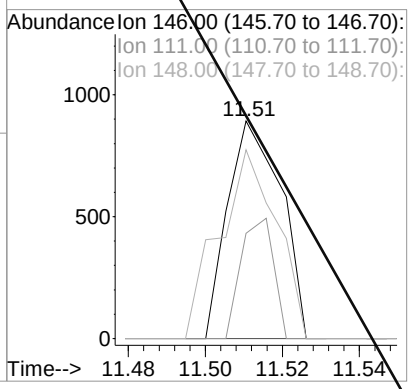


#99
1,4-Dichlorobenzene
Concen: 0.02 PPB
RT: 11.51 min Scan# 2021
Delta R.T. -0.11 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

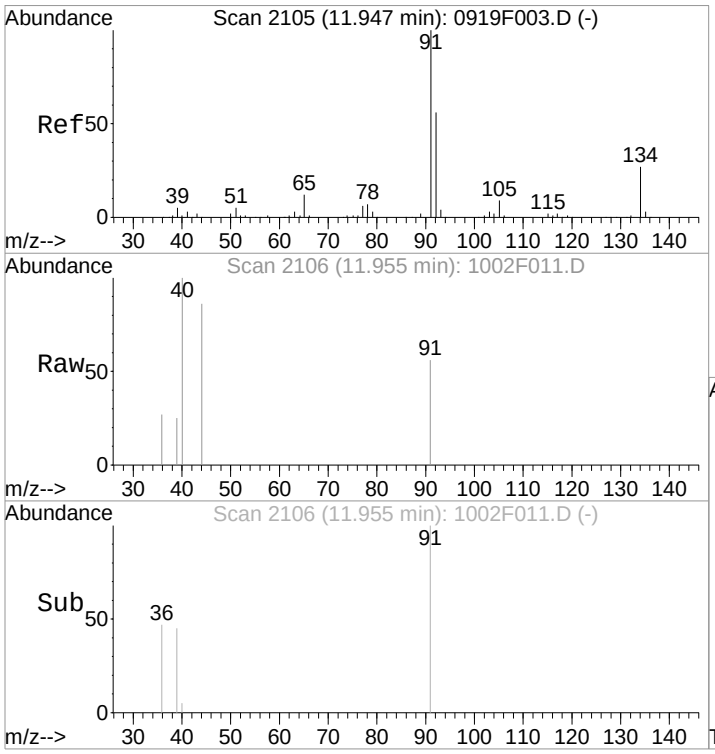
WRT, ND

Tgt Ion:146 Resp: 858

Ion	Ratio	Lower	Upper
146	100		
111	48.4	9.6	69.6
148	86.9	34.2	94.2



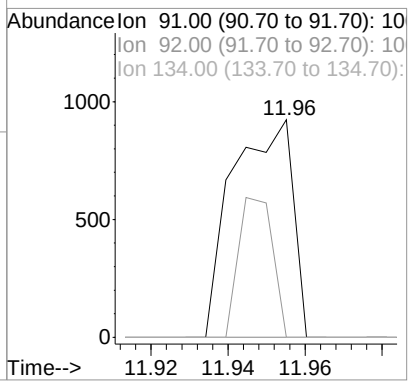
1st 10/03/23
2nd 10/04/23

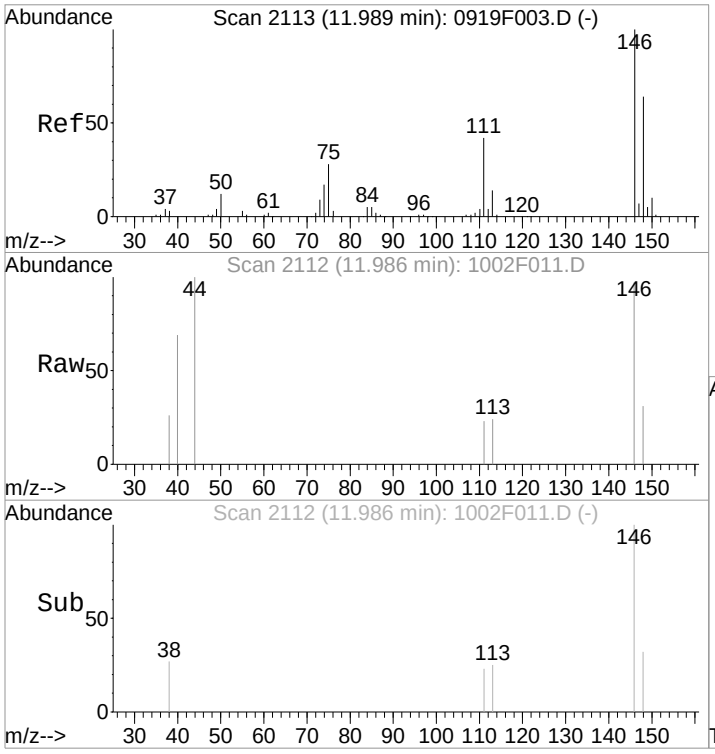


#100
n-Butylbenzene
Concen: 0.02 PPB
RT: 11.96 min Scan# 2106
Delta R.T. 0.01 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion: 91 Resp: 999

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.3	86.3#
134	0.0	0.0	57.0

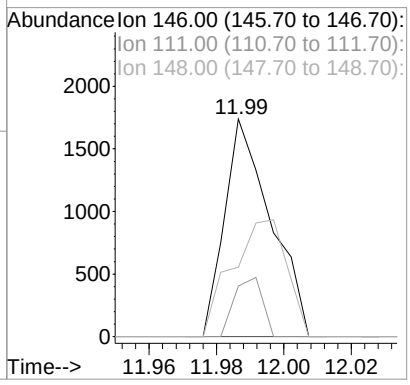




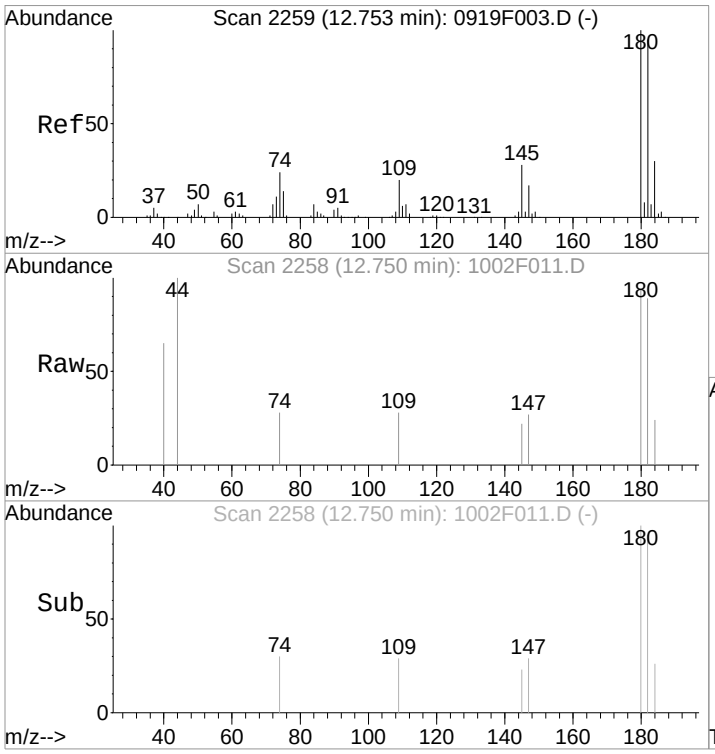
#101
1,2-Dichlorobenzene
Concen: 0.04 PPB
RT: 11.99 min Scan# 2112
Delta R.T. -0.01 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion:146 Resp: 1659

Ion	Ratio	Lower	Upper
146	100		
111	23.3	11.5	71.5
148	31.9	33.8	93.8#



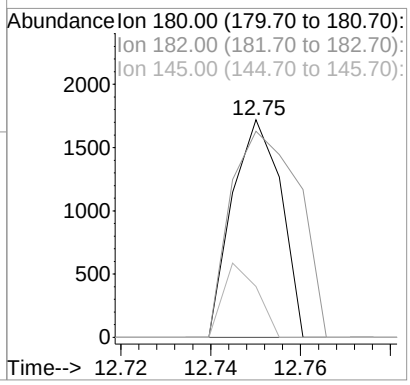
1st 10/03/23
2nd 10/04/23

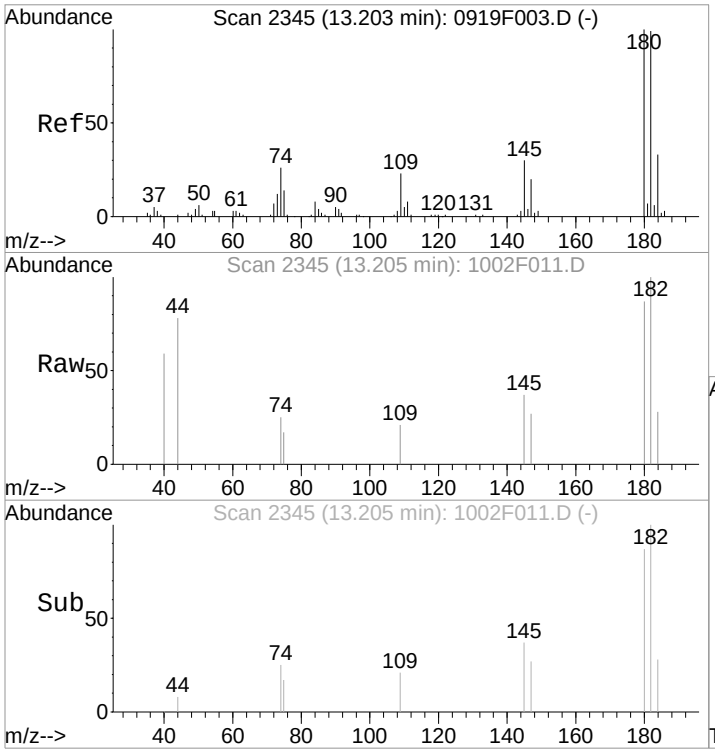


#103
1,3,5-Trichlorobenzene
Concen: 0.06 PPB
RT: 12.75 min Scan# 2258
Delta R.T. -0.01 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion:180 Resp: 1297

Ion	Ratio	Lower	Upper
180	100		
182	94.7	66.4	126.4
145	23.3	0.0	57.9

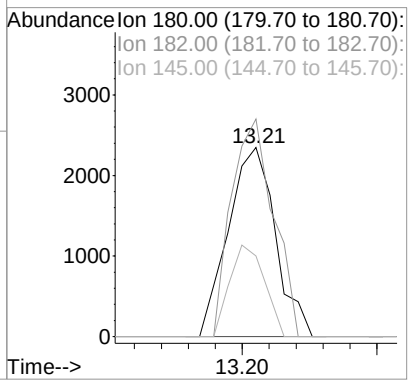




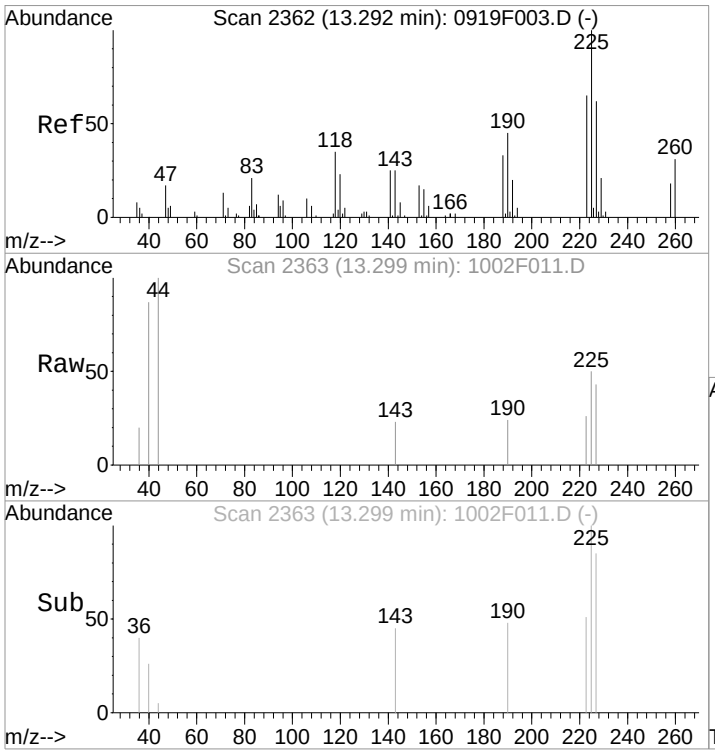
#104
1,2,4-Trichlorobenzene
Concen: 0.20 PPB
RT: 13.21 min Scan# 2345
Delta R.T. -0.00 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion:180 Resp: 2856

Ion	Ratio	Lower	Upper
180	100		
182	115.0	66.3	126.3
145	42.7	0.0	58.9



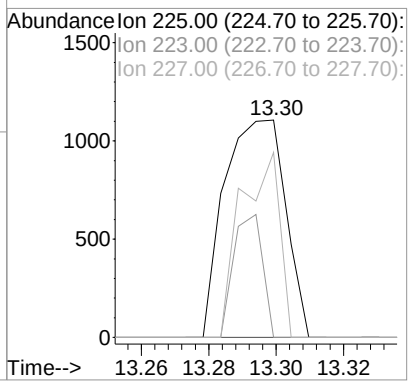
1st 10/03/23
2nd 10/04/23

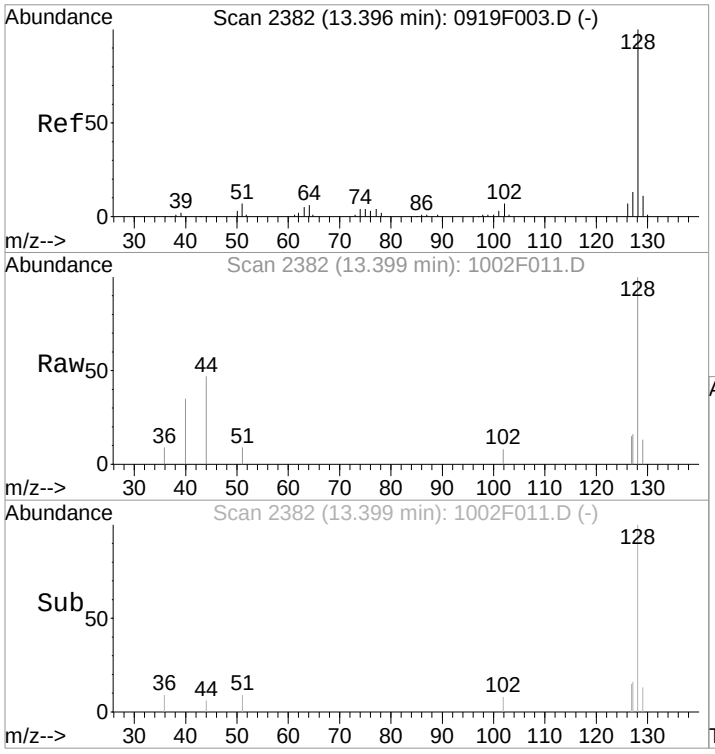


#105
Hexachlorobutadiene
Concen: 0.16 PPB
RT: 13.30 min Scan# 2363
Delta R.T. 0.00 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion:225 Resp: 1390

Ion	Ratio	Lower	Upper
225	100		
223	0.0	35.2	95.2#
227	85.1	36.0	96.0

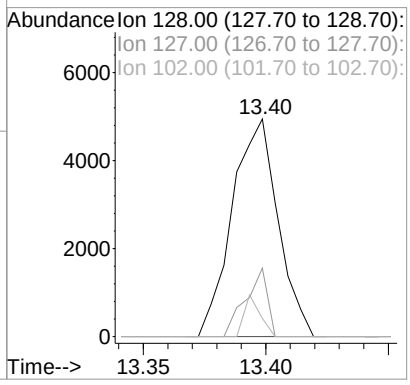




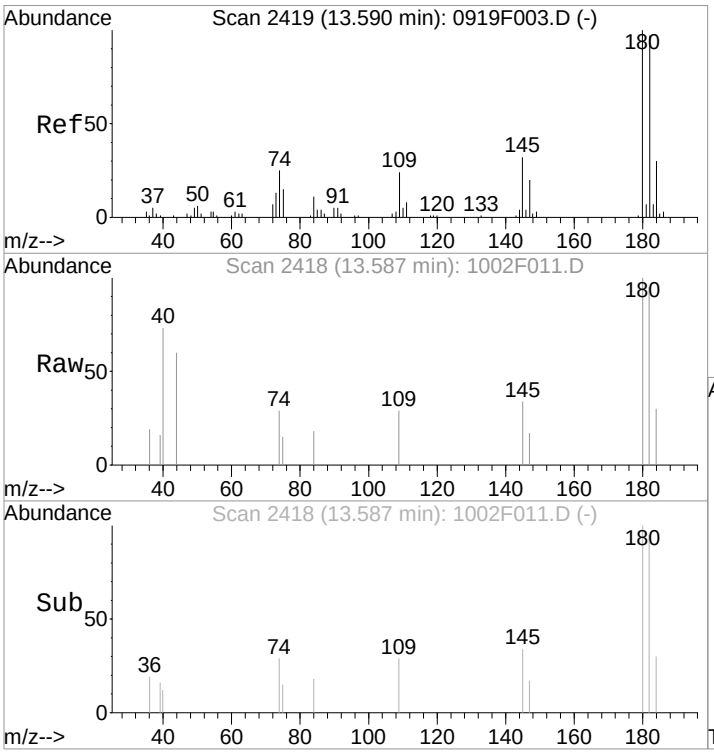
#106
Naphthalene
Concen: 0.31 PPB
RT: 13.40 min Scan# 2382
Delta R.T. -0.00 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion:128 Resp: 6420

Ion	Ratio	Lower	Upper
128	100		
127	31.5	0.0	42.6
102	8.5	0.0	37.2



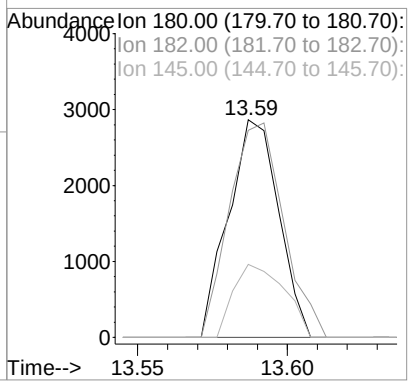
1st 10/03/23
2nd 10/04/23



#107
1,2,3-Trichlorobenzene
Concen: 0.46 PPB
RT: 13.59 min Scan# 2418
Delta R.T. -0.01 min
Lab File: 1002F011.D
Acq: 2 Oct 2023 2:39 pm

Tgt Ion:180 Resp: 3345

Ion	Ratio	Lower	Upper
180	100		
182	95.3	67.9	127.9
145	33.6	2.3	62.3



1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F004.D\
Lab ID: KQ2317367-02
RunType: LCS
Matrix: Wastewater

Date Acquired: 10/2/23 11:46:00
Batch ID: 819142
Analysis Method: 624.1/VOC_FP

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F004.D\
Lab ID: KQ2317367-02
RunType: LCS
Matrix: Wastewater

Date Acquired: 10/2/23 11:46:00
Batch ID: 819142
Analysis Method: 624.1/VOC_UNP

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F004.D\
Lab ID: KQ2317368-03
RunType: LCS
Matrix: Water

Date Acquired: 10/2/23 11:46:00
Batch ID: 819143
Analysis Method: 8260C/VOC FP

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

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Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F004.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 11:46:00	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317367-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	VOC_UNP	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	819142	**Prep Lot:**		**Report Group:**	KQ2317367
Analysis	624.1	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS, Unpreserved	**Calibration ID:**	KC2300542
		Report List ID:	23088

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Fluorobenzene	5.72		1271436	10.00	OK
1,4-Dichlorobenzene-d4	11.59		399514	10.00	OK
Chlorobenzene-d5	9.17		492100	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		408107	10.21	102	68 - 120	Y
Dibromofluoromethane	4.86		266249	10.27	103	76 - 132	Y
Toluene-d8	7.59		1237102	10.20	102	80 - 120	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
1,1,1-Trichloroethane (TCA)	4.79		471669	9.46	9.46		Y
1,1,2,2-Tetrachloroethane	10.62		231575	8.81	8.81		Y
1,1,2-Trichloroethane	8.21		230414	9.14	9.14		Y
1,1-Dichloroethane	3.50		665352	9.29	9.29		Y
1,1-Dichloroethene	2.25		321154	8.45	8.45		Y
1,2-Dichlorobenzene	11.99		483038	8.92	8.92		Y
1,2-Dichloroethane (EDC)	5.45		446318	9.21	9.21		Y
1,2-Dichloropropane	6.49		387794	9.14	9.14		Y
1,3-Dichlorobenzene	11.51		552887	9.05	9.05		Y
1,4-Dichlorobenzene	11.61		572231	8.83	8.83		Y
2-Chloroethyl Vinyl Ether	7.23		150424	10.18	10.2		Y
Acrolein	2.22		450942	133.14	133		Y
Acrylonitrile	3.09		291680	36.79	36.8	J	Y
Benzene	5.30		1653339	9.37	9.37		Y
Bromoform	10.08		89717	9.25	9.25		Y

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F004.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 11:46:00	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317367-02	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bromomethane	1.54		107773	5.96	5.96		Y
Carbon Tetrachloride	4.96		351171	9.47	9.47		Y
Chlorobenzene	9.20		995870	9.43	9.43		Y
Chloroethane	1.61		255108	8.96	8.96		Y
Chloroform	4.63		639510	9.98	9.98		Y
Chloromethane	1.22		334573	7.60	7.60		Y
Dibromochloromethane	8.59		222209	8.42	8.42		Y
Bromodichloromethane	6.83		380062	9.53	9.53		Y
Methylene Chloride	2.76		404885	8.59	8.59		Y
Ethylbenzene	9.30		497308	9.43	9.43		Y
Tetrachloroethene (PCE)	8.22		272961	9.21	9.21		Y
Toluene	7.66		996133	9.33	9.33		Y
Trichloroethene (TCE)	6.16		376027	9.22	9.22		Y
Vinyl Chloride	1.28		375393	8.37	8.37		Y
cis-1,3-Dichloropropene	7.36		501513	8.17	8.17		Y
trans-1,2-Dichloroethene	2.99		382993	9.31	9.31		Y
trans-1,3-Dichloropropene	8.02		354452	7.94	7.94		Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F004.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 11:46:00	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317367-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	VOC_FP	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	819142	**Prep Lot:**		**Report Group:**	KQ2317367
Analysis	624.1	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	24217

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Fluorobenzene	5.72		1271436	10.00	OK
1,4-Dichlorobenzene-d4	11.59		399514	10.00	OK
Chlorobenzene-d5	9.17		492100	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		408107	10.21	102	68 - 120	Y
Dibromofluoromethane	4.86		266249	10.27	103	76 - 132	Y
Toluene-d8	7.59		1237102	10.20	102	80 - 120	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
1,1,1-Trichloroethane (TCA)	4.79		471669	9.46	9.46		Y
1,1,2,2-Tetrachloroethane	10.62		231575	8.81	8.81		Y
1,1,2-Trichloroethane	8.21		230414	9.14	9.14		Y
1,1-Dichloroethane	3.50		665352	9.29	9.29		Y
1,1-Dichloroethene	2.25		321154	8.45	8.45		Y
1,2-Dichlorobenzene	11.99		483038	8.92	8.92		Y
1,2-Dichloroethane (EDC)	5.45		446318	9.21	9.21		Y
1,2-Dichloropropane	6.49		387794	9.14	9.14		Y
1,3-Dichlorobenzene	11.51		552887	9.05	9.05		Y
1,4-Dichlorobenzene	11.61		572231	8.83	8.83		Y
2-Chloroethyl Vinyl Ether	7.23		150424	10.18	10.2		Y
Acrolein	2.22		450942	133.14	133		Y
Acrylonitrile	3.09		291680	36.79	36.8	J	Y
Benzene	5.30		1653339	9.37	9.37		Y
Bromoform	10.08		89717	9.25	9.25		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F004.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 11:46:00	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317367-02	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bromomethane	1.54		107773	5.96	5.96		Y
Carbon Tetrachloride	4.96		351171	9.47	9.47		Y
Chlorobenzene	9.20		995870	9.43	9.43		Y
Chloroethane	1.61		255108	8.96	8.96		Y
Chloroform	4.63		639510	9.98	9.98		Y
Chloromethane	1.22		334573	7.60	7.60		Y
Dibromochloromethane	8.59		222209	8.42	8.42		Y
Bromodichloromethane	6.83		380062	9.53	9.53		Y
Dichlorodifluoromethane (CFC 12)	1.06		296332	6.45	6.45		Y
Methylene Chloride	2.76		404885	8.59	8.59		Y
Ethylbenzene	9.30		497308	9.43	9.43		Y
Tetrachloroethene (PCE)	8.22		272961	9.21	9.21		Y
Toluene	7.66		996133	9.33	9.33		Y
Trichloroethene (TCE)	6.16		376027	9.22	9.22		Y
Trichlorofluoromethane	1.79		516700	9.02	9.02		Y
Vinyl Chloride	1.28		375393	8.37	8.37		Y
cis-1,3-Dichloropropene	7.36		501513	8.17	8.17		Y
trans-1,2-Dichloroethene	2.99		382993	9.31	9.31		Y
trans-1,3-Dichloropropene	8.02		354452	7.94	7.94		Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F004.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 11:46:00	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317368-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	III	**Matrix:**	Water
Prod Code:	VOC FP	**Collect Date:**	9/21/23	**Receive Date:**	9/22/23

Analysis Lot:	819143	**Prep Lot:**		**Report Group:**	KQ2317368
Analysis	8260C	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	20915

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chlorobenzene-d5	9.17		492100	10.00	OK
1,4-Dichlorobenzene-d4	11.59		399514	10.00	OK
Fluorobenzene	5.72		1271436	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		408107	10.21	102	68 - 117	Y
Dibromofluoromethane	4.86		266249	10.27	103	73 - 122	Y
Toluene-d8	7.59		1237102	10.20	102	65 - 144	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Acetone	2.36		277943	55.43	55.4		Y
Benzene	5.30		1653339	9.37	9.37		Y
Bromobenzene	10.55		349048	9.06	9.06		Y
Bromochloromethane	4.52	-0.01	172405	9.90	9.90		Y
Bromodichloromethane	6.83		380062	9.53	9.53		Y
Bromoform	10.08		89717	9.25	9.25		Y
Bromomethane	1.54		107773	5.96	5.96		Y
2-Butanone (MEK)	4.28	+0.01	115308	51.85	51.9		Y
n-Butylbenzene	11.95		660081	9.24	9.24		Y
sec-Butylbenzene	11.38		1004906	9.61	9.61		Y
tert-Butylbenzene	11.15		748847	8.87	8.87		Y
Carbon Disulfide	2.43		1698950	17.11	17.1		Y
Carbon Tetrachloride	4.96		351171	9.47	9.47		Y
Chlorobenzene	9.20		995870	9.43	9.43		Y
Chloroethane	1.61		255108	8.96	8.96		Y

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F004.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 11:46:00	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317368-03	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Chloroform	4.63		639510	9.98	9.98		Y
Chloromethane	1.22	-0.01	334573	7.60	7.60		Y
2-Chlorotoluene	10.75	+0.01	890693	8.68	8.68		Y
4-Chlorotoluene	10.87	+0.01	1062921	9.02	9.02		Y
1,2-Dibromo-3-chloropropane	12.65		15615	7.76	7.76		Y
Dibromochloromethane	8.59	+0.01	222209	8.42	8.42		Y
1,2-Dibromoethane (EDB)	8.70		242212	9.55	9.55		Y
Dibromomethane	6.63		175657	9.89	9.89		Y
1,2-Dichlorobenzene	11.99		483038	8.92	8.92		Y
1,3-Dichlorobenzene	11.51		552887	9.05	9.05		Y
1,4-Dichlorobenzene	11.61		572231	8.83	8.83		Y
Dichlorodifluoromethane	1.06		296332	6.45	6.45		Y
1,1-Dichloroethane	3.50		665352	9.29	9.29		Y
1,2-Dichloroethane (EDC)	5.45		446318	9.21	9.21		Y
1,1-Dichloroethene	2.25		321154	8.45	8.45		Y
cis-1,2-Dichloroethene	4.21		421493	9.25	9.25		Y
trans-1,2-Dichloroethene	2.99		382993	9.31	9.31		Y
1,2-Dichloropropane	6.49		387794	9.14	9.14		Y
1,3-Dichloropropane	8.39		494718	9.01	9.01		Y
2,2-Dichloropropane	4.16		396812	8.84	8.84		Y
1,1-Dichloropropene	5.03		511314	9.28	9.28		Y
cis-1,3-Dichloropropene	7.36		501513	8.17	8.17		Y
trans-1,3-Dichloropropene	8.02		354452	7.94	7.94		Y
Ethylbenzene	9.30		497308	9.43	9.43		Y
Hexachlorobutadiene	13.29	-0.01	96206	9.06	9.06		Y
2-Hexanone	8.49	+0.01	129122	53.56	53.6		Y
Isopropylbenzene	10.22		1175696	9.14	9.14		Y
4-Isopropyltoluene	11.54	+0.01	876957	9.21	9.21		Y
4-Methyl-2-pentanone (MIBK)	7.55		390456	51.35	51.4		Y
Methylene Chloride	2.76		404885	8.59	8.59		Y
Naphthalene	13.40		229245	9.03	9.03		Y
n-Propylbenzene	10.65		1343448	8.97	8.97		Y
Styrene	9.88		470013	9.93	9.93		Y
1,1,1,2-Tetrachloroethane	9.31		261073	9.43	9.43		Y
1,1,2,2-Tetrachloroethane	10.62		231575	8.81	8.81		Y
Tetrachloroethene (PCE)	8.22		272961	9.21	9.21		Y
Toluene	7.66		996133	9.33	9.33		Y
1,2,3-Trichlorobenzene	13.59		89123	10.09	10.1		Y
1,2,4-Trichlorobenzene	13.20		159798	9.31	9.31		Y
1,1,2-Trichloroethane	8.21		230414	9.14	9.14		Y
1,1,1-Trichloroethane (TCA)	4.79	-0.01	471669	9.46	9.46		Y

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F004.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 11:46:00	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317368-03	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Trichloroethene (TCE)	6.16		376027	9.22	9.22		Y
Trichlorofluoromethane (CFC 11)	1.79		516700	9.02	9.02		Y
1,2,3-Trichloropropane	10.66		77517	8.96	8.96		Y
1,2,4-Trimethylbenzene	11.22		999081	9.20	9.20		Y
1,3,5-Trimethylbenzene	10.84		954510	9.22	9.22		Y
Vinyl Chloride	1.28		375393	8.37	8.37		Y
o-Xylene	9.85		588241	9.59	9.59		Y
m,p-Xylenes	9.43		1246107	19.47	19.5		Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F004.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 11:46:00	**Vial:**	3
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317368-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	III	**Matrix:**	Water
Prod Code:	VOC FP	**Collect Date:**	9/21/23	**Receive Date:**	9/22/23

Analysis Lot:	819143	**Prep Lot:**		**Report Group:**	KQ2317368
Analysis	8260C	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	23955

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chlorobenzene-d5	9.17		492100	10.00	OK
1,4-Dichlorobenzene-d4	11.59		399514	10.00	OK
Fluorobenzene	5.72		1271436	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		408107	10.21	102	68 - 117	Y
Dibromofluoromethane	4.86		266249	10.27	103	73 - 122	Y
Toluene-d8	7.59		1237102	10.20	102	65 - 144	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Chlorobenzene	9.20		995870	9.43	9.43		Y
Tetrachloroethene (PCE)	8.22		272961	9.21	9.21		Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F004.D Vial: 4
Acq On : 2 Oct 2023 11:46 am Operator: GH/EW/OT/MK
Sample : LCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 02 12:07:10 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1271436	10.00	PPB		0.00
64) Chlorobenzene-d5	9.17	82	492100	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	399514	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	266249	10.27	PPB		0.00
Spiked Amount 10.000			Recovery =	102.70%			
47) 1,2-Dichloroethane-d4	5.34	65	290618	10.05	PPB		0.00
Spiked Amount 10.000			Recovery =	100.50%			
62) Toluene-d8	7.59	98	1237102	10.20	PPB		0.00
Spiked Amount 10.000			Recovery =	102.00%			
84) 4-Bromofluorobenzene	10.42	95	408107	10.21	PPB		0.00
Spiked Amount 10.000			Recovery =	102.10%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.06	85	296332	6.45	PPB		99
3) Chloromethane	1.22	50	334573	7.60	PPB		98
4) Vinyl Chloride	1.28	62	375393	8.37	PPB		99
5) Bromomethane	1.54	96	107773	5.96	PPB		99
6) Chloroethane	1.61	64	255108	8.96	PPB		98
8) Trichlorofluoromethane	1.79	101	516700	9.02	PPB		98
9) Ethyl Ether	2.04	59	274437	10.30	PPB		99
10) Acrolein	2.22	56	450942	133.14	PPB		99
11) Trichlorotrifluoroethane	2.21	151	488541	22.55	PPB		99
12) 1,1-Dichloroethene	2.25	96	321154	8.45	PPB		93
13) Acetone	2.36	43	277943	55.43	PPB		98
14) Iodomethane	2.40	142	811038	20.44	PPB		100
15) Carbon Disulfide	2.43	76	1698950	17.11	PPB		98
17) 3-Chloro-1-propene	2.61	76	493864	27.34	PPB		94
19) Acetonitrile	2.70	40	372093	267.56	PPB		96
20) Methylene Chloride	2.76	84	404885	8.59	PPB		98
21) tert-Butyl Alcohol	2.88	59	90720	78.98	PPB		95
22) Acrylonitrile	3.09	53	291680	36.79	PPB		98
23) Methyl tert-Butyl Ether	2.97	73	697406	8.91	PPB		98
24) trans-1,2-Dichloroethene	2.99	96	382993	9.31	PPB		97
25) Hexane	3.20	57	857732	22.21	PPB		100
26) Diisopropyl Ether	3.50	45	1678101	14.63	PPB		99
27) 1,1-Dichloroethane	3.50	63	665352m	9.29	PPB		
28) Vinyl Acetate	3.56	86	259638	44.48	PPB		96
29) Chloroprene	3.55	53	1434857	27.56	PPB		100
30) tert-Butyl Ethyl Ether	3.93	59	1395553	14.57	PPB		98
31) 2,2-Dichloropropane	4.16	77	396812	8.84	PPB		99
32) cis-1,2-Dichloroethene	4.21	96	421493	9.25	PPB		98
33) 2-Butanone	4.28	72	115308	51.85	PPB		89
34) Ethyl Acetate	4.31	61	82197	22.30	PPB		93
35) Propionitrile	4.45	54	74495	25.40	PPB		95
36) Methacrylonitrile	4.59	67	262088	27.60	PPB		99
37) Bromochloromethane	4.52	128	172405	9.90	PPB		93
39) Chloroform	4.63	83	639510	9.98	PPB		98
41) Cyclohexane	4.76	56	3900	0.06	PPB		90
42) 1,1,1-Trichloroethane	4.79	97	471669	9.46	PPB		98
44) Carbon Tetrachloride	4.96	117	351171	9.47	PPB		97
45) 1,1-Dichloropropene	5.03	75	511314	9.28	PPB		99
46) Isobutyl Alcohol	5.36	43	128046	218.78	PPB		96
48) Benzene	5.30	78	1653339	9.37	PPB		98
49) 1,2-Dichloroethane	5.45	62	446318	9.21	PPB		99
50) tert-Amyl Methyl Ether	5.46	55	441874	16.93	PPB	#	82
51) Trichloroethene	6.16	95	376027	9.22	PPB		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F004.D Vial: 4
Acq On : 2 Oct 2023 11:46 am Operator: GH/EW/OT/MK
Sample : LCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 02 12:07:10 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	1,2-Dichloropropane	6.49	63	387794	9.14	PPB	98
54)	Dibromomethane	6.63	93	175657	9.89	PPB	98
55)	Methyl methacrylate	6.66	69	404261	24.35	PPB	97
56)	1,4-Dioxane	6.67	88	50268	245.94	PPB	99
57)	Bromodichloromethane	6.83	83	380062	9.53	PPB	96
58)	2-Nitropropane	7.20	41	81052	23.93	PPB	92
59)	2-Chloroethyl Vinyl Ether	7.23	63	150424	10.18	PPB	98
60)	cis-1,3-Dichloropropene	7.36	75	501513	8.17	PPB	99
61)	4-Methyl-2-pentanone (MIBK	7.55	58	390456	51.35	PPB	98
63)	Toluene	7.66	92	996133	9.33	PPB	97
66)	trans-1,3-Dichloropropene	8.02	75	354452	7.94	PPB	99
67)	Ethyl methacrylate	8.08	69	837763	25.89	PPB	97
68)	1,1,2-Trichloroethane	8.21	83	230414	9.14	PPB	96
69)	Tetrachloroethene	8.22	164	272961	9.21	PPB	98
70)	2-Hexanone	8.49	57	129122	53.56	PPB	96
71)	1,3-Dichloropropane	8.39	76	494718	9.01	PPB	99
72)	Dibromochloromethane	8.59	129	222209	8.42	PPB	99
73)	1,2-Dibromoethane (EDB)	8.70	107	242212	9.55	PPB	94
74)	1-Chlorohexane	9.19	91	335061	9.08	PPB	97
75)	Chlorobenzene	9.20	112	995870	9.43	PPB	98
76)	Ethylbenzene	9.30	106	497308	9.43	PPB	99
77)	1,1,1,2-Tetrachloroethane	9.31	131	261073	9.43	PPB	97
78)	m,p-Xylenes	9.43	106	1246107	19.47	PPB	96
79)	o-Xylene	9.85	106	588241	9.59	PPB	96
80)	Styrene	9.88	103	470013m	9.93	PPB	
81)	Bromoform	10.08	173	89717	9.25	PPB	95
82)	Isopropylbenzene	10.22	105	1175696	9.14	PPB	100
83)	cis-1,4-Dichloro-2-butene	10.38	89	54223	20.82	PPB	99
86)	1,1,2,2-Tetrachloroethane	10.62	83	231575	8.81	PPB	97
87)	trans-1,4-Dichloro-2-buten	10.69	53	151636	21.52	PPB	84
88)	Bromobenzene	10.55	156	349048	9.06	PPB	96
89)	n-Propylbenzene	10.65	91	1343448	8.97	PPB	97
90)	1,2,3-Trichloropropane	10.66	110	77517	8.96	PPB	95
91)	2-Chlorotoluene	10.75	91	890693	8.68	PPB	99
92)	1,3,5-Trimethylbenzene	10.84	105	954510	9.22	PPB	98
93)	4-Chlorotoluene	10.87	91	1062921	9.02	PPB	99
94)	tert-Butylbenzene	11.15	119	748847	8.87	PPB	99
95)	1,2,4-Trimethylbenzene	11.22	105	999081	9.20	PPB	99
96)	sec-Butylbenzene	11.38	105	1004906	9.61	PPB	99
97)	p-Isopropyltoluene	11.54	119	876957	9.21	PPB	99
98)	1,3-Dichlorobenzene	11.51	146	552887	9.05	PPB	99
99)	1,4-Dichlorobenzene	11.61	146	572231	8.83	PPB	100
100)	n-Butylbenzene	11.95	91	660081	9.24	PPB	99
101)	1,2-Dichlorobenzene	11.99	146	483038	8.92	PPB	99
102)	1,2-Dibromo-3-chloropropan	12.65	155	15615	7.76	PPB	94
103)	1,3,5-Trichlorobenzene	12.75	180	246468	9.49	PPB	99
104)	1,2,4-Trichlorobenzene	13.20	180	159798	9.31	PPB	97
105)	Hexachlorobutadiene	13.29	225	96206	9.06	PPB	96
106)	Naphthalene	13.40	128	229245	9.03	PPB	98
107)	1,2,3-Trichlorobenzene	13.59	180	89123	10.09	PPB	96

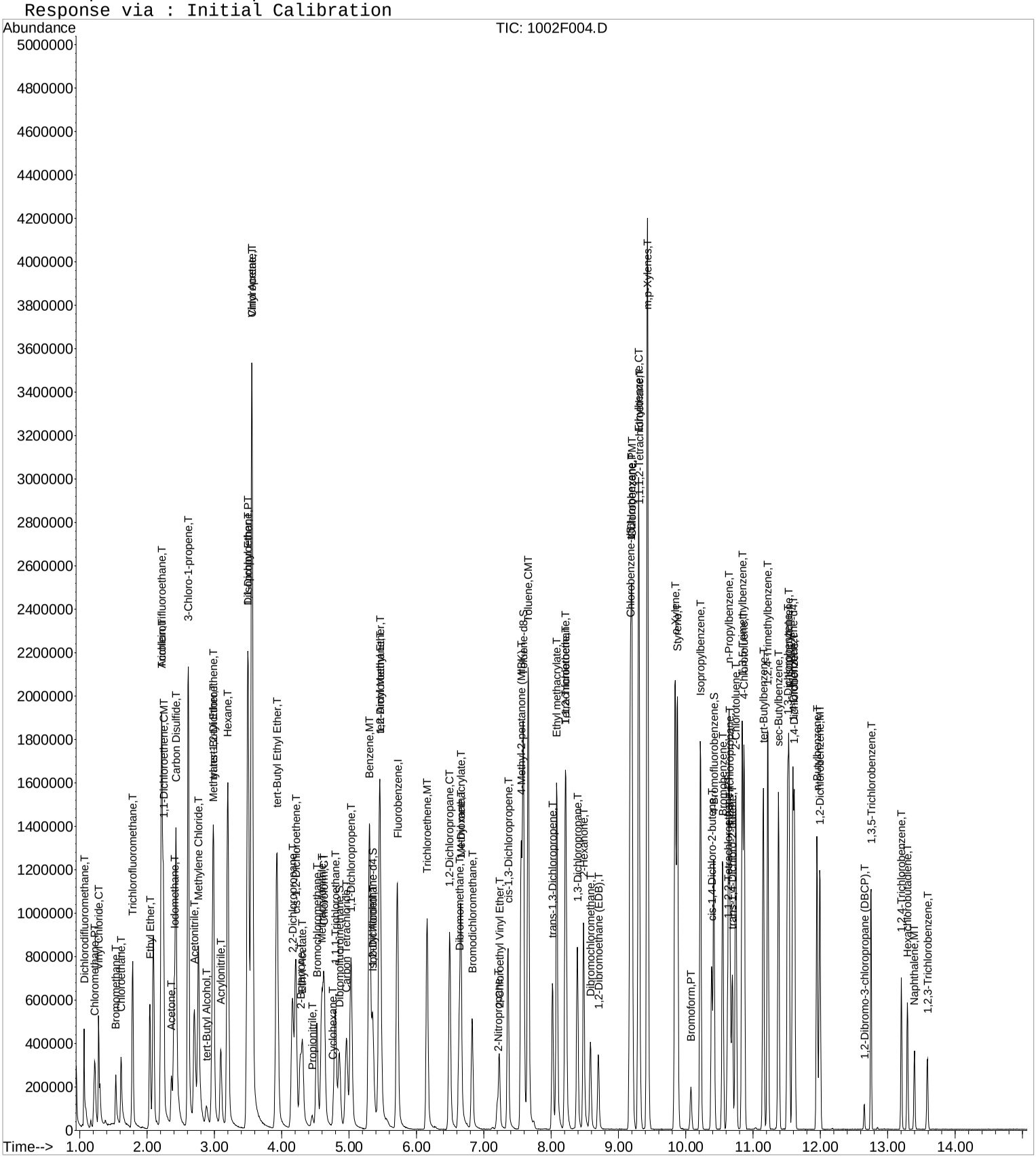
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\100223\1002F004.D Vial: 4
Acq On : 2 Oct 2023 11:46 am Operator: GH/EW/OT/MK
Sample : LCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:54 2023 Quant Results File: 091123MS23_8260.RES

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration

10/03/23
10/04/23
1st
2nd

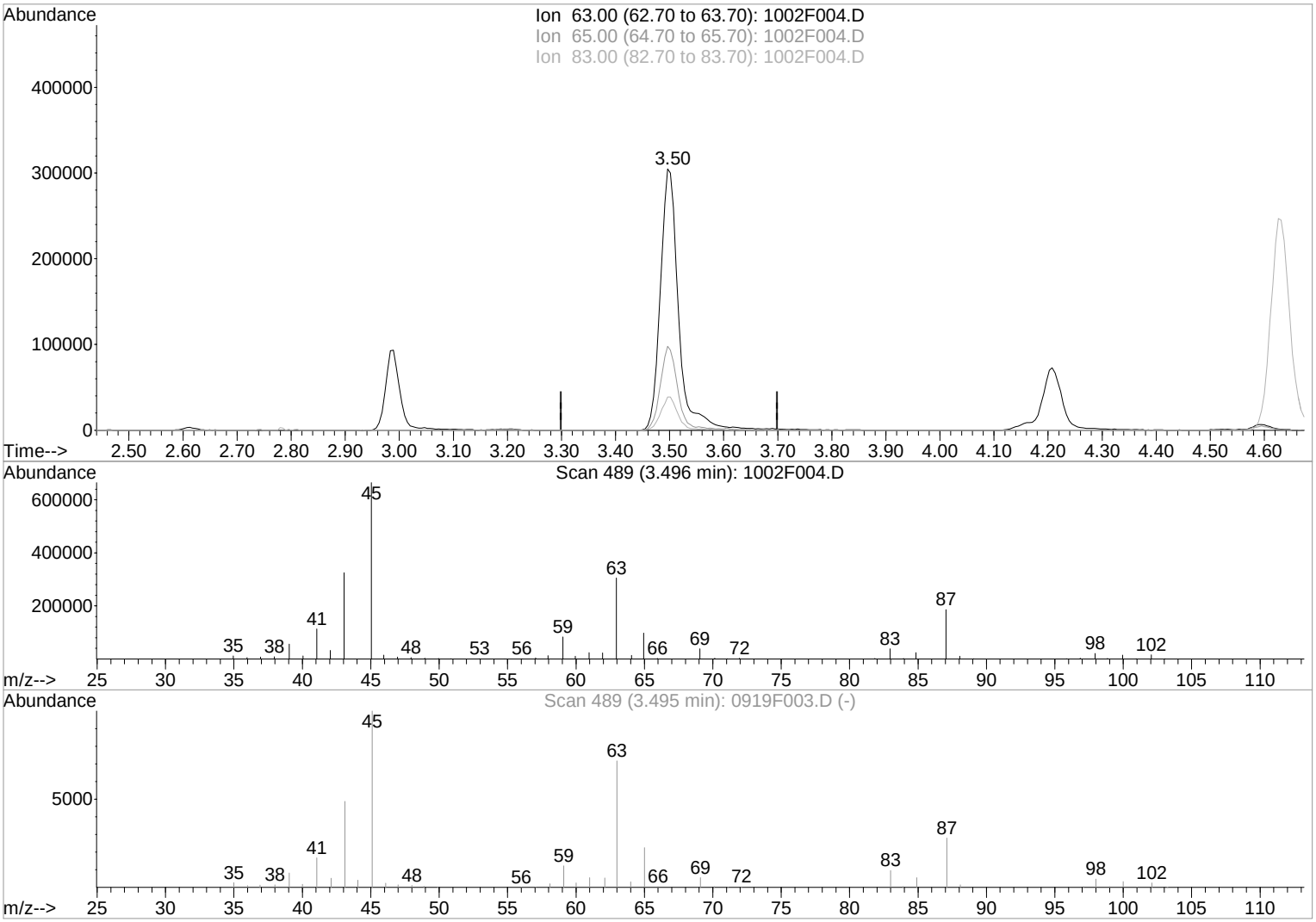


Quantitation Report (Qedit)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F004.D Vial: 4
Acq On : 2 Oct 2023 11:46 am Operator: GH/EW/OT/MK
Sample : LCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:49 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Multiple Level Calibration



TIC: 1002F004.D

(27) 1,1-Dichloroethane (PT)

3.50min 9.97PPB

response 714634

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.08
83.00	12.70	12.67
0.00	0.00	0.00

Manual Integration:

Before

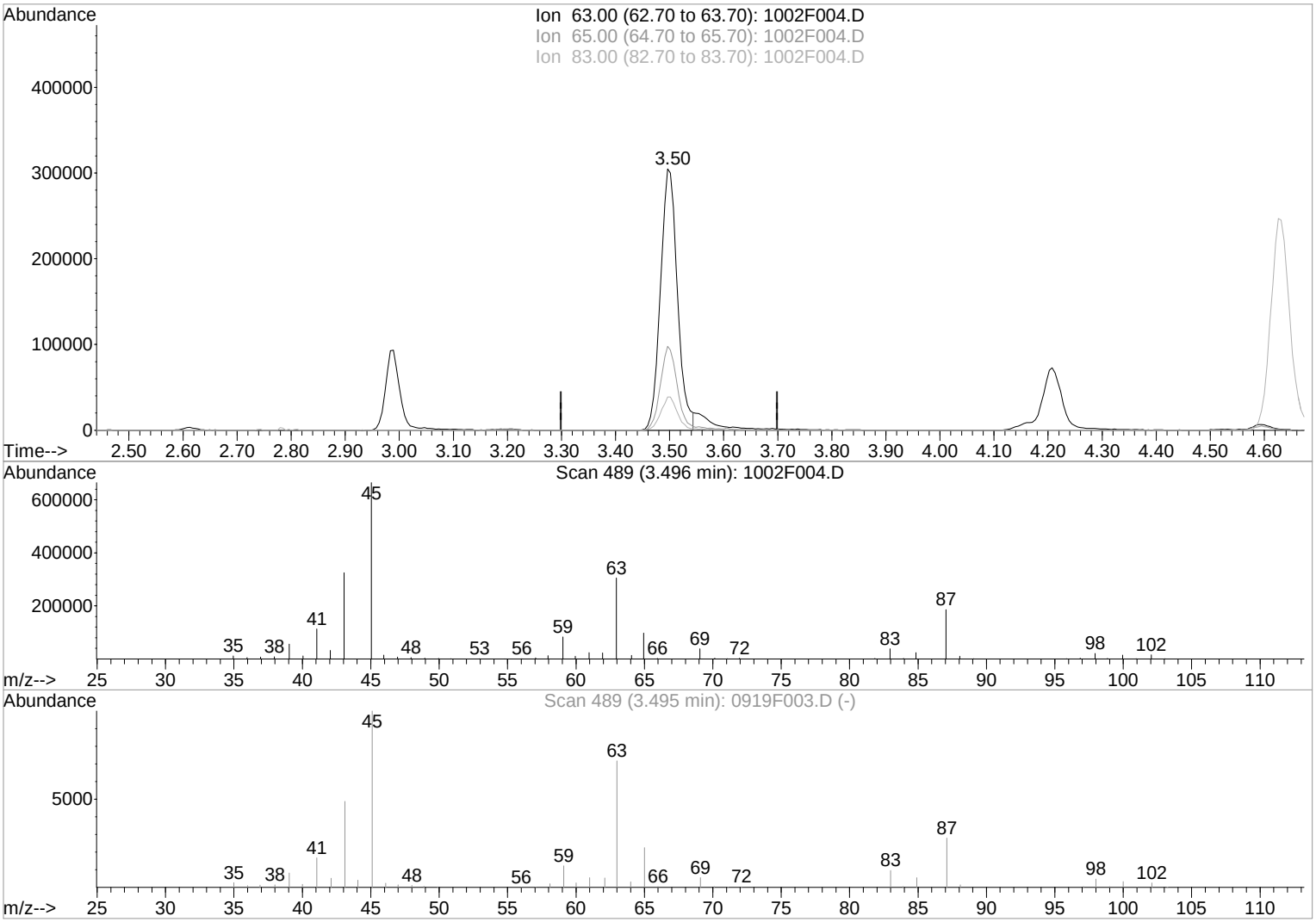
10/03/23

Quantitation Report (Qedit)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F004.D Vial: 4
Acq On : 2 Oct 2023 11:46 am Operator: GH/EW/OT/MK
Sample : LCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:49 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Multiple Level Calibration



TIC: 1002F004.D

(27) 1,1-Dichloroethane (PT)

3.50min 9.29PPB m

response 665352

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.08
83.00	12.70	12.67
0.00	0.00	0.00

Manual Integration:

After

Shoulder

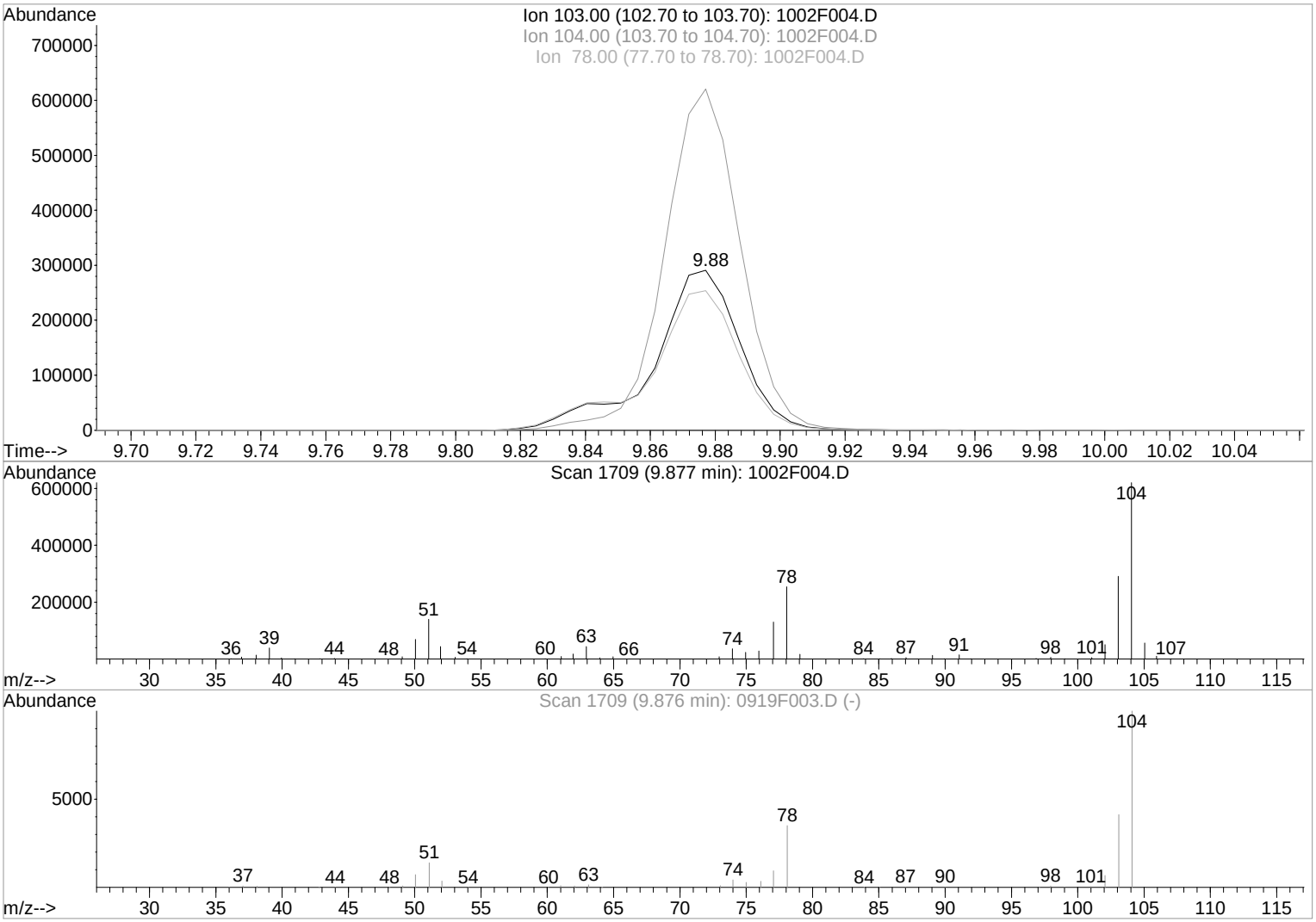
10/03/23

Quantitation Report (Qedit)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F004.D Vial: 4
Acq On : 2 Oct 2023 11:46 am Operator: GH/EW/OT/MK
Sample : LCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:54 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Single Level Calibration



TIC: 1002F004.D

(80) Styrene (T)

9.88min 11.35PPB

response 537486

Ion	Exp%	Act%
103.00	100	100
104.00	245.50	213.36#
78.00	102.00	87.24
0.00	0.00	0.00

Manual Integration:

Before

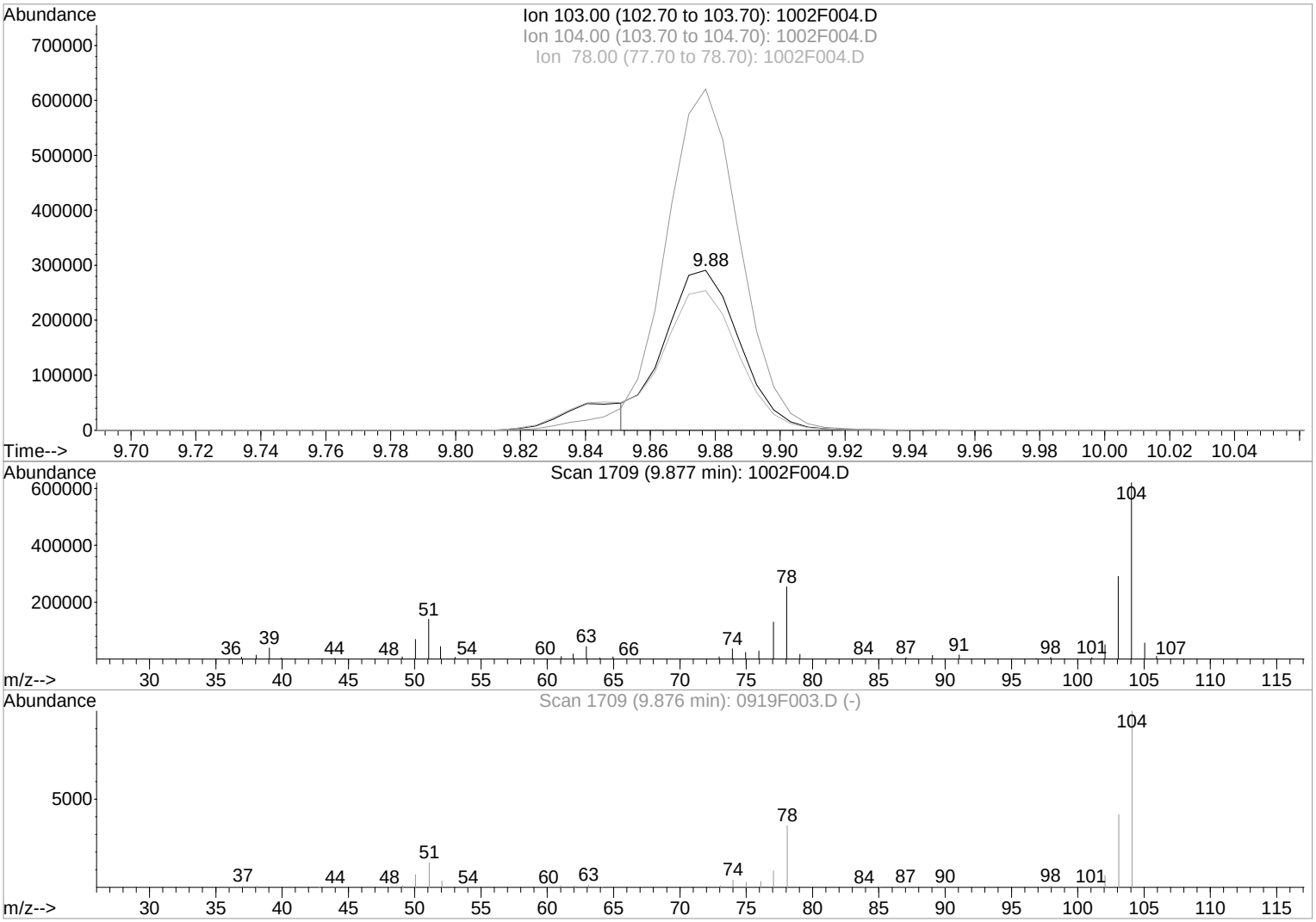
10/03/23

Quantitation Report (Qedit)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F004.D Vial: 4
Acq On : 2 Oct 2023 11:46 am Operator: GH/EW/OT/MK
Sample : LCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:54 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Single Level Calibration



TIC: 1002F004.D

(80) Styrene (T)

9.88min 9.93PPB m

response 470013

Ion	Exp%	Act%
103.00	100	100
104.00	245.50	213.36#
78.00	102.00	87.24
0.00	0.00	0.00

Manual Integration:

After

Shoulder

10/03/23

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F005.D\
Lab ID: KQ2317367-03
RunType: DLCS
Matrix: Wastewater

Date Acquired: 10/2/23 12:11:00
Batch ID: 819142
Analysis Method: 624.1/VOC_FP

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F005.D\
Lab ID: KQ2317367-03
RunType: DLCS
Matrix: Wastewater

Date Acquired: 10/2/23 12:11:00
Batch ID: 819142
Analysis Method: 624.1/VOC_UNP

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F005.D\
Lab ID: KQ2317368-04
RunType: DLCS
Matrix: Water

Date Acquired: 10/2/23 12:11:00
Batch ID: 819143
Analysis Method: 8260C/VOC FP

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Printed: 10/3/23 12:04
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Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F005.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 12:11:00	**Vial:**	6
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317367-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	VOC_UNP	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	819142	**Prep Lot:**		**Report Group:**	KQ2317367
Analysis	624.1	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS, Unpreserved	**Calibration ID:**	KC2300542
		Report List ID:	23088

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Fluorobenzene	5.72		1245941	10.00	OK
1,4-Dichlorobenzene-d4	11.59		389585	10.00	OK
Chlorobenzene-d5	9.17		476277	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		398146	10.29	103	68 - 120	Y
Dibromofluoromethane	4.86		265868	10.46	105	76 - 132	Y
Toluene-d8	7.59		1222382	10.29	103	80 - 120	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
1,1,1-Trichloroethane (TCA)	4.79		451878	9.25	9.25		Y
1,1,2,2-Tetrachloroethane	10.62		230367	8.98	8.98		Y
1,1,2-Trichloroethane	8.21		226621	9.29	9.29		Y
1,1-Dichloroethane	3.50		643035	9.16	9.16		Y
1,1-Dichloroethene	2.25		312226	8.38	8.38		Y
1,2-Dichlorobenzene	11.99		466720	8.84	8.84		Y
1,2-Dichloroethane (EDC)	5.45		439609	9.26	9.26		Y
1,2-Dichloropropane	6.49		375437	9.03	9.03		Y
1,3-Dichlorobenzene	11.51		532448	8.93	8.93		Y
1,4-Dichlorobenzene	11.61		552150	8.73	8.73		Y
2-Chloroethyl Vinyl Ether	7.23		150854	10.42	10.4		Y
Acrolein	2.22		441312	132.97	133		Y
Acrylonitrile	3.09		296644	38.18	38.2	J	Y
Benzene	5.31		1602511	9.27	9.27		Y
Bromoform	10.08		87640	9.32	9.32		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 10/3/23 12:02
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1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F005.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 12:11:00	**Vial:**	6
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317367-03	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bromomethane	1.53		117910	6.66	6.66		Y
Carbon Tetrachloride	4.96		343497	9.45	9.45		Y
Chlorobenzene	9.20		971587	9.50	9.50		Y
Chloroethane	1.61		235407	8.44	8.44		Y
Chloroform	4.63		619827	9.87	9.87		Y
Chloromethane	1.22		326517	7.57	7.57		Y
Dibromochloromethane	8.58		217628	8.52	8.52		Y
Bromodichloromethane	6.83		370079	9.47	9.47		Y
Methylene Chloride	2.76		395873	8.57	8.57		Y
Ethylbenzene	9.30		491609	9.63	9.63		Y
Tetrachloroethene (PCE)	8.22		263336	9.18	9.18		Y
Toluene	7.66		966920	9.24	9.24		Y
Trichloroethene (TCE)	6.16		365334	9.14	9.14		Y
Vinyl Chloride	1.28		364859	8.30	8.30		Y
cis-1,3-Dichloropropene	7.36		496726	8.25	8.25		Y
trans-1,2-Dichloroethene	2.99		364361	9.04	9.04		Y
trans-1,3-Dichloropropene	8.02		351498	8.12	8.12		Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F005.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 12:11:00	**Vial:**	5
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317367-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	VOC_FP	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	819142	**Prep Lot:**		**Report Group:**	KQ2317367
Analysis	624.1	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	24217

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Fluorobenzene	5.72		1245941	10.00	OK
1,4-Dichlorobenzene-d4	11.59		389585	10.00	OK
Chlorobenzene-d5	9.17		476277	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		398146	10.29	103	68 - 120	Y
Dibromofluoromethane	4.86		265868	10.46	105	76 - 132	Y
Toluene-d8	7.59		1222382	10.29	103	80 - 120	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
1,1,1-Trichloroethane (TCA)	4.79		451878	9.25	9.25		Y
1,1,2,2-Tetrachloroethane	10.62		230367	8.98	8.98		Y
1,1,2-Trichloroethane	8.21		226621	9.29	9.29		Y
1,1-Dichloroethane	3.50		643035	9.16	9.16		Y
1,1-Dichloroethene	2.25		312226	8.38	8.38		Y
1,2-Dichlorobenzene	11.99		466720	8.84	8.84		Y
1,2-Dichloroethane (EDC)	5.45		439609	9.26	9.26		Y
1,2-Dichloropropane	6.49		375437	9.03	9.03		Y
1,3-Dichlorobenzene	11.51		532448	8.93	8.93		Y
1,4-Dichlorobenzene	11.61		552150	8.73	8.73		Y
2-Chloroethyl Vinyl Ether	7.23		150854	10.42	10.4		Y
Acrolein	2.22		441312	132.97	133		Y
Acrylonitrile	3.09		296644	38.18	38.2	J	Y
Benzene	5.31		1602511	9.27	9.27		Y
Bromoform	10.08		87640	9.32	9.32		Y

1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F005.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 12:11:00	**Vial:**	5
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317367-03	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bromomethane	1.53		117910	6.66	6.66		Y
Carbon Tetrachloride	4.96		343497	9.45	9.45		Y
Chlorobenzene	9.20		971587	9.50	9.50		Y
Chloroethane	1.61		235407	8.44	8.44		Y
Chloroform	4.63		619827	9.87	9.87		Y
Chloromethane	1.22		326517	7.57	7.57		Y
Dibromochloromethane	8.58		217628	8.52	8.52		Y
Bromodichloromethane	6.83		370079	9.47	9.47		Y
Dichlorodifluoromethane (CFC 12)	1.06		287633	6.39	6.39		Y
Methylene Chloride	2.76		395873	8.57	8.57		Y
Ethylbenzene	9.30		491609	9.63	9.63		Y
Tetrachloroethene (PCE)	8.22		263336	9.18	9.18		Y
Toluene	7.66		966920	9.24	9.24		Y
Trichloroethene (TCE)	6.16		365334	9.14	9.14		Y
Trichlorofluoromethane	1.79		498203	8.87	8.87		Y
Vinyl Chloride	1.28		364859	8.30	8.30		Y
cis-1,3-Dichloropropene	7.36		496726	8.25	8.25		Y
trans-1,2-Dichloroethene	2.99		364361	9.04	9.04		Y
trans-1,3-Dichloropropene	8.02		351498	8.12	8.12		Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F005.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 12:11:00	**Vial:**	4
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317368-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	III	**Matrix:**	Water
Prod Code:	VOC FP	**Collect Date:**	9/21/23	**Receive Date:**	9/22/23

Analysis Lot:	819143	**Prep Lot:**		**Report Group:**	KQ2317368
Analysis	8260C	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	20915

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chlorobenzene-d5	9.17		476277	10.00	OK
1,4-Dichlorobenzene-d4	11.59		389585	10.00	OK
Fluorobenzene	5.72		1245941	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		398146	10.29	103	68 - 117	Y
Dibromofluoromethane	4.86		265868	10.46	105	73 - 122	Y
Toluene-d8	7.59		1222382	10.29	103	65 - 144	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Acetone	2.36		265873	54.11	54.1		Y
Benzene	5.31	+0.01	1602511	9.27	9.27		Y
Bromobenzene	10.55		338970	9.02	9.02		Y
Bromochloromethane	4.52	-0.01	172570	10.11	10.1		Y
Bromodichloromethane	6.83		370079	9.47	9.47		Y
Bromoform	10.08		87640	9.32	9.32		Y
Bromomethane	1.53	-0.01	117910	6.66	6.66		Y
2-Butanone (MEK)	4.28	+0.01	113624	52.14	52.1		Y
n-Butylbenzene	11.95		633780	9.09	9.09		Y
sec-Butylbenzene	11.38		973585	9.55	9.55		Y
tert-Butylbenzene	11.15		731306	8.88	8.88		Y
Carbon Disulfide	2.43		1633781	16.79	16.8		Y
Carbon Tetrachloride	4.96		343497	9.45	9.45		Y
Chlorobenzene	9.20		971587	9.50	9.50		Y
Chloroethane	1.61		235407	8.44	8.44		Y

1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F005.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 12:11:00	**Vial:**	4
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317368-04	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Chloroform	4.63		619827	9.87	9.87		Y
Chloromethane	1.22	-0.01	326517	7.57	7.57		Y
2-Chlorotoluene	10.74		865393	8.64	8.64		Y
4-Chlorotoluene	10.87	+0.01	1028463	8.95	8.95		Y
1,2-Dibromo-3-chloropropane	12.65		15824	8.04	8.04		Y
Dibromochloromethane	8.58		217628	8.52	8.52		Y
1,2-Dibromoethane (EDB)	8.71	+0.01	242283	9.87	9.87		Y
Dibromomethane	6.63		171126	9.83	9.83		Y
1,2-Dichlorobenzene	11.99		466720	8.84	8.84		Y
1,3-Dichlorobenzene	11.51		532448	8.93	8.93		Y
1,4-Dichlorobenzene	11.61		552150	8.73	8.73		Y
Dichlorodifluoromethane	1.06		287633	6.39	6.39		Y
1,1-Dichloroethane	3.50		643035	9.16	9.16		Y
1,2-Dichloroethane (EDC)	5.45		439609	9.26	9.26		Y
1,1-Dichloroethene	2.25		312226	8.38	8.38		Y
cis-1,2-Dichloroethene	4.21		402319	9.01	9.01		Y
trans-1,2-Dichloroethene	2.99		364361	9.04	9.04		Y
1,2-Dichloropropane	6.49		375437	9.03	9.03		Y
1,3-Dichloropropane	8.39		485591	9.14	9.14		Y
2,2-Dichloropropane	4.16		385128	8.76	8.76		Y
1,1-Dichloropropene	5.03		497150	9.20	9.20		Y
cis-1,3-Dichloropropene	7.36		496726	8.25	8.25		Y
trans-1,3-Dichloropropene	8.02		351498	8.12	8.12		Y
Ethylbenzene	9.30		491609	9.63	9.63		Y
Hexachlorobutadiene	13.29	-0.01	89989	8.69	8.69		Y
2-Hexanone	8.48		125305	53.70	53.7		Y
Isopropylbenzene	10.22		1139248	9.15	9.15		Y
4-Isopropyltoluene	11.53		850043	9.16	9.16		Y
4-Methyl-2-pentanone (MIBK)	7.55		389827	52.31	52.3		Y
Methylene Chloride	2.76		395873	8.57	8.57		Y
Naphthalene	13.40		229417	9.27	9.27		Y
n-Propylbenzene	10.65		1295946	8.87	8.87		Y
Styrene	9.88		431221	9.41	9.41		Y
1,1,1,2-Tetrachloroethane	9.31		252380	9.42	9.42		Y
1,1,2,2-Tetrachloroethane	10.62		230367	8.98	8.98		Y
Tetrachloroethene (PCE)	8.22		263336	9.18	9.18		Y
Toluene	7.66		966920	9.24	9.24		Y
1,2,3-Trichlorobenzene	13.59		87271	10.13	10.1		Y
1,2,4-Trichlorobenzene	13.20		154239	9.21	9.21		Y
1,1,2-Trichloroethane	8.21		226621	9.29	9.29		Y
1,1,1-Trichloroethane (TCA)	4.79	-0.01	451878	9.25	9.25		Y

1st 10/03/23
2nd 10/04/23

Data File:	J:\MS23\DATA\100223\1002F005.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 12:11:00	**Vial:**	4
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317368-04	**Raw Units:**	ppb

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Trichloroethene (TCE)	6.16		365334	9.14	9.14		Y
Trichlorofluoromethane (CFC 11)	1.79		498203	8.87	8.87		Y
1,2,3-Trichloropropane	10.66		76536	9.07	9.07		Y
1,2,4-Trimethylbenzene	11.22		959448	9.06	9.06		Y
1,3,5-Trimethylbenzene	10.84		914537	9.06	9.06		Y
Vinyl Chloride	1.28		364859	8.30	8.30		Y
o-Xylene	9.85		573095	9.65	9.65		Y
m,p-Xylenes	9.43		1192304	19.25	19.3		Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F005.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 12:11:00	**Vial:**	4
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2317368-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	III	**Matrix:**	Water
Prod Code:	VOC FP	**Collect Date:**	9/21/23	**Receive Date:**	9/22/23

Analysis Lot:	819143	**Prep Lot:**		**Report Group:**	KQ2317368
Analysis	8260C	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	23955

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chlorobenzene-d5	9.17		476277	10.00	OK
1,4-Dichlorobenzene-d4	11.59		389585	10.00	OK
Fluorobenzene	5.72		1245941	10.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
4-Bromofluorobenzene	10.42		398146	10.29	103	68 - 117	Y
Dibromofluoromethane	4.86		265868	10.46	105	73 - 122	Y
Toluene-d8	7.59		1222382	10.29	103	65 - 144	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Chlorobenzene	9.20		971587	9.50	9.50		Y
Tetrachloroethene (PCE)	8.22		263336	9.18	9.18		Y

Prep Amount:	10 mL	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F005.D Vial: 5
Acq On : 2 Oct 2023 12:11 pm Operator: GH/EW/OT/MK
Sample : DLCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 02 12:37:35 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1245941	10.00	PPB		0.00
64) Chlorobenzene-d5	9.17	82	476277	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	389585	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	265868	10.46	PPB		0.00
Spiked Amount 10.000			Recovery =	104.60%			
47) 1,2-Dichloroethane-d4	5.35	65	282396	9.96	PPB		0.00
Spiked Amount 10.000			Recovery =	99.60%			
62) Toluene-d8	7.59	98	1222382	10.29	PPB		0.00
Spiked Amount 10.000			Recovery =	102.90%			
84) 4-Bromofluorobenzene	10.42	95	398146	10.29	PPB		0.00
Spiked Amount 10.000			Recovery =	102.90%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.06	85	287633	6.39	PPB		98
3) Chloromethane	1.22	50	326517	7.57	PPB		96
4) Vinyl Chloride	1.28	62	364859	8.30	PPB		99
5) Bromomethane	1.53	96	117910	6.66	PPB		99
6) Chloroethane	1.61	64	235407	8.44	PPB		98
8) Trichlorofluoromethane	1.79	101	498203	8.87	PPB		98
9) Ethyl Ether	2.04	59	272007	10.41	PPB		97
10) Acrolein	2.22	56	441312	132.97	PPB		100
11) Trichlorotrifluoroethane	2.21	151	473638	22.31	PPB		98
12) 1,1-Dichloroethene	2.25	96	312226	8.38	PPB		90
13) Acetone	2.36	43	265873	54.11	PPB		100
14) Iodomethane	2.40	142	773973	19.91	PPB		100
15) Carbon Disulfide	2.43	76	1633781	16.79	PPB		99
17) 3-Chloro-1-propene	2.61	76	479350	27.08	PPB		93
19) Acetonitrile	2.70	40	368944	270.73	PPB		98
20) Methylene Chloride	2.76	84	395873	8.57	PPB		97
21) tert-Butyl Alcohol	2.88	59	88827	78.92	PPB		93
22) Acrylonitrile	3.09	53	296644	38.18	PPB		99
23) Methyl tert-Butyl Ether	2.97	73	683271	8.91	PPB		99
24) trans-1,2-Dichloroethene	2.99	96	364361	9.04	PPB		96
25) Hexane	3.20	57	826416	21.83	PPB		99
26) Diisopropyl Ether	3.50	45	1662732	14.80	PPB		99
27) 1,1-Dichloroethane	3.50	63	643035m	9.16	PPB		
28) Vinyl Acetate	3.56	86	261837	45.77	PPB		93
29) Chloroprene	3.55	53	1389340	27.23	PPB		99
30) tert-Butyl Ethyl Ether	3.92	59	1362876	14.52	PPB		99
31) 2,2-Dichloropropane	4.16	77	385128	8.76	PPB		99
32) cis-1,2-Dichloroethene	4.21	96	402319	9.01	PPB		96
33) 2-Butanone	4.28	72	113624	52.14	PPB		94
34) Ethyl Acetate	4.31	61	87852	24.32	PPB		92
35) Propionitrile	4.45	54	77521	26.97	PPB		98
36) Methacrylonitrile	4.59	67	254657	27.36	PPB		99
37) Bromochloromethane	4.52	128	172570	10.11	PPB		93
39) Chloroform	4.63	83	619827	9.87	PPB		97
42) 1,1,1-Trichloroethane	4.79	97	451878	9.25	PPB		98
44) Carbon Tetrachloride	4.96	117	343497	9.45	PPB		95
45) 1,1-Dichloropropene	5.03	75	497150	9.20	PPB		99
46) Isobutyl Alcohol	5.36	43	131544	229.36	PPB		97
48) Benzene	5.31	78	1602511	9.27	PPB		98
49) 1,2-Dichloroethane	5.45	62	439609	9.26	PPB		99
50) tert-Amyl Methyl Ether	5.46	55	421163	16.47	PPB	#	82
51) Trichloroethene	6.16	95	365334	9.14	PPB		99
52) Methylcyclohexane	6.27	83	1849	0.04	PPB		83

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F005.D Vial: 5
Acq On : 2 Oct 2023 12:11 pm Operator: GH/EW/OT/MK
Sample : DLCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 02 12:37:35 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	1,2-Dichloropropane	6.49	63	375437	9.03	PPB	99
54)	Dibromomethane	6.63	93	171126	9.83	PPB	97
55)	Methyl methacrylate	6.66	69	409910	25.19	PPB	97
56)	1,4-Dioxane	6.67	88	55746	278.32	PPB	100
57)	Bromodichloromethane	6.83	83	370079	9.47	PPB	99
58)	2-Nitropropane	7.20	41	84758	24.91	PPB	100
59)	2-Chloroethyl Vinyl Ether	7.23	63	150854	10.42	PPB	97
60)	cis-1,3-Dichloropropene	7.36	75	496726	8.25	PPB	98
61)	4-Methyl-2-pentanone (MIBK	7.55	58	389827	52.31	PPB	94
63)	Toluene	7.66	92	966920	9.24	PPB	100
66)	trans-1,3-Dichloropropene	8.02	75	351498	8.12	PPB	98
67)	Ethyl methacrylate	8.08	69	836645	26.72	PPB	98
68)	1,1,2-Trichloroethane	8.21	83	226621	9.29	PPB	98
69)	Tetrachloroethene	8.22	164	263336	9.18	PPB	96
70)	2-Hexanone	8.48	57	125305	53.70	PPB	94
71)	1,3-Dichloropropane	8.39	76	485591	9.14	PPB	99
72)	Dibromochloromethane	8.58	129	217628	8.52	PPB	98
73)	1,2-Dibromoethane (EDB)	8.71	107	242283	9.87	PPB	97
74)	1-Chlorohexane	9.19	91	319361	8.94	PPB	96
75)	Chlorobenzene	9.20	112	971587	9.50	PPB	97
76)	Ethylbenzene	9.30	106	491609	9.63	PPB	98
77)	1,1,1,2-Tetrachloroethane	9.31	131	252380	9.42	PPB	97
78)	m,p-Xylenes	9.43	106	1192304	19.25	PPB	99
79)	o-Xylene	9.85	106	573095	9.65	PPB	94
80)	Styrene	9.88	103	431221m	9.41	PPB	
81)	Bromoform	10.08	173	87640	9.32	PPB	98
82)	Isopropylbenzene	10.22	105	1139248	9.15	PPB	98
83)	cis-1,4-Dichloro-2-butene	10.39	89	53415	21.05	PPB	97
86)	1,1,2,2-Tetrachloroethane	10.62	83	230367	8.98	PPB	99
87)	trans-1,4-Dichloro-2-buten	10.69	53	155611	22.65	PPB	91
88)	Bromobenzene	10.55	156	338970	9.02	PPB	97
89)	n-Propylbenzene	10.65	91	1295946	8.87	PPB	98
90)	1,2,3-Trichloropropane	10.66	110	76536	9.07	PPB	97
91)	2-Chlorotoluene	10.74	91	865393	8.64	PPB	99
92)	1,3,5-Trimethylbenzene	10.84	105	914537	9.06	PPB	97
93)	4-Chlorotoluene	10.87	91	1028463	8.95	PPB	99
94)	tert-Butylbenzene	11.15	119	731306	8.88	PPB	99
95)	1,2,4-Trimethylbenzene	11.22	105	959448	9.06	PPB	99
96)	sec-Butylbenzene	11.38	105	973585	9.55	PPB	99
97)	p-Isopropyltoluene	11.53	119	850043	9.16	PPB	99
98)	1,3-Dichlorobenzene	11.51	146	532448	8.93	PPB	99
99)	1,4-Dichlorobenzene	11.61	146	552150	8.73	PPB	98
100)	n-Butylbenzene	11.95	91	633780	9.09	PPB	100
101)	1,2-Dichlorobenzene	11.99	146	466720	8.84	PPB	99
102)	1,2-Dibromo-3-chloropropan	12.65	155	15824	8.04	PPB	95
103)	1,3,5-Trichlorobenzene	12.75	180	237996	9.39	PPB	97
104)	1,2,4-Trichlorobenzene	13.20	180	154239	9.21	PPB	99
105)	Hexachlorobutadiene	13.29	225	89989	8.69	PPB	97
106)	Naphthalene	13.40	128	229417	9.27	PPB	99
107)	1,2,3-Trichlorobenzene	13.59	180	87271	10.13	PPB	97

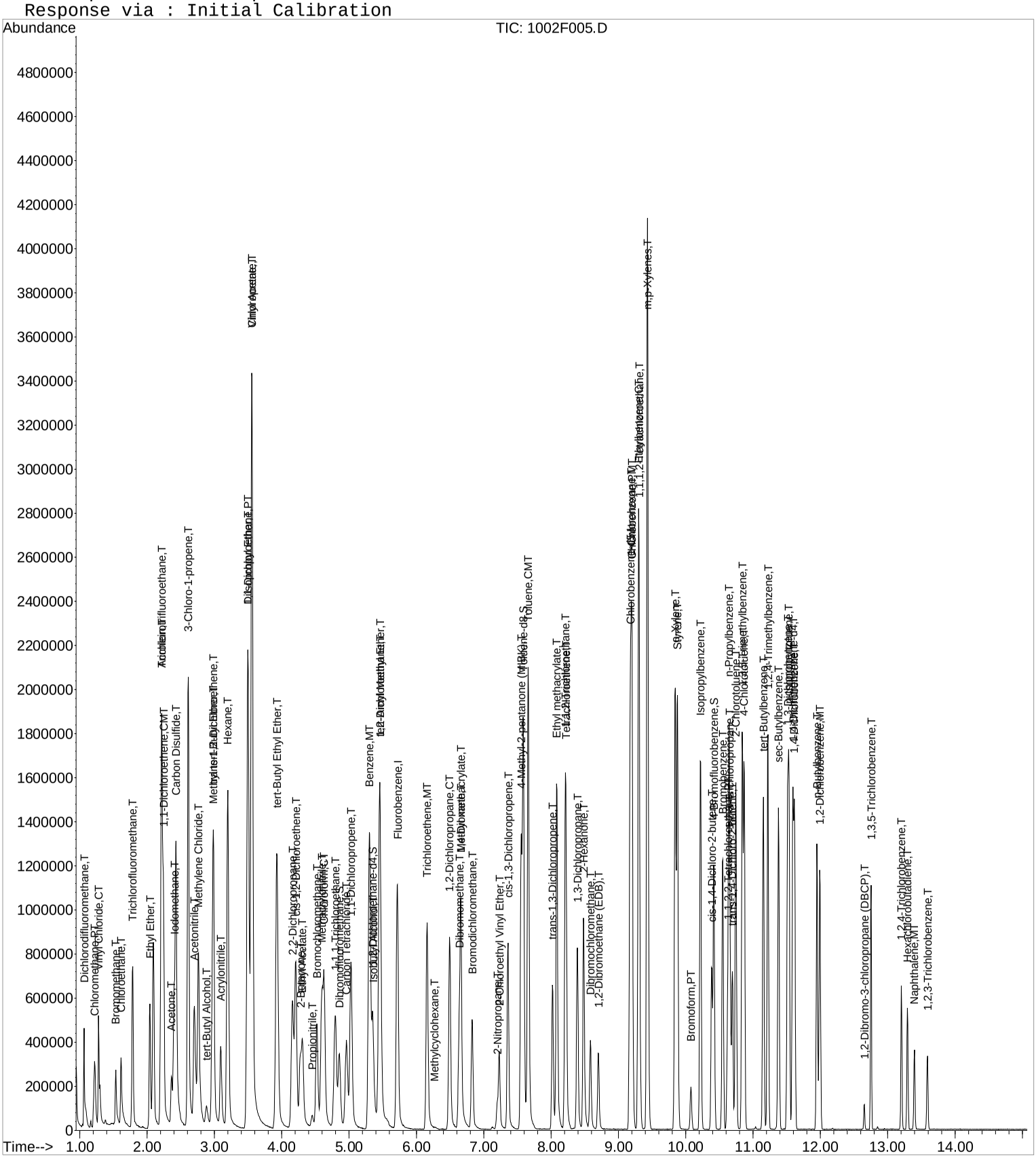
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\100223\1002F005.D Vial: 5
Acq On : 2 Oct 2023 12:11 pm Operator: GH/EW/OT/MK
Sample : DLCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:55 2023 Quant Results File: 091123MS23_8260.RES

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration

10/03/23
10/04/23
1st
2nd

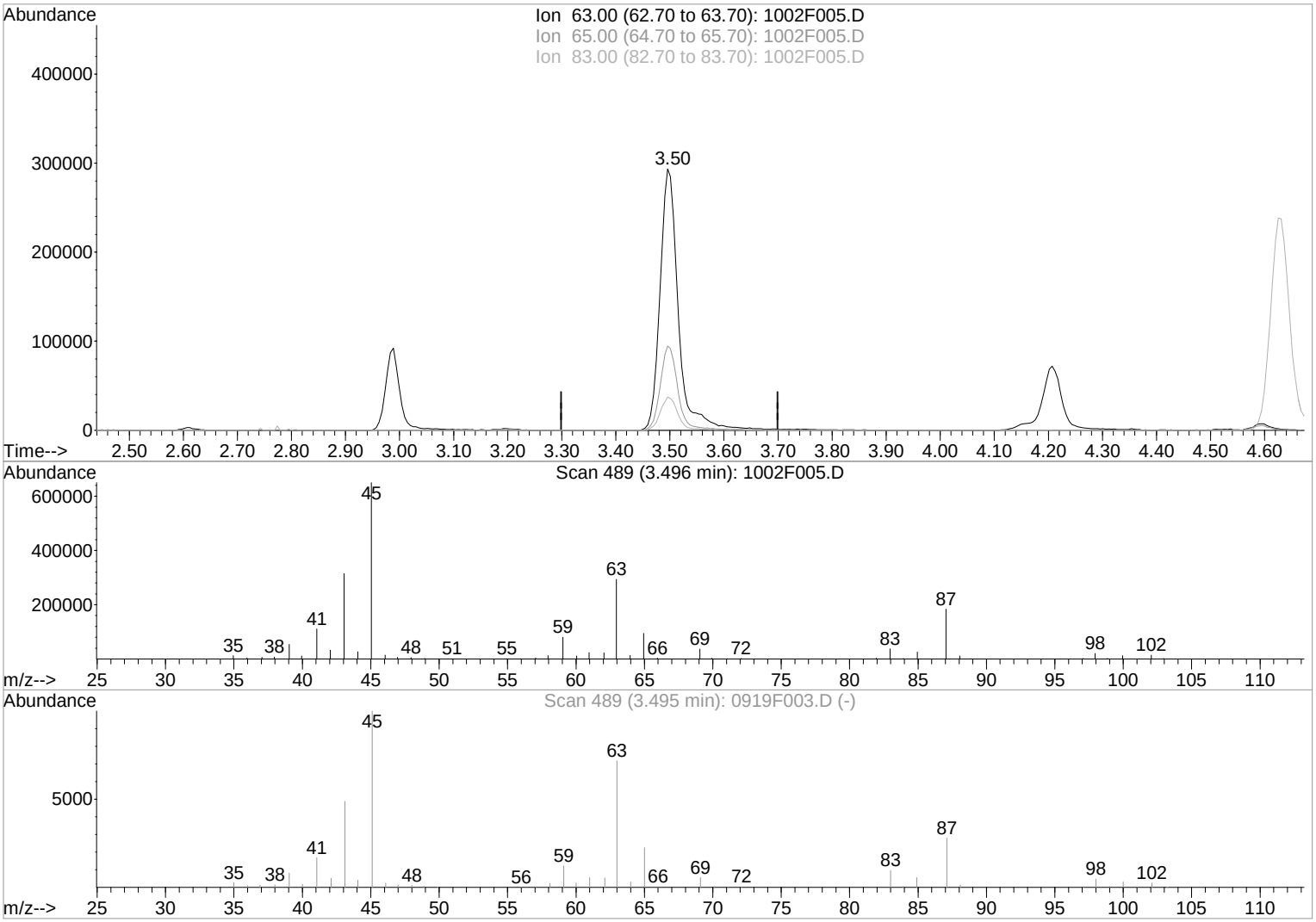


Quantitation Report (Qedit)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F005.D Vial: 5
Acq On : 2 Oct 2023 12:11 pm Operator: GH/EW/OT/MK
Sample : DLCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:54 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Multiple Level Calibration



TIC: 1002F005.D

(27) 1,1-Dichloroethane (PT)

3.50min 9.85PPB

response 691767

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.21
83.00	12.70	12.69
0.00	0.00	0.00

Manual Integration:

Before

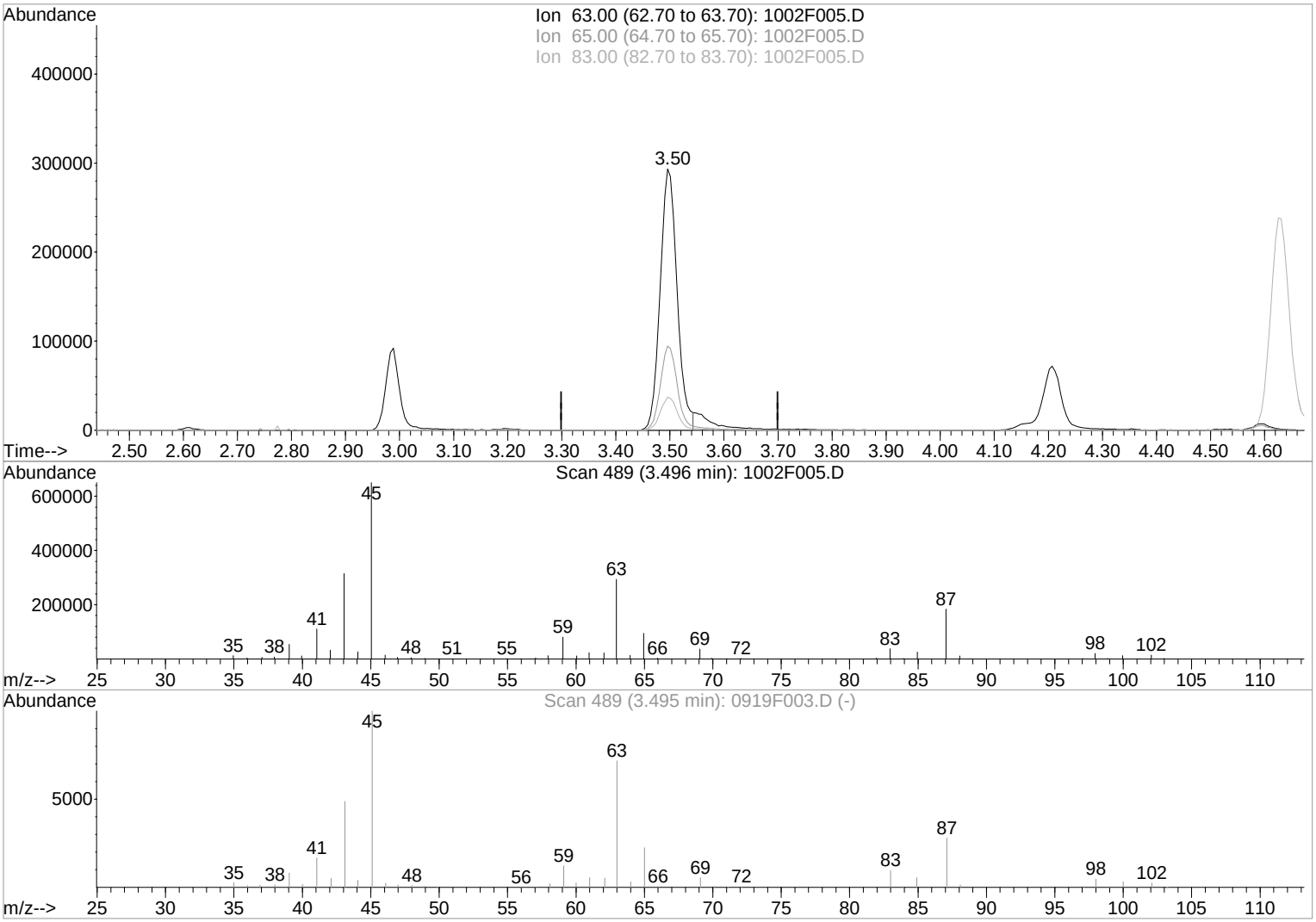
10/03/23

Quantitation Report (Qedit)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F005.D Vial: 5
Acq On : 2 Oct 2023 12:11 pm Operator: GH/EW/OT/MK
Sample : DLCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:55 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Multiple Level Calibration



TIC: 1002F005.D

(27) 1,1-Dichloroethane (PT)

3.50min 9.16PPB m

response 643035

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.21
83.00	12.70	12.69
0.00	0.00	0.00

Manual Integration:

After

Shoulder

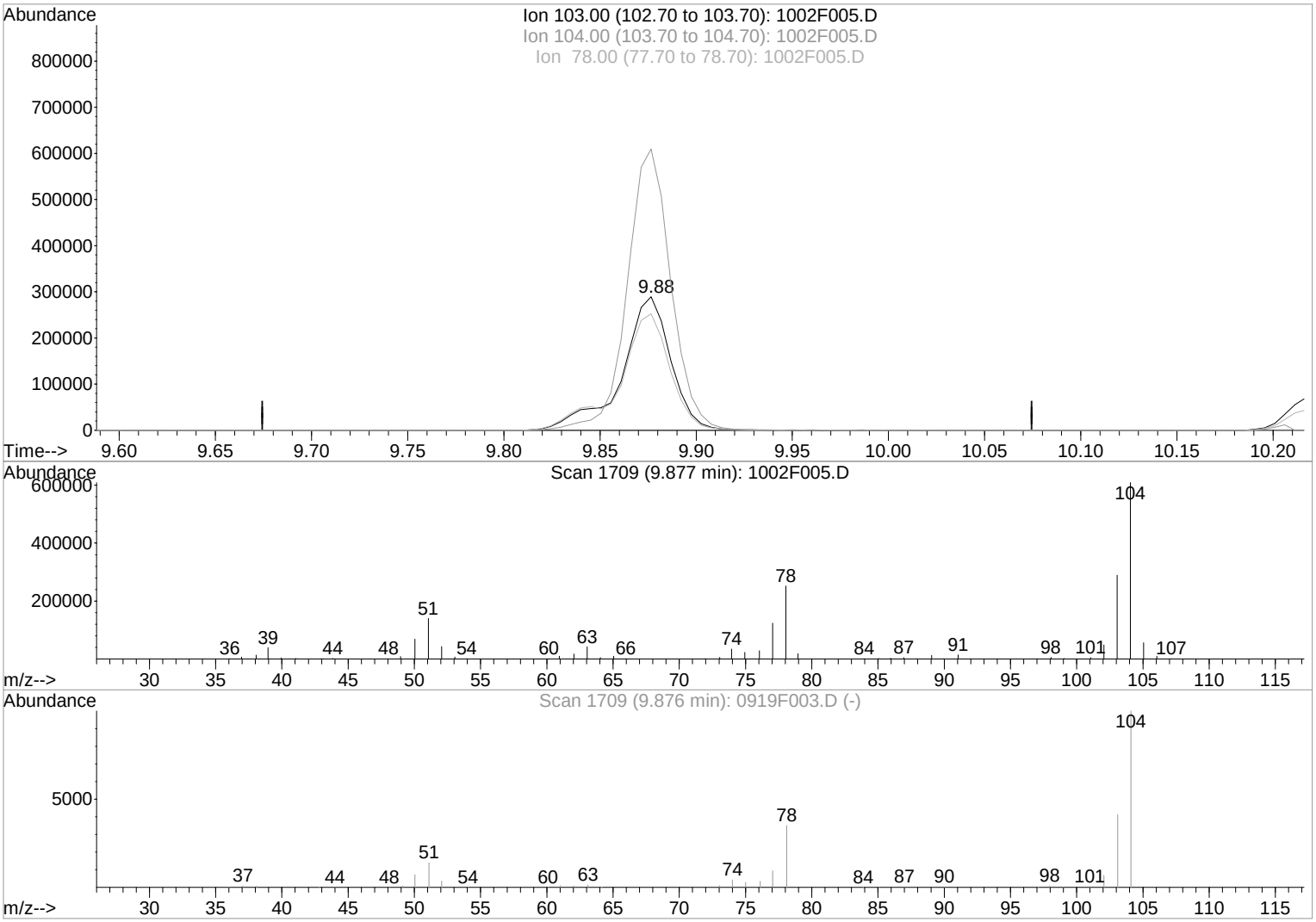
10/03/23

Quantitation Report (Qedit)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F005.D Vial: 5
Acq On : 2 Oct 2023 12:11 pm Operator: GH/EW/OT/MK
Sample : DLCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:55 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Single Level Calibration



TIC: 1002F005.D

(80) Styrene (T)

9.88min 11.21PPB

response 513835

Ion	Exp%	Act%
103.00	100	100
104.00	245.50	210.34#
78.00	102.00	87.12
0.00	0.00	0.00

Manual Integration:

Before

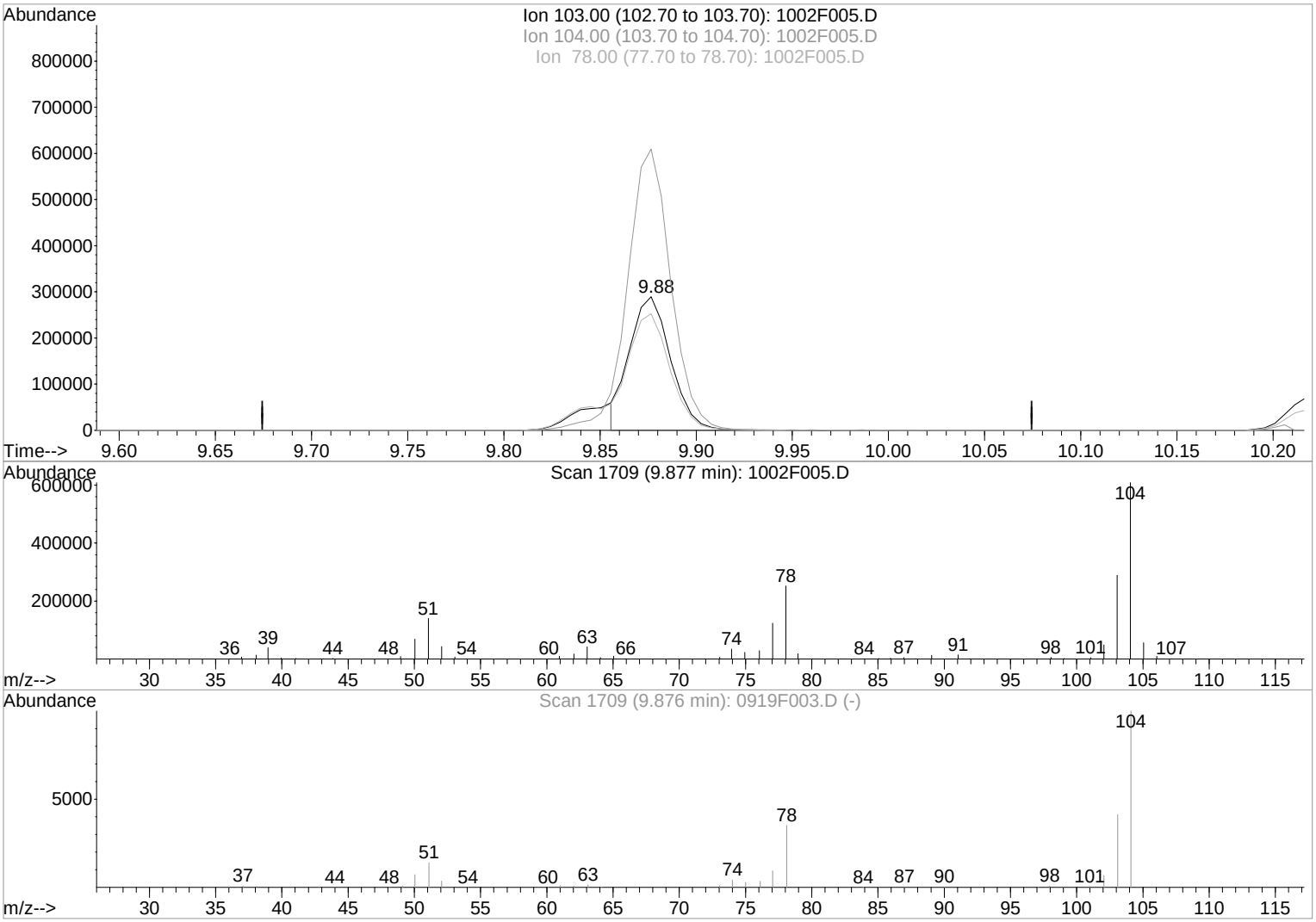
10/03/23

Quantitation Report (Qedit)

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F005.D Vial: 5
Acq On : 2 Oct 2023 12:11 pm Operator: GH/EW/OT/MK
Sample : DLCS Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:55 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Single Level Calibration



TIC: 1002F005.D

(80) Styrene (T)

9.88min 9.41PPB m

response 431221

Ion	Exp%	Act%
103.00	100	100
104.00	245.50	210.34#
78.00	102.00	87.12
0.00	0.00	0.00

Manual Integration:

After

Shoulder

10/03/23

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F001.D\
Lab ID: KQ2317300-01
RunType: TUNE
Matrix: Soil

Date Acquired: 10/2/23 09:13:00
Batch ID: 819120
Analysis Method: 8260C/VOC TCLP

Validations

Validation Categories	Pass	Fail
Tune Ion Ratio	X	

Primary Review: _____

Printed: 10/4/23 8:48
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Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F001.D\
Lab ID: KQ2317367-01
RunType: TUNE
Matrix: Wastewater

Date Acquired: 10/2/23 09:13:00
Batch ID: 819142
Analysis Method: 624.1/VOC_FP

Validations

Validation Categories	Pass	Fail
Tune Ion Ratio	X	

Primary Review: _____

Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F001.D\
Lab ID: KQ2317367-01
RunType: TUNE
Matrix: Wastewater

Date Acquired: 10/2/23 09:13:00
Batch ID: 819142
Analysis Method: 624.1/VOC_UNP

Validations

Validation Categories	Pass	Fail
Tune Ion Ratio	X	

Primary Review: _____

Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Validation Report

Data File: J:\MS23\DATA\100223\1002F001.D\
Lab ID: KQ2317368-01
RunType: TUNE
Matrix: Water

Date Acquired: 10/2/23 09:13:00
Batch ID: 819143
Analysis Method: 8260C/VOC FP

Validations

Validation Categories	Pass	Fail
Tune Ion Ratio	X	

Primary Review: _____

Printed: 10/3/23 12:04
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Secondary Review: _____

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F001.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 09:13:00	**Vial:**	1
Run Type:	TUNE	**Dilution:**	1
Lab ID:	KQ2317300-01	**Raw Units:**	

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	VOC TCLP	**Collect Date:**	9/25/23	**Receive Date:**	9/26/23

Analysis Lot:	819120	**Prep Lot:**		**Report Group:**	KQ2317300
Analysis	8260C	**Prep Method:**			
		Prep Date:			

Title:	TCLP Volatile Organics by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	19028

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.8	15306	Pass
75	95	30	60	48.5	39549	Pass
95	95	100	100	100.0	81472	Pass
96	95	5	9	7.0	5726	Pass
173	174	0	2	0.3	228	Pass
174	95	50	120	81.8	66637	Pass
175	174	5	9	6.8	4540	Pass
176	174	95	101	95.4	63573	Pass
177	176	5	9	7.0	4465	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F001.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 09:13:00	**Vial:**	2
Run Type:	TUNE	**Dilution:**	1
Lab ID:	KQ2317367-01	**Raw Units:**	

Bottle ID:		**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	VOC_UNP	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	819142	**Prep Lot:**		**Report Group:**	KQ2317367
Analysis	624.1	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS, Unpreserved	**Calibration ID:**	KC2300542
		Report List ID:	23088

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.8	15306	Pass
75	95	30	60	48.5	39549	Pass
95	95	100	100	100.0	81472	Pass
96	95	5	9	7.0	5726	Pass
173	174	0	2	0.3	228	Pass
174	95	50	120	81.8	66637	Pass
175	174	5	9	6.8	4540	Pass
176	174	95	101	95.4	63573	Pass
177	176	5	9	7.0	4465	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F001.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 09:13:00	**Vial:**	1
Run Type:	TUNE	**Dilution:**	1
Lab ID:	KQ2317367-01	**Raw Units:**	

Bottle ID:		**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	VOC_FP	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	819142	**Prep Lot:**		**Report Group:**	KQ2317367
Analysis	624.1	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	24217

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.8	15306	Pass
75	95	30	60	48.5	39549	Pass
95	95	100	100	100.0	81472	Pass
96	95	5	9	7.0	5726	Pass
173	174	0	2	0.3	228	Pass
174	95	50	120	81.8	66637	Pass
175	174	5	9	6.8	4540	Pass
176	174	95	101	95.4	63573	Pass
177	176	5	9	7.0	4465	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 10/3/23 12:02
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1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F001.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 09:13:00	**Vial:**	1
Run Type:	TUNE	**Dilution:**	1
Lab ID:	KQ2317368-01	**Raw Units:**	

Bottle ID:		**Tier:**	III	**Matrix:**	Water
Prod Code:	VOC FP	**Collect Date:**	9/21/23	**Receive Date:**	9/22/23

Analysis Lot:	819143	**Prep Lot:**		**Report Group:**	KQ2317368
Analysis	8260C	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	20915

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.8	15306	Pass
75	95	30	60	48.5	39549	Pass
95	95	100	100	100.0	81472	Pass
96	95	5	9	7.0	5726	Pass
173	174	0	2	0.3	228	Pass
174	95	50	120	81.8	66637	Pass
175	174	5	9	6.8	4540	Pass
176	174	95	101	95.4	63573	Pass
177	176	5	9	7.0	4465	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Quantitation Report

Data File:	J:\MS23\DATA\100223\1002F001.D\	**Instrument:**	K-MS-23
Acqu Date:	10/2/23 09:13:00	**Vial:**	1
Run Type:	TUNE	**Dilution:**	1
Lab ID:	KQ2317368-01	**Raw Units:**	

Bottle ID:		**Tier:**	III	**Matrix:**	Water
Prod Code:	VOC FP	**Collect Date:**	9/21/23	**Receive Date:**	9/22/23

Analysis Lot:	819143	**Prep Lot:**		**Report Group:**	KQ2317368
Analysis	8260C	**Prep Method:**			
		Prep Date:			

Title:	Volatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300542
		Report List ID:	23955

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.8	15306	Pass
75	95	30	60	48.5	39549	Pass
95	95	100	100	100.0	81472	Pass
96	95	5	9	7.0	5726	Pass
173	174	0	2	0.3	228	Pass
174	95	50	120	81.8	66637	Pass
175	174	5	9	6.8	4540	Pass
176	174	95	101	95.4	63573	Pass
177	176	5	9	7.0	4465	Pass

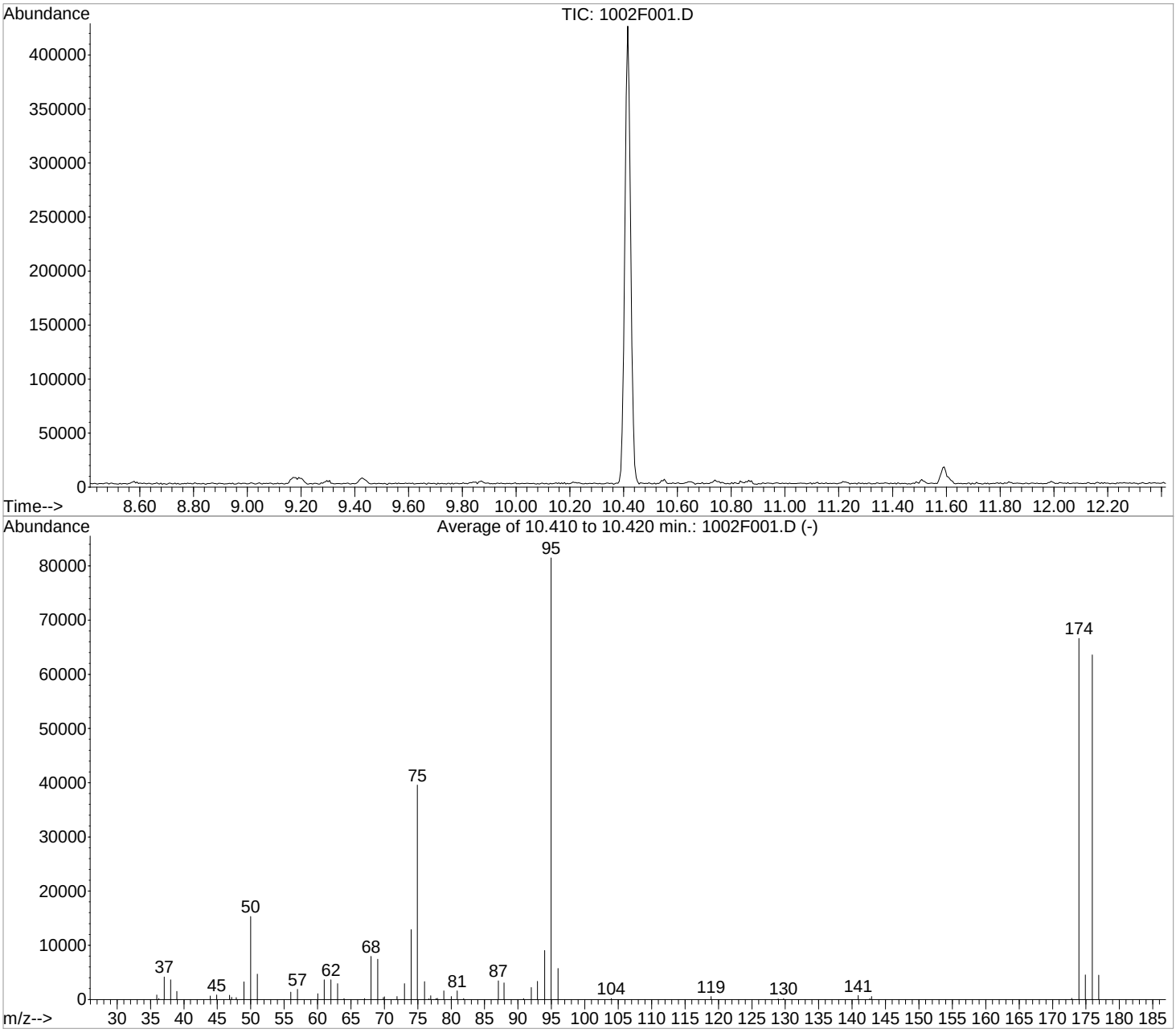
U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 10/03/23
2nd 10/04/23

Data File : J:\MS23\DATA\100223\1002F001.D Vial: 1
Acq On : 2 Oct 2023 9:13 am Operator: GH/EW/OT/MK
Sample : BFB Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C



AutoFind: Scans 1811, 1812, 1813; Background Corrected with Scan 1803

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	15306	PASS
75	95	30	60	48.5	39549	PASS
95	95	100	100	100.0	81472	PASS
96	95	5	9	7.0	5726	PASS
173	174	0.00	2	0.3	228	PASS
174	95	50	120	81.8	66637	PASS
175	174	5	9	6.8	4540	PASS
176	174	95	101	95.4	63573	PASS
177	176	5	9	7.0	4465	PASS

~~KC2300531~~ 9/19/23 6 14/6 14.1/8260
KC2300542

Date: 9/11/23

By: SLW

IS/SS Std. ID: 103VOA-80H

CCV/MRL Std ID: See ical sheet

MS/DMS/LCS/ICV Std ID: I

BFB Std. ID: 103VOA-65B

ALS Environmental
Injection Log
MS23 - Agilent 5973

Tune File: BFB

New Tune: Yes

Run:

ICAL Date: 9/11/23

Second RV:

LIMS ID: 9/11/23

	Sample Name	File Name	Method	Dilution	pH<2	Comments
1	BFB@ 50ng	0908f008	8260	NONE	NA	5mL→ 50mL 13:58
2	IB	9				
3	IB	10				
4	ICal 0.1 ppb	11				See ical sheet
5	0.2	12				
6	0.5	13				
7	1	14				
8	2	15				
9	5	16				
10	10	17				
11	20	18				
12	40	19				
13	80	20				
14	120	21				
15	IB	22				
16	IB	23				
17	ICV	24				(NB)
18	ICV	25				↓
19	BFB @50ng	26				5mL→ 50mL
20	IB	27				
21	ICV	28				See ical sheet
22	ICV CLP	29				I
23						
24						
25						
26						
27						
28						

R:\VOA\For Jon\INJLOG_MS13_Rev1.xls

Date 9/11/23
Prepared By EW

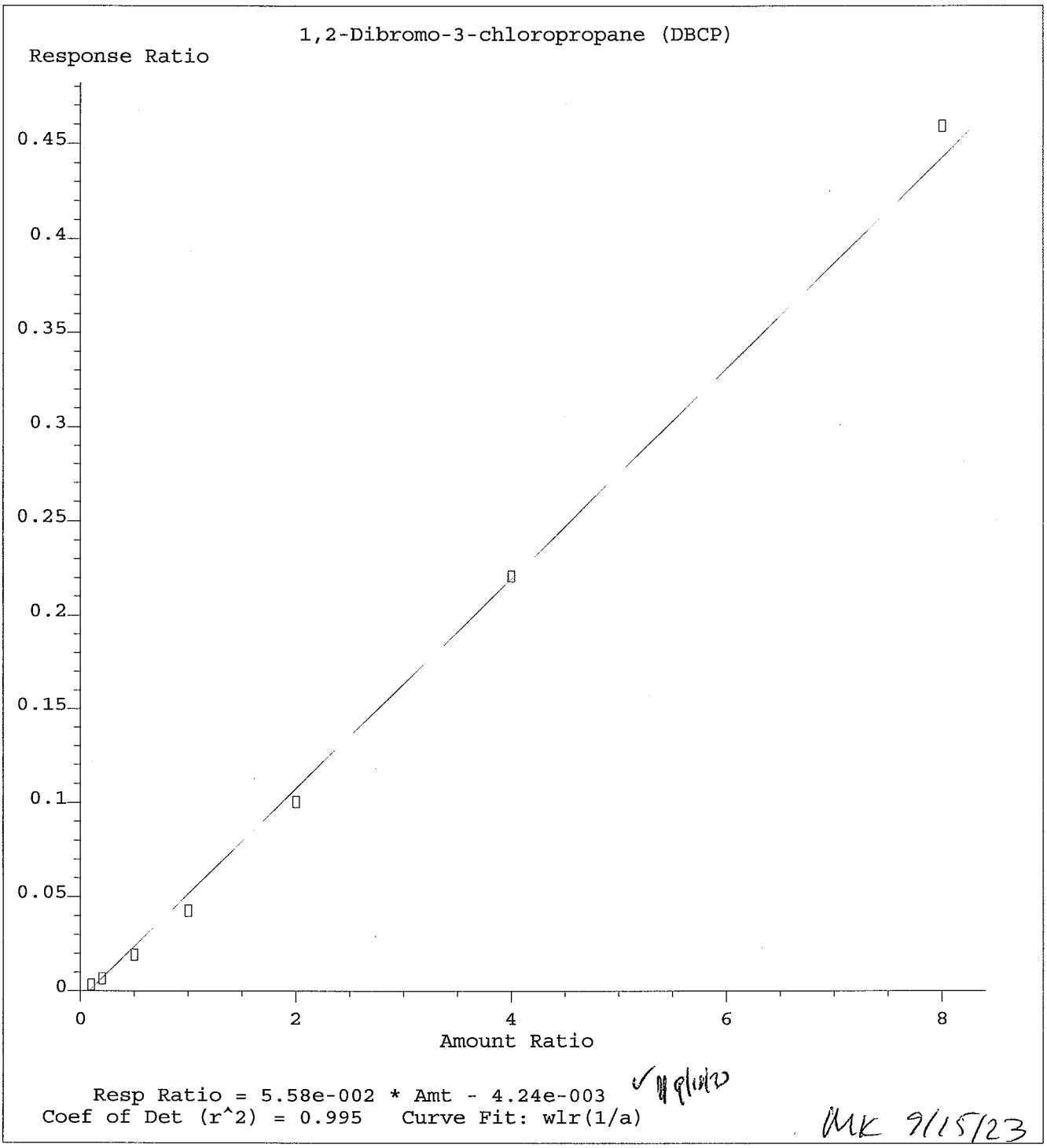
Analysis: 624
Instrument: MS23
Matrix: Water

Stock Solution #1 103V0A-81B 9/18/23
Stock Solution #2 81A 9/18/23
Stock Solution #3 81C 9/18/23
Stock Solution #4 69F 10/18/23

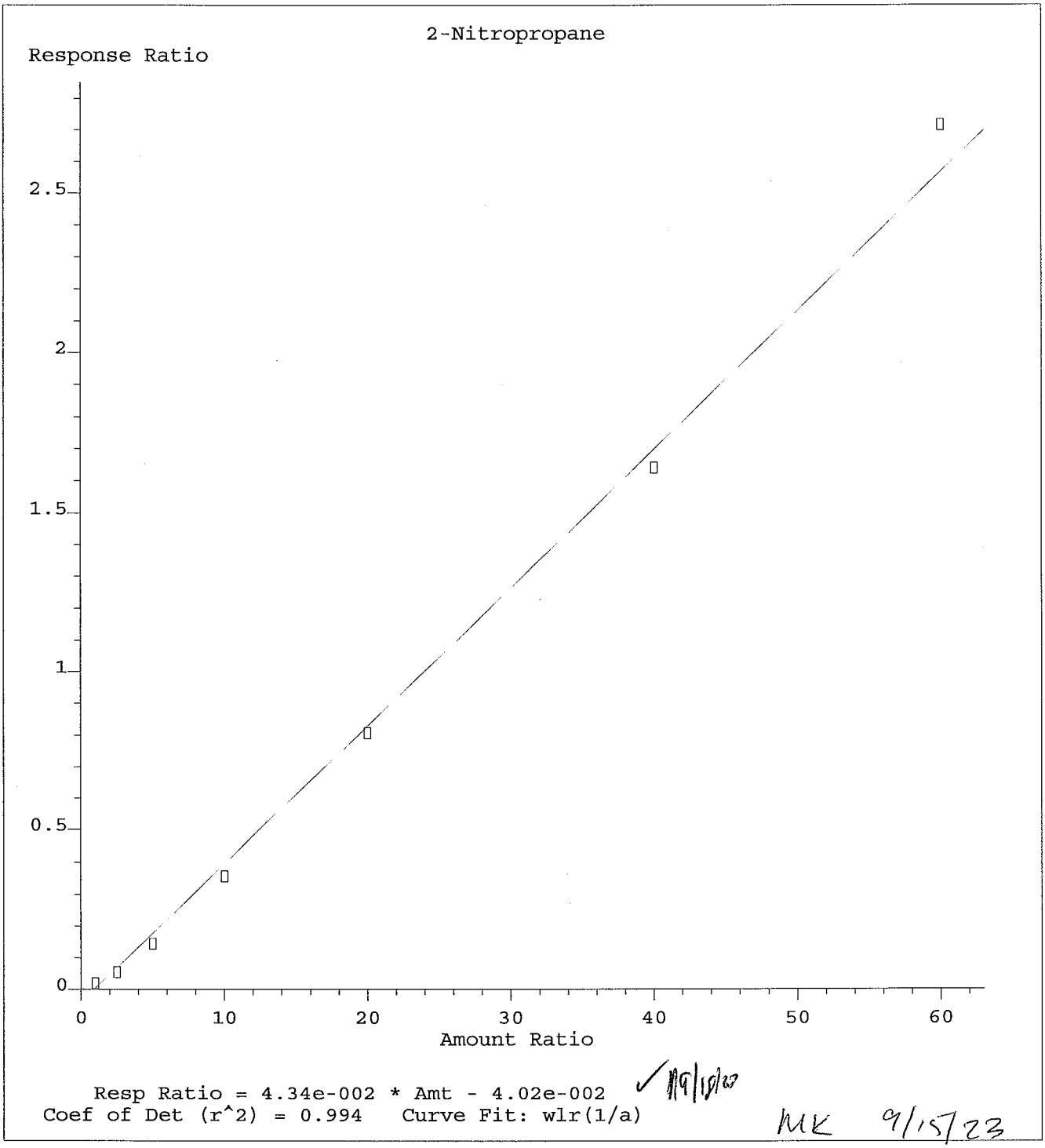
Analytes: Low 624 5ppm
Analytes: 624 50ppm
Analytes: Low Ketones 200ppm
Analytes: Ketones 2000ppm

Aliquot of Stock Solution #1 (µL)	Final Conc. of #1 (µg/L)	Aliquot of Stock Solution #2 (µL)	Final Conc. of #2 (µg/L)	Aliquot of Stock Solution #3 (µL)	Final Conc. of #3 (µg/L)	Aliquot of Stock Solution #4 (µL)	Final Conc. of #4 (µg/L)	Final Volume (mL)	Notes
1	0.1			0.5	2			50	Level ID: 1
2.0	0.2			1	4			50	Level ID: 2
5.0	0.5			2.5	10			50	Level ID: 3
10.0	1.0			5	20			50	Level ID: 4
		2	2	10	40			50	Level ID: 5
		5.0	5			2.5	100	50	Level ID: 6
		10	10			5	200	50	Level ID: 7
		20	20			10	400	50	Level ID: 8
		40	40			20	800	50	Level ID: 9
		80	80			40	1600	50	Level ID: 10
		120	120		EW9/12/23	60	2400	50	Level ID: 11

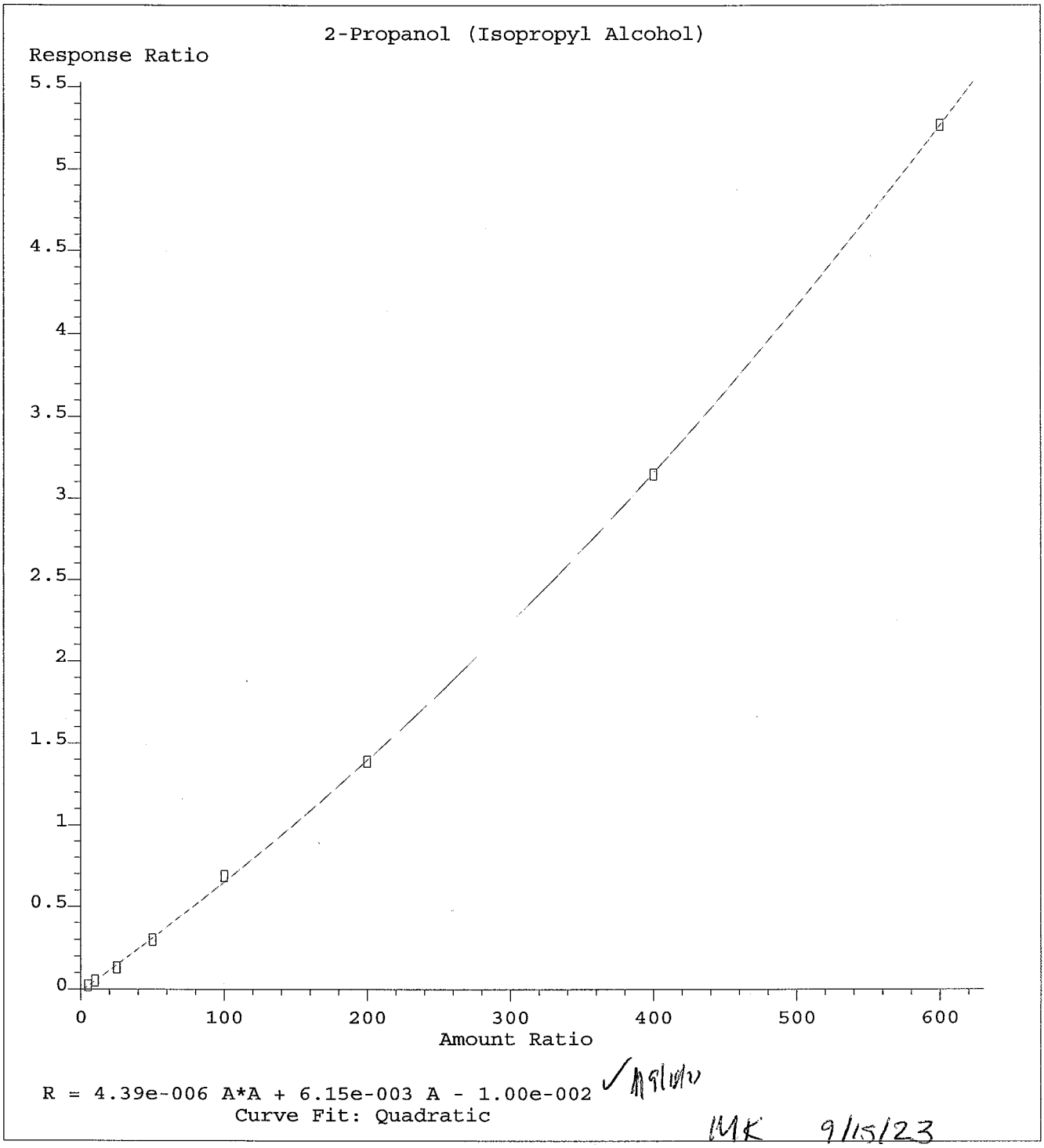
8260 ICV: 10uL of 50/250ppm Accustd ICV (103V0A-83A 9/10/23) + 50uL of ~~100~~5000ppm Acrolein (103V0A-57A 9/30/23) +
5uL of 100ppm Dichlorofluoromethane (103V0A-82F 9/10/23) + 5uL of 200ppm n-Octane/TBF/Tetrahydrafuran (103V0A-81D 9/18/23)
5uL of 100ppm Oxygenates (103V0A-82E 11/12/23) + 7.5uL of Appendix ICV mix(103V0A-72A 9/28/23) + 25uL of 1000ppm 2-Propanol(103V0A-55F 9/28/23)
5uL of 100ppm CLP (103V0A-82C 9/18/23)



Method Name: J:\MS23\METHODS\091123MS23_8260.M
Calibration Table Last Updated: Fri Sep 15 15:26:27 2023

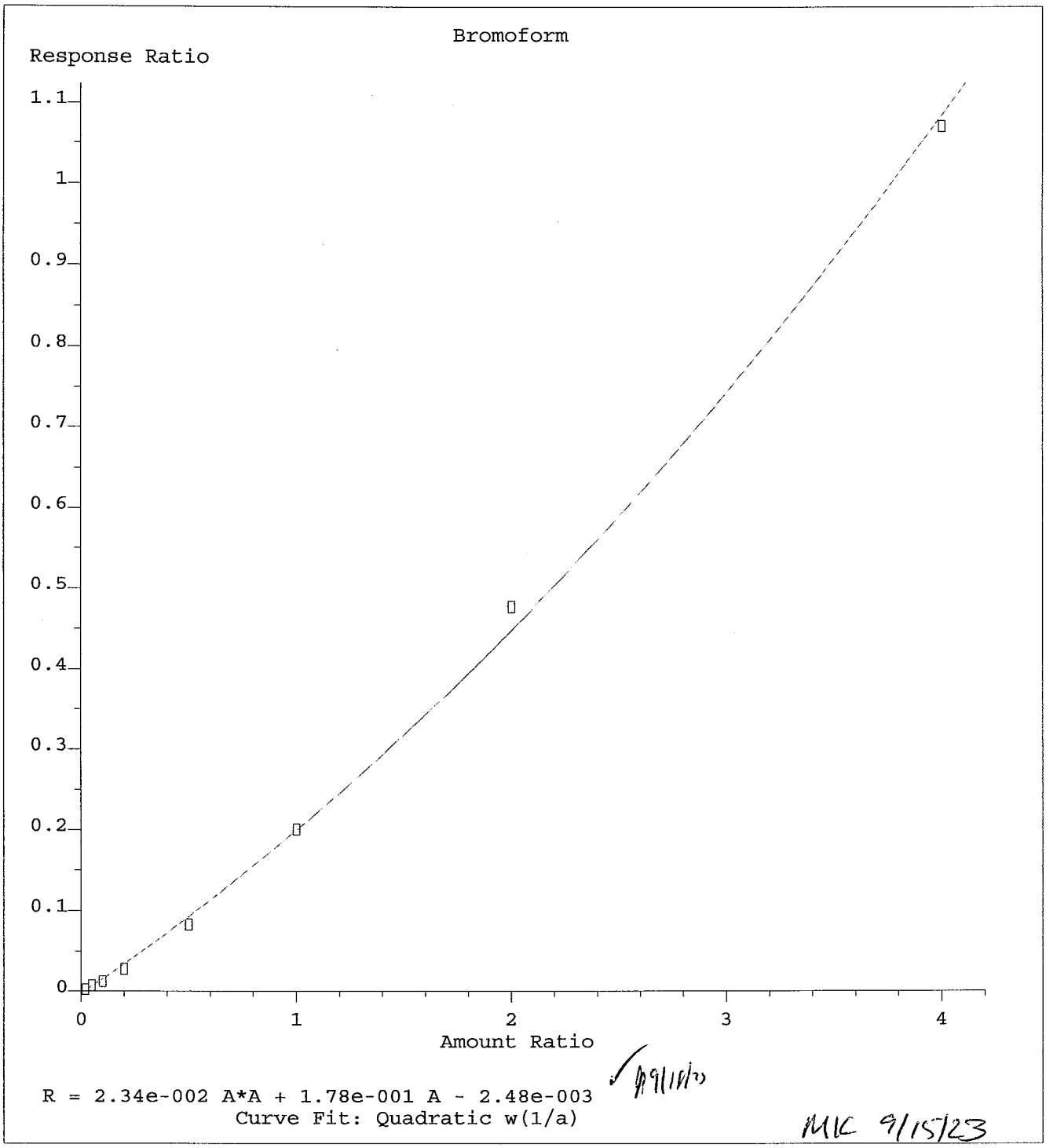


Method Name: J:\MS23\METHODS\091123MS23_8260.M
Calibration Table Last Updated: Fri Sep 15 15:26:27 2023



MK 9/15/23

Method Name: J:\MS23\METHODS\091123MS23_8260.M
Calibration Table Last Updated: Fri Sep 15 15:26:27 2023



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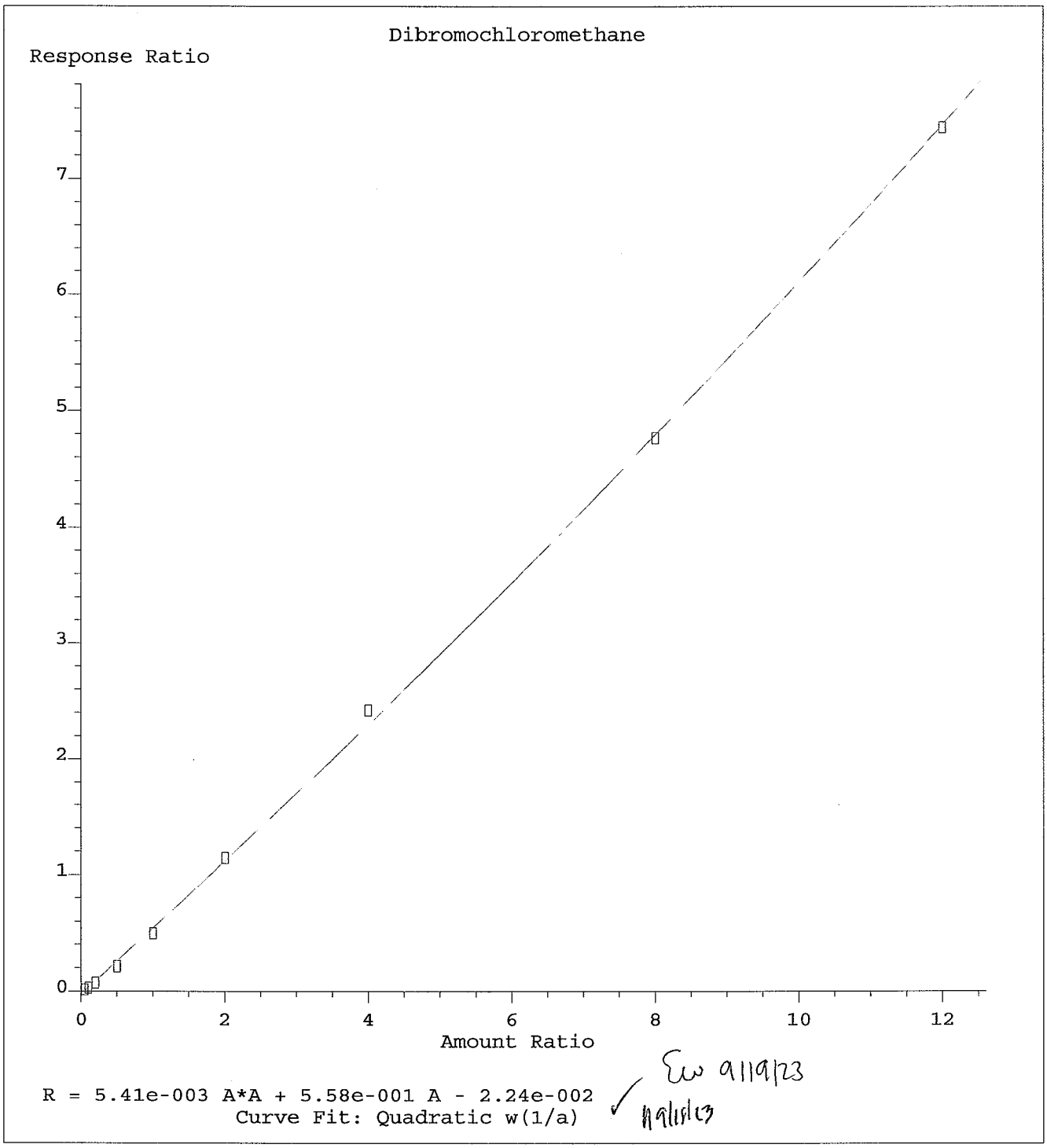
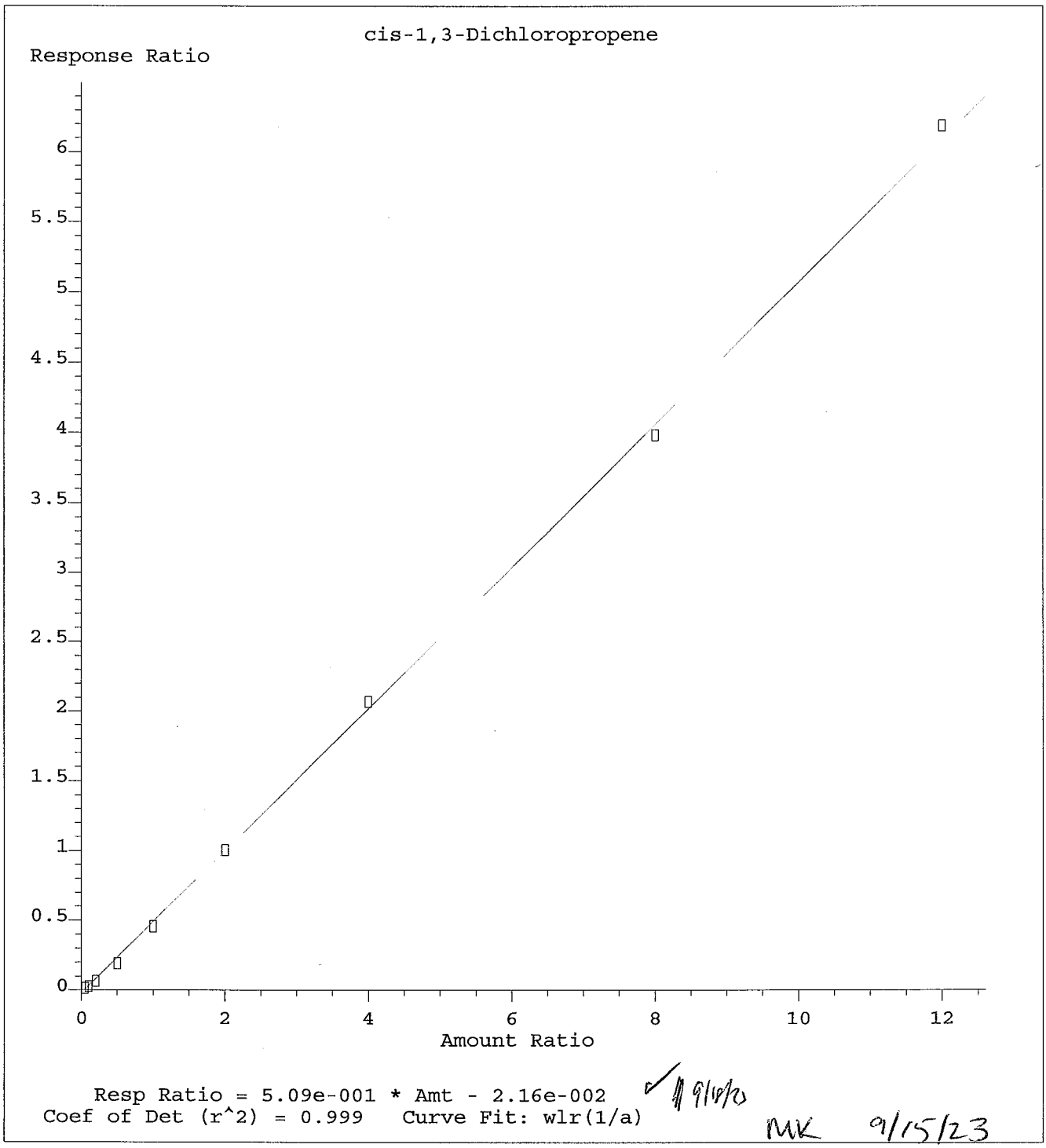
Calibration Table Last Updated: Fri Sep 15 15:26:27 2023

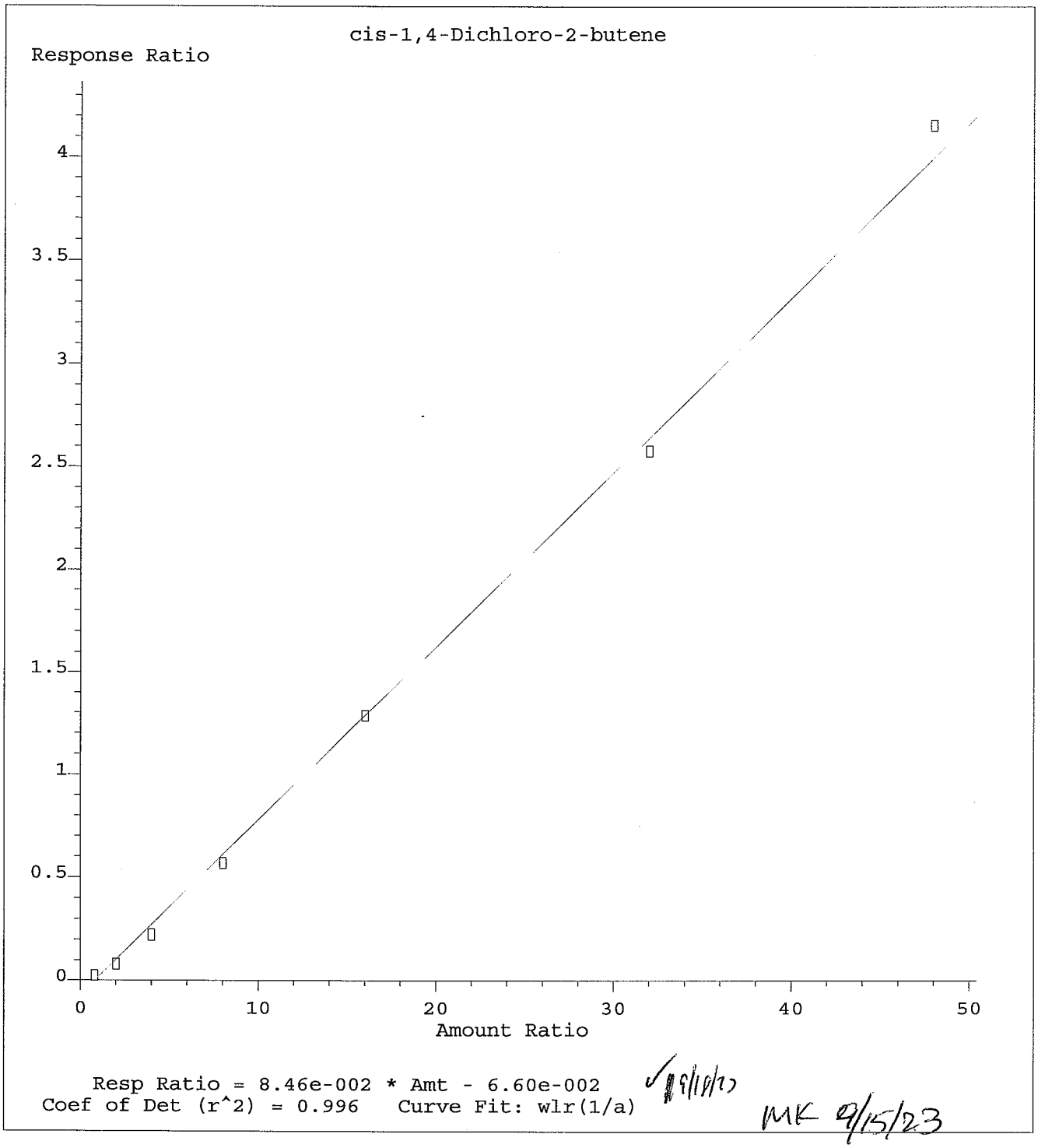


EW 9/19/23
9/19/23

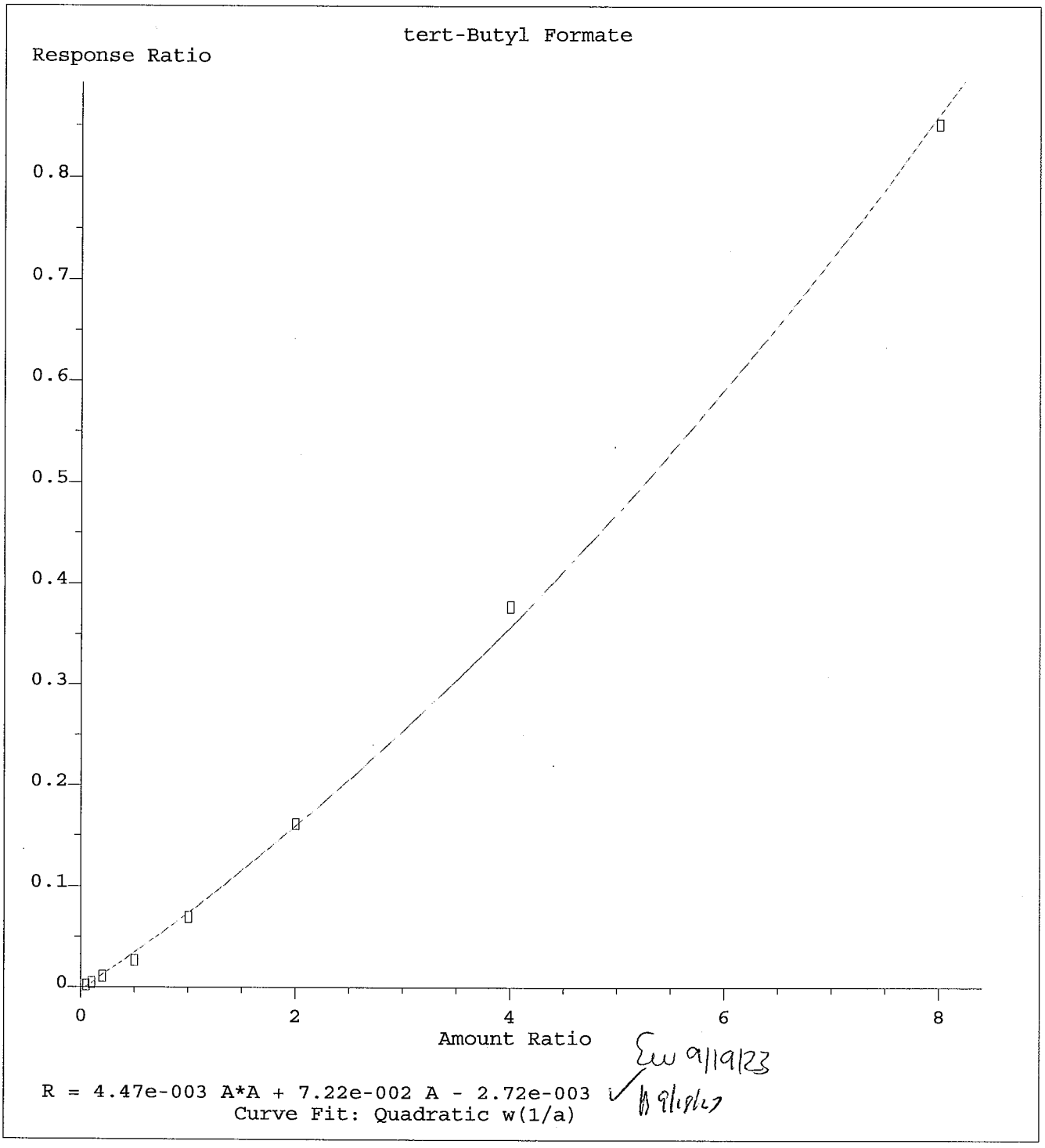
Method Name: J:\MS23\METHODS\091123MS23_8260.M
Calibration Table Last Updated: Mon Sep 18 16:31:39 2023



Method Name: J:\MS23\METHODS\091123MS23_8260.M
Calibration Table Last Updated: Fri Sep 15 15:26:27 2023

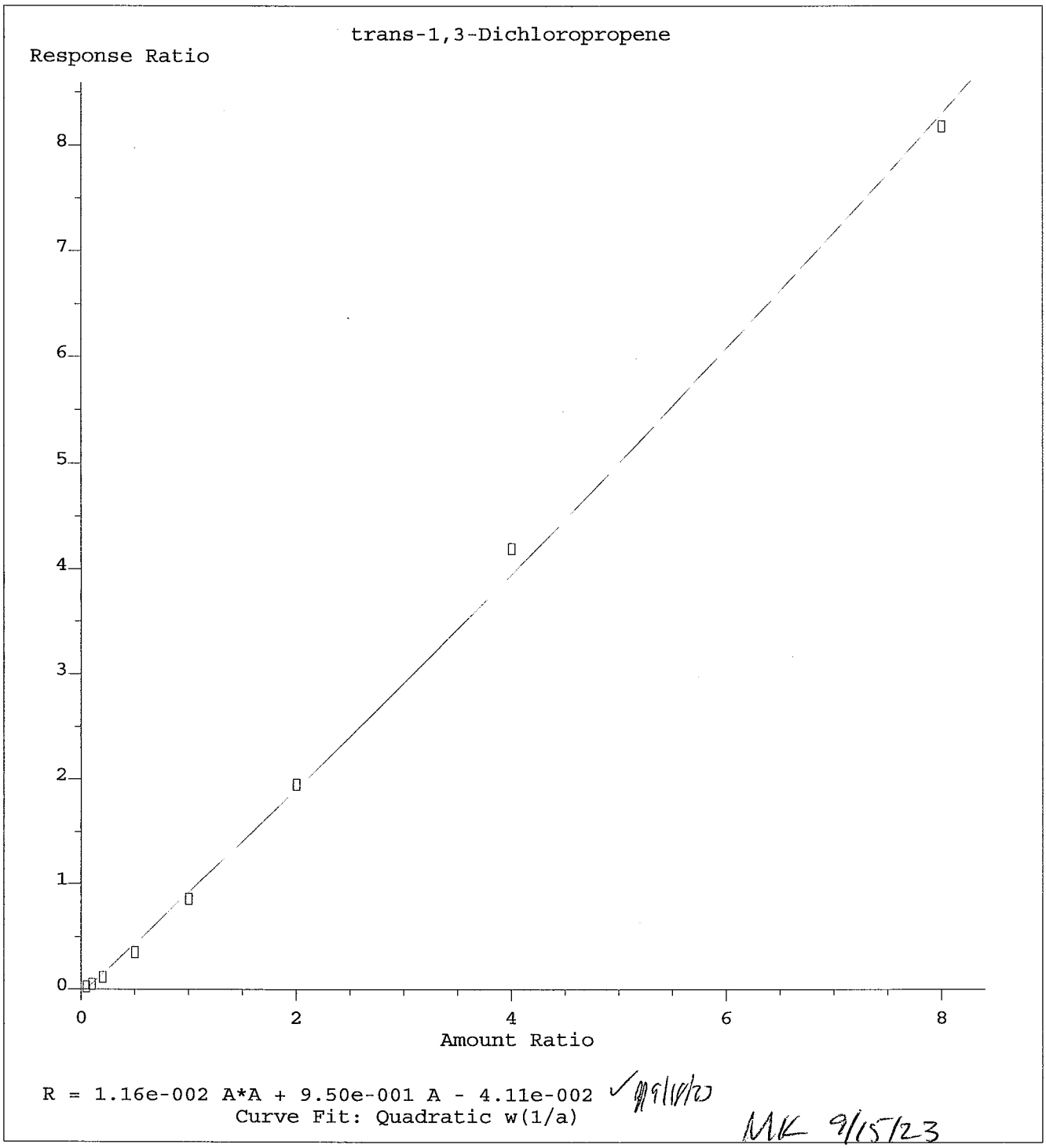


Method Name: J:\MS23\METHODS\091123MS23_8260.M
Calibration Table Last Updated: Fri Sep 15 15:26:27 2023



EW 9/19/23
9/19/23

Method Name: J:\MS23\METHODS\091123MS23_8260.M
Calibration Table Last Updated: Mon Sep 18 16:29:35 2023



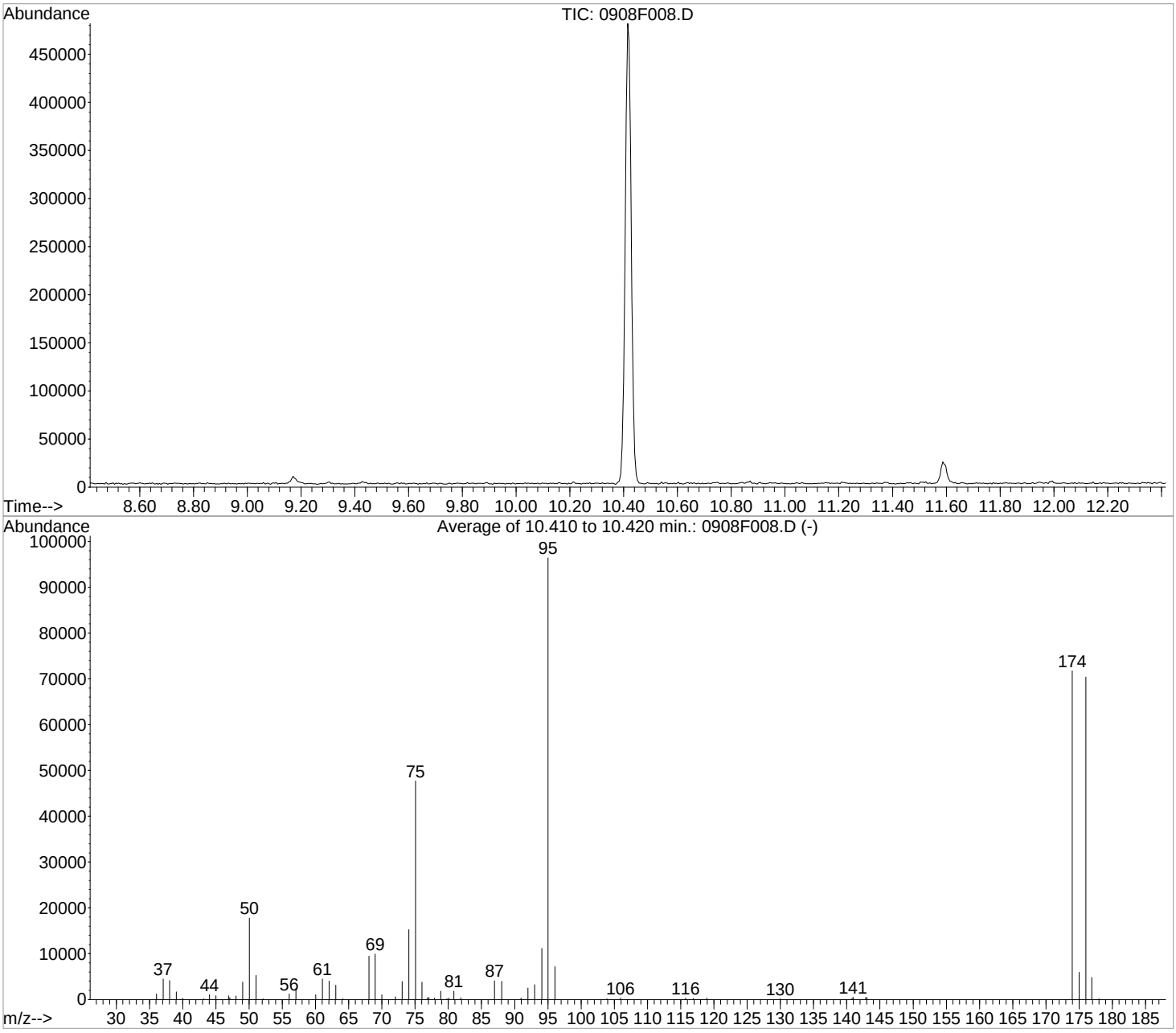
R = 1.16e-002 A*A + 9.50e-001 A - 4.11e-002 ✓ 9/18/23
Curve Fit: Quadratic w(1/a)

MK 9/15/23

Method Name: J:\MS23\METHODS\091123MS23_8260.M
Calibration Table Last Updated: Fri Sep 15 15:26:27 2023

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F008.D Vial: 6
Acq On : 11 Sep 2023 1:58 pm Operator: EW/GH/MK/OT
Sample : BFB Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS23\METHODS\0605233MS23_624_1.M (RTE Integrator)
Title : VOA MS23 EPA Method 624.1



AutoFind: Scans 1811, 1812, 1813; Background Corrected with Scan 1803

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	17767	PASS
75	95	30	60	49.5	47712	PASS
95	95	100	100	100.0	96381	PASS
96	95	5	9	7.4	7158	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	74.4	71722	PASS
175	174	5	9	8.3	5934	PASS
176	174	95	101	98.1	70392	PASS
177	176	5	9	6.9	4823	PASS

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F010.D Vial: 3
Acq On : 11 Sep 2023 3:01 pm Operator: EW/GH/MK/OT
Sample : IB Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 10:36:44 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 10:03:11 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) Fluorobenzene	5.72	96	1172287	10.00	PPB	0.00	
64) Chlorobenzene-d5	9.17	82	435937	10.00	PPB	0.00	
85) 1,4-Dichlorobenzene-d4	11.59	152	328327	10.00	PPB	0.00	
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	220365	9.22	PPB	0.00	
Spiked Amount 10.000			Recovery = 92.20%				
47) 1,2-Dichloroethane-d4	5.35	65	279227	10.47	PPB	0.00	
Spiked Amount 10.000			Recovery = 104.70%				
62) Toluene-d8	7.59	98	1068884	9.56	PPB	0.00	
Spiked Amount 10.000			Recovery = 95.60%				
84) 4-Bromofluorobenzene	10.42	95	333442	9.41	PPB	0.00	
Spiked Amount 10.000			Recovery = 94.10%				
Target Compounds						Qvalue	
15) Carbon Disulfide	2.43	76	12684	0.14	PPB	96	< MRL
20) Methylene Chloride	2.76	84	5008	0.12	PPB	92	< MRL

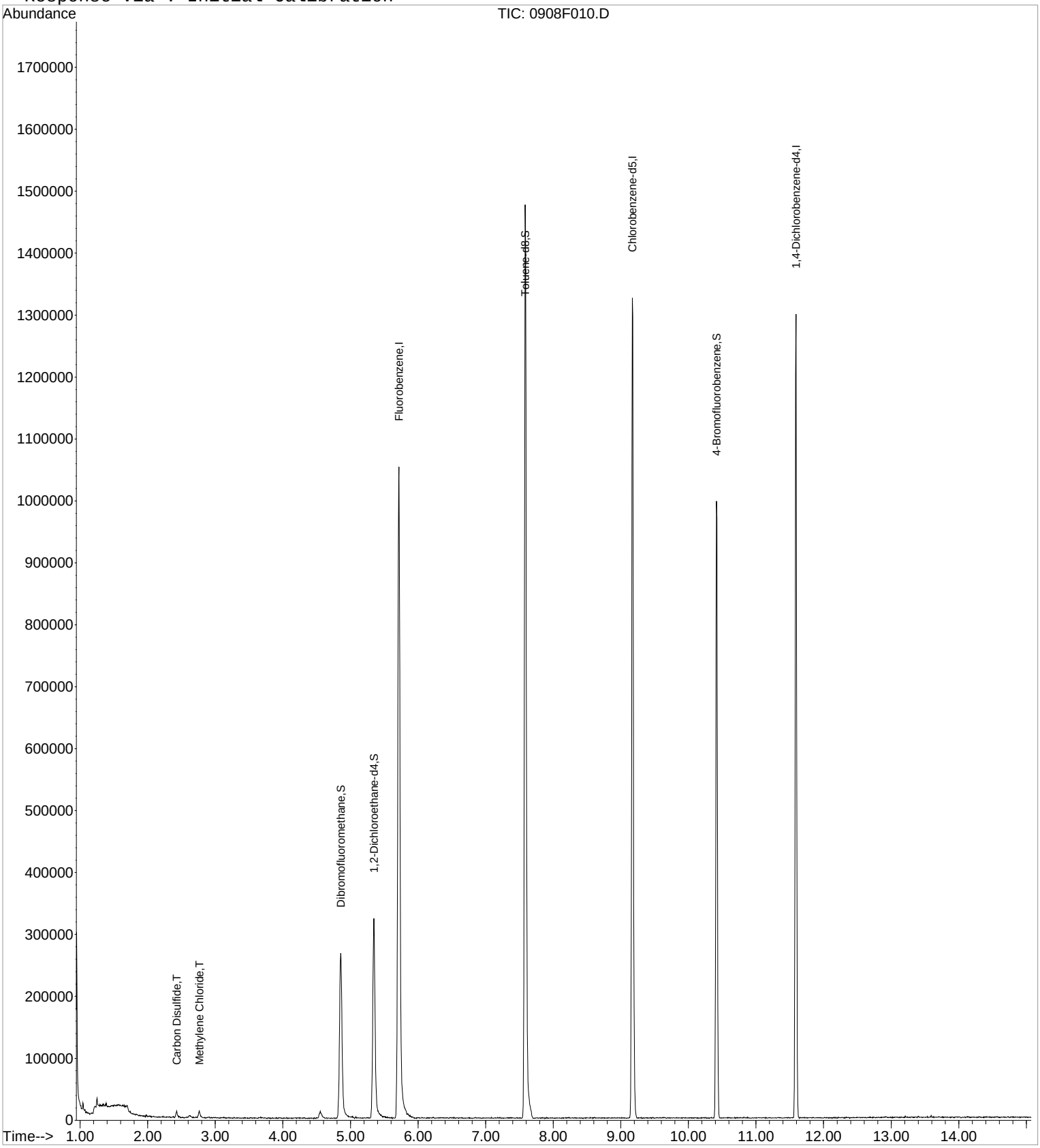
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

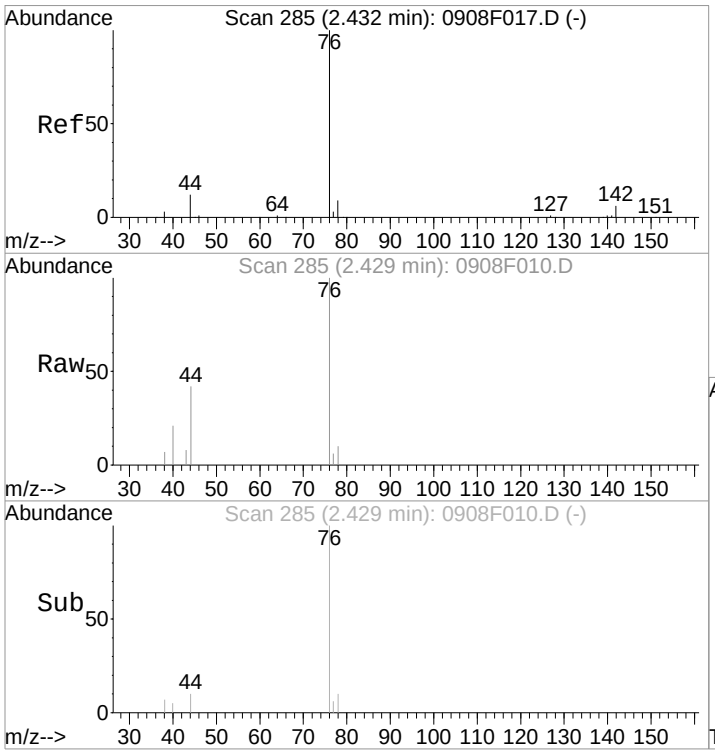
1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F010.D Vial: 3
Acq On : 11 Sep 2023 3:01 pm Operator: EW/GH/MK/OT
Sample : IB Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 10:39 2023 Quant Results File: 091123MS23_8260.RES

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 10:03:11 2023
Response via : Initial Calibration



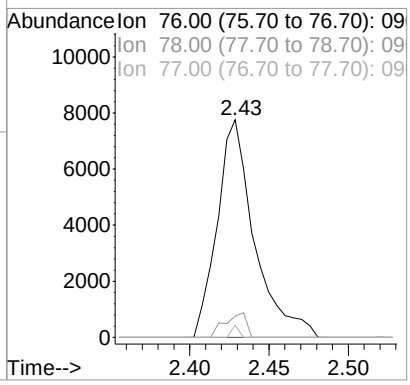
1st 09/12/23
2nd 09/15/23

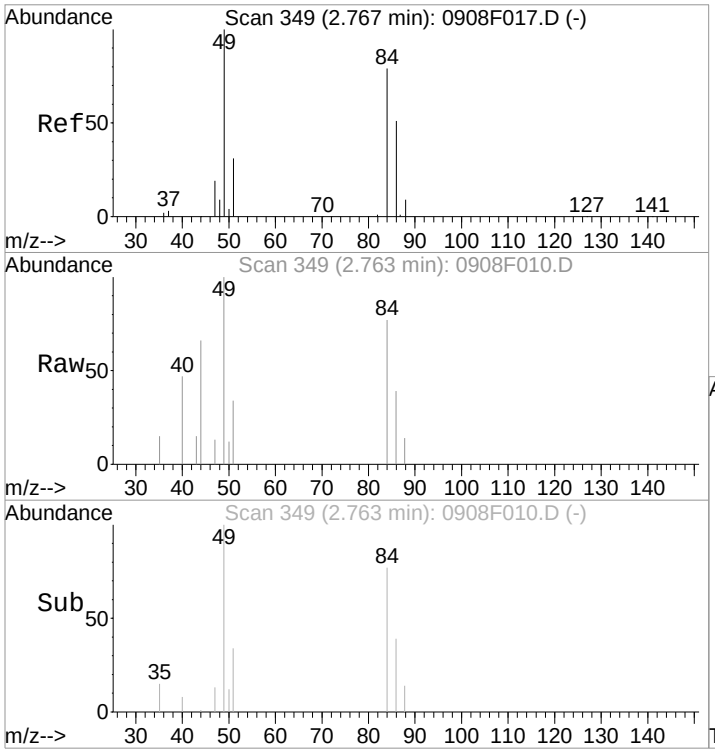


#15
Carbon Disulfide
Concen: 0.14 PPB
RT: 2.43 min Scan# 285
Delta R.T. -0.00 min
Lab File: 0908F010.D
Acq: 11 Sep 2023 3:01 pm

Tgt Ion: 76 Resp: 12684

Ion	Ratio	Lower	Upper
76	100		
78	9.7	0.0	39.0
77	5.6	0.0	32.5

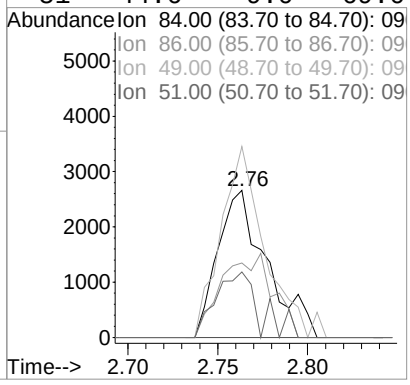




#20
Methylene Chloride
Concen: 0.12 PPB
RT: 2.76 min Scan# 349
Delta R.T. -0.00 min
Lab File: 0908F010.D
Acq: 11 Sep 2023 3:01 pm

Tgt Ion: 84 Resp: 5008

Ion	Ratio	Lower	Upper
84	100		
86	50.7	34.8	94.8
49	129.8	96.5	156.5
51	44.6	9.0	69.0



Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F011.D Vial: 4
Acq On : 11 Sep 2023 3:25 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:36 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1128930	10.00	PPB		0.00
64) Chlorobenzene-d5	9.17	82	420797	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	318769	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	213852	9.29	PPB		0.00
Spiked Amount 10.000			Recovery = 92.90%				
47) 1,2-Dichloroethane-d4	5.34	65	270485	10.54	PPB		0.00
Spiked Amount 10.000			Recovery = 105.40%				
62) Toluene-d8	7.59	98	1037990	9.67	PPB		0.00
Spiked Amount 10.000			Recovery = 96.70%				
84) 4-Bromofluorobenzene	10.42	95	328242	9.62	PPB		0.00
Spiked Amount 10.000			Recovery = 96.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.06	85	4118m	0.14	PPB		
3) Chloromethane	1.22	50	5056	0.13	PPB		87
4) Vinyl Chloride	1.28	62	3615	0.09	PPB		79
5) Bromomethane	1.54	96	2055	0.13	PPB	#	62
6) Chloroethane	1.62	64	6127	0.24	PPB		86
7) Dichlorofluoromethane	1.78	67	6078	0.11	PPB		88
8) Trichlorofluoromethane	1.79	101	5109	0.10	PPB		89
9) Ethyl Ether	2.04	59	2268	0.09	PPB		97
10) Acrolein	2.22	56	5712	1.71	PPB		90
11) Trichlorotrifluoroethane	2.22	151	1237	0.06	PPB		78
12) 1,1-Dichloroethene	2.24	96	2758	0.08	PPB		97
14) Iodomethane	2.40	142	12151	0.31	PPB		100
15) Carbon Disulfide	2.43	76	20143	0.24	PPB		97
16) 2-Propanol (Isopropyl Alco	2.49	45	2671	3.96	PPB		89
20) Methylene Chloride	2.76	84	12157	0.31	PPB		96
23) Methyl tert-Butyl Ether	2.98	73	13090	0.18	PPB		98
24) trans-1,2-Dichloroethene	2.99	96	3381	0.09	PPB	#	76
25) Hexane	3.20	57	2860	0.08	PPB		86
26) Diisopropyl Ether	3.50	45	9931	0.09	PPB		92
27) 1,1-Dichloroethane	3.50	63	6352	0.09	PPB		97
29) Chloroprene	3.56	53	14524	0.29	PPB		89
30) tert-Butyl Ethyl Ether	3.92	59	8331	0.09	PPB		79
31) 2,2-Dichloropropane	4.15	77	2998	0.07	PPB		82
32) cis-1,2-Dichloroethene	4.20	96	4059	0.10	PPB	#	74
33) 2-Butanone	4.28	72	3442	1.64	PPB	#	42
36) Methacrylonitrile	4.59	67	3198	0.35	PPB	#	43
37) Bromochloromethane	4.51	128	1183	0.07	PPB	#	76
38) Tetrahydrofuran	4.55	71	3138m	1.24	PPB		
39) Chloroform	4.63	83	5129	0.09	PPB		90
41) Cyclohexane	4.74	56	6002	0.11	PPB	#	65
42) 1,1,1-Trichloroethane	4.80	97	2767m	0.06	PPB		
45) 1,1-Dichloropropene	5.03	75	4396	0.09	PPB		84
48) Benzene	5.30	78	16314	0.10	PPB		76
51) Trichloroethene	6.16	95	3876	0.11	PPB	#	75
52) Methylcyclohexane	6.28	83	3523	0.09	PPB		79
53) 1,2-Dichloropropane	6.50	63	3862	0.10	PPB		81
54) Dibromomethane	6.64	93	1054	0.06	PPB		82
60) cis-1,3-Dichloropropene	7.35	75	3195	0.06	PPB		92
63) Toluene	7.66	92	9907	0.10	PPB		93
65) n-Octane	7.75	85	1383	0.10	PPB	#	63
66) trans-1,3-Dichloropropene	8.02	75	1809	0.05	PPB		61
67) Ethyl methacrylate	8.09	69	1236	0.05	PPB		73
68) 1,1,2-Trichloroethane	8.21	83	2097	0.10	PPB		90

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F011.D Vial: 4
Acq On : 11 Sep 2023 3:25 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:36 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
69)	Tetrachloroethene	8.22	164	2726	0.11	PPB		86
70)	2-Hexanone	8.48	57	2481	1.09	PPB	#	42
71)	1,3-Dichloropropane	8.39	76	4794	0.10	PPB		91
73)	1,2-Dibromoethane (EDB)	8.70	107	1938	0.08	PPB		91
74)	1-Chlorohexane	9.18	91	3669	0.12	PPB		72
75)	Chlorobenzene	9.20	112	9573	0.10	PPB		93
76)	Ethylbenzene	9.30	106	4093	0.09	PPB		97
77)	1,1,1,2-Tetrachloroethane	9.31	131	1727	0.07	PPB	#	68
78)	m,p-Xylenes	9.43	106	10466	0.18	PPB		99
79)	o-Xylene	9.84	106	4738	0.09	PPB		84
80)	Styrene	9.87	103	3002	0.07	PPB		93
82)	Isopropylbenzene	10.22	105	9322	0.08	PPB		94
88)	Bromobenzene	10.55	156	2899	0.09	PPB	#	65
89)	n-Propylbenzene	10.64	91	10768	0.08	PPB		97
90)	1,2,3-Trichloropropane	10.66	110	623	0.09	PPB	#	28
91)	2-Chlorotoluene	10.74	91	8407	0.10	PPB		96
92)	1,3,5-Trimethylbenzene	10.84	105	6869	0.08	PPB		96
93)	4-Chlorotoluene	10.87	91	8633	0.09	PPB		95
94)	tert-Butylbenzene	11.16	119	5592	0.08	PPB		97
95)	1,2,4-Trimethylbenzene	11.22	105	6824	0.07	PPB		93
96)	sec-Butylbenzene	11.38	105	6355	0.07	PPB		91
97)	p-Isopropyltoluene	11.53	119	5680	0.07	PPB		96
98)	1,3-Dichlorobenzene	11.52	146	5221	0.11	PPB		96
99)	1,4-Dichlorobenzene	11.62	146	5533	0.11	PPB		95
100)	n-Butylbenzene	11.95	91	4241	0.07	PPB		86
101)	1,2-Dichlorobenzene	11.99	146	4491	0.10	PPB		84
103)	1,3,5-Trichlorobenzene	12.76	180	2302	0.11	PPB		91
104)	1,2,4-Trichlorobenzene	13.21	180	1780	0.13	PPB		81
105)	Hexachlorobutadiene	13.29	225	820	0.10	PPB		98
107)	1,2,3-Trichlorobenzene	13.59	180	1077	0.15	PPB	#	85

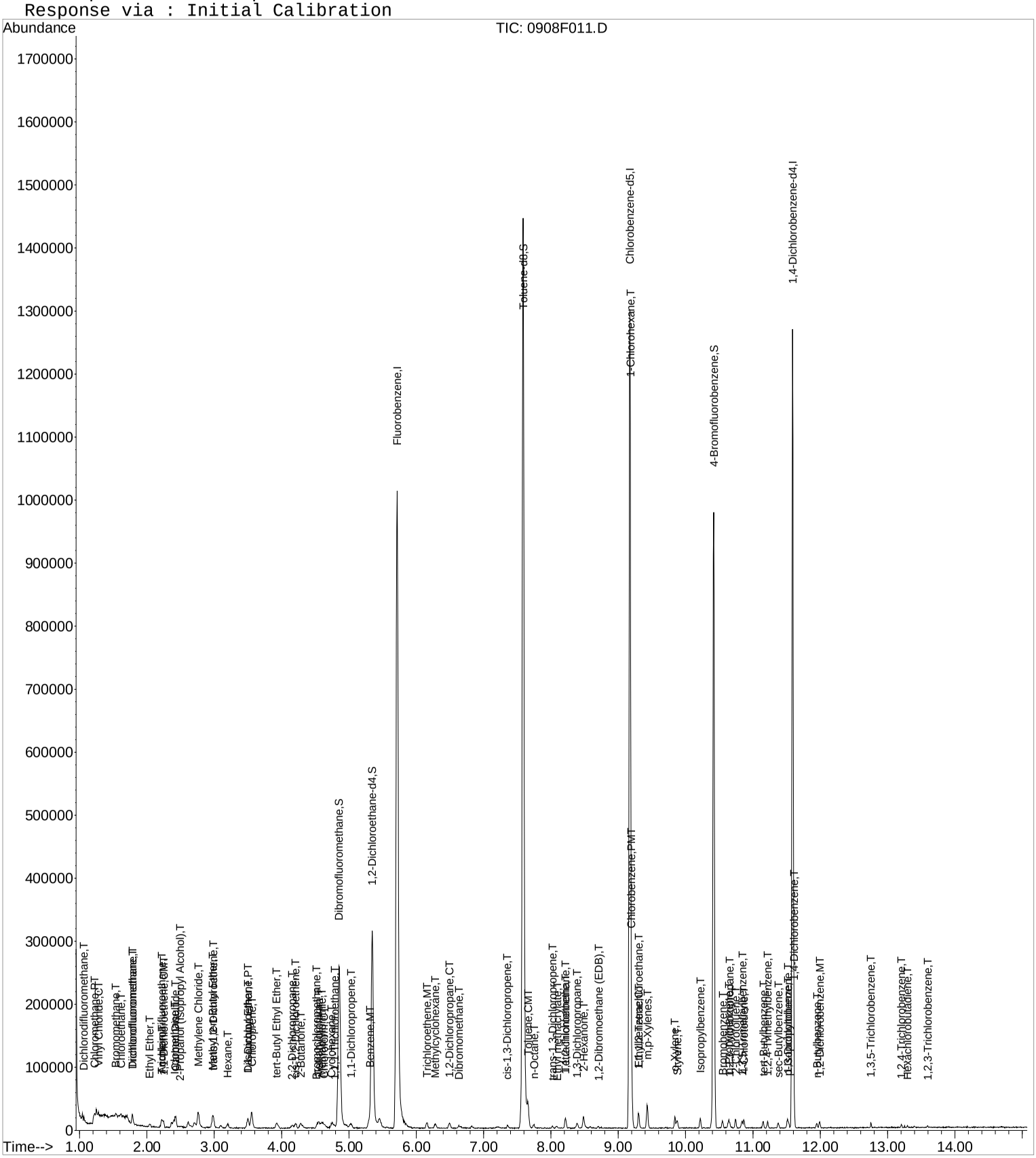
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\091123\0908F011.D Vial: 4
Acq On : 11 Sep 2023 3:25 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:27 2023 Quant Results File: 091123MS23_8260.RES

09/12/23
09/15/23
1st
2nd

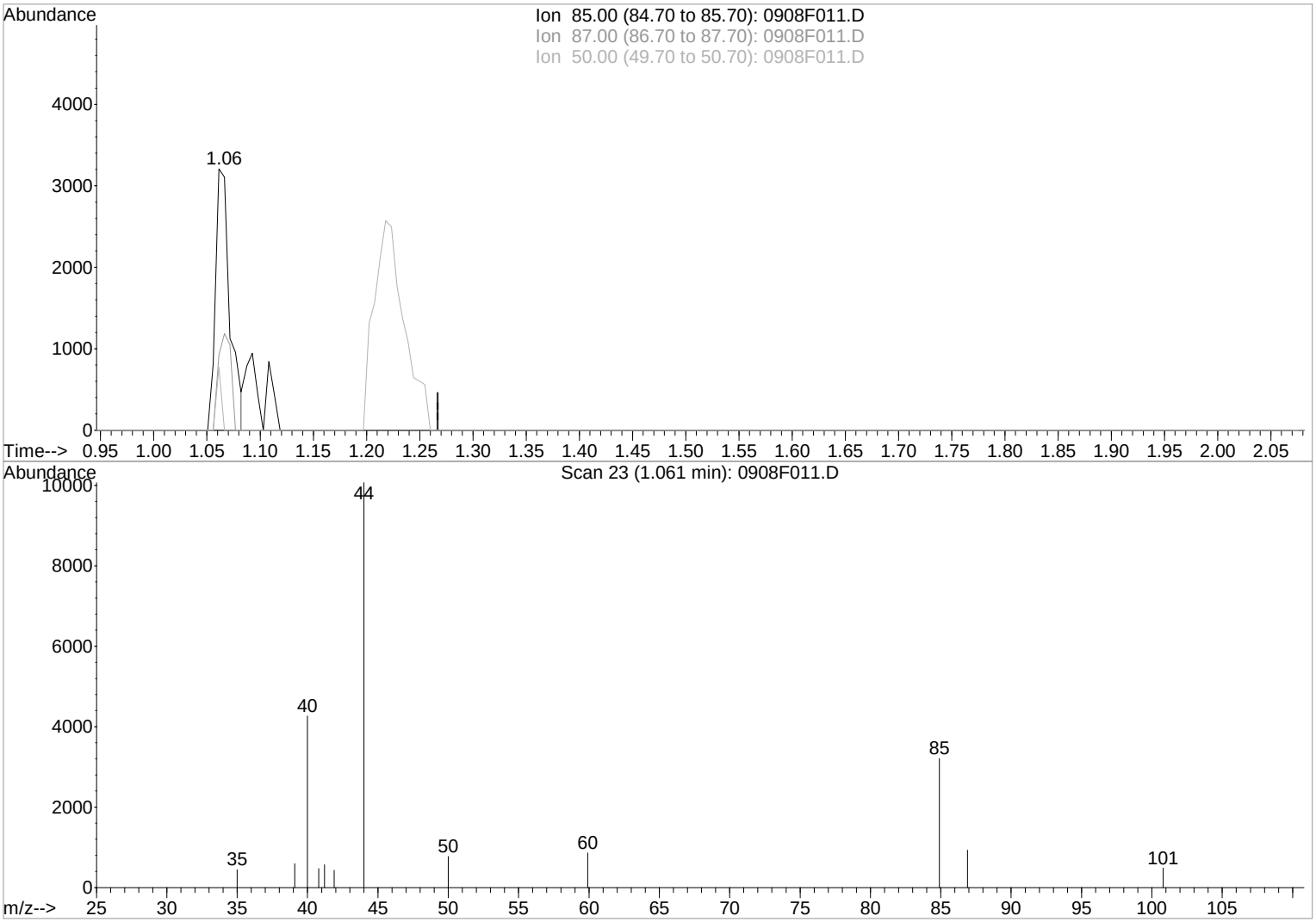
Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration



1st 09/15/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F011.D Vial: 4
Acq On : 11 Sep 2023 3:25 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:10 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 12:24:38 2023
Response via : Multiple Level Calibration



TIC: 0908F011.D

(2) Dichlorodifluoromethane (T)

1.06min 0.10PPB

response 3035

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	29.00
50.00	11.40	24.10
0.00	0.00	0.00

Manual Integration:

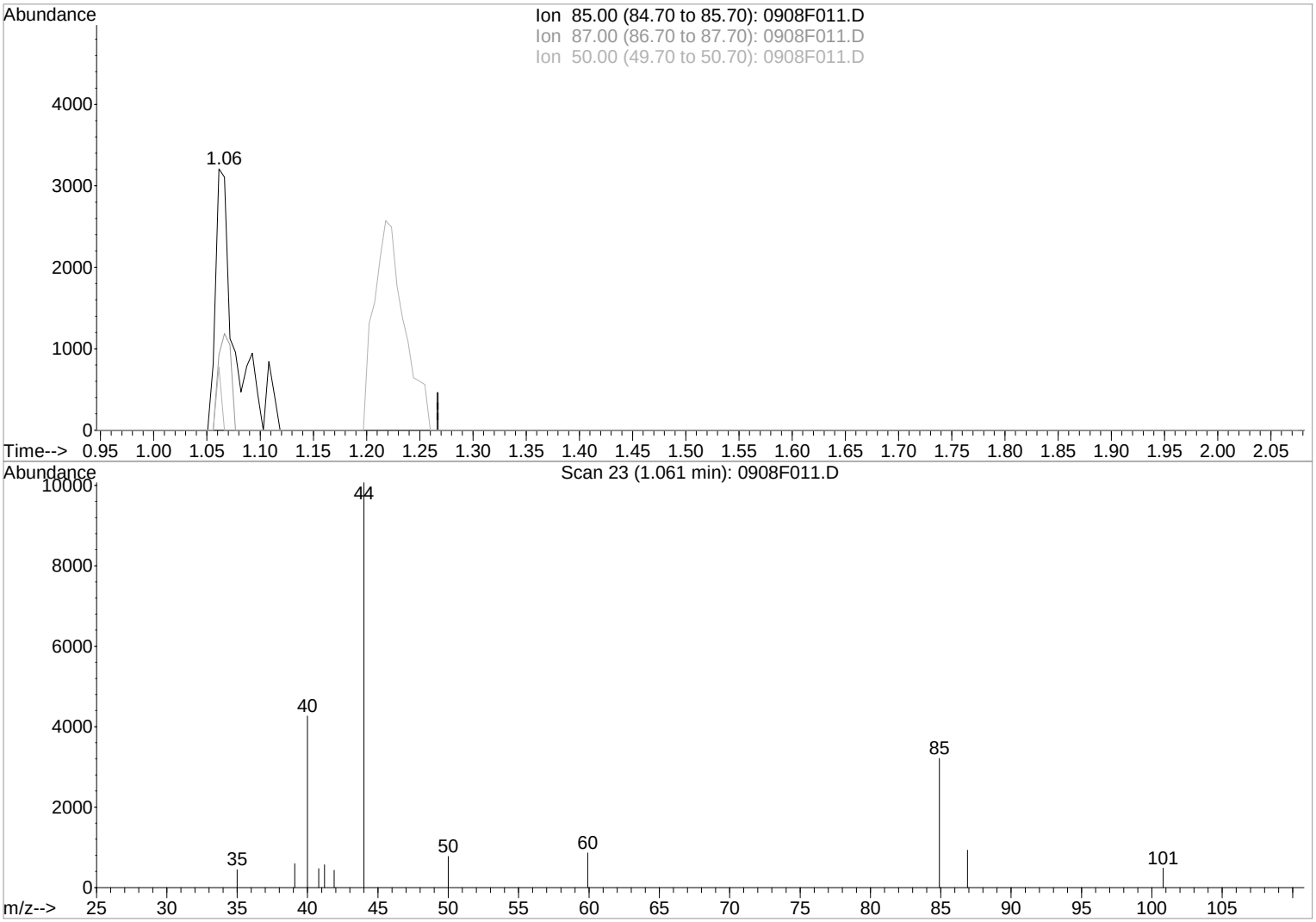
Before

09/15/23

1st 09/15/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F011.D Vial: 4
Acq On : 11 Sep 2023 3:25 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:27 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 12:24:38 2023
Response via : Multiple Level Calibration



TIC: 0908F011.D

(2) Dichlorodifluoromethane (T)

1.06min 0.14PPB m

response 4118

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	29.00
50.00	11.40	24.10
0.00	0.00	0.00

Manual Integration:

After

Split peak

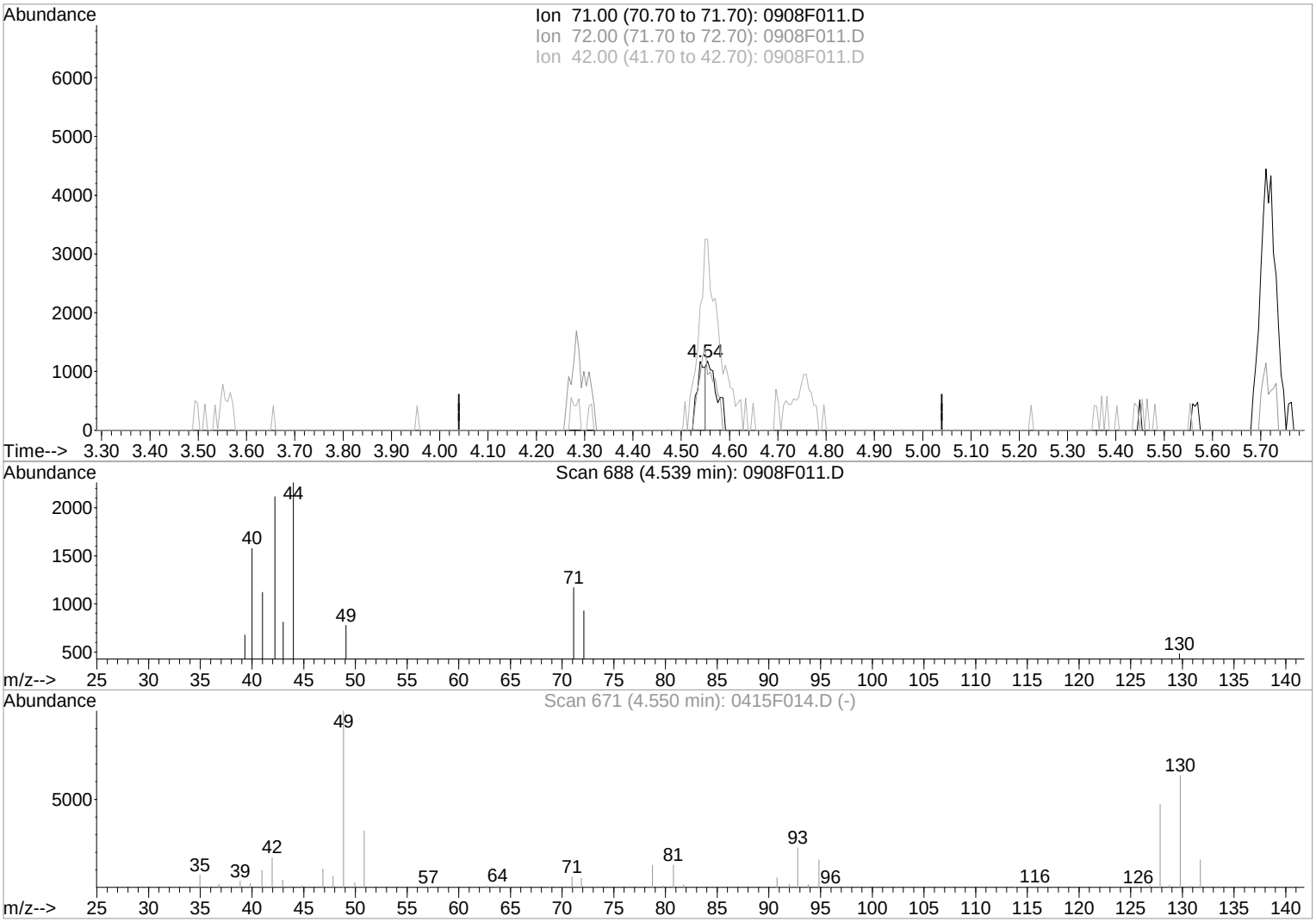
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F011.D Vial: 4
Acq On : 11 Sep 2023 3:25 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:02 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Single Level Calibration



TIC: 0908F011.D

(38) Tetrahydrofuran (T)

4.54min 0.57PPB

response 1435

Ion	Exp%	Act%
71.00	100	100
72.00	91.50	79.38
42.00	234.50	132.93#
0.00	0.00	0.00

Manual Integration:

Before

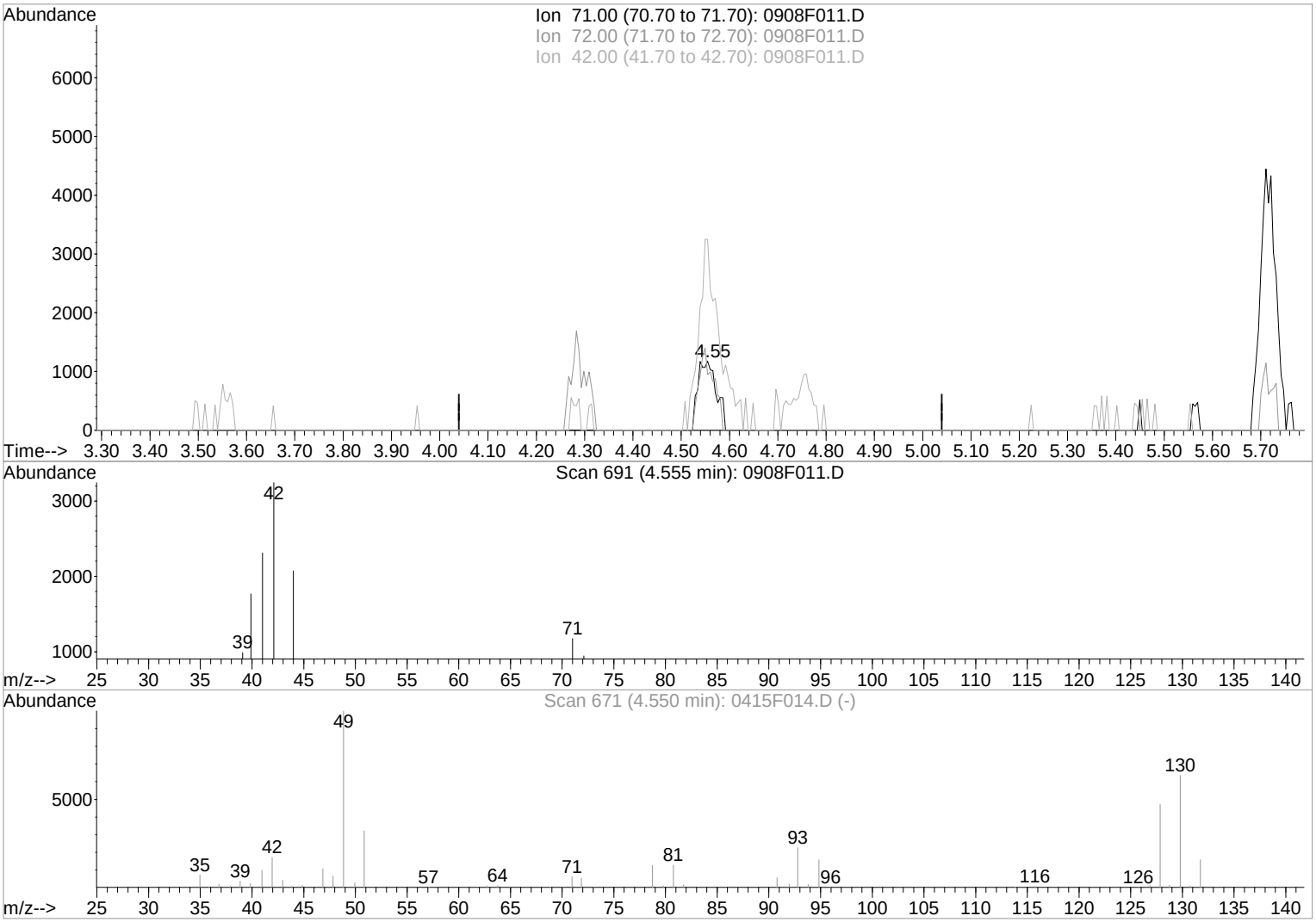
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F011.D Vial: 4
Acq On : 11 Sep 2023 3:25 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:02 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Single Level Calibration



TIC: 0908F011.D

(38) Tetrahydrofuran (T)

4.55min 1.24PPB m

response 3138

Ion	Exp%	Act%
71.00	100	100
72.00	91.50	80.41
42.00	234.50	276.49#
0.00	0.00	0.00

Manual Integration:

After

Split peak

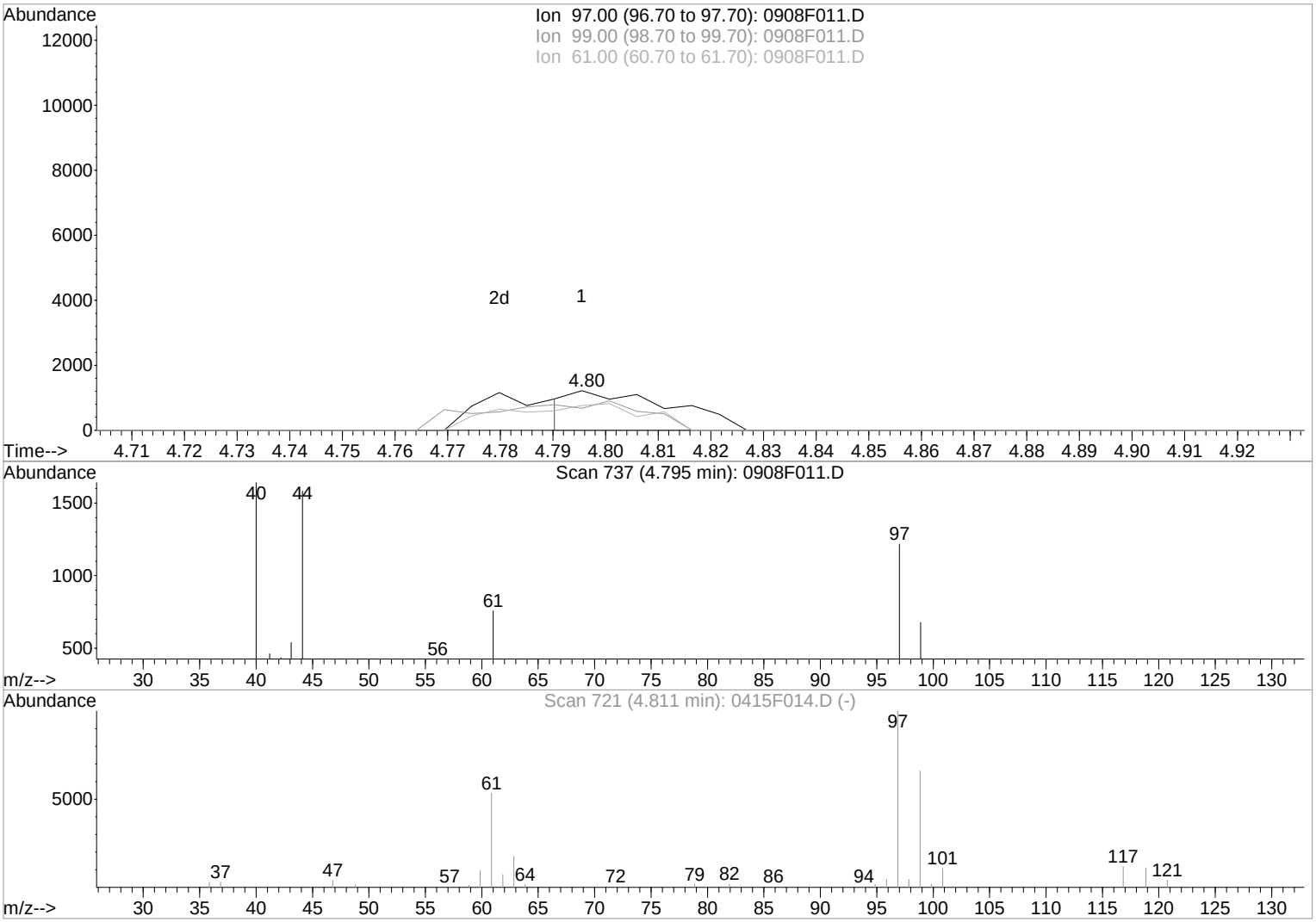
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F011.D Vial: 4
Acq On : 11 Sep 2023 3:25 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:02 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Multiple Level Calibration



TIC: 0908F011.D

(42) 1,1,1-Trichloroethane (T)

4.80min 0.03PPB

response 1628

Ion	Exp%	Act%
97.00	100	100
99.00	62.30	55.58
61.00	46.70	62.23
0.00	0.00	0.00

Manual Integration:

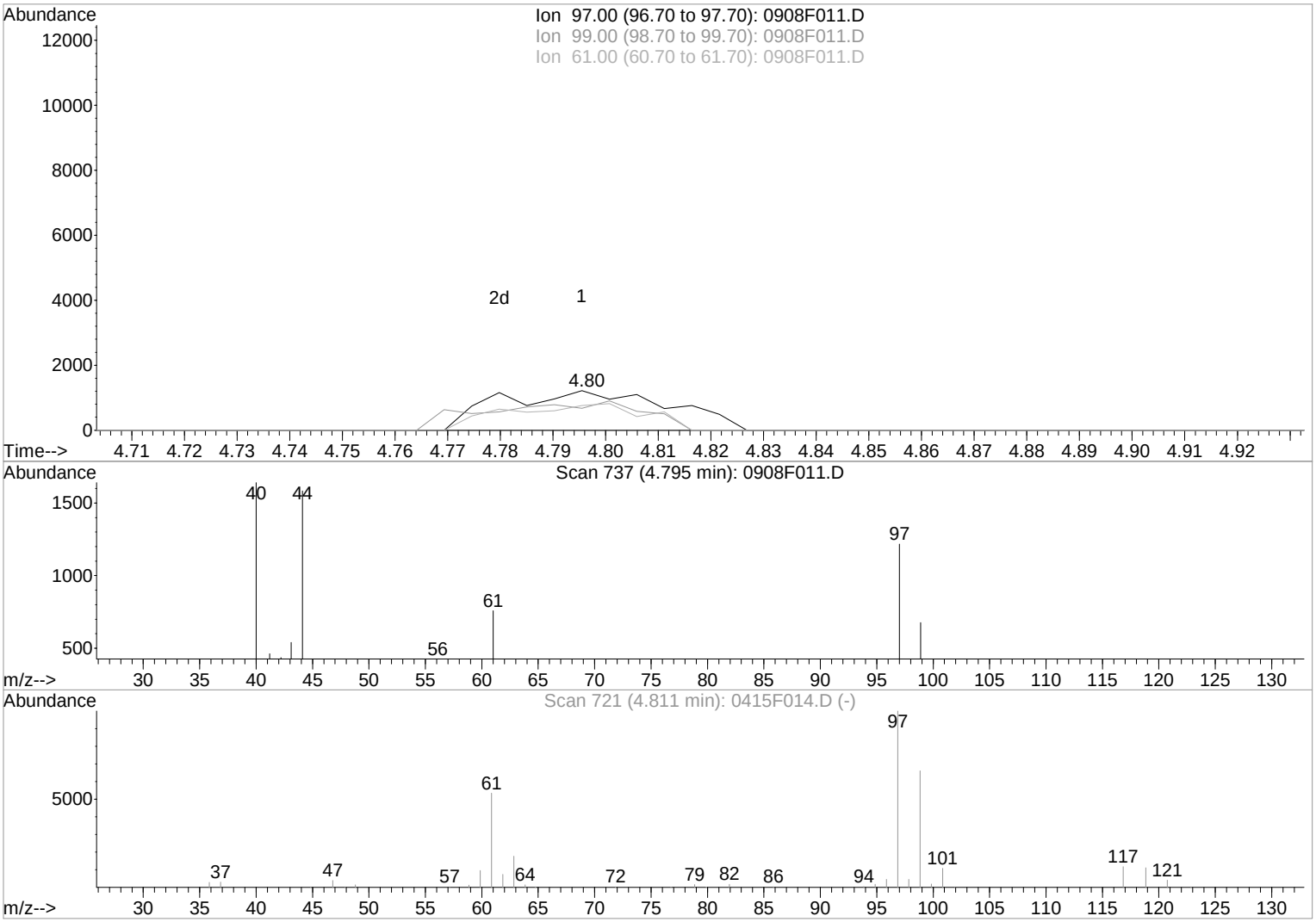
Before

09/12/23

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F011.D Vial: 4
Acq On : 11 Sep 2023 3:25 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:03 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Multiple Level Calibration



TIC: 0908F011.D

(42) 1,1,1-Trichloroethane (T)

4.80min 0.06PPB m

response 2767

Ion	Exp%	Act%
97.00	100	100
99.00	62.30	55.58
61.00	46.70	62.23
0.00	0.00	0.00

Manual Integration:

After

Split peak

09/12/23

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F012.D Vial: 5
Acq On : 11 Sep 2023 3:49 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:38 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1161489	10.00	PPB		0.00
64) Chlorobenzene-d5	9.17	82	426043	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	323303	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	219230	9.26	PPB		0.00
Spiked Amount 10.000			Recovery =	92.60%			
47) 1,2-Dichloroethane-d4	5.34	65	276777	10.48	PPB		0.00
Spiked Amount 10.000			Recovery =	104.80%			
62) Toluene-d8	7.59	98	1072989	9.71	PPB		0.00
Spiked Amount 10.000			Recovery =	97.10%			
84) 4-Bromofluorobenzene	10.42	95	336250	9.73	PPB		0.00
Spiked Amount 10.000			Recovery =	97.30%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.07	85	8016m	0.27	PPB		
3) Chloromethane	1.23	50	8494	0.21	PPB		90
4) Vinyl Chloride	1.28	62	8556	0.21	PPB		97
5) Bromomethane	1.54	96	3399	0.20	PPB		77
6) Chloroethane	1.61	64	6681m	0.26	PPB		
7) Dichlorofluoromethane	1.78	67	12486	0.22	PPB		95
8) Trichlorofluoromethane	1.79	101	10313	0.19	PPB		92
9) Ethyl Ether	2.04	59	4369	0.17	PPB		96
10) Acrolein	2.22	56	11416	3.32	PPB		93
11) Trichlorotrifluoroethane	2.22	151	3706	0.19	PPB		92
12) 1,1-Dichloroethene	2.24	96	6526	0.18	PPB		96
14) Iodomethane	2.40	142	23116	0.58	PPB		91
15) Carbon Disulfide	2.43	76	27684	0.32	PPB		96
16) 2-Propanol (Isopropyl Alco	2.50	45	4894	7.06	PPB		86
17) 3-Chloro-1-propene	2.61	76	2670	0.15	PPB	#	79
19) Acetonitrile	2.70	40	10038	7.98	PPB		90
20) Methylene Chloride	2.76	84	15644	0.38	PPB		93
21) tert-Butyl Alcohol	2.90	59	889	0.88	PPB		72
22) Acrylonitrile	3.10	53	5276	0.70	PPB		93
23) Methyl tert-Butyl Ether	2.98	73	25961	0.34	PPB		93
24) trans-1,2-Dichloroethene	2.99	96	7100	0.18	PPB		82
25) Hexane	3.19	57	6584	0.19	PPB		86
26) Diisopropyl Ether	3.50	45	19068	0.17	PPB		93
27) 1,1-Dichloroethane	3.50	63	12673	0.17	PPB		85
28) Vinyl Acetate	3.57	86	1163	0.20	PPB	#	1
29) Chloroprene	3.56	53	32456	0.62	PPB		94
30) tert-Butyl Ethyl Ether	3.93	59	14987	0.16	PPB		92
31) 2,2-Dichloropropane	4.16	77	6355	0.15	PPB		95
32) cis-1,2-Dichloroethene	4.20	96	8076	0.19	PPB		96
33) 2-Butanone	4.28	72	7036	3.27	PPB		92
36) Methacrylonitrile	4.60	67	5410	0.58	PPB	#	69
37) Bromochloromethane	4.52	128	3011	0.17	PPB		92
38) Tetrahydrofuran	4.55	71	3152	1.21	PPB	#	75
39) Chloroform	4.62	83	10259	0.17	PPB		89
40) tert-Butyl Formate	4.66	59	680	0.08	PPB		80
41) Cyclohexane	4.76	56	10728	0.19	PPB		89
42) 1,1,1-Trichloroethane	4.79	97	6860	0.14	PPB		85
44) Carbon Tetrachloride	4.96	117	4343	0.12	PPB		84
45) 1,1-Dichloropropene	5.03	75	9100	0.18	PPB		94
46) Isobutyl Alcohol	5.35	43	4268	8.22	PPB		92
48) Benzene	5.30	78	32238	0.19	PPB		94
49) 1,2-Dichloroethane	5.45	62	9476	0.21	PPB		93
50) tert-Amyl Methyl Ether	5.45	55	5134	0.21	PPB	#	54

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F012.D Vial: 5
Acq On : 11 Sep 2023 3:49 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:38 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	Trichloroethene	6.16	95	7432	0.20	PPB		95
52)	Methylcyclohexane	6.29	83	6624	0.16	PPB		93
53)	1,2-Dichloropropane	6.50	63	7880	0.20	PPB		94
54)	Dibromomethane	6.63	93	2956	0.17	PPB		96
55)	Methyl methacrylate	6.67	69	1933	0.12	PPB		89
60)	cis-1,3-Dichloropropene	7.36	75	6150	0.12	PPB		99
61)	4-Methyl-2-pentanone (MIBK	7.56	58	31598	4.27	PPB	#	38
63)	Toluene	7.66	92	19880	0.20	PPB		93
65)	n-Octane	7.75	85	2262	0.16	PPB		97
66)	trans-1,3-Dichloropropene	8.02	75	3922	0.11	PPB		93
67)	Ethyl methacrylate	8.09	69	3396	0.12	PPB		74
68)	1,1,2-Trichloroethane	8.21	83	4495	0.20	PPB	#	82
69)	Tetrachloroethene	8.22	164	4475	0.18	PPB	#	81
70)	2-Hexanone	8.48	57	7411	3.22	PPB	#	83
71)	1,3-Dichloropropane	8.39	76	9361	0.19	PPB		95
72)	Dibromochloromethane	8.59	129	2417	0.11	PPB		85
73)	1,2-Dibromoethane (EDB)	8.70	107	3820	0.16	PPB		86
74)	1-Chlorohexane	9.19	91	6797	0.21	PPB		87
75)	Chlorobenzene	9.20	112	18835	0.20	PPB		94
76)	Ethylbenzene	9.30	106	8362	0.17	PPB		96
77)	1,1,1,2-Tetrachloroethane	9.31	131	3532	0.14	PPB		76
78)	m,p-Xylenes	9.43	106	20555	0.35	PPB		98
79)	o-Xylene	9.85	106	9728	0.17	PPB	#	81
80)	Styrene	9.87	103	6278	0.14	PPB		96
82)	Isopropylbenzene	10.21	105	18291	0.15	PPB		98
86)	1,1,2,2-Tetrachloroethane	10.62	83	3827	0.17	PPB		90
88)	Bromobenzene	10.55	156	5896	0.19	PPB		95
89)	n-Propylbenzene	10.64	91	21770	0.17	PPB		99
90)	1,2,3-Trichloropropane	10.66	110	992	0.14	PPB	#	47
91)	2-Chlorotoluene	10.74	91	15816	0.19	PPB		97
92)	1,3,5-Trimethylbenzene	10.84	105	13362	0.15	PPB		89
93)	4-Chlorotoluene	10.87	91	17903	0.18	PPB		97
94)	tert-Butylbenzene	11.16	119	11449	0.16	PPB		99
95)	1,2,4-Trimethylbenzene	11.22	105	13373	0.14	PPB		94
96)	sec-Butylbenzene	11.38	105	13778	0.15	PPB		97
97)	p-Isopropyltoluene	11.53	119	10868	0.13	PPB		93
98)	1,3-Dichlorobenzene	11.51	146	9229	0.18	PPB		84
99)	1,4-Dichlorobenzene	11.62	146	11174	0.22	PPB		95
100)	n-Butylbenzene	11.94	91	9052	0.14	PPB		98
101)	1,2-Dichlorobenzene	11.99	146	8787	0.20	PPB		80
103)	1,3,5-Trichlorobenzene	12.76	180	4326	0.21	PPB		90
104)	1,2,4-Trichlorobenzene	13.21	180	2404	0.17	PPB		82
105)	Hexachlorobutadiene	13.29	225	1341	0.16	PPB		88
107)	1,2,3-Trichlorobenzene	13.59	180	1484	0.21	PPB		74

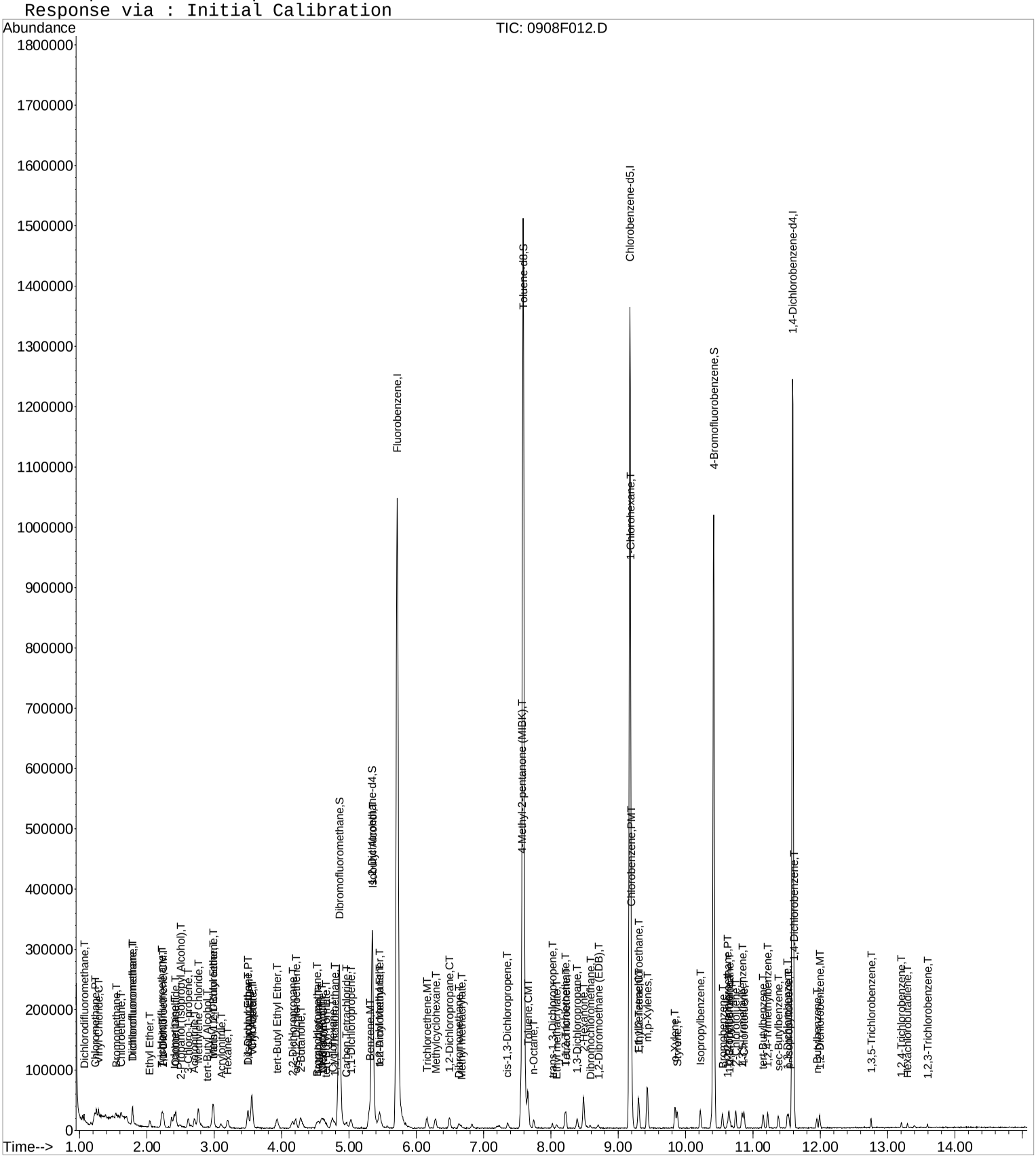
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\091123\0908F012.D Vial: 5
Acq On : 11 Sep 2023 3:49 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:28 2023 Quant Results File: 091123MS23_8260.RES

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration

09/12/23
09/15/23
1st
2nd



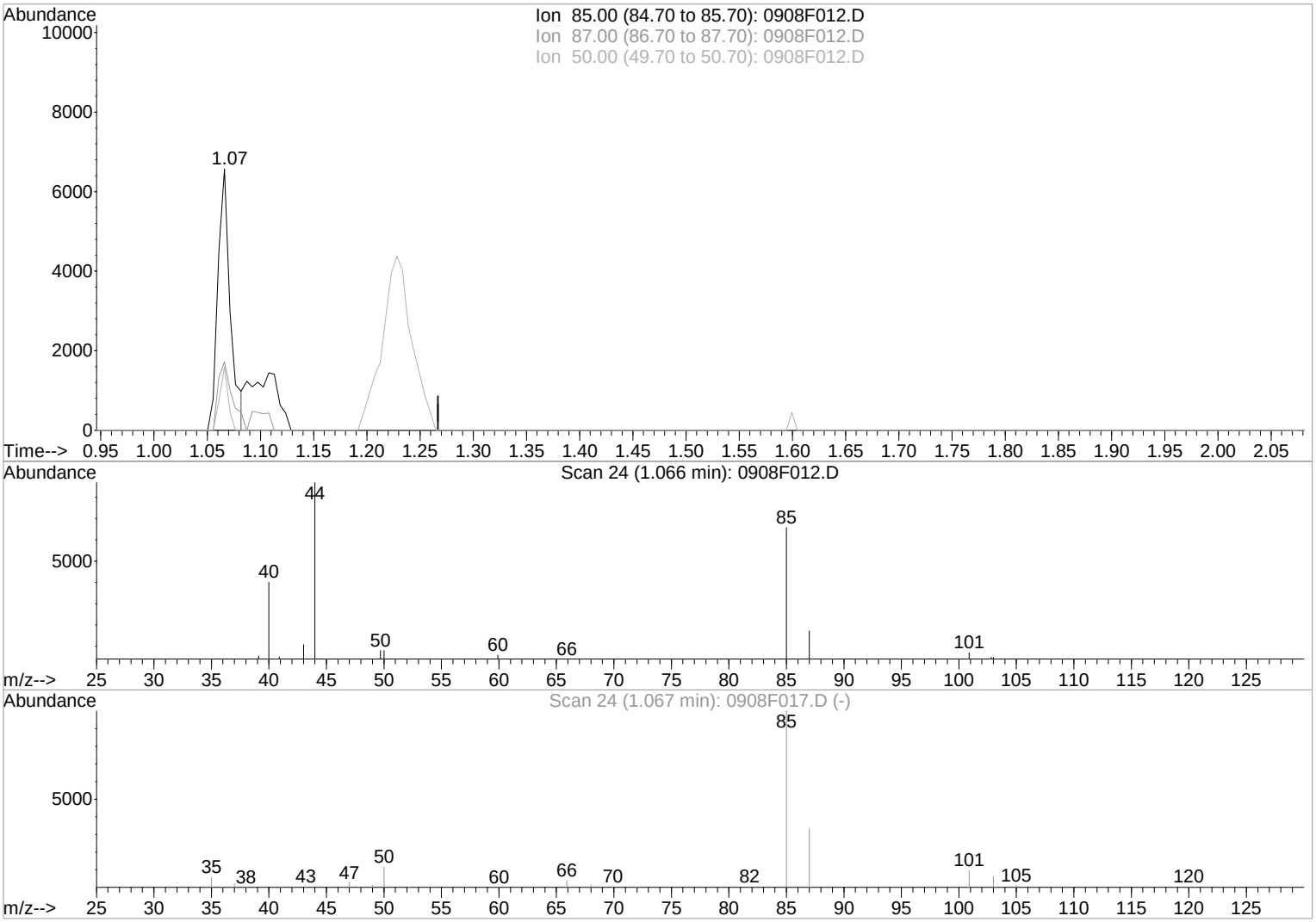
Page 1034 of 1452

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F012.D Vial: 5
Acq On : 11 Sep 2023 3:49 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:33 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:27:43 2023
Response via : Multiple Level Calibration



TIC: 0908F012.D

(2) Dichlorodifluoromethane (T)

1.07min 0.18PPB

response 5341

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	26.24
50.00	11.40	24.27
0.00	0.00	0.00

Manual Integration:

Before

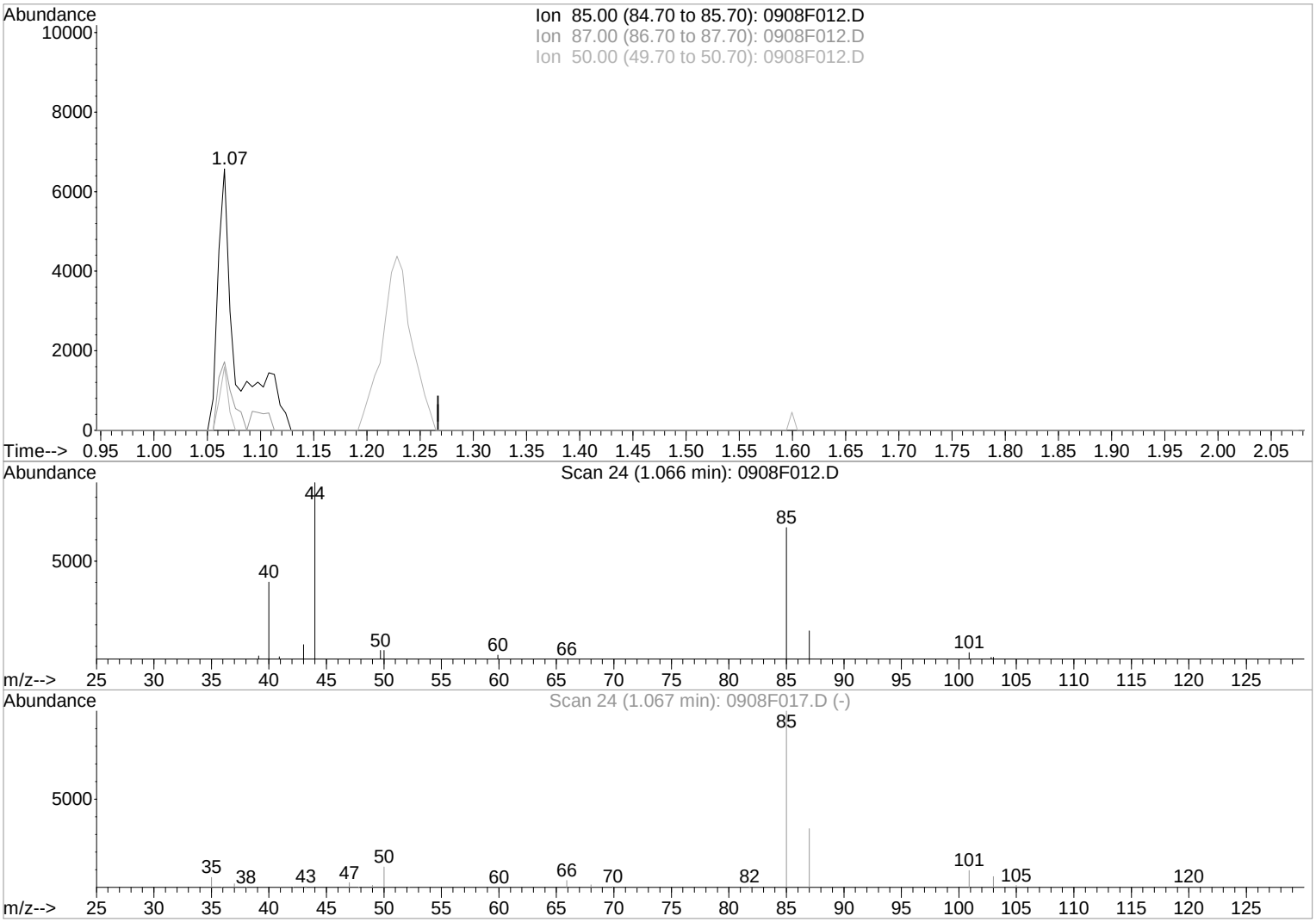
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F012.D Vial: 5
Acq On : 11 Sep 2023 3:49 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:28 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:27:43 2023
Response via : Multiple Level Calibration



TIC: 0908F012.D

(2) Dichlorodifluoromethane (T)

1.07min 0.27PPB m

response 8016

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	26.24
50.00	11.40	12.16
0.00	0.00	0.00

Manual Integration:

After

Split peak

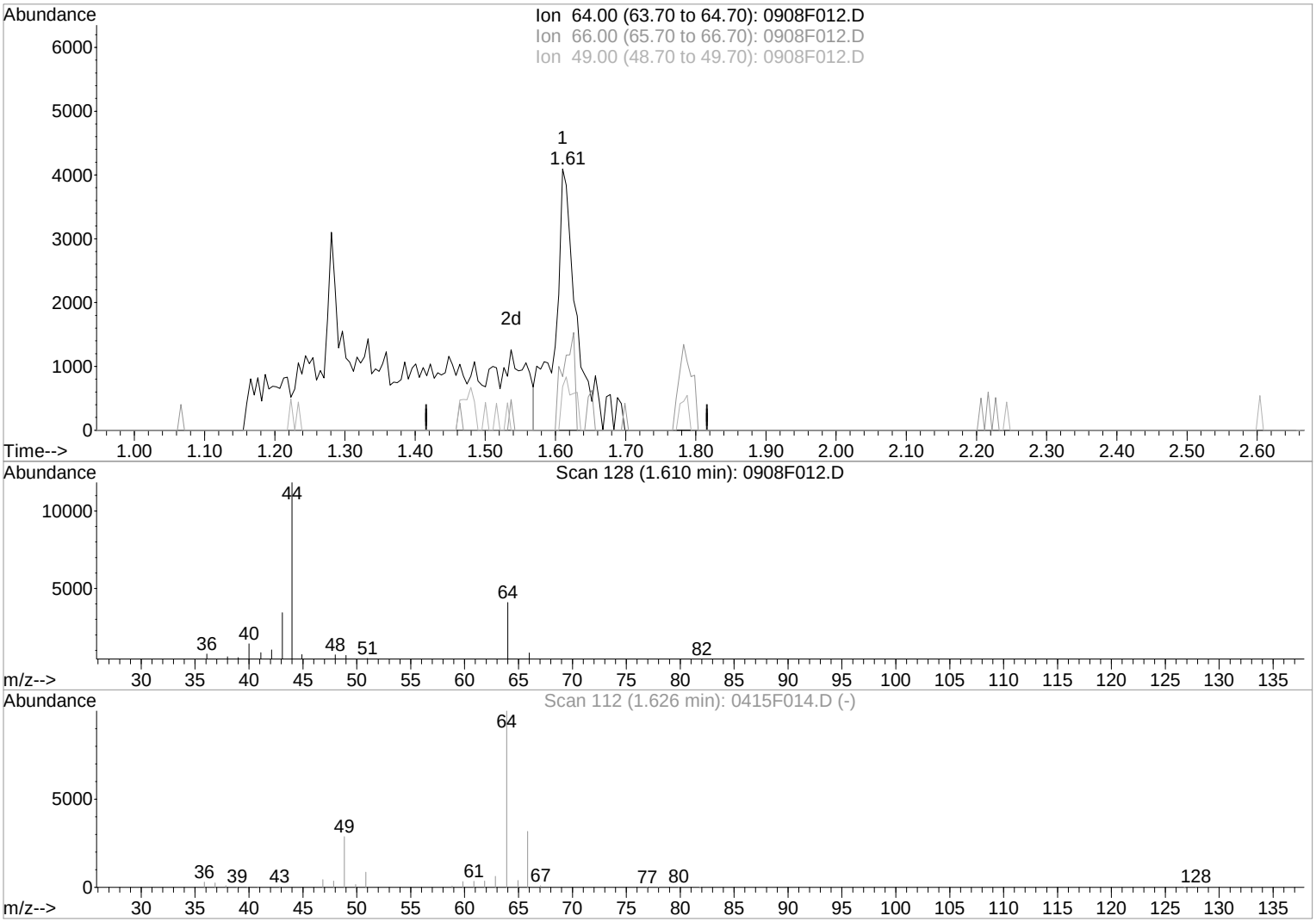
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F012.D Vial: 5
Acq On : 11 Sep 2023 3:49 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 8:59 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:12:50 2023
Response via : Multiple Level Calibration



TIC: 0908F012.D

(6) Chloroethane (T)

1.61min 0.33PPB

response 8654

Ion	Exp%	Act%
64.00	100	100
66.00	31.10	20.46
49.00	23.20	16.75
0.00	0.00	0.00

Manual Integration:

Before

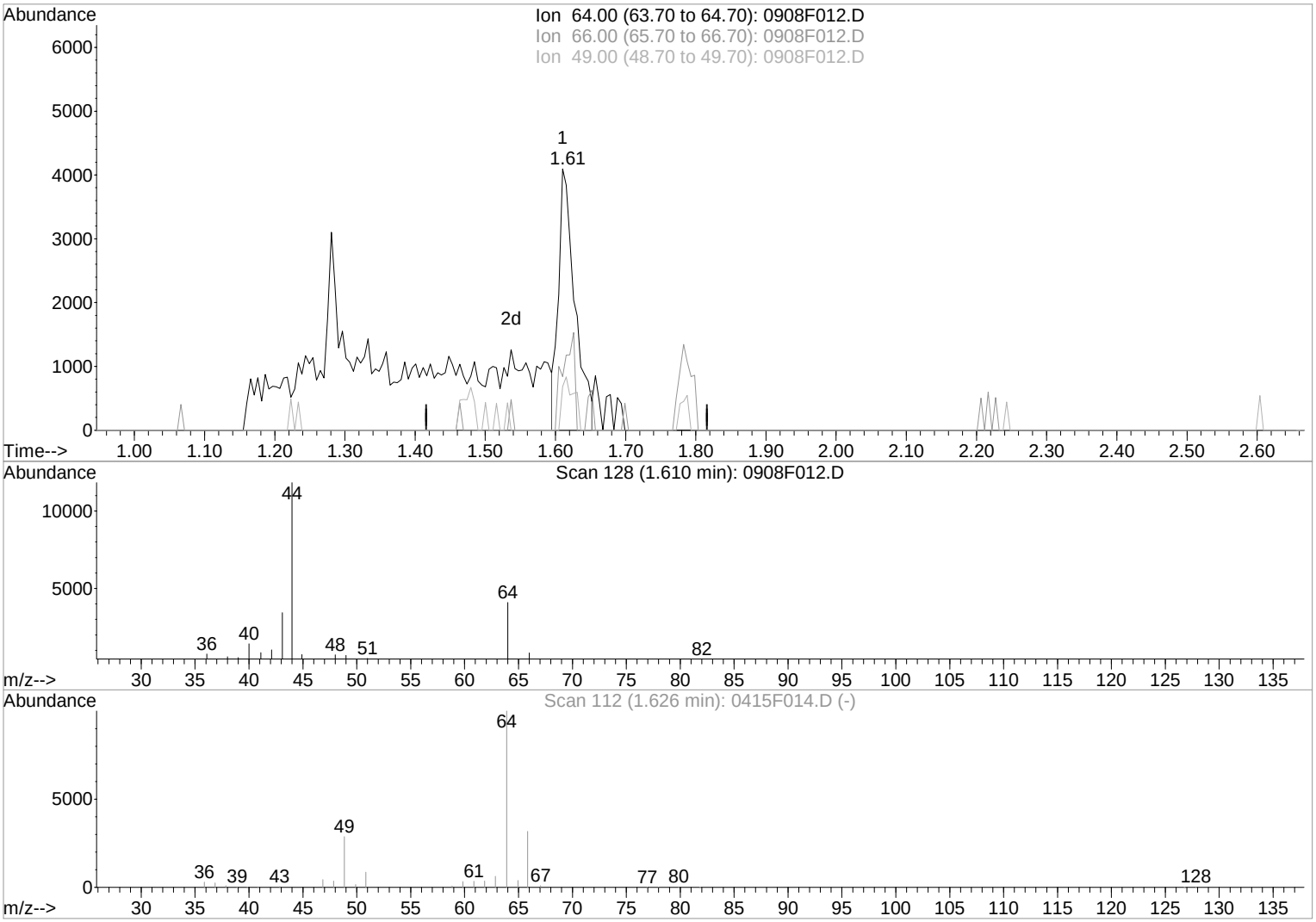
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F012.D Vial: 5
Acq On : 11 Sep 2023 3:49 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:13 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:12:50 2023
Response via : Multiple Level Calibration



TIC: 0908F012.D

(6) Chloroethane (T)

1.61min 0.26PPB m

response 6681

Ion	Exp%	Act%
64.00	100	100
66.00	31.10	20.46
49.00	23.20	16.75
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

09/12/23

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:40 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1132357	10.00	PPB		0.00
64) Chlorobenzene-d5	9.18	82	421213	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	321430	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	217494	9.42	PPB		0.00
Spiked Amount 10.000			Recovery = 94.20%				
47) 1,2-Dichloroethane-d4	5.35	65	270934	10.52	PPB		0.00
Spiked Amount 10.000			Recovery = 105.20%				
62) Toluene-d8	7.59	98	1050826	9.76	PPB		0.00
Spiked Amount 10.000			Recovery = 97.60%				
84) 4-Bromofluorobenzene	10.42	95	330575	9.68	PPB		0.00
Spiked Amount 10.000			Recovery = 96.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.06	85	20878m	0.71	PPB		
3) Chloromethane	1.23	50	20104	0.51	PPB		87
4) Vinyl Chloride	1.28	62	20849	0.52	PPB		95
5) Bromomethane	1.54	96	8238	0.51	PPB		98
6) Chloroethane	1.61	64	13493	0.53	PPB		99
7) Dichlorofluoromethane	1.79	67	28301	0.50	PPB		90
8) Trichlorofluoromethane	1.79	101	25909	0.50	PPB		98
9) Ethyl Ether	2.05	59	12021	0.48	PPB		91
10) Acrolein	2.22	56	30137	8.98	PPB		97
11) Trichlorotrifluoroethane	2.21	151	9935	0.51	PPB		93
12) 1,1-Dichloroethene	2.25	96	16158	0.46	PPB		96
14) Iodomethane	2.40	142	62316	1.60	PPB		98
15) Carbon Disulfide	2.43	76	51061	0.60	PPB		98
16) 2-Propanol (Isopropyl Alco	2.50	45	10697	15.82	PPB		81
17) 3-Chloro-1-propene	2.61	76	6581	0.38	PPB		91
18) Methyl Acetate	2.65	43	9208	0.60	PPB		93
19) Acetonitrile	2.70	40	24407	19.89	PPB		96
20) Methylene Chloride	2.76	84	28409	0.71	PPB		96
21) tert-Butyl Alcohol	2.89	59	2014	2.06	PPB		72
22) Acrylonitrile	3.10	53	14390	1.95	PPB		92
23) Methyl tert-Butyl Ether	2.98	73	66167	0.89	PPB		97
24) trans-1,2-Dichloroethene	2.99	96	17829	0.47	PPB		94
25) Hexane	3.20	57	16543	0.48	PPB		98
26) Diisopropyl Ether	3.50	45	48557	0.44	PPB		96
27) 1,1-Dichloroethane	3.50	63	31348	0.44	PPB		96
28) Vinyl Acetate	3.56	86	3469	0.63	PPB	#	79
29) Chloroprene	3.55	53	84451	1.67	PPB		97
30) tert-Butyl Ethyl Ether	3.94	59	38363	0.43	PPB		90
31) 2,2-Dichloropropane	4.16	77	16760	0.41	PPB		96
32) cis-1,2-Dichloroethene	4.21	96	19731	0.47	PPB		92
33) 2-Butanone	4.29	72	19476	9.28	PPB		91
34) Ethyl Acetate	4.32	61	2944	0.92	PPB		84
35) Propionitrile	4.45	54	5213	1.96	PPB		67
36) Methacrylonitrile	4.60	67	15934	1.75	PPB		86
37) Bromochloromethane	4.53	128	7346	0.43	PPB		98
38) Tetrahydrofuran	4.55	71	4377	1.73	PPB	#	75
39) Chloroform	4.63	83	27585	0.46	PPB		96
40) tert-Butyl Formate	4.67	59	2284	0.29	PPB		86
41) Cyclohexane	4.76	56	26750	0.48	PPB		91
42) 1,1,1-Trichloroethane	4.79	97	18886	0.40	PPB		92
44) Carbon Tetrachloride	4.97	117	13194	0.38	PPB		82
45) 1,1-Dichloropropene	5.02	75	22998	0.46	PPB		96
46) Isobutyl Alcohol	5.36	43	8588	16.98	PPB		82

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:40 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Benzene	5.30	78	78958	0.49	PPB		99
49)	1,2-Dichloroethane	5.45	62	23143	0.53	PPB		94
50)	tert-Amyl Methyl Ether	5.46	55	12880	0.54	PPB	#	60
51)	Trichloroethene	6.16	95	17200	0.47	PPB		93
52)	Methylcyclohexane	6.28	83	17857	0.44	PPB		94
53)	1,2-Dichloropropane	6.50	63	17078	0.43	PPB		88
54)	Dibromomethane	6.63	93	7669	0.44	PPB		92
55)	Methyl methacrylate	6.66	69	5600	0.37	PPB		95
56)	1,4-Dioxane	6.67	88	2760	18.12	PPB		84
60)	cis-1,3-Dichloropropene	7.36	75	15646	0.30	PPB		95
61)	4-Methyl-2-pentanone (MIBK	7.56	58	62031	8.60	PPB	#	81
63)	Toluene	7.66	92	47373	0.49	PPB		97
65)	n-Octane	7.74	85	6220	0.45	PPB		97
66)	trans-1,3-Dichloropropene	8.02	75	10739	0.30	PPB		92
67)	Ethyl methacrylate	8.08	69	9191	0.34	PPB		95
68)	1,1,2-Trichloroethane	8.21	83	10375	0.47	PPB		93
69)	Tetrachloroethene	8.22	164	13106	0.52	PPB		98
70)	2-Hexanone	8.49	57	16461	7.23	PPB	#	83
71)	1,3-Dichloropropane	8.39	76	22896	0.47	PPB		93
72)	Dibromochloromethane	8.59	129	6717m	0.32	PPB		
73)	1,2-Dibromoethane (EDB)	8.70	107	9893	0.42	PPB		93
74)	1-Chlorohexane	9.19	91	14632	0.47	PPB		78
75)	Chlorobenzene	9.20	112	45603	0.50	PPB		93
76)	Ethylbenzene	9.30	106	22139	0.47	PPB		86
77)	1,1,1,2-Tetrachloroethane	9.31	131	8679	0.35	PPB		94
78)	m,p-Xylenes	9.43	106	53567	0.93	PPB		95
79)	o-Xylene	9.85	106	25862	0.47	PPB		87
80)	Styrene	9.88	103	15731m	0.36	PPB		
82)	Isopropylbenzene	10.22	105	50544	0.42	PPB		95
86)	1,1,2,2-Tetrachloroethane	10.62	83	9864	0.44	PPB		93
87)	trans-1,4-Dichloro-2-buten	10.69	53	2442m	0.42	PPB		
88)	Bromobenzene	10.55	156	15271	0.48	PPB		96
89)	n-Propylbenzene	10.65	91	55428	0.43	PPB		97
90)	1,2,3-Trichloropropane	10.66	110	3207	0.44	PPB	#	82
91)	2-Chlorotoluene	10.75	91	40953	0.49	PPB		96
92)	1,3,5-Trimethylbenzene	10.84	105	37731	0.42	PPB		94
93)	4-Chlorotoluene	10.87	91	46553	0.47	PPB		98
94)	tert-Butylbenzene	11.15	119	30475	0.42	PPB		95
95)	1,2,4-Trimethylbenzene	11.22	105	37721	0.41	PPB		97
96)	sec-Butylbenzene	11.38	105	36404	0.40	PPB		95
97)	p-Isopropyltoluene	11.53	119	30108	0.37	PPB		96
98)	1,3-Dichlorobenzene	11.51	146	24724	0.50	PPB		98
99)	1,4-Dichlorobenzene	11.61	146	26882	0.53	PPB		96
100)	n-Butylbenzene	11.95	91	23412	0.37	PPB		97
101)	1,2-Dichlorobenzene	11.99	146	21730	0.49	PPB		94
103)	1,3,5-Trichlorobenzene	12.75	180	9733	0.47	PPB		89
104)	1,2,4-Trichlorobenzene	13.20	180	6920	0.50	PPB		97
105)	Hexachlorobutadiene	13.30	225	4111	0.49	PPB		90
106)	Naphthalene	13.40	128	7453	0.38	PPB		95
107)	1,2,3-Trichlorobenzene	13.59	180	3368	0.47	PPB		76

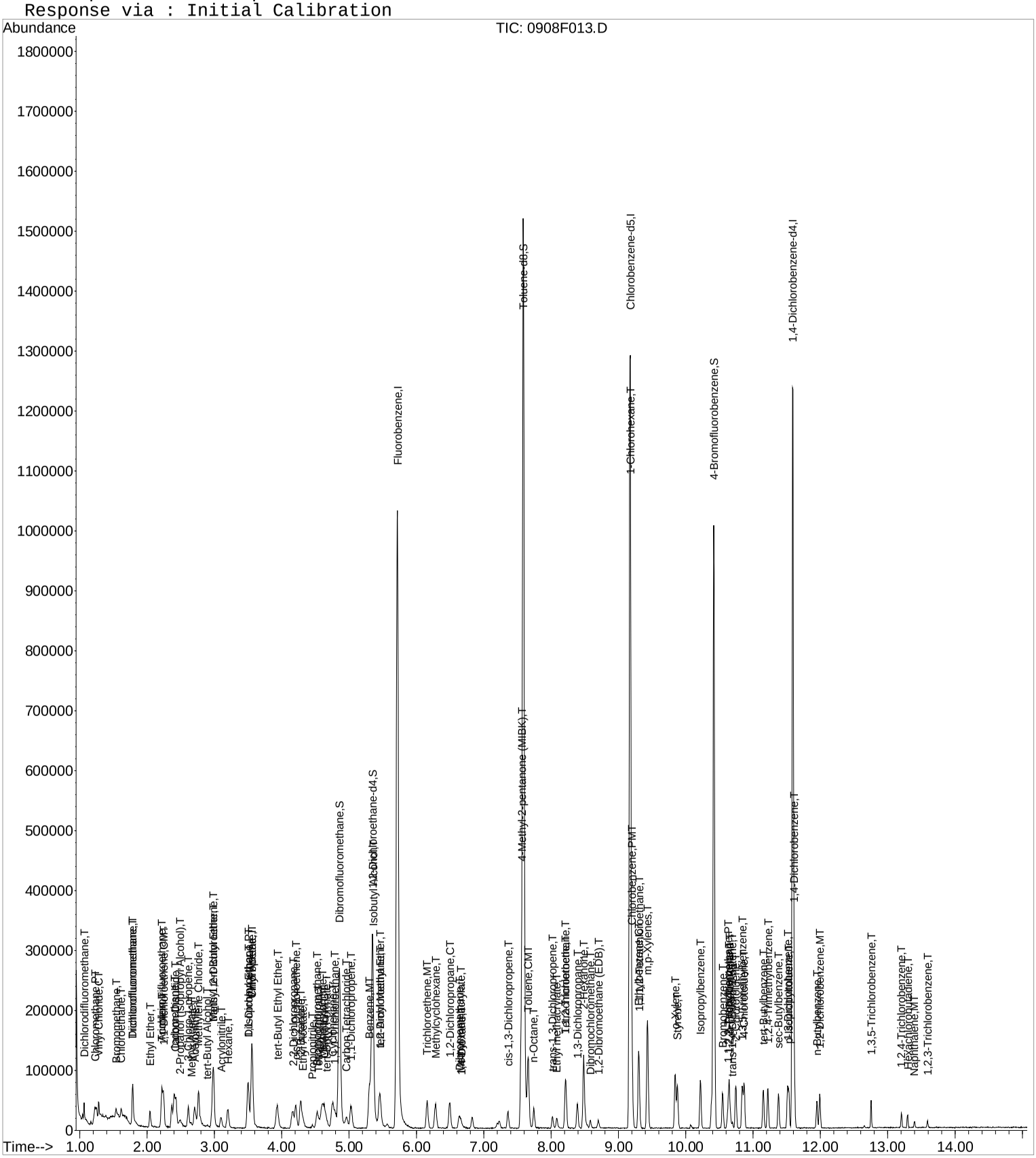
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:29 2023 Quant Results File: 091123MS23_8260.RES

09/12/23
09/15/23
1st
2nd

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration



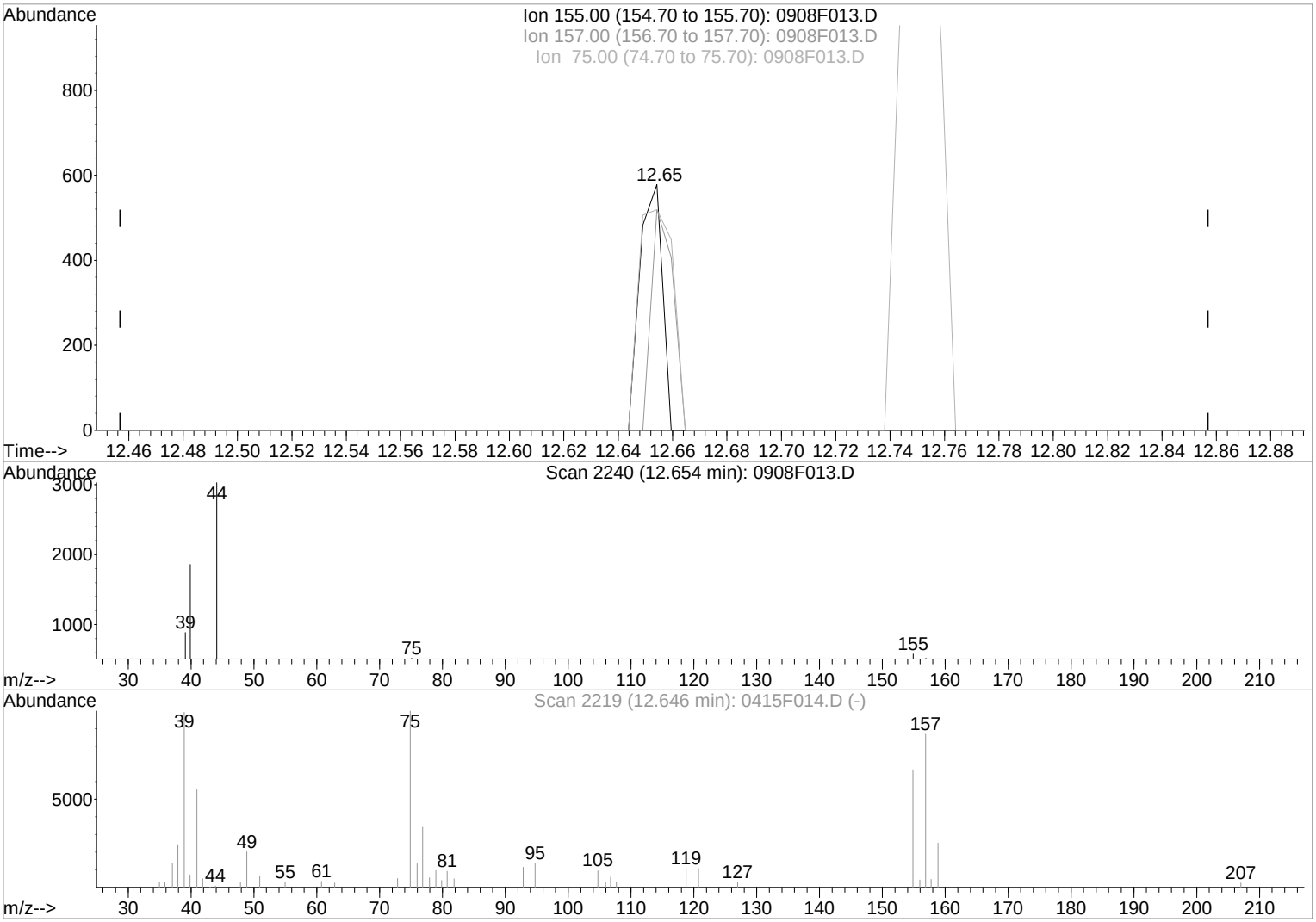
Page 1041 of 1452

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:40 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:34:55 2023
Response via : Single Level Calibration



TIC: 0908F013.D

(102) 1,2-Dibromo-3-chloropropane (DBCP) (T)

12.65min 0.24PPB m

response 333

Ion	Exp%	Act%
155.00	100	100
157.00	117.70	89.79
75.00	94.20	89.79
0.00	0.00	0.00

Manual Integration:

After

Missed peak

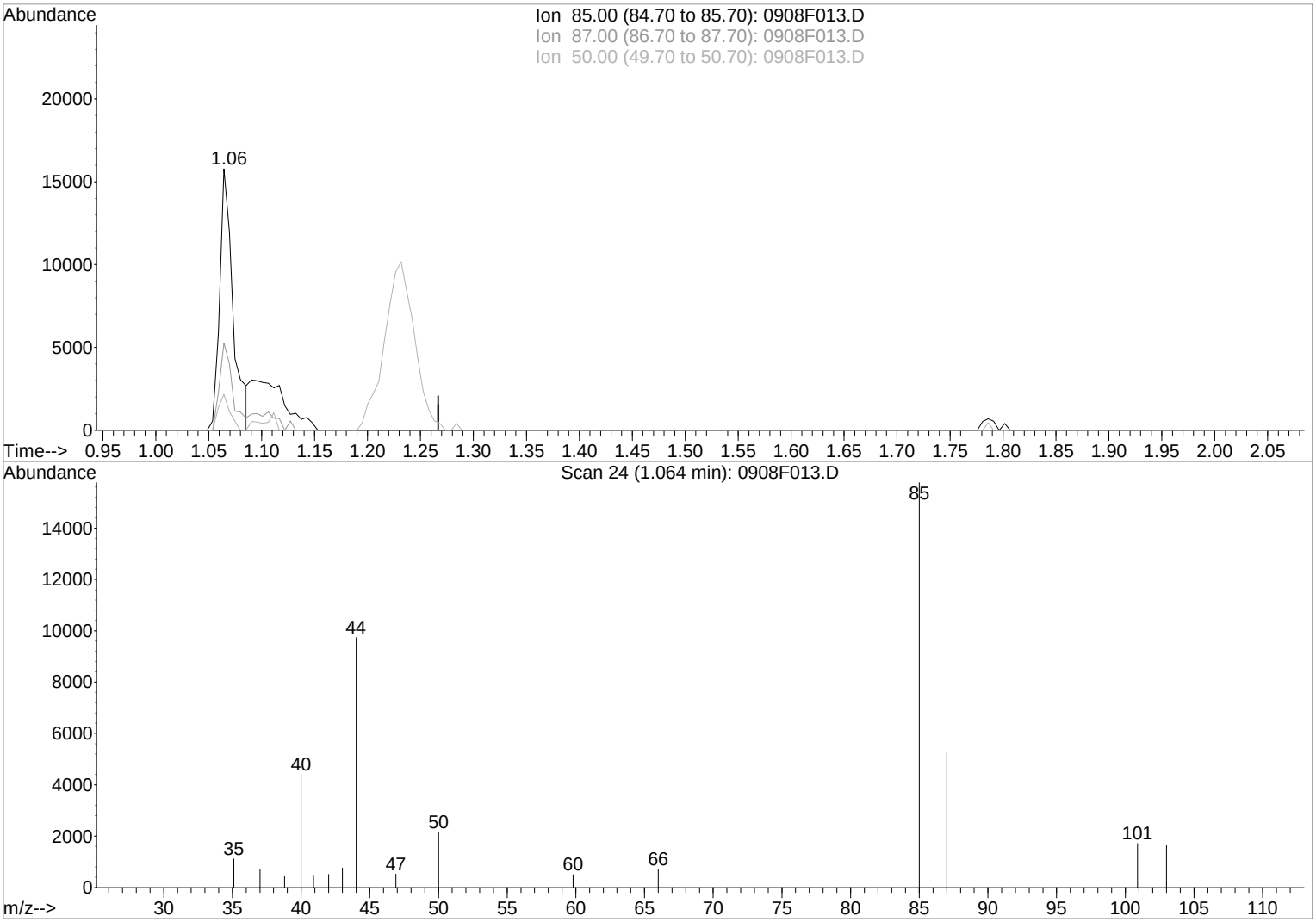
09/12/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 12:23 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:28:13 2023
Response via : Multiple Level Calibration



TIC: 0908F013.D

(2) Dichlorodifluoromethane (T)

1.06min 0.47PPB

response 13871

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	33.43
50.00	11.40	13.66
0.00	0.00	0.00

Manual Integration:

Before

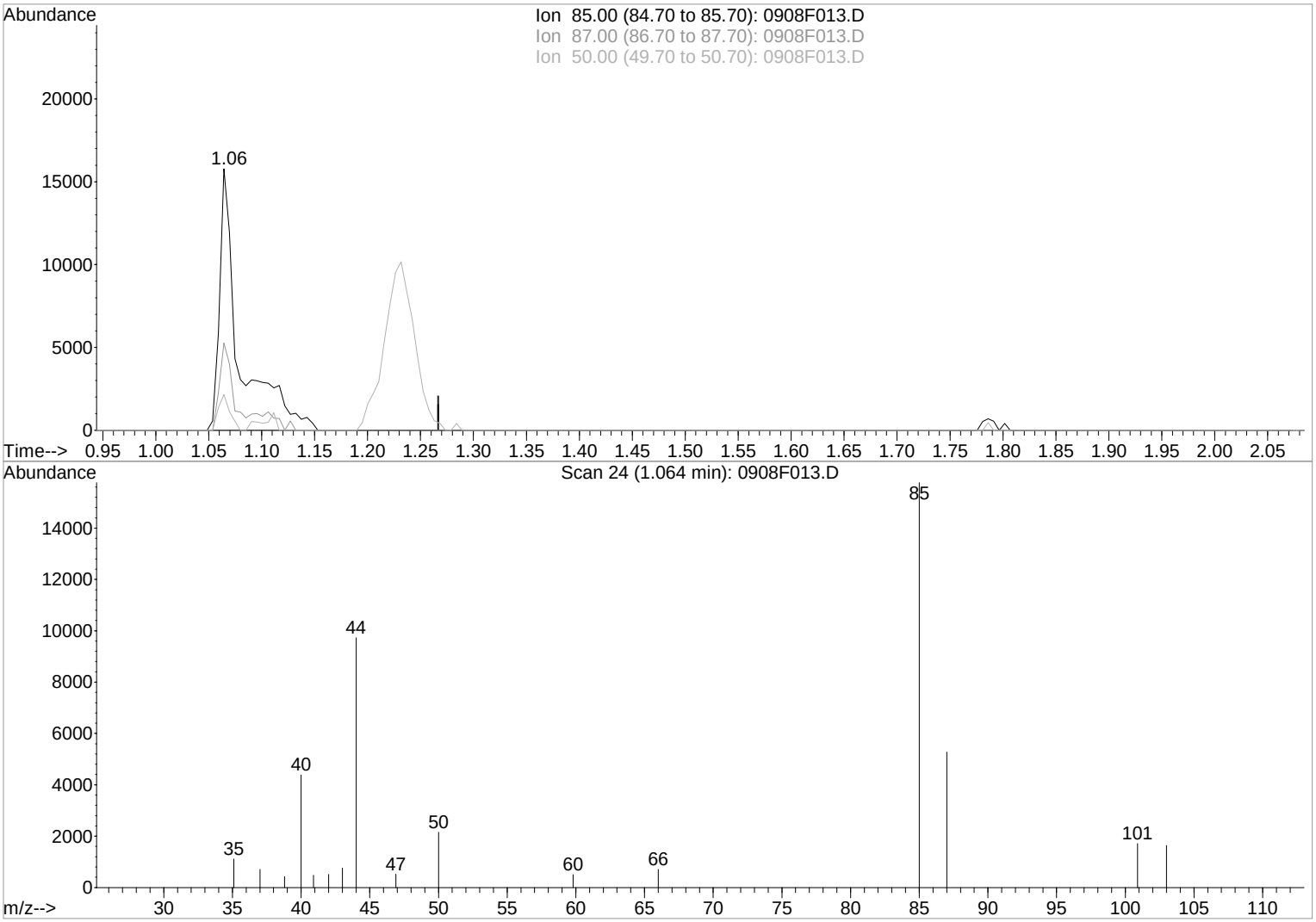
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:28 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:28:13 2023
Response via : Multiple Level Calibration



TIC: 0908F013.D

(2) Dichlorodifluoromethane (T)

1.06min 0.71PPB m

response 20878

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	33.43
50.00	11.40	13.66
0.00	0.00	0.00

Manual Integration:

After

Split peak

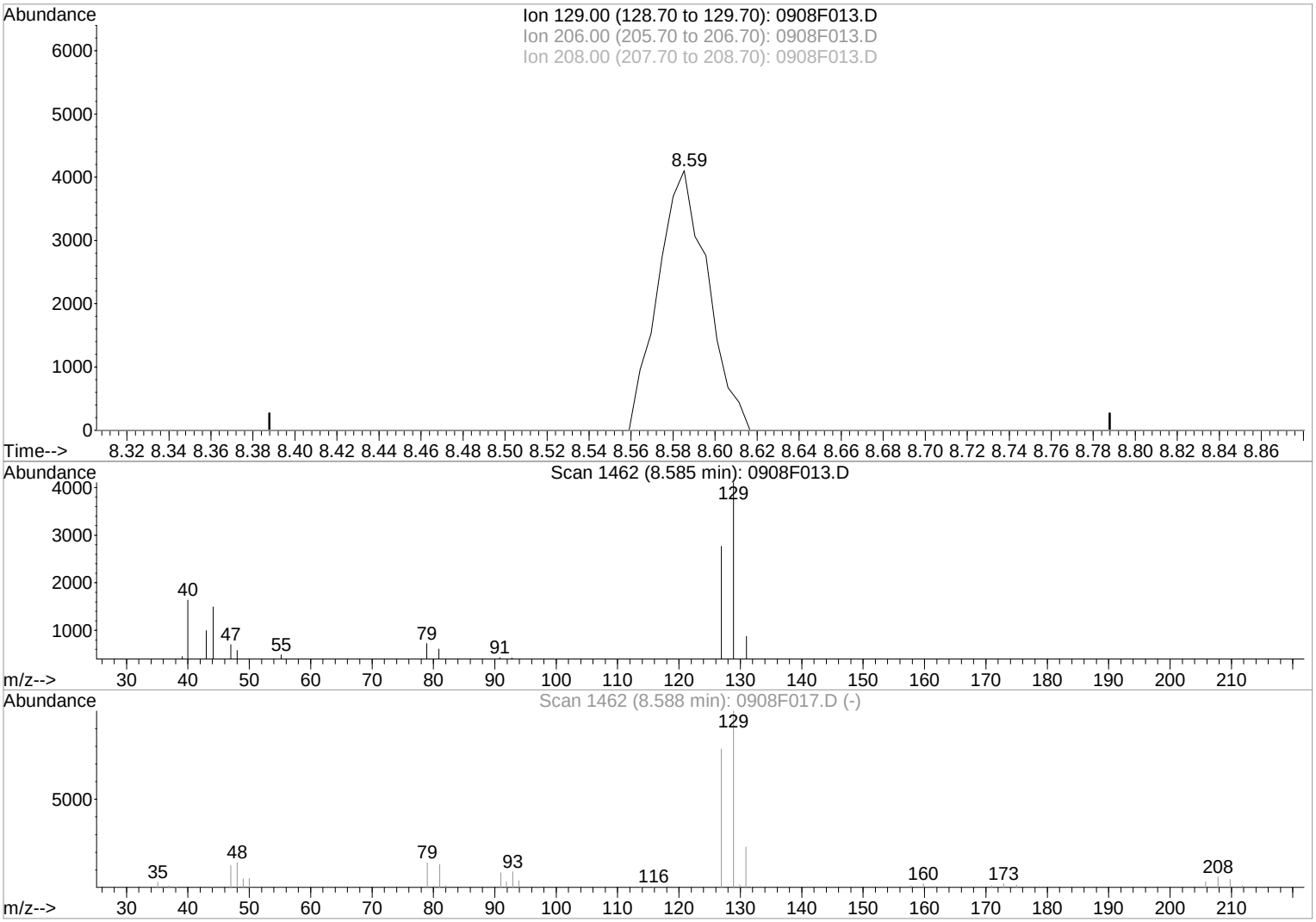
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 12:23 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 12:10:01 2023
Response via : Single Level Calibration



TIC: 0908F013.D

(72) Dibromochloromethane (T)

8.59min 0.32PPB m

response 6717

Ion	Exp%	Act%
129.00	100	100
206.00	3.20	0.00
208.00	6.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Accidentally deleted, reintegrated

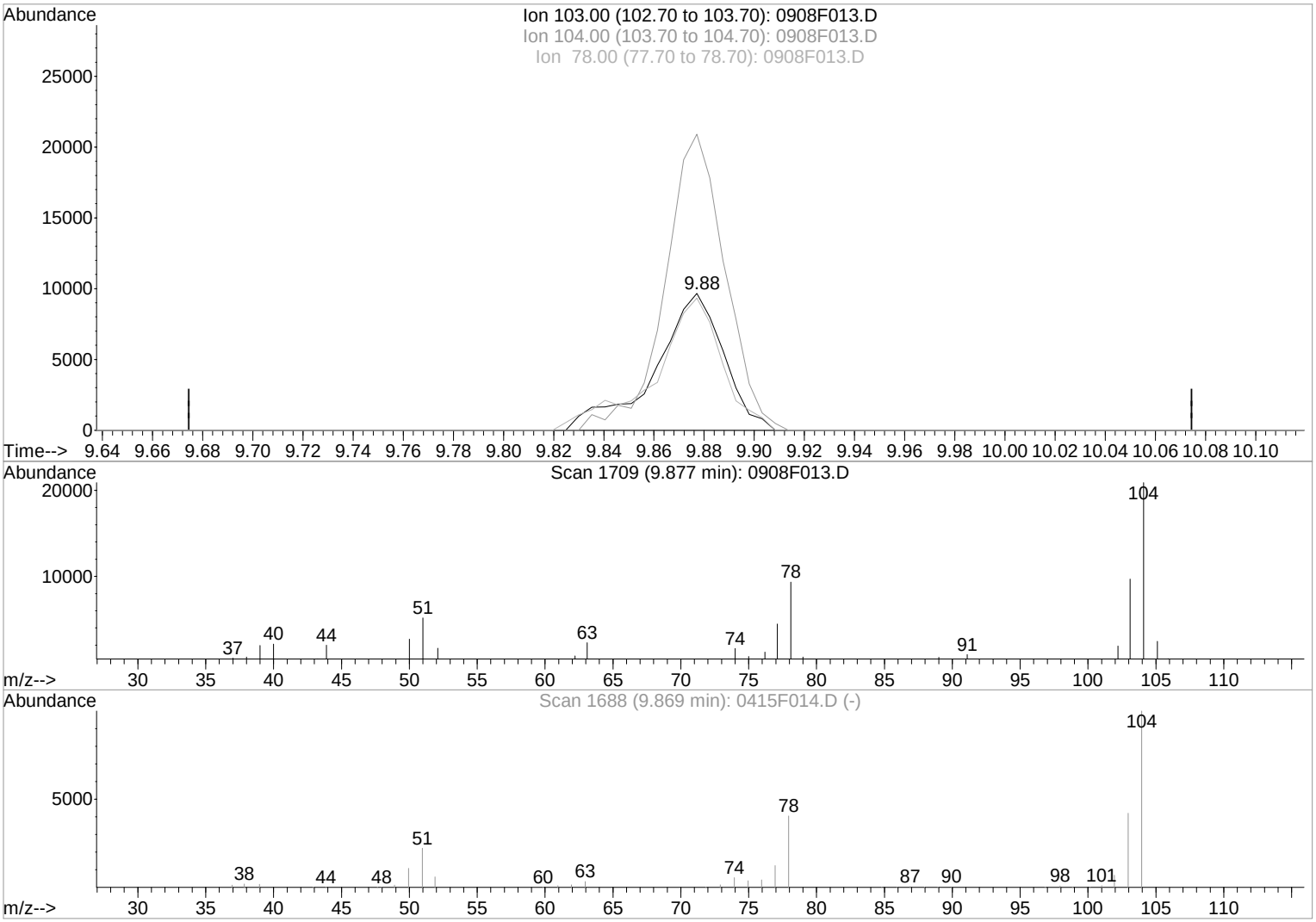
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:37 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:34:55 2023
Response via : Single Level Calibration



TIC: 0908F013.D

(80) Styrene (T)

9.88min 0.42PPB

response 18228

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	216.24
78.00	87.20	96.52
0.00	0.00	0.00

Manual Integration:

Before

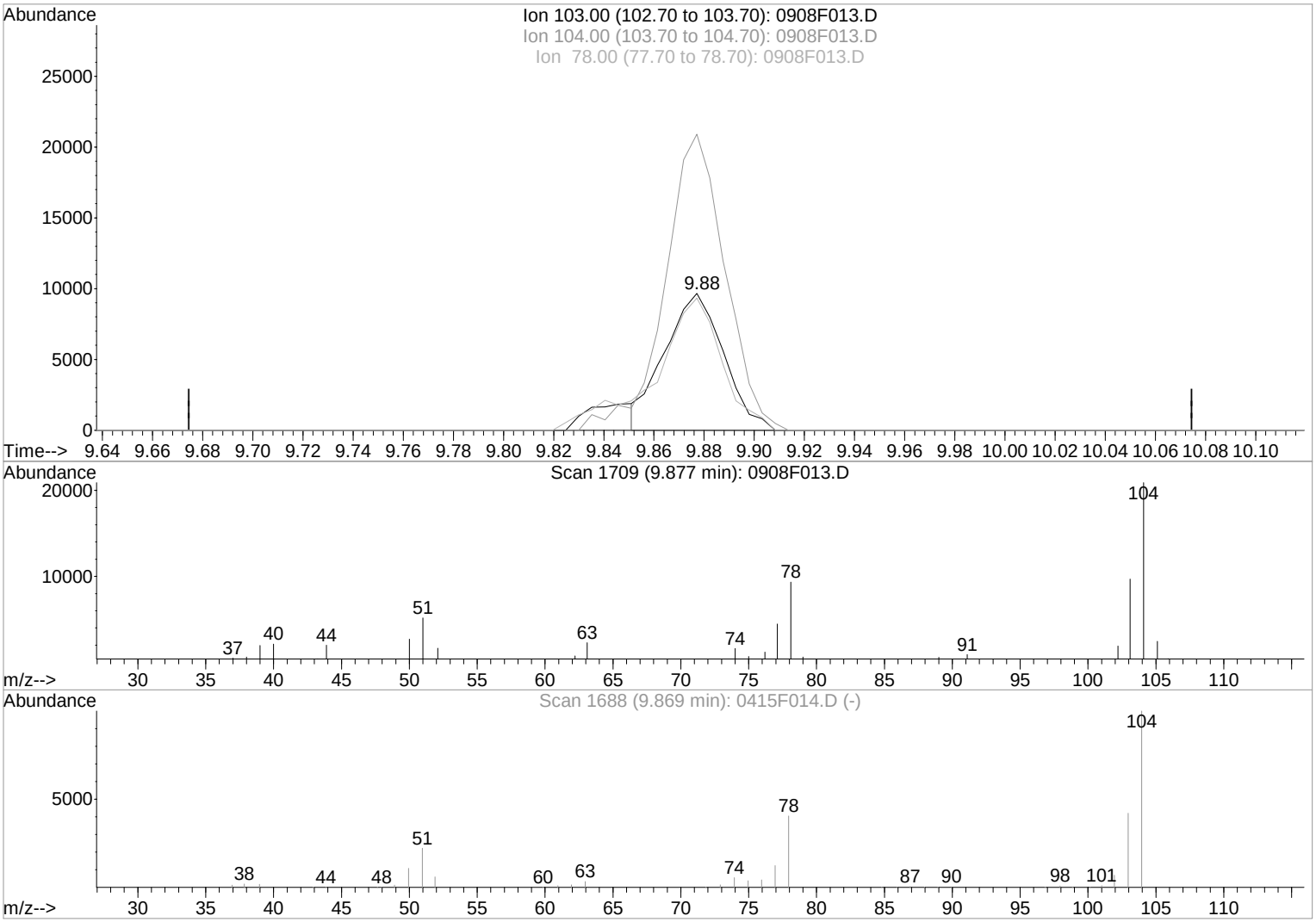
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:37 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:34:55 2023
Response via : Single Level Calibration



TIC: 0908F013.D

(80) Styrene (T)

9.88min 0.36PPB m

response 15731

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	216.24
78.00	87.20	96.52
0.00	0.00	0.00

Manual Integration:

After

Shoulder

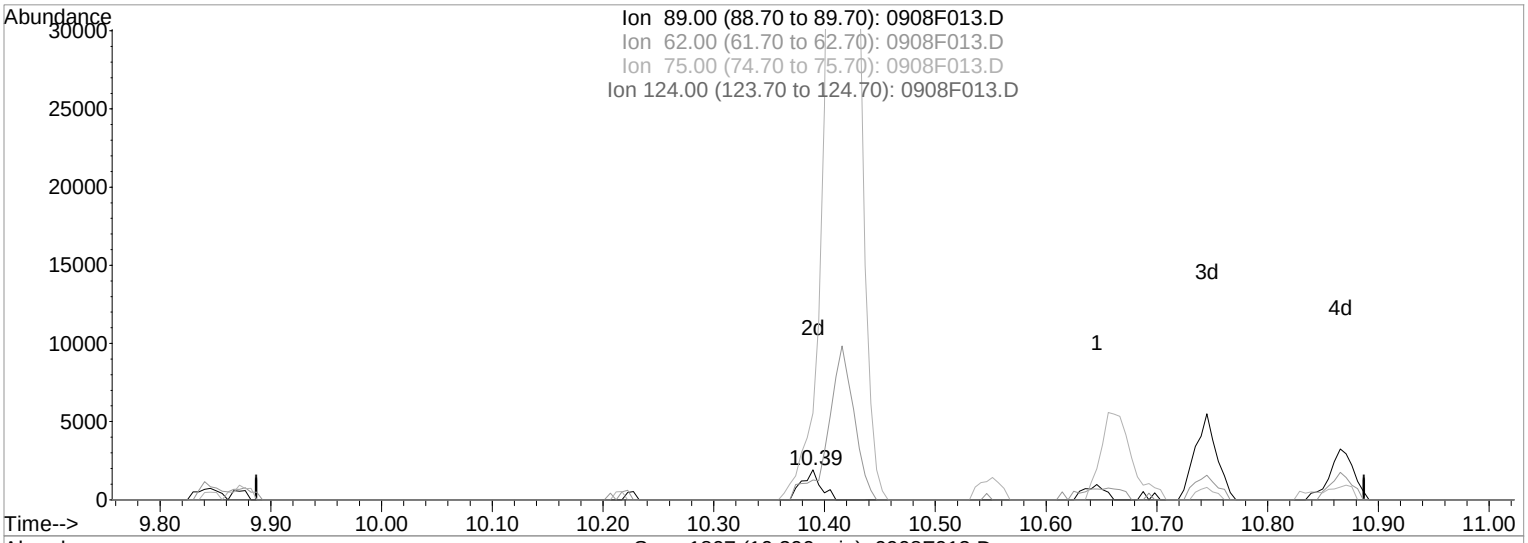
09/12/23

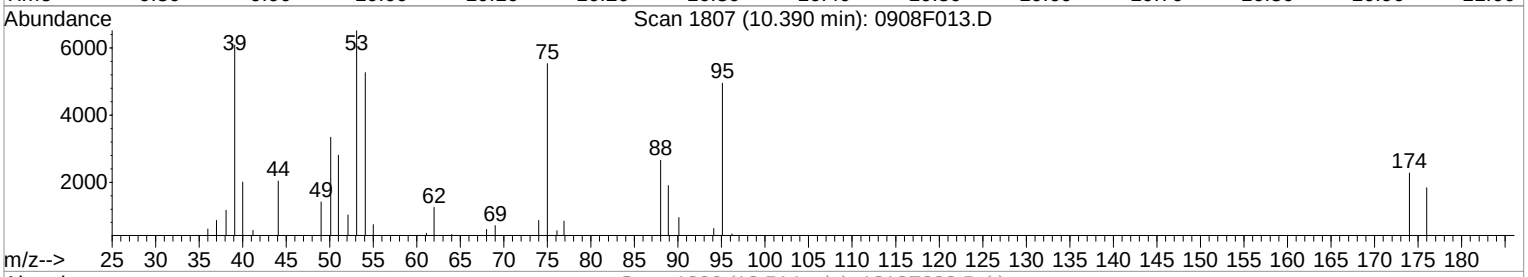
Quantitation Report (Qedit)

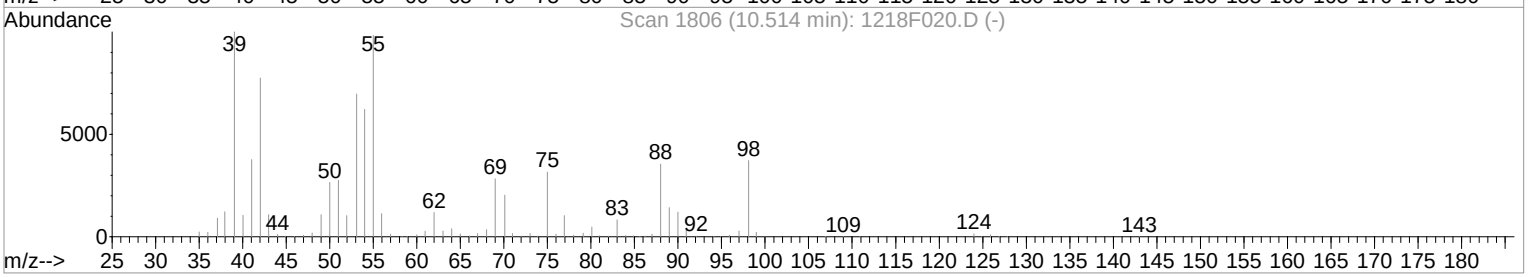
1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:40 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:34:55 2023
Response via : Single Level Calibration







TIC: 0908F013.D

(83) cis-1,4-Dichloro-2-butene (T)

10.39min 0.00PPB m

response 2229

Ion	Exp%	Act%
89.00	100	100
62.00	71.50	65.74
75.00	229.50	290.66#
124.00	7.90	0.00

Manual Integration:

After Before not Printed

Wrong peak

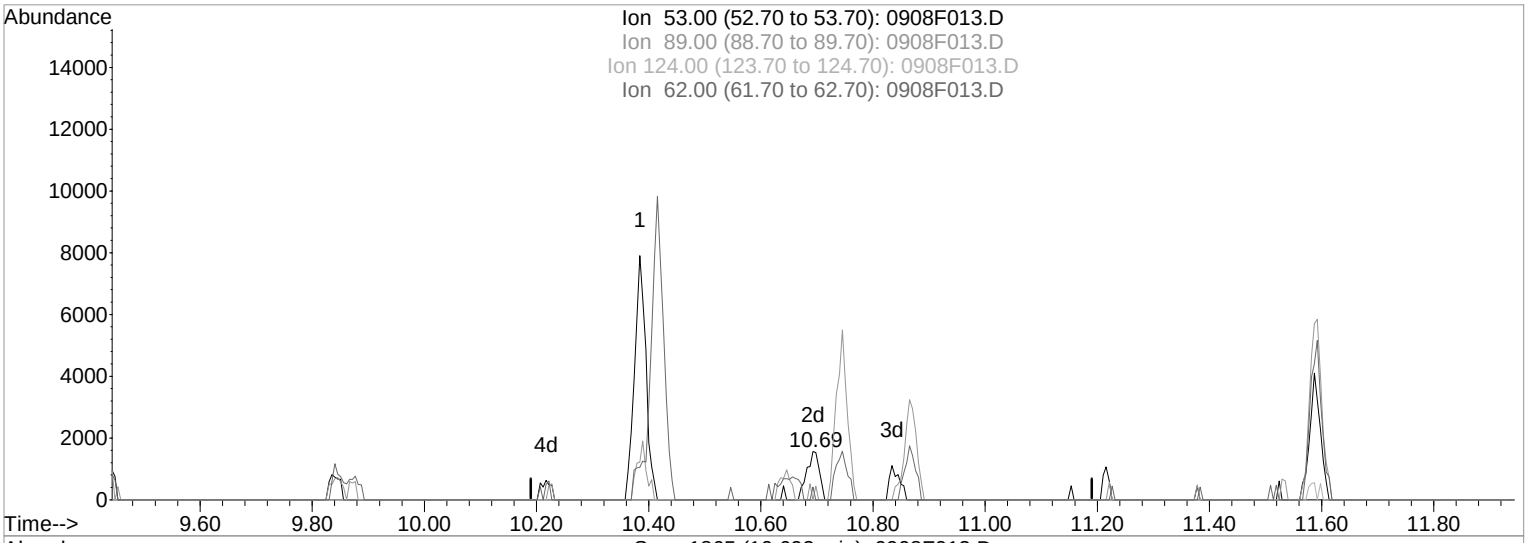
09/12/23

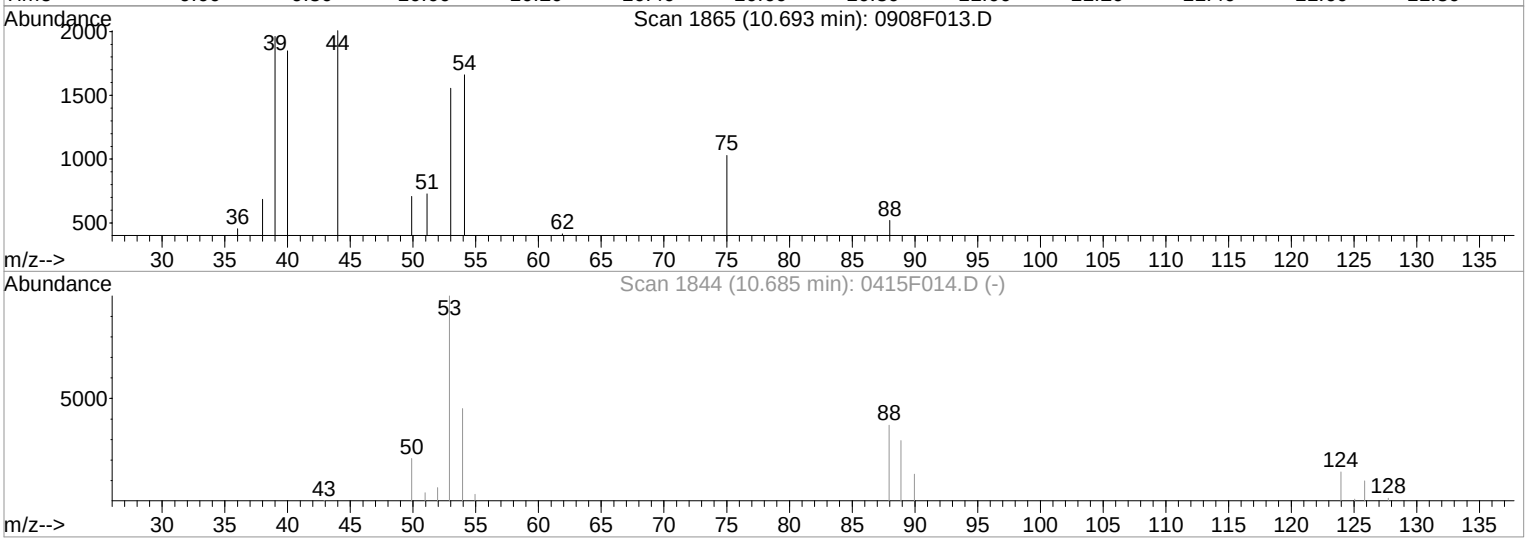
Quantitation Report (Qedit)

1st 09/12/23
2nd 09/15/23

Data File : J:\MS23\DATA\091123\0908F013.D Vial: 6
Acq On : 11 Sep 2023 4:14 pm Operator: EW/GH/MK/OT
Sample : ICAL 0.5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:39 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:34:55 2023
Response via : Single Level Calibration





TIC: 0908F013.D

(87) trans-1,4-Dichloro-2-butene (T)

10.69min 0.42PPB m

response 2442

Ion	Exp%	Act%
53.00	100	100
89.00	32.20	0.00#
124.00	16.20	0.00
62.00	7.60	26.61

Manual Integration:

After Before not Printed

Wrong peak

09/12/23

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F014.D Vial: 7
Acq On : 11 Sep 2023 4:38 pm Operator: EW/GH/MK/OT
Sample : ICAL 1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:41 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1185212	10.00	PPB		0.00
64) Chlorobenzene-d5	9.18	82	434403	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	332894	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	232374	9.62	PPB		0.00
Spiked Amount 10.000			Recovery = 96.20%				
47) 1,2-Dichloroethane-d4	5.35	65	274482	10.18	PPB		0.00
Spiked Amount 10.000			Recovery = 101.80%				
62) Toluene-d8	7.59	98	1100924	9.77	PPB		0.00
Spiked Amount 10.000			Recovery = 97.70%				
84) 4-Bromofluorobenzene	10.41	95	347060	9.85	PPB		0.00
Spiked Amount 10.000			Recovery = 98.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.06	85	41997m	1.37	PPB		
3) Chloromethane	1.23	50	39975	0.98	PPB		99
4) Vinyl Chloride	1.28	62	41124m	0.98	PPB		
5) Bromomethane	1.54	96	16277	0.96	PPB		98
6) Chloroethane	1.62	64	25915	0.97	PPB		95
7) Dichlorofluoromethane	1.78	67	60250	1.02	PPB		99
8) Trichlorofluoromethane	1.78	101	54176	0.99	PPB		97
9) Ethyl Ether	2.04	59	22745	0.86	PPB		92
10) Acrolein	2.22	56	60888	17.34	PPB		100
11) Trichlorotrifluoroethane	2.22	151	20808	1.03	PPB		87
12) 1,1-Dichloroethene	2.25	96	34973	0.94	PPB		95
14) Iodomethane	2.40	142	133749	3.29	PPB		100
15) Carbon Disulfide	2.43	76	91968	1.03	PPB		99
16) 2-Propanol (Isopropyl Alco	2.49	45	27336	38.62	PPB		92
17) 3-Chloro-1-propene	2.61	76	14440	0.80	PPB		98
18) Methyl Acetate	2.65	43	17694	1.11	PPB		91
19) Acetonitrile	2.71	40	46688	36.35	PPB		96
20) Methylene Chloride	2.76	84	46414	1.12	PPB		91
21) tert-Butyl Alcohol	2.88	59	4805	4.68	PPB		72
22) Acrylonitrile	3.10	53	27900	3.60	PPB		96
23) Methyl tert-Butyl Ether	2.98	73	130072	1.68	PPB		99
24) trans-1,2-Dichloroethene	2.99	96	38177	0.96	PPB		99
25) Hexane	3.20	57	34742	0.96	PPB		99
26) Diisopropyl Ether	3.50	45	93407	0.81	PPB		98
27) 1,1-Dichloroethane	3.50	63	63068	0.84	PPB		95
28) Vinyl Acetate	3.57	86	7550	1.30	PPB	#	65
29) Chloroprene	3.56	53	182057	3.43	PPB		96
30) tert-Butyl Ethyl Ether	3.93	59	75775	0.80	PPB		99
31) 2,2-Dichloropropane	4.16	77	34071	0.80	PPB		92
32) cis-1,2-Dichloroethene	4.21	96	39680	0.90	PPB		96
33) 2-Butanone	4.28	72	36668	16.69	PPB		99
34) Ethyl Acetate	4.31	61	6533	1.95	PPB		80
35) Propionitrile	4.46	54	9012	3.24	PPB		95
36) Methacrylonitrile	4.60	67	30320	3.19	PPB		84
37) Bromochloromethane	4.53	128	15596	0.87	PPB		96
38) Tetrahydrofuran	4.55	71	4724	1.78	PPB	#	90
39) Chloroform	4.63	83	57954	0.92	PPB		95
40) tert-Butyl Formate	4.67	59	5351	0.65	PPB		94
41) Cyclohexane	4.75	56	52743	0.90	PPB		97
42) 1,1,1-Trichloroethane	4.79	97	40956	0.83	PPB		97
44) Carbon Tetrachloride	4.96	117	28046	0.78	PPB		83
45) 1,1-Dichloropropene	5.03	75	50000	0.95	PPB		93
46) Isobutyl Alcohol	5.36	43	15553	29.37	PPB		90

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F014.D Vial: 7
Acq On : 11 Sep 2023 4:38 pm Operator: EW/GH/MK/OT
Sample : ICAL 1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:41 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Benzene	5.30	78	159279	0.94	PPB		98
49)	1,2-Dichloroethane	5.45	62	42367	0.93	PPB		97
50)	tert-Amyl Methyl Ether	5.46	55	24092	0.96	PPB	#	78
51)	Trichloroethene	6.16	95	35531	0.94	PPB		99
52)	Methylcyclohexane	6.29	83	39344	0.93	PPB		97
53)	1,2-Dichloropropane	6.49	63	35124	0.85	PPB		94
54)	Dibromomethane	6.63	93	15017	0.83	PPB		84
55)	Methyl methacrylate	6.66	69	10941	0.69	PPB		80
56)	1,4-Dioxane	6.68	88	6319	39.65	PPB		84
60)	cis-1,3-Dichloropropene	7.36	75	32158	0.60	PPB		98
61)	4-Methyl-2-pentanone (MIBK	7.55	58	122400	16.21	PPB		96
63)	Toluene	7.66	92	95237	0.94	PPB		99
65)	n-Octane	7.75	85	13540	0.95	PPB		90
66)	trans-1,3-Dichloropropene	8.02	75	21516	0.58	PPB		91
67)	Ethyl methacrylate	8.09	69	18552	0.66	PPB		98
68)	1,1,2-Trichloroethane	8.21	83	20425	0.90	PPB		92
69)	Tetrachloroethene	8.22	164	26056	1.01	PPB		92
70)	2-Hexanone	8.48	57	34028	14.50	PPB		93
71)	1,3-Dichloropropane	8.39	76	45860	0.91	PPB		97
72)	Dibromochloromethane	8.59	129	13294	0.62	PPB		94
73)	1,2-Dibromoethane (EDB)	8.70	107	19958	0.83	PPB		95
74)	1-Chlorohexane	9.19	91	30855	0.95	PPB		94
75)	Chlorobenzene	9.20	112	92465	0.98	PPB		98
76)	Ethylbenzene	9.30	106	45025	0.92	PPB		94
77)	1,1,1,2-Tetrachloroethane	9.31	131	17540	0.69	PPB		96
78)	m,p-Xylenes	9.43	106	111856	1.89	PPB		99
79)	o-Xylene	9.84	106	51265	0.90	PPB		93
80)	Styrene	9.88	103	36458m	0.82	PPB		
82)	Isopropylbenzene	10.22	105	111830	0.90	PPB		97
86)	1,1,2,2-Tetrachloroethane	10.62	83	18418	0.79	PPB		98
87)	trans-1,4-Dichloro-2-buten	10.69	53	4888	0.81	PPB		94
88)	Bromobenzene	10.55	156	30761	0.94	PPB		94
89)	n-Propylbenzene	10.64	91	118499	0.89	PPB		98
90)	1,2,3-Trichloropropane	10.67	110	6804	0.91	PPB		85
91)	2-Chlorotoluene	10.74	91	83924	0.96	PPB		99
92)	1,3,5-Trimethylbenzene	10.84	105	79758	0.85	PPB		93
93)	4-Chlorotoluene	10.87	91	94639	0.92	PPB		96
94)	tert-Butylbenzene	11.15	119	69148	0.93	PPB		96
95)	1,2,4-Trimethylbenzene	11.22	105	78970	0.82	PPB		99
96)	sec-Butylbenzene	11.38	105	83533	0.89	PPB		100
97)	p-Isopropyltoluene	11.53	119	67899	0.81	PPB		97
98)	1,3-Dichlorobenzene	11.51	146	47649	0.92	PPB		99
99)	1,4-Dichlorobenzene	11.61	146	52509	0.99	PPB		99
100)	n-Butylbenzene	11.95	91	49973	0.77	PPB		99
101)	1,2-Dichlorobenzene	11.99	146	43084	0.95	PPB		99
102)	1,2-Dibromo-3-chloropropan	12.65	155	1115	0.78	PPB	#	70
103)	1,3,5-Trichlorobenzene	12.75	180	18924	0.88	PPB		98
104)	1,2,4-Trichlorobenzene	13.21	180	12196	0.84	PPB		96
105)	Hexachlorobutadiene	13.30	225	7782	0.90	PPB		90
106)	Naphthalene	13.40	128	14337	0.71	PPB		99
107)	1,2,3-Trichlorobenzene	13.59	180	6438	0.88	PPB		95

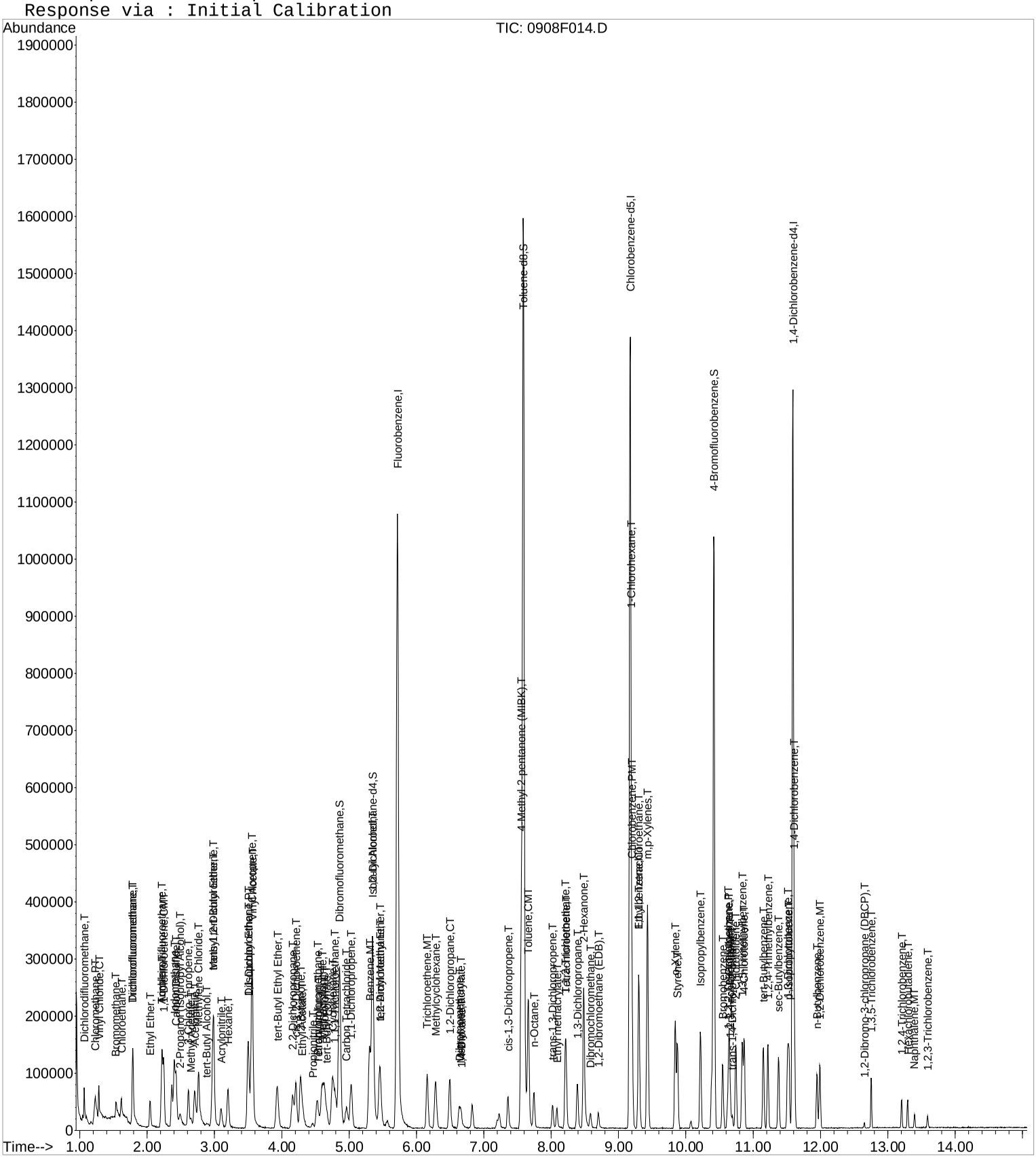
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\091123\0908F014.D Vial: 7
Acq On : 11 Sep 2023 4:38 pm Operator: EW/GH/MK/OT
Sample : ICAL 1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:30 2023 Quant Results File: 091123MS23_8260.RES

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration

09/12/23
09/18/23
1st
2nd



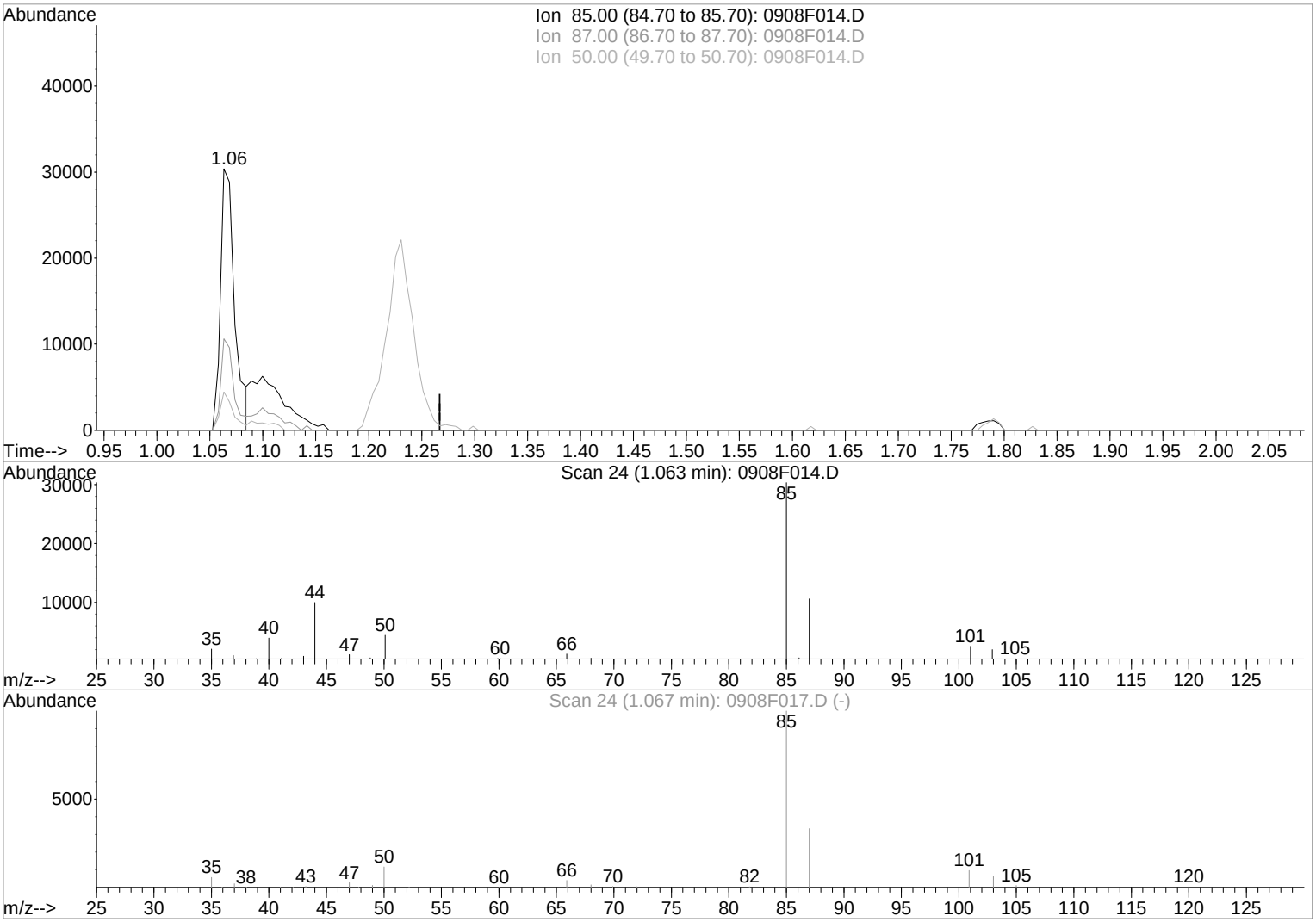
Page 1052 of 1452

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F014.D Vial: 7
Acq On : 11 Sep 2023 4:38 pm Operator: EW/GH/MK/OT
Sample : ICAL 1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:42 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:29:33 2023
Response via : Multiple Level Calibration



TIC: 0908F014.D

(2) Dichlorodifluoromethane (T)

1.06min 0.92PPB

response 28215

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	34.92
50.00	11.40	14.63
0.00	0.00	0.00

Manual Integration:

Before

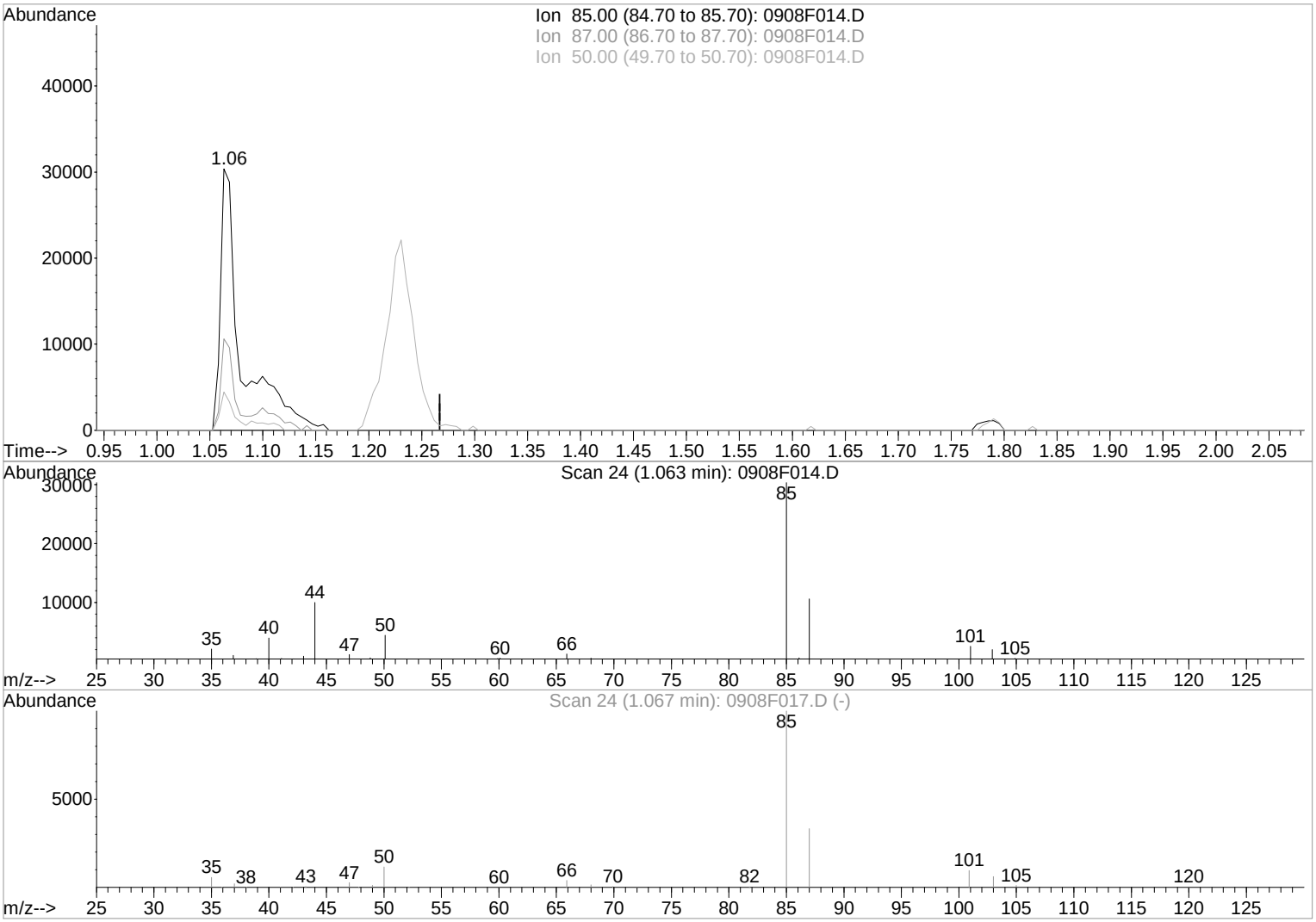
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F014.D Vial: 7
Acq On : 11 Sep 2023 4:38 pm Operator: EW/GH/MK/OT
Sample : ICAL 1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:29 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:29:33 2023
Response via : Multiple Level Calibration



TIC: 0908F014.D

(2) Dichlorodifluoromethane (T)

1.06min 1.37PPB m

response 41997

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	34.92
50.00	11.40	14.63
0.00	0.00	0.00

Manual Integration:

After

Split peak

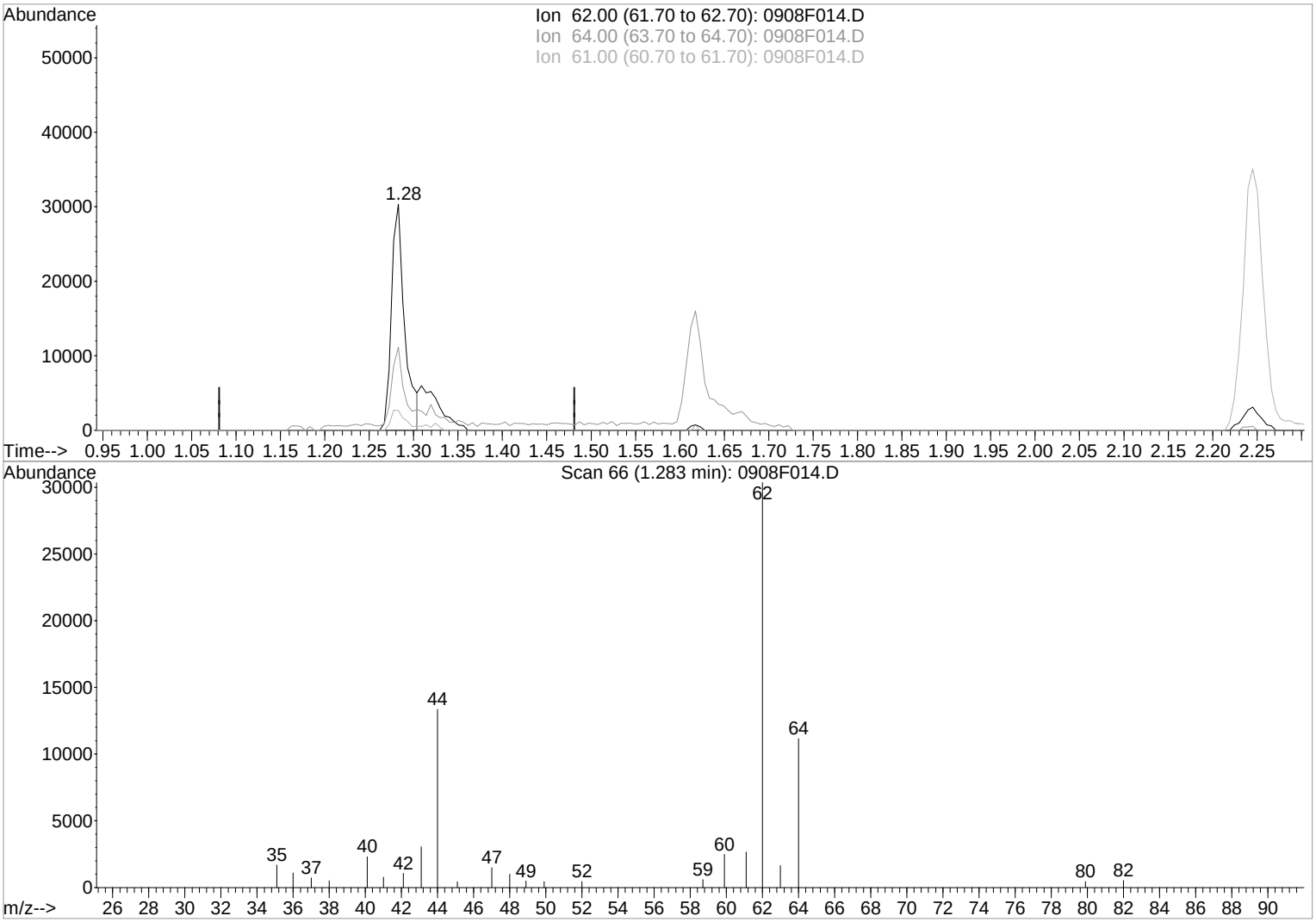
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F014.D Vial: 7
Acq On : 11 Sep 2023 4:38 pm Operator: EW/GH/MK/OT
Sample : ICAL 1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:29 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:30:03 2023
Response via : Multiple Level Calibration



TIC: 0908F014.D

(4) Vinyl Chloride (CT)

1.28min 0.76PPB

response 31817

Ion	Exp%	Act%
62.00	100	100
64.00	31.50	34.75
61.00	8.80	8.72
0.00	0.00	0.00

Manual Integration:

Before

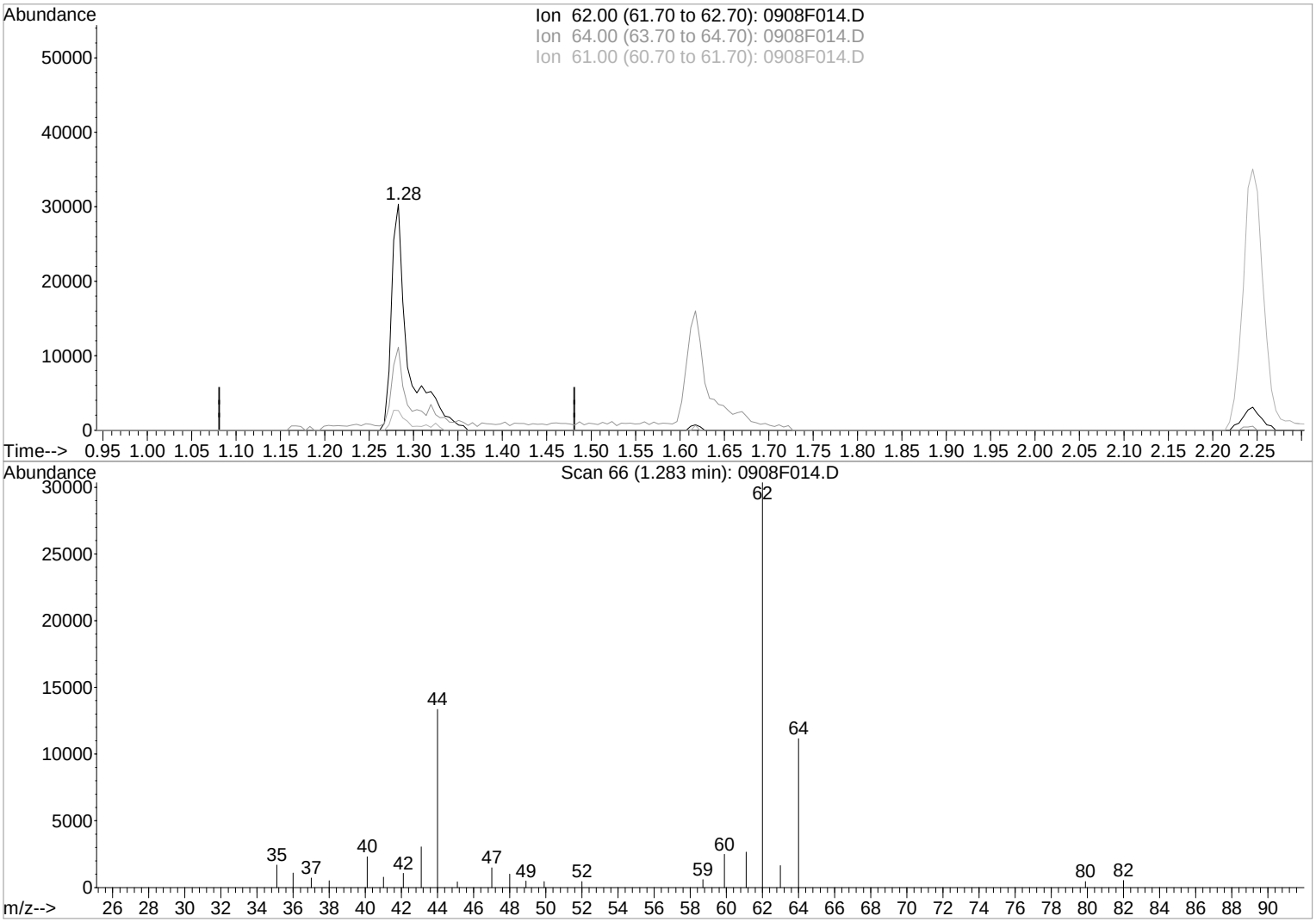
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F014.D Vial: 7
Acq On : 11 Sep 2023 4:38 pm Operator: EW/GH/MK/OT
Sample : ICAL 1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:30 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:30:03 2023
Response via : Multiple Level Calibration



TIC: 0908F014.D

(4) Vinyl Chloride (CT)

1.28min 0.98PPB m

response 41124

Ion	Exp%	Act%
62.00	100	100
64.00	31.50	36.75
61.00	8.80	8.72
0.00	0.00	0.00

Manual Integration:

After

Split peak

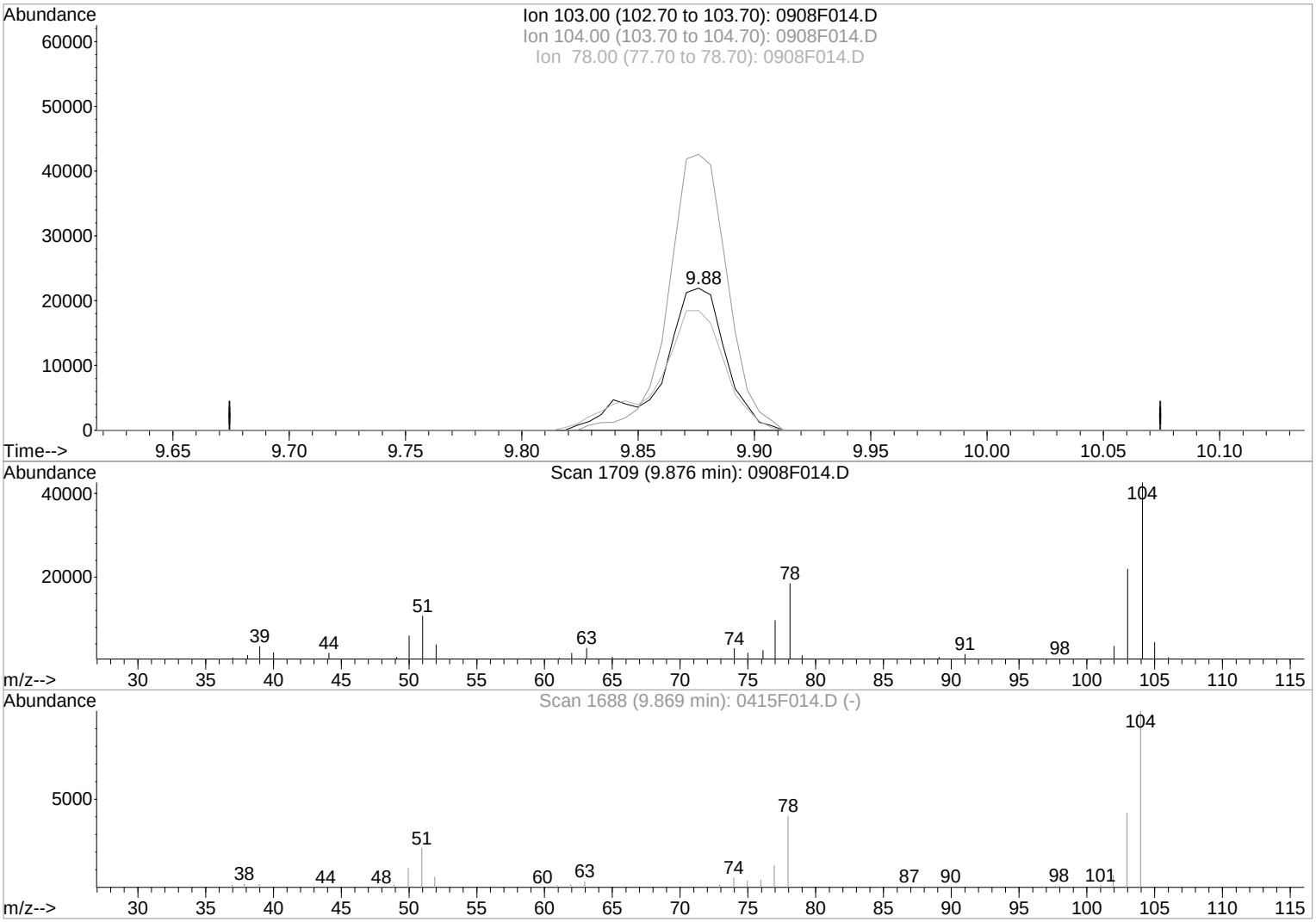
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F014.D Vial: 7
Acq On : 11 Sep 2023 4:38 pm Operator: EW/GH/MK/OT
Sample : ICAL 1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 8:59 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:41:10 2023
Response via : Single Level Calibration



TIC: 0908F014.D

(80) Styrene (T)

9.88min 0.93PPB

response 41739

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	194.49
78.00	87.20	84.34
0.00	0.00	0.00

Manual Integration:

Before

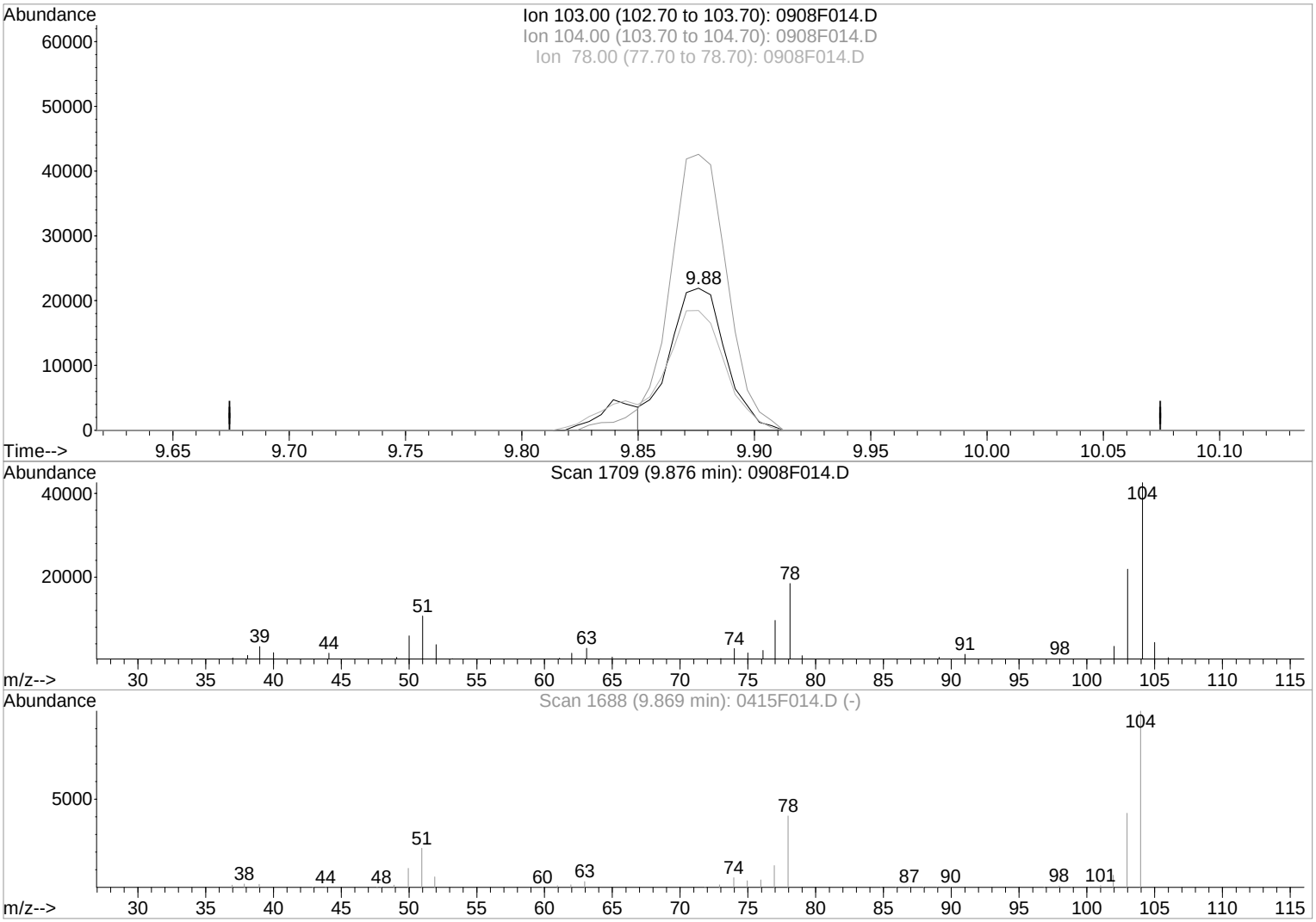
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F014.D Vial: 7
Acq On : 11 Sep 2023 4:38 pm Operator: EW/GH/MK/OT
Sample : ICAL 1 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:42 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:41:10 2023
Response via : Single Level Calibration



TIC: 0908F014.D

(80) Styrene (T)

9.88min 0.82PPB m

response 36458

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	194.49
78.00	87.20	84.34
0.00	0.00	0.00

Manual Integration:

After

Shoulder

09/12/23

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F015.D Vial: 8
Acq On : 11 Sep 2023 5:02 pm Operator: EW/GH/MK/OT
Sample : ICAL 2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:42 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.72	96	1157801	10.00	PPB	0.00
64) Chlorobenzene-d5	9.18	82	429265	10.00	PPB	0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	330466	10.00	PPB	0.00
System Monitoring Compounds						
43) Dibromofluoromethane	4.86	113	228796	9.69	PPB	0.00
Spiked Amount 10.000			Recovery = 96.90%			
47) 1,2-Dichloroethane-d4	5.35	65	267564	10.16	PPB	0.00
Spiked Amount 10.000			Recovery = 101.60%			
62) Toluene-d8	7.59	98	1080828	9.82	PPB	0.00
Spiked Amount 10.000			Recovery = 98.20%			
84) 4-Bromofluorobenzene	10.41	95	344873	9.91	PPB	0.00
Spiked Amount 10.000			Recovery = 99.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.07	85	91041m	3.04	PPB	
3) Chloromethane	1.23	50	83109	2.08	PPB	98
4) Vinyl Chloride	1.28	62	83786	2.04	PPB	98
5) Bromomethane	1.54	96	32201	1.94	PPB	93
6) Chloroethane	1.62	64	55683	2.14	PPB	97
7) Dichlorofluoromethane	1.78	67	117241	2.04	PPB	97
8) Trichlorofluoromethane	1.78	101	108342	2.03	PPB	99
9) Ethyl Ether	2.05	59	49170	1.91	PPB	98
10) Acrolein	2.22	56	112761	32.87	PPB	96
11) Trichlorotrifluoroethane	2.22	151	40748	2.06	PPB	98
12) 1,1-Dichloroethene	2.25	96	69741	1.92	PPB	100
14) Iodomethane	2.41	142	286296	7.21	PPB	99
15) Carbon Disulfide	2.43	76	175456	2.01	PPB	99
16) 2-Propanol (Isopropyl Alco	2.49	45	59741	86.41	PPB	93
17) 3-Chloro-1-propene	2.61	76	30540	1.73	PPB	98
18) Methyl Acetate	2.65	43	35500	2.27	PPB	97
19) Acetonitrile	2.71	40	107147	85.41	PPB	97
20) Methylene Chloride	2.76	84	89848	2.21	PPB	98
21) tert-Butyl Alcohol	2.88	59	9193	9.17	PPB	90
22) Acrylonitrile	3.10	53	58843	7.78	PPB	94
23) Methyl tert-Butyl Ether	2.98	73	276847	3.65	PPB	98
24) trans-1,2-Dichloroethene	2.99	96	75829	1.95	PPB	100
25) Hexane	3.20	57	69773	1.97	PPB	100
26) Diisopropyl Ether	3.51	45	201783	1.79	PPB	98
27) 1,1-Dichloroethane	3.50	63	132894	1.81	PPB	97
28) Vinyl Acetate	3.56	86	17789	3.14	PPB	98
29) Chloroprene	3.56	53	389088	7.51	PPB	97
30) tert-Butyl Ethyl Ether	3.93	59	162509	1.76	PPB	96
31) 2,2-Dichloropropane	4.16	77	72321	1.73	PPB	96
32) cis-1,2-Dichloroethene	4.21	96	83401	1.94	PPB	94
33) 2-Butanone	4.27	72	79348	36.97	PPB	98
34) Ethyl Acetate	4.31	61	11282	3.44	PPB	93
35) Propionitrile	4.46	54	21407	7.87	PPB	91
36) Methacrylonitrile	4.60	67	69509	7.48	PPB	99
37) Bromochloromethane	4.52	128	32842	1.88	PPB	99
38) Tetrahydrofuran	4.55	71	7100	2.74	PPB	87
39) Chloroform	4.63	83	120192	1.95	PPB	90
40) tert-Butyl Formate	4.66	59	12213	1.51	PPB	90
41) Cyclohexane	4.76	56	106502	1.87	PPB	92
42) 1,1,1-Trichloroethane	4.80	97	82318	1.71	PPB	97
44) Carbon Tetrachloride	4.96	117	60012	1.71	PPB	96
45) 1,1-Dichloropropene	5.03	75	97355	1.90	PPB	98
46) Isobutyl Alcohol	5.36	43	33640	65.03	PPB	92

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F015.D Vial: 8
Acq On : 11 Sep 2023 5:02 pm Operator: EW/GH/MK/OT
Sample : ICAL 2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:42 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Benzene	5.30	78	320767	1.93	PPB		99
49)	1,2-Dichloroethane	5.46	62	89157	2.01	PPB		96
50)	tert-Amyl Methyl Ether	5.46	55	49579	2.02	PPB	#	62
51)	Trichloroethene	6.16	95	71063	1.92	PPB		97
52)	Methylcyclohexane	6.28	83	79619	1.92	PPB		91
53)	1,2-Dichloropropane	6.50	63	75180	1.87	PPB		95
54)	Dibromomethane	6.63	93	32411	1.84	PPB		96
55)	Methyl methacrylate	6.66	69	25273	1.64	PPB		93
56)	1,4-Dioxane	6.68	88	13092	84.09	PPB		94
60)	cis-1,3-Dichloropropene	7.36	75	75921	1.44	PPB		98
61)	4-Methyl-2-pentanone (MIBK	7.56	58	263382	35.71	PPB		94
63)	Toluene	7.66	92	192315	1.94	PPB		100
65)	n-Octane	7.75	85	27858	1.97	PPB		95
66)	trans-1,3-Dichloropropene	8.02	75	49542	1.35	PPB		96
67)	Ethyl methacrylate	8.09	69	43252	1.55	PPB		95
68)	1,1,2-Trichloroethane	8.21	83	44215	1.97	PPB		93
69)	Tetrachloroethene	8.22	164	52455	2.05	PPB		93
70)	2-Hexanone	8.48	57	79919	34.46	PPB		96
71)	1,3-Dichloropropane	8.39	76	95962	1.92	PPB		99
72)	Dibromochloromethane	8.58	129	31461	1.48	PPB		96
73)	1,2-Dibromoethane (EDB)	8.70	107	42625	1.79	PPB		98
74)	1-Chlorohexane	9.19	91	59703	1.87	PPB		98
75)	Chlorobenzene	9.20	112	185484	1.99	PPB		98
76)	Ethylbenzene	9.30	106	92620	1.92	PPB		96
77)	1,1,1,2-Tetrachloroethane	9.31	131	41214	1.64	PPB		96
78)	m,p-Xylenes	9.43	106	229930	3.94	PPB		99
79)	o-Xylene	9.84	106	105399	1.88	PPB		95
80)	Styrene	9.88	103	74286m	1.68	PPB		
82)	Isopropylbenzene	10.22	105	230813	1.88	PPB		99
86)	1,1,2,2-Tetrachloroethane	10.62	83	41329	1.79	PPB		97
87)	trans-1,4-Dichloro-2-buten	10.69	53	10180	1.69	PPB		90
88)	Bromobenzene	10.55	156	63133	1.94	PPB		98
89)	n-Propylbenzene	10.64	91	249832	1.88	PPB		99
90)	1,2,3-Trichloropropane	10.66	110	13918	1.87	PPB		96
91)	2-Chlorotoluene	10.74	91	168693	1.95	PPB		99
92)	1,3,5-Trimethylbenzene	10.84	105	170921	1.84	PPB		97
93)	4-Chlorotoluene	10.86	91	196085	1.92	PPB		95
94)	tert-Butylbenzene	11.15	119	140804	1.90	PPB		96
95)	1,2,4-Trimethylbenzene	11.22	105	171604	1.80	PPB		98
96)	sec-Butylbenzene	11.38	105	176591	1.89	PPB		98
97)	p-Isopropyltoluene	11.53	119	149239	1.79	PPB		98
98)	1,3-Dichlorobenzene	11.51	146	99850	1.95	PPB		97
99)	1,4-Dichlorobenzene	11.61	146	105870	2.01	PPB		99
100)	n-Butylbenzene	11.95	91	113924	1.76	PPB		96
101)	1,2-Dichlorobenzene	11.99	146	87183	1.93	PPB		99
102)	1,2-Dibromo-3-chloropropan	12.65	155	2200	1.56	PPB		92
103)	1,3,5-Trichlorobenzene	12.75	180	41307	1.94	PPB		99
104)	1,2,4-Trichlorobenzene	13.21	180	26815	1.87	PPB		98
105)	Hexachlorobutadiene	13.30	225	16956	1.97	PPB		94
106)	Naphthalene	13.40	128	31303	1.56	PPB		95
107)	1,2,3-Trichlorobenzene	13.59	180	13037	1.79	PPB		97

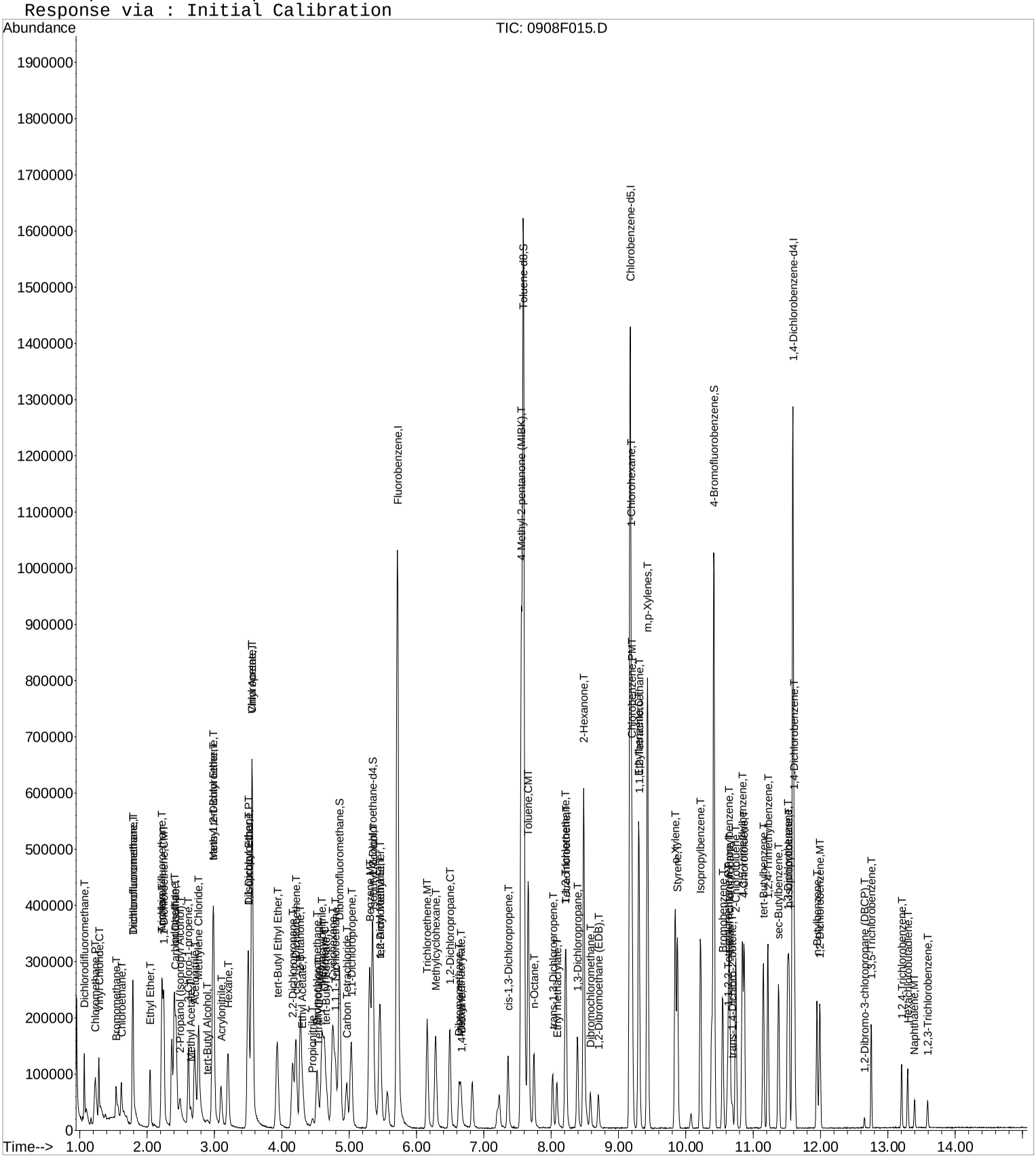
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\091123\0908F015.D Vial: 8
Acq On : 11 Sep 2023 5:02 pm Operator: EW/GH/MK/OT
Sample : ICAL 2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:31 2023 Quant Results File: 091123MS23_8260.RES

09/12/23
09/18/23
1st
2nd

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration



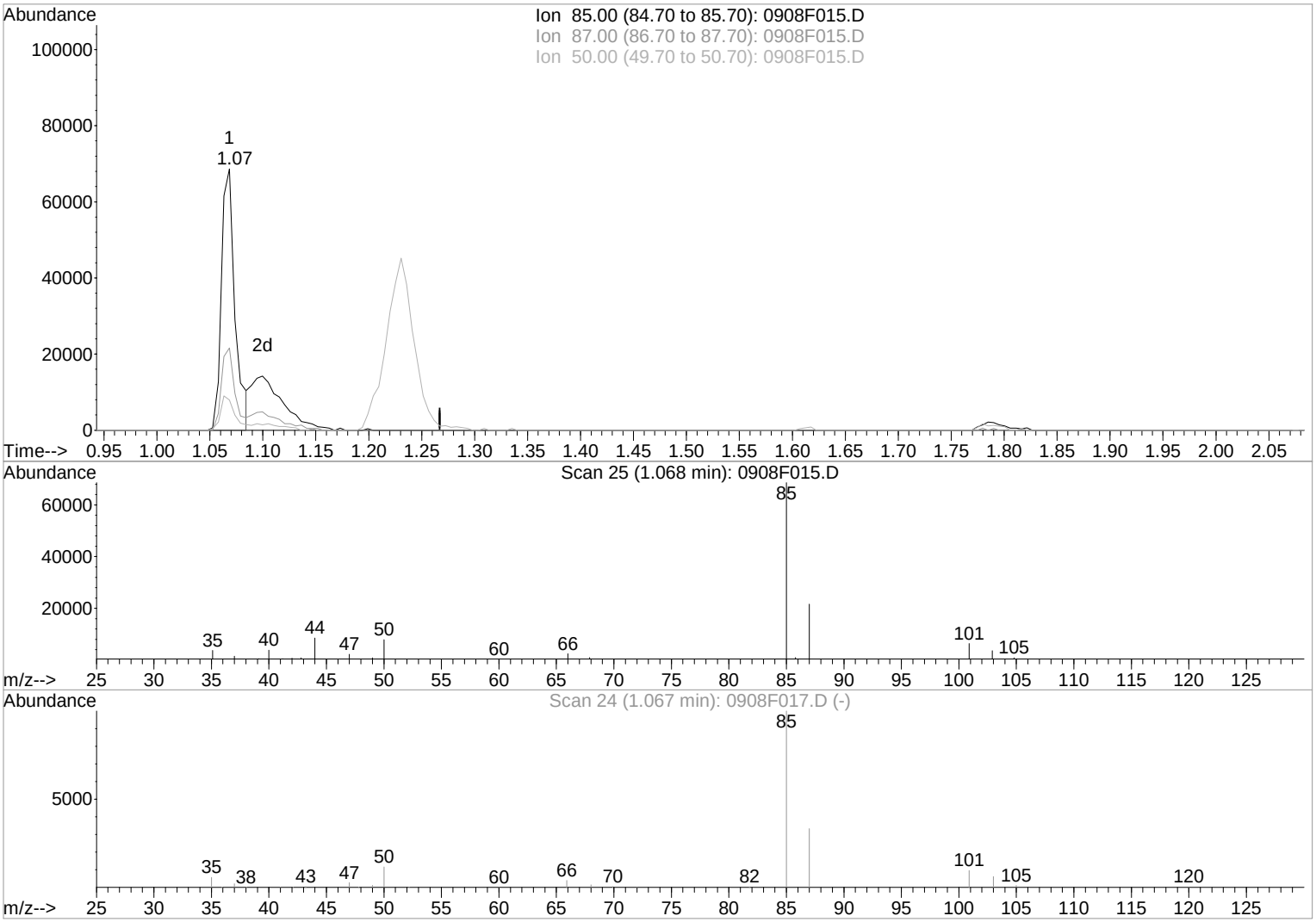
Page 1061 of 1452

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F015.D Vial: 8
Acq On : 11 Sep 2023 5:02 pm Operator: EW/GH/MK/OT
Sample : ICAL 2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:45 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:30:43 2023
Response via : Multiple Level Calibration



TIC: 0908F015.D

(2) Dichlorodifluoromethane (T)

1.07min 2.05PPB

response 61326

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	31.50
50.00	11.40	11.53
0.00	0.00	0.00

Manual Integration:

Before

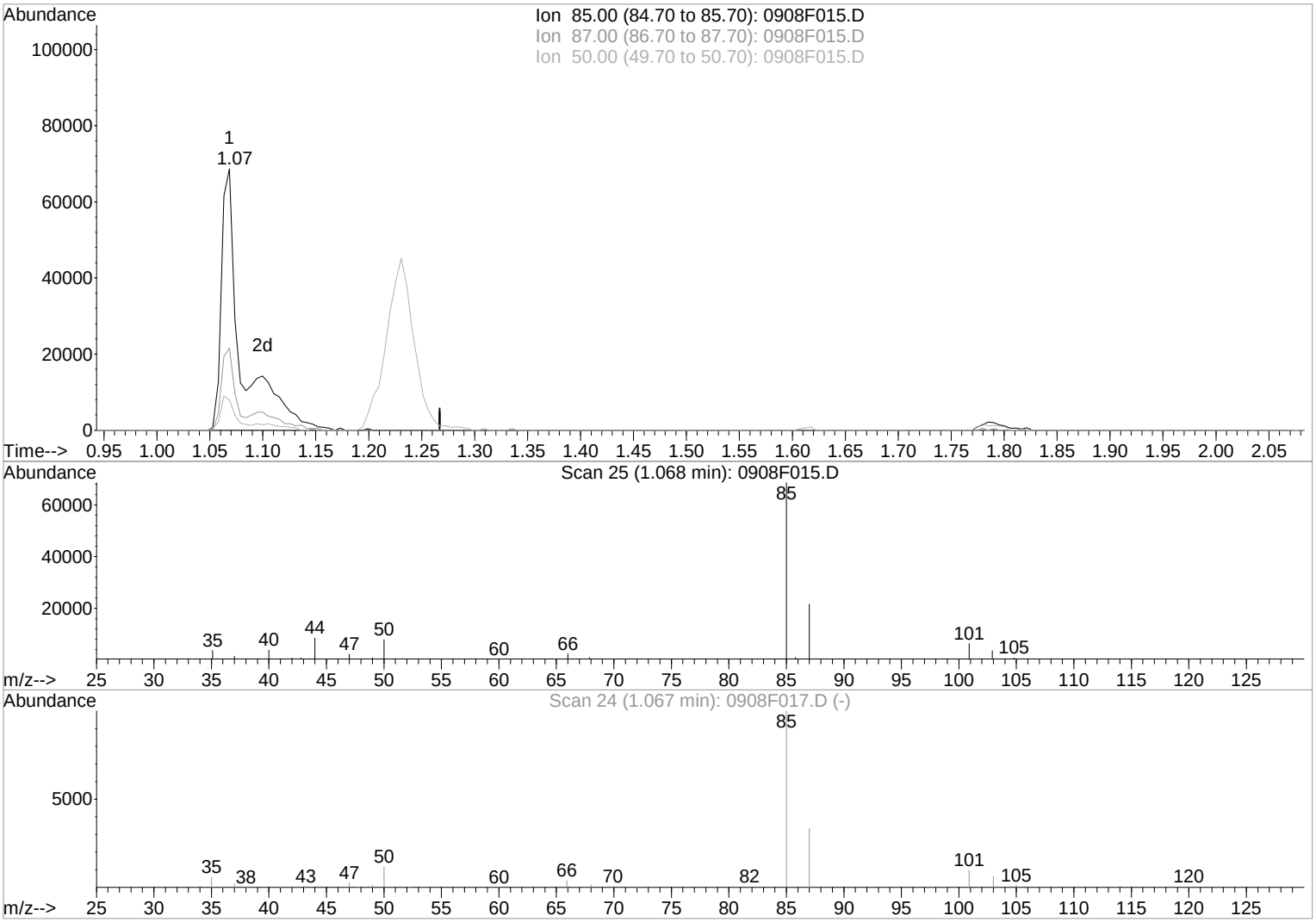
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F015.D Vial: 8
Acq On : 11 Sep 2023 5:02 pm Operator: EW/GH/MK/OT
Sample : ICAL 2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:31 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:30:43 2023
Response via : Multiple Level Calibration



TIC: 0908F015.D

(2) Dichlorodifluoromethane (T)

1.07min 3.04PPB m

response 91041

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	31.50
50.00	11.40	11.53
0.00	0.00	0.00

Manual Integration:

After

Split peak

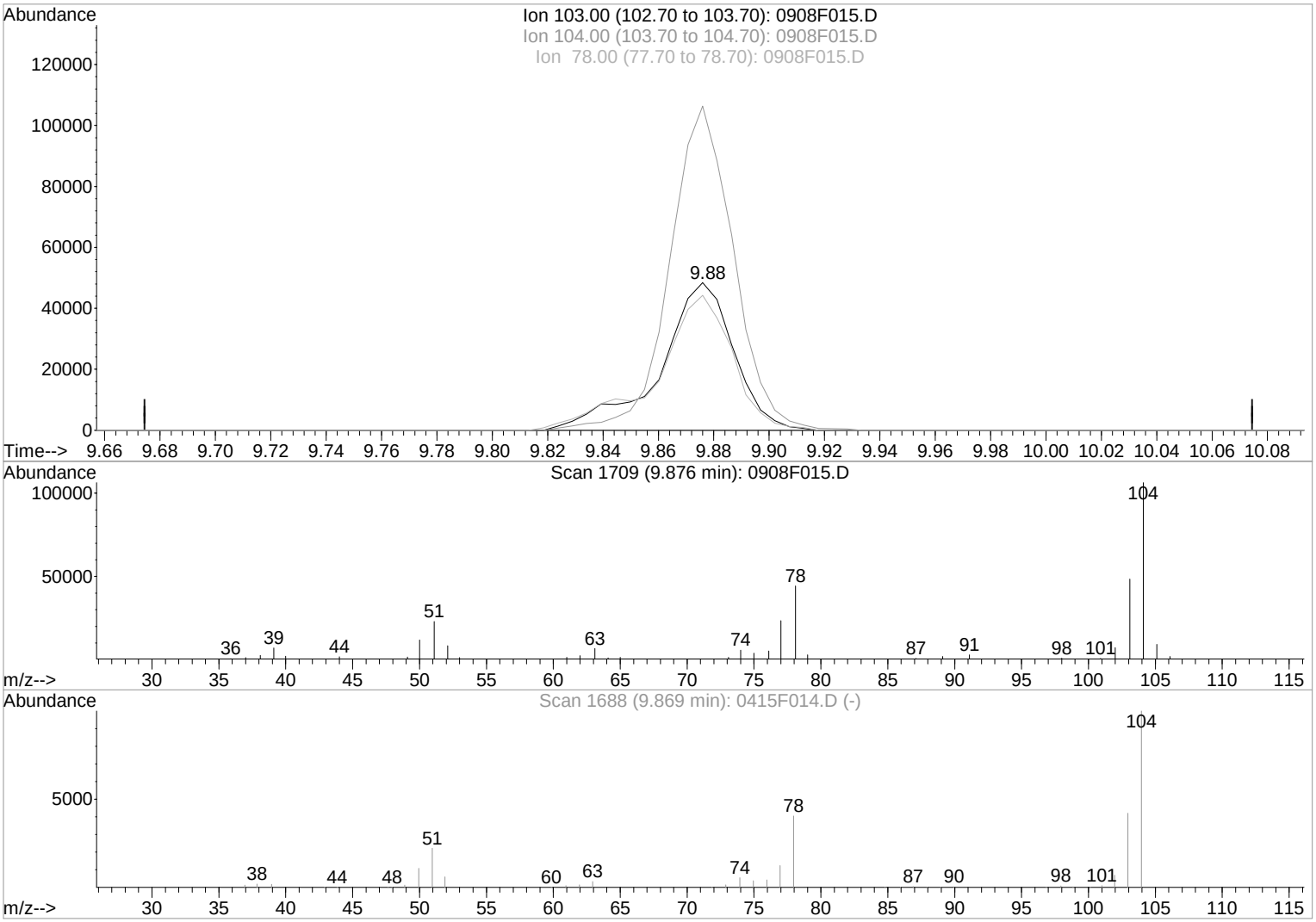
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F015.D Vial: 8
Acq On : 11 Sep 2023 5:02 pm Operator: EW/GH/MK/OT
Sample : ICAL 2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 8:59 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:43:46 2023
Response via : Single Level Calibration



TIC: 0908F015.D

(80) Styrene (T)

9.88min 2.02PPB

response 89047

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	219.80
78.00	87.20	91.45
0.00	0.00	0.00

Manual Integration:

Before

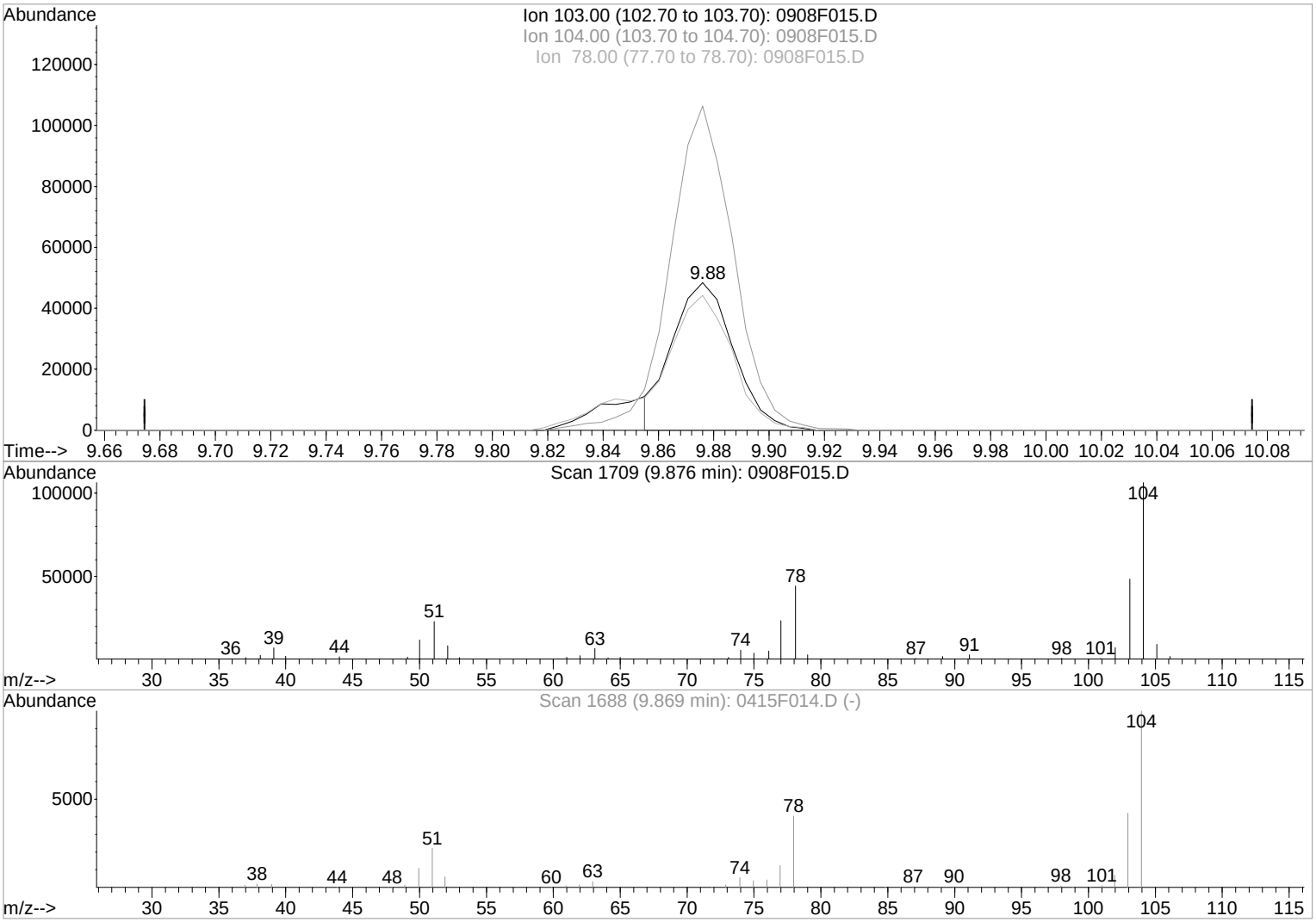
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F015.D Vial: 8
Acq On : 11 Sep 2023 5:02 pm Operator: EW/GH/MK/OT
Sample : ICAL 2 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:45 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:43:46 2023
Response via : Single Level Calibration



TIC: 0908F015.D

(80) Styrene (T)

9.88min 1.68PPB m

response 74286

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	219.80
78.00	87.20	91.45
0.00	0.00	0.00

Manual Integration:

After

Shoulder

09/12/23

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F016.D Vial: 9
Acq On : 11 Sep 2023 5:27 pm Operator: EW/GH/MK/OT
Sample : ICAL 5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:44 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1216364	10.00	PPB		0.00
64) Chlorobenzene-d5	9.17	82	455385	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	350984	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	246342	9.93	PPB		0.00
Spiked Amount 10.000			Recovery = 99.30%				
47) 1,2-Dichloroethane-d4	5.35	65	278249	10.06	PPB		0.00
Spiked Amount 10.000			Recovery = 100.60%				
62) Toluene-d8	7.59	98	1165464	10.07	PPB		0.00
Spiked Amount 10.000			Recovery = 100.70%				
84) 4-Bromofluorobenzene	10.41	95	376055	10.18	PPB		0.00
Spiked Amount 10.000			Recovery = 101.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.06	85	239707m	7.62	PPB		
3) Chloromethane	1.22	50	215933	5.15	PPB		99
4) Vinyl Chloride	1.28	62	227015	5.27	PPB		98
5) Bromomethane	1.54	96	90252	5.18	PPB		98
6) Chloroethane	1.61	64	138721	5.07	PPB		99
7) Dichlorofluoromethane	1.79	67	306308	5.07	PPB		99
8) Trichlorofluoromethane	1.79	101	288277	5.14	PPB		99
9) Ethyl Ether	2.04	59	123979	4.59	PPB		96
10) Acrolein	2.22	56	293853	81.54	PPB		100
11) Trichlorotrifluoroethane	2.21	151	105379	5.07	PPB		95
12) 1,1-Dichloroethene	2.25	96	187356	4.92	PPB		98
14) Iodomethane	2.40	142	808860	19.38	PPB		100
15) Carbon Disulfide	2.43	76	463357	5.05	PPB		98
16) 2-Propanol (Isopropyl Alco	2.49	45	159304	219.32	PPB		98
17) 3-Chloro-1-propene	2.61	76	79744	4.29	PPB		97
18) Methyl Acetate	2.65	43	83095	5.07	PPB		99
19) Acetonitrile	2.70	40	255026	193.49	PPB		97
20) Methylene Chloride	2.76	84	215795	5.05	PPB		97
21) tert-Butyl Alcohol	2.88	59	23715	22.53	PPB		95
22) Acrylonitrile	3.10	53	147512	18.57	PPB		96
23) Methyl tert-Butyl Ether	2.97	73	723659	9.09	PPB		99
24) trans-1,2-Dichloroethene	2.99	96	201616	4.93	PPB		97
25) Hexane	3.20	57	183179	4.94	PPB		99
26) Diisopropyl Ether	3.50	45	533920	4.51	PPB		95
27) 1,1-Dichloroethane	3.50	63	345287m	4.48	PPB		
28) Vinyl Acetate	3.56	86	48425	8.13	PPB	#	84
29) Chloroprene	3.56	53	1068601	19.64	PPB		100
30) tert-Butyl Ethyl Ether	3.93	59	430990	4.45	PPB		99
31) 2,2-Dichloropropane	4.16	77	201071	4.58	PPB		99
32) cis-1,2-Dichloroethene	4.21	96	213262	4.72	PPB		95
33) 2-Butanone	4.27	72	207086	91.84	PPB		91
34) Ethyl Acetate	4.31	61	28799	8.37	PPB		94
35) Propionitrile	4.45	54	54386	19.02	PPB		98
36) Methacrylonitrile	4.59	67	179663	18.41	PPB		96
37) Bromochloromethane	4.52	128	87115	4.75	PPB		99
38) Tetrahydrofuran	4.54	71	14199	5.22	PPB		95
39) Chloroform	4.63	83	311080	4.80	PPB		94
40) tert-Butyl Formate	4.66	59	32166	3.80	PPB		91
41) Cyclohexane	4.76	56	289270	4.83	PPB		95
42) 1,1,1-Trichloroethane	4.80	97	240889	4.78	PPB		98
44) Carbon Tetrachloride	4.96	117	174740	4.75	PPB		98
45) 1,1-Dichloropropene	5.03	75	269545	5.01	PPB		99
46) Isobutyl Alcohol	5.36	43	96596	177.75	PPB		97

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F016.D Vial: 9
Acq On : 11 Sep 2023 5:27 pm Operator: EW/GH/MK/OT
Sample : ICAL 5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:44 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

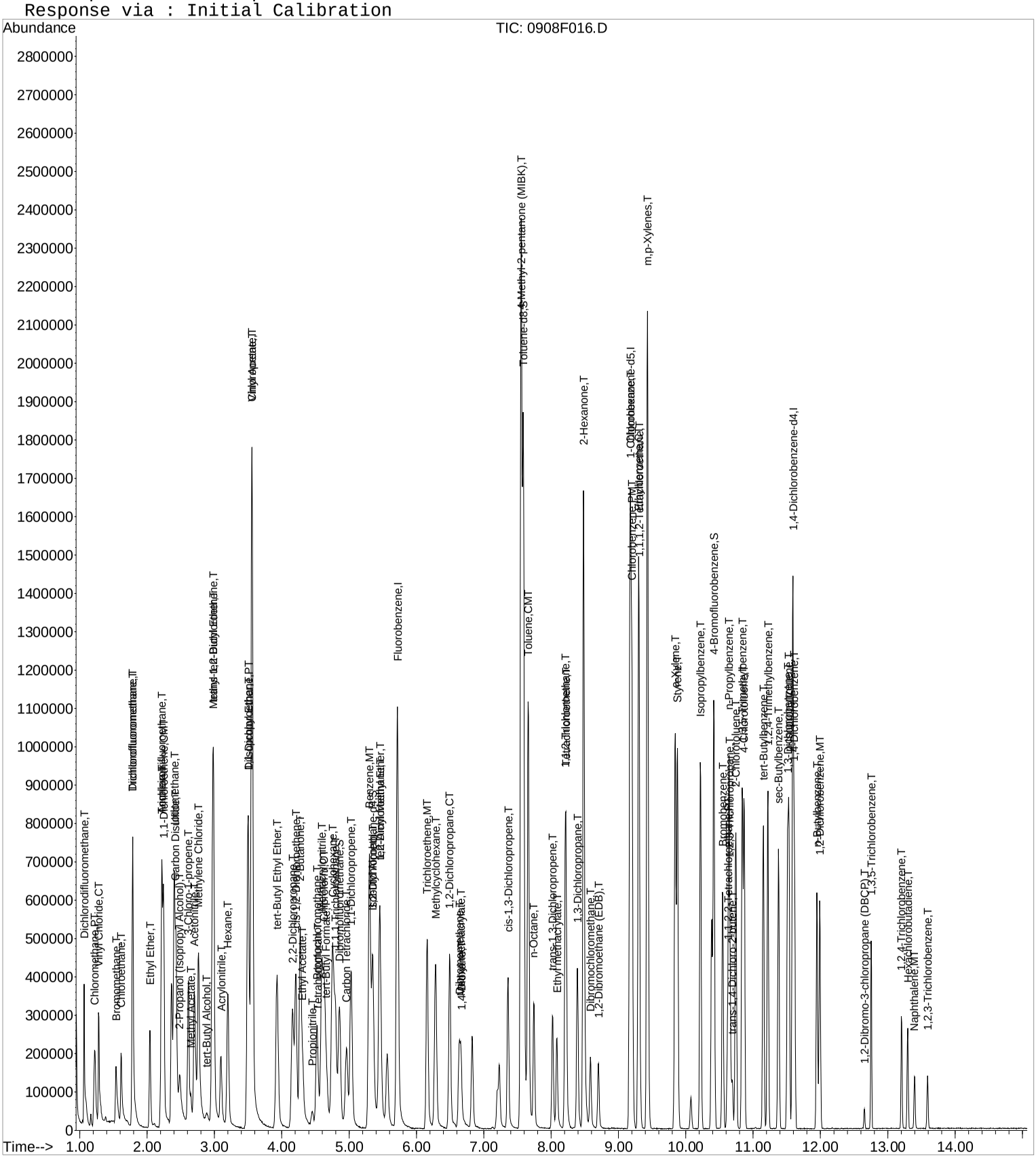
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Benzene	5.30	78	841045	4.83	PPB		100
49)	1,2-Dichloroethane	5.45	62	223743	4.80	PPB		97
50)	tert-Amyl Methyl Ether	5.46	55	121327	4.70	PPB	#	85
51)	Trichloroethene	6.16	95	192362	4.94	PPB		98
52)	Methylcyclohexane	6.28	83	212320	4.88	PPB		97
53)	1,2-Dichloropropane	6.49	63	198113	4.69	PPB		96
54)	Dibromomethane	6.63	93	86978	4.70	PPB		98
55)	Methyl methacrylate	6.66	69	71686	4.42	PPB		94
56)	1,4-Dioxane	6.67	88	39497	241.46	PPB		94
60)	cis-1,3-Dichloropropene	7.36	75	231487	4.19	PPB		97
61)	4-Methyl-2-pentanone (MIBK	7.55	58	699902	90.34	PPB		98
63)	Toluene	7.66	92	511398	4.90	PPB		99
65)	n-Octane	7.75	85	70624	4.72	PPB		99
66)	trans-1,3-Dichloropropene	8.02	75	160042	4.12	PPB		97
67)	Ethyl methacrylate	8.09	69	131214	4.43	PPB		95
68)	1,1,2-Trichloroethane	8.21	83	116621	4.90	PPB		98
69)	Tetrachloroethene	8.22	164	140135	5.16	PPB		98
70)	2-Hexanone	8.48	57	224013	91.04	PPB		96
71)	1,3-Dichloropropane	8.39	76	246651	4.66	PPB		99
72)	Dibromochloromethane	8.58	129	96841	4.30	PPB		98
73)	1,2-Dibromoethane (EDB)	8.70	107	118782	4.70	PPB		99
74)	1-Chlorohexane	9.19	91	165977	4.90	PPB		94
75)	Chlorobenzene	9.20	112	484831	4.90	PPB		99
76)	Ethylbenzene	9.30	106	255031	4.98	PPB		99
77)	1,1,1,2-Tetrachloroethane	9.31	131	120697	4.53	PPB		96
78)	m,p-Xylenes	9.43	106	610004	9.84	PPB		98
79)	o-Xylene	9.84	106	290386	4.87	PPB		96
80)	Styrene	9.88	103	222778m	4.76	PPB		
82)	Isopropylbenzene	10.22	105	632321	4.85	PPB		98
86)	1,1,2,2-Tetrachloroethane	10.62	83	111382	4.54	PPB		98
87)	trans-1,4-Dichloro-2-buten	10.69	53	28024	4.38	PPB		95
88)	Bromobenzene	10.55	156	165826	4.81	PPB		96
89)	n-Propylbenzene	10.64	91	683223	4.85	PPB		97
90)	1,2,3-Trichloropropane	10.66	110	36308	4.60	PPB		93
91)	2-Chlorotoluene	10.74	91	442808	4.81	PPB		98
92)	1,3,5-Trimethylbenzene	10.84	105	472889	4.78	PPB		97
93)	4-Chlorotoluene	10.86	91	519415	4.80	PPB		98
94)	tert-Butylbenzene	11.15	119	380472	4.83	PPB		98
95)	1,2,4-Trimethylbenzene	11.22	105	473023	4.66	PPB		99
96)	sec-Butylbenzene	11.38	105	481306	4.84	PPB		99
97)	p-Isopropyltoluene	11.53	119	415964	4.71	PPB		97
98)	1,3-Dichlorobenzene	11.51	146	261370	4.80	PPB		96
99)	1,4-Dichlorobenzene	11.61	146	266872	4.77	PPB		100
100)	n-Butylbenzene	11.95	91	314400	4.57	PPB		99
101)	1,2-Dichlorobenzene	11.99	146	227632	4.75	PPB		100
102)	1,2-Dibromo-3-chloropropan	12.66	155	6747	4.49	PPB		95
103)	1,3,5-Trichlorobenzene	12.75	180	103215	4.57	PPB		98
104)	1,2,4-Trichlorobenzene	13.21	180	68285	4.49	PPB		99
105)	Hexachlorobutadiene	13.30	225	40685	4.44	PPB		96
106)	Naphthalene	13.40	128	90105	4.24	PPB		99
107)	1,2,3-Trichlorobenzene	13.59	180	35121	4.53	PPB		98

(#) = qualifier out of range (m) = manual integration

Data File : J:\MS23\DATA\091123\0908F016.D Vial: 9
Acq On : 11 Sep 2023 5:27 pm Operator: EW/GH/MK/OT
Sample : ICAL 5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:32 2023 Quant Results File: 091123MS23_8260.RES

09/12/23
09/18/23
1st
2nd

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration

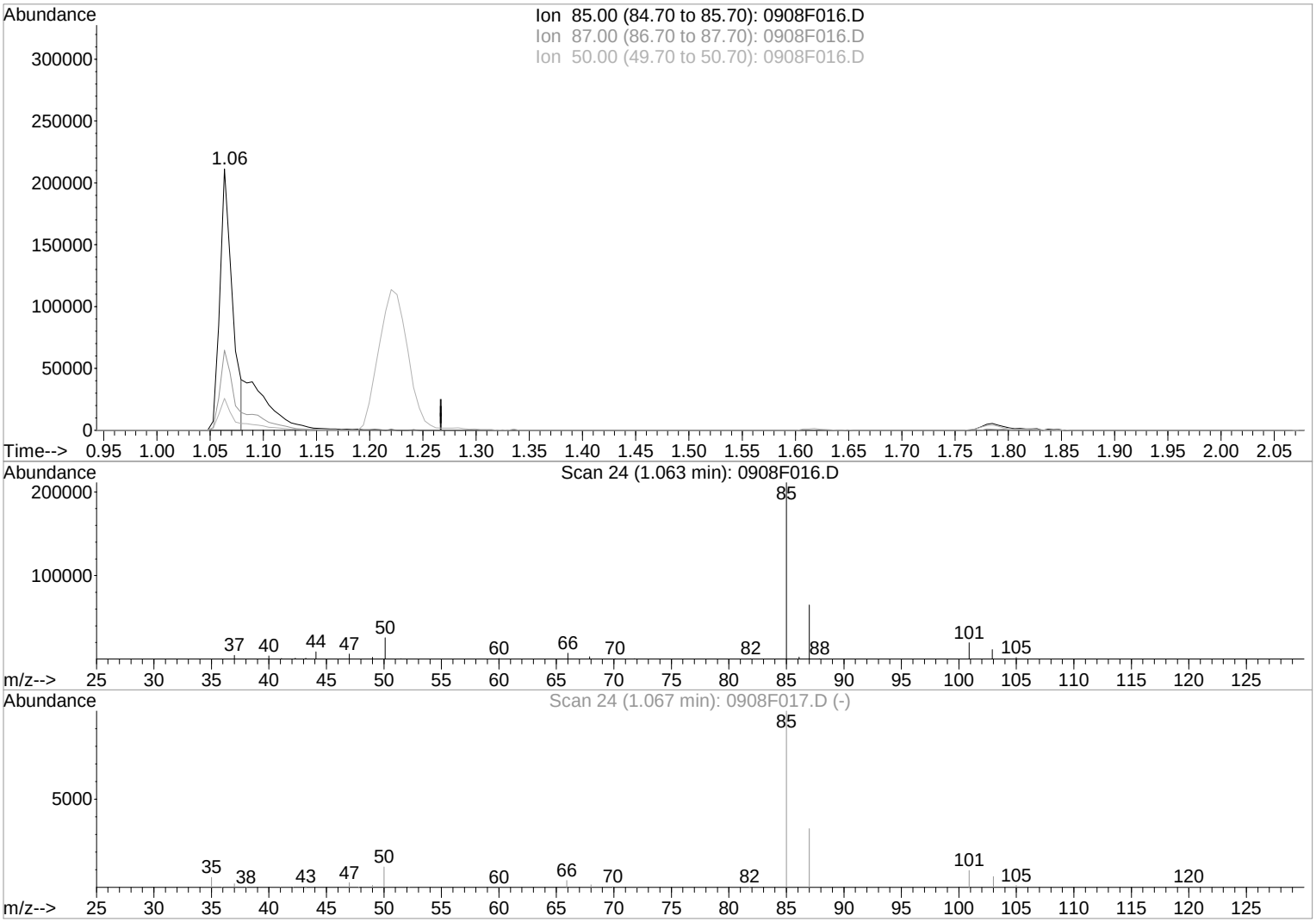


Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F016.D Vial: 9
Acq On : 11 Sep 2023 5:27 pm Operator: EW/GH/MK/OT
Sample : ICAL 5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:47 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:31:34 2023
Response via : Multiple Level Calibration



TIC: 0908F016.D

(2) Dichlorodifluoromethane (T)

1.06min 5.46PPB m

response 171800

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	30.68
50.00	11.40	12.13
0.00	0.00	0.00

Manual Integration:

Before

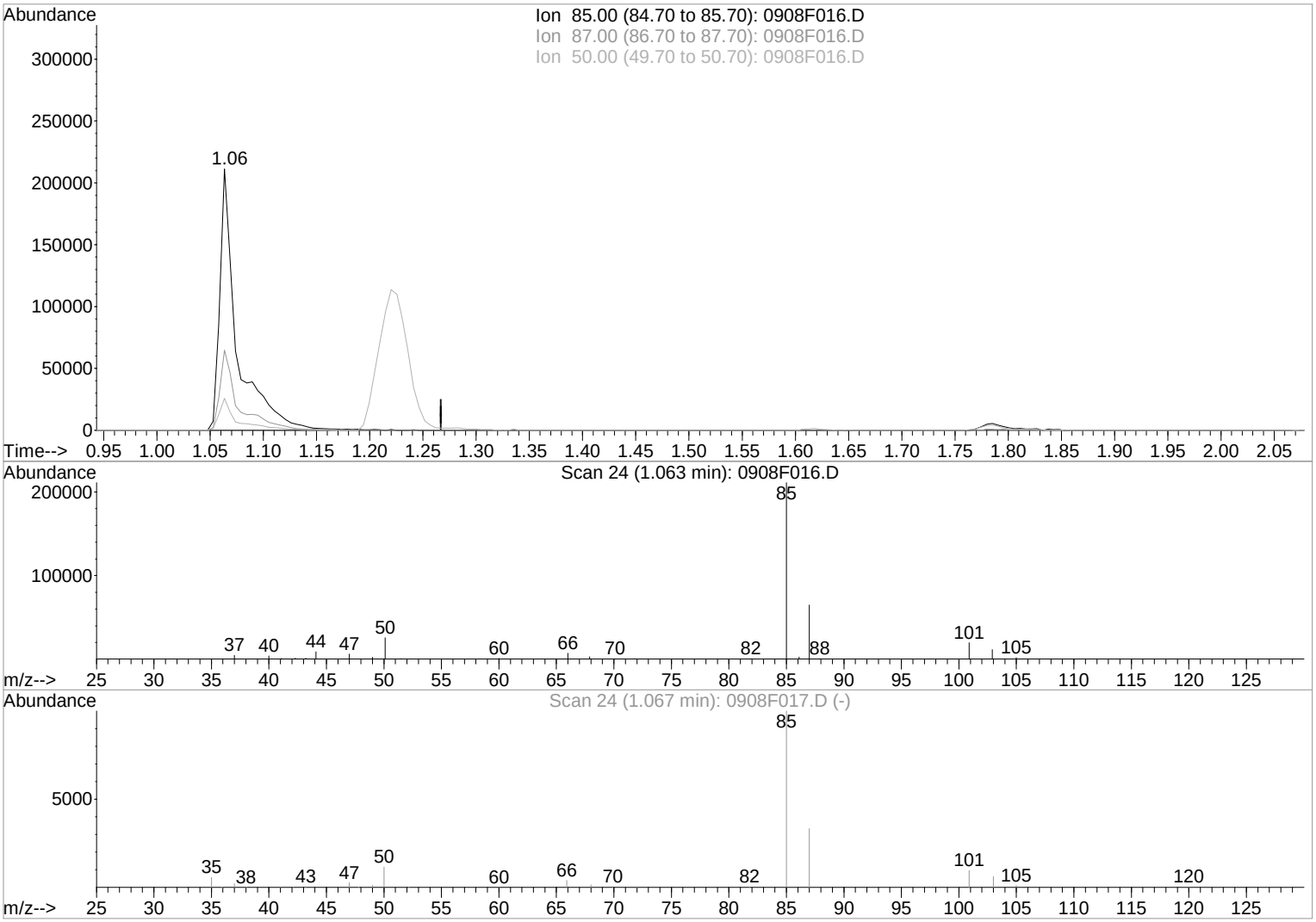
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F016.D Vial: 9
Acq On : 11 Sep 2023 5:27 pm Operator: EW/GH/MK/OT
Sample : ICAL 5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:31 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:31:34 2023
Response via : Multiple Level Calibration



TIC: 0908F016.D

(2) Dichlorodifluoromethane (T)

1.06min 7.62PPB m

response 239707

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	30.68
50.00	11.40	12.13
0.00	0.00	0.00

Manual Integration:

After

Split peak

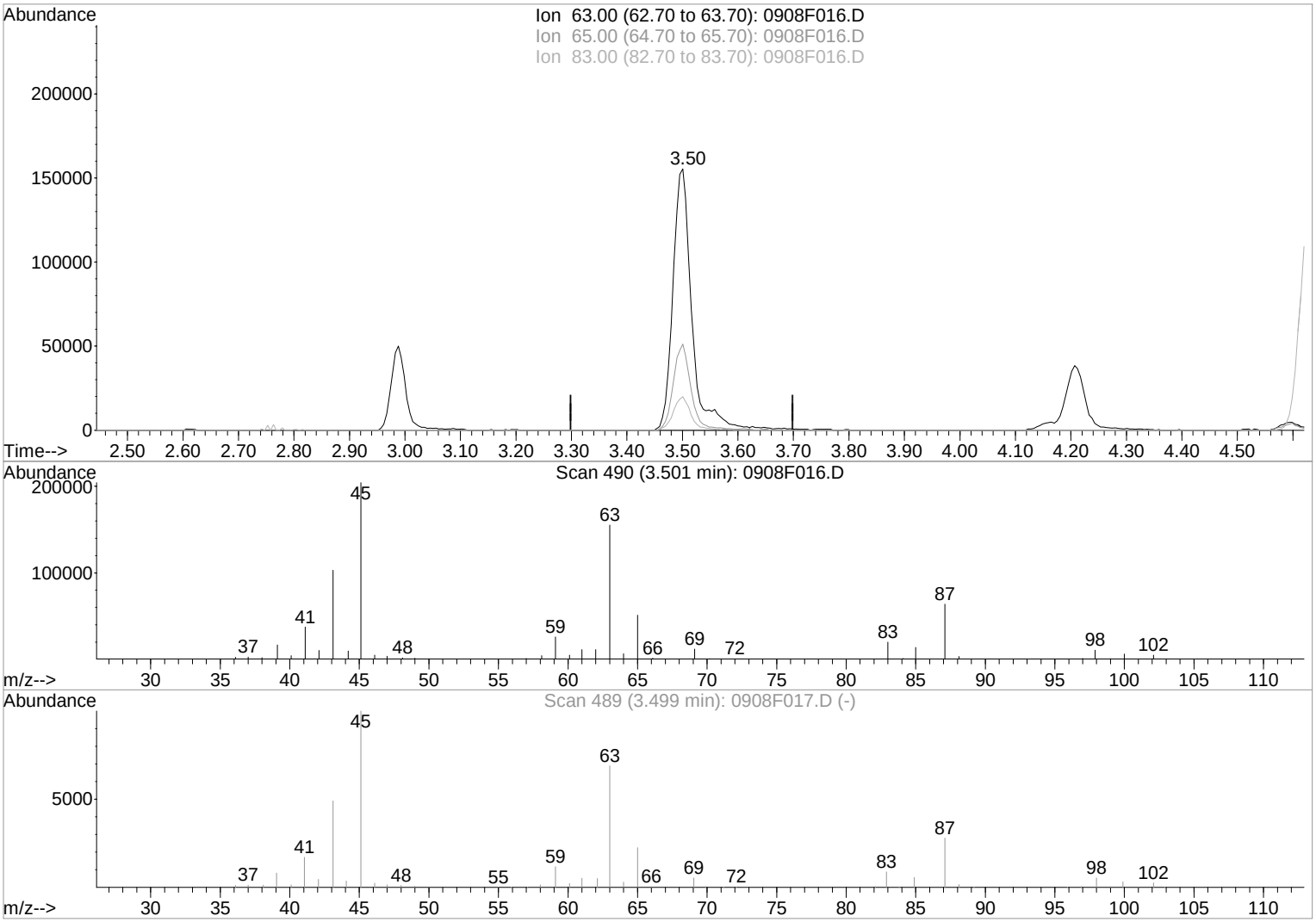
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F016.D Vial: 9
Acq On : 11 Sep 2023 5:27 pm Operator: EW/GH/MK/OT
Sample : ICAL 5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:31 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:31:34 2023
Response via : Multiple Level Calibration



TIC: 0908F016.D

(27) 1,1-Dichloroethane (PT)

3.50min 4.78PPB

response 368354

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.94
83.00	12.70	12.79
0.00	0.00	0.00

Manual Integration:

Before

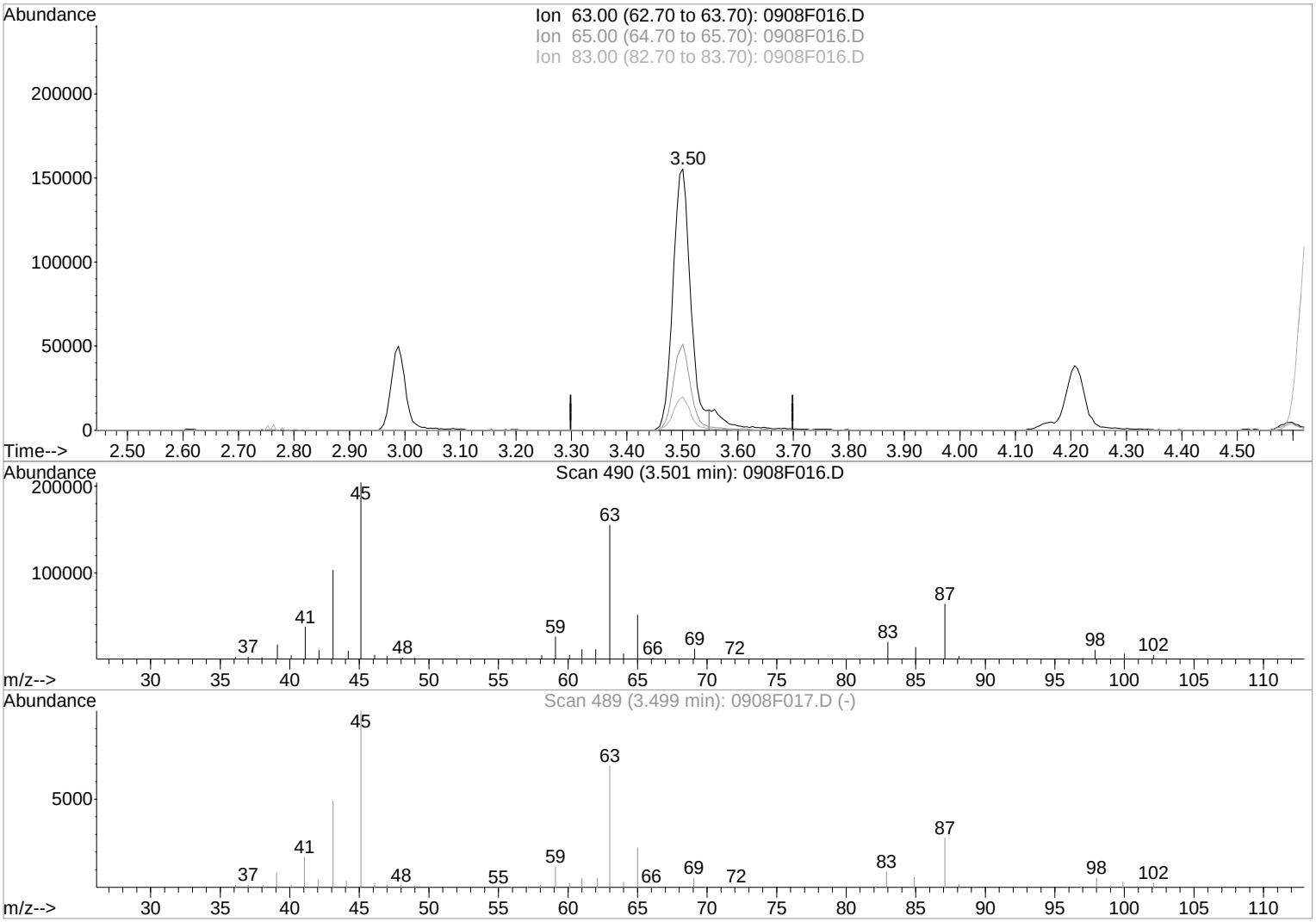
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F016.D Vial: 9
Acq On : 11 Sep 2023 5:27 pm Operator: EW/GH/MK/OT
Sample : ICAL 5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:32 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:31:34 2023
Response via : Multiple Level Calibration



TIC: 0908F016.D

(27) 1,1-Dichloroethane (PT)

3.50min 4.48PPB m

response 345287

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.94
83.00	12.70	12.79
0.00	0.00	0.00

Manual Integration:

After

Shoulder

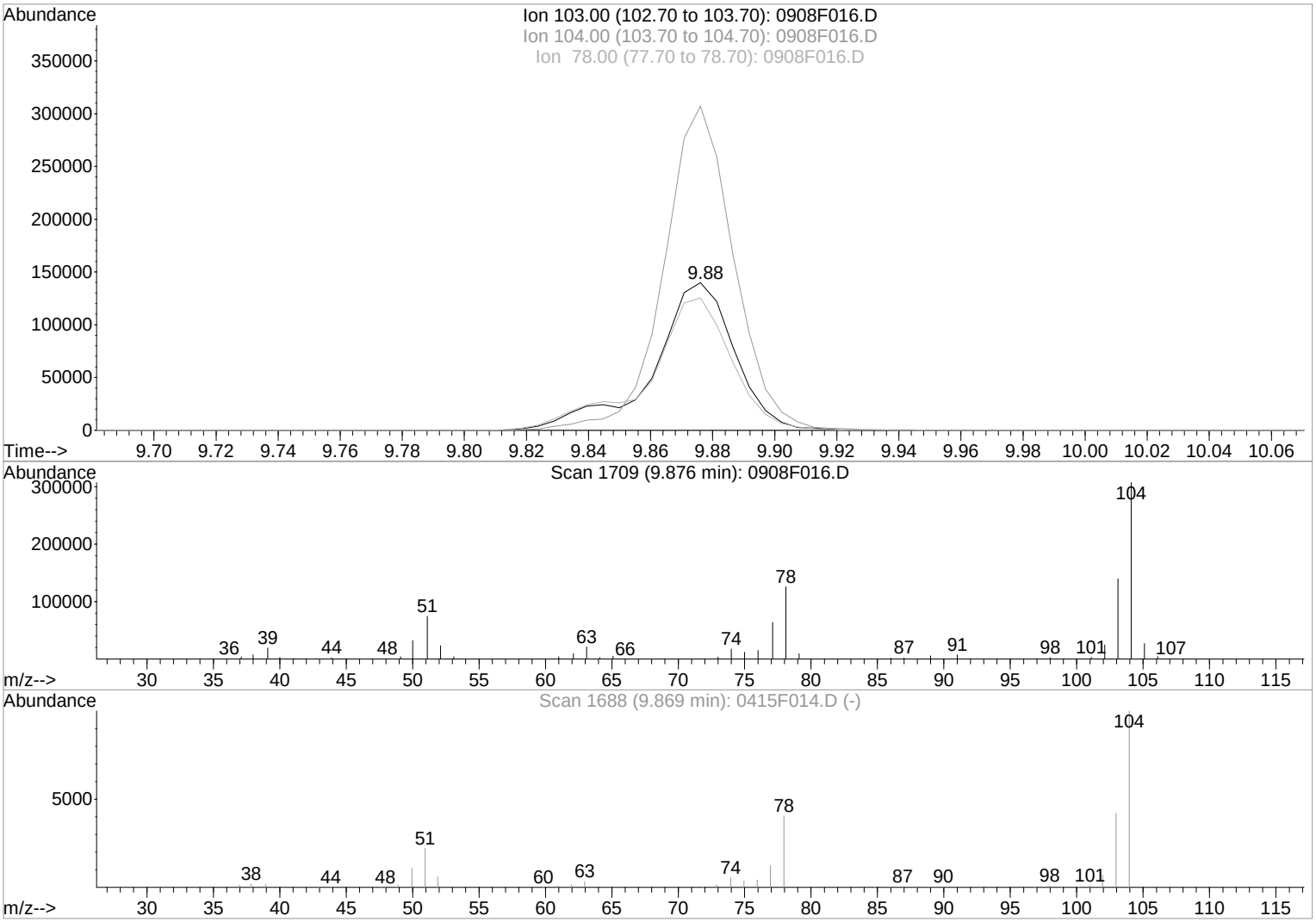
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F016.D Vial: 9
Acq On : 11 Sep 2023 5:27 pm Operator: EW/GH/MK/OT
Sample : ICAL 5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:46 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:46:19 2023
Response via : Single Level Calibration



TIC: 0908F016.D

(80) Styrene (T)

9.88min 5.42PPB

response 253715

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	219.68
78.00	87.20	89.81
0.00	0.00	0.00

Manual Integration:

Before

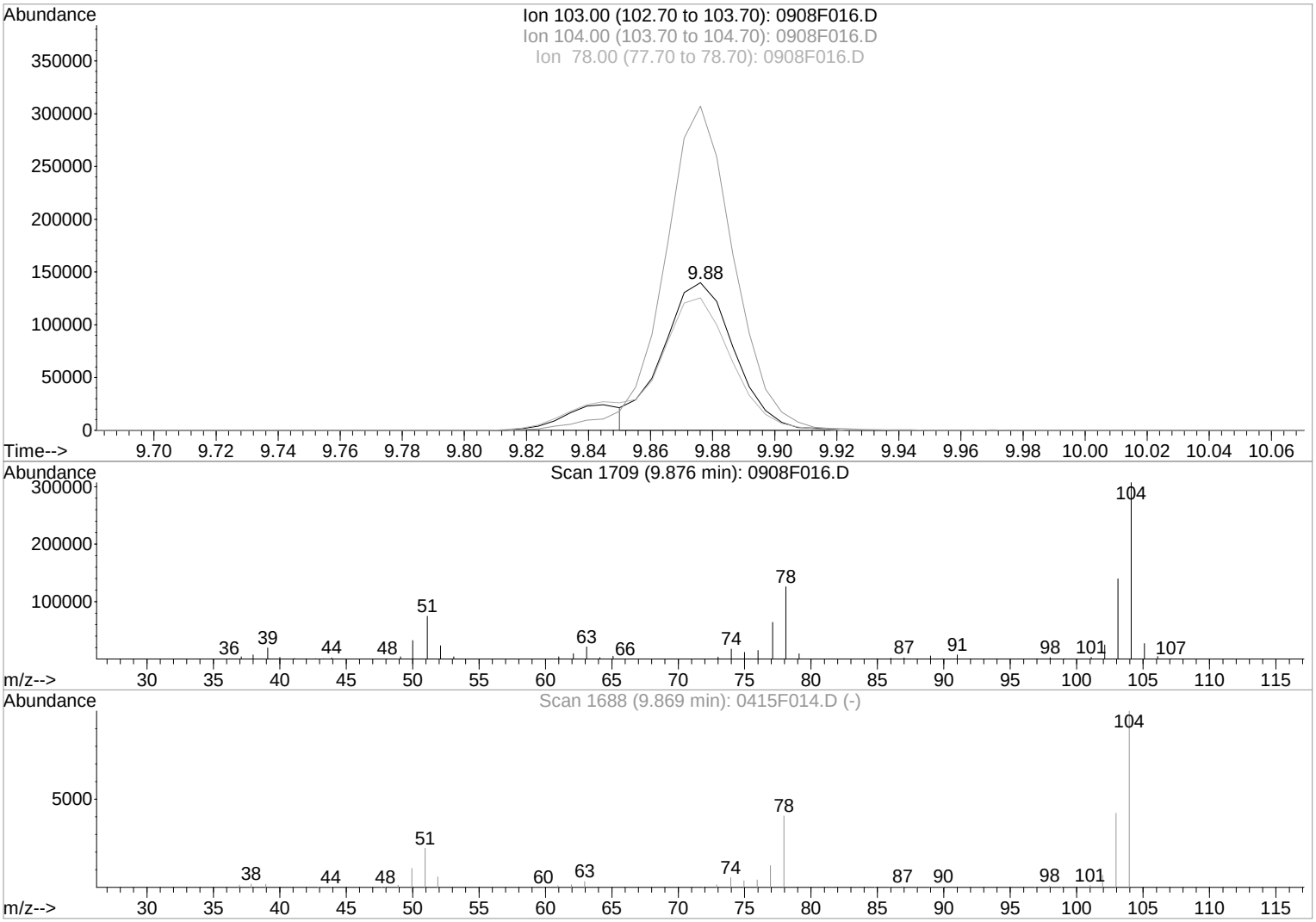
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F016.D Vial: 9
Acq On : 11 Sep 2023 5:27 pm Operator: EW/GH/MK/OT
Sample : ICAL 5 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:47 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:46:19 2023
Response via : Single Level Calibration



TIC: 0908F016.D

(80) Styrene (T)

9.88min 4.76PPB m

response 222778

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	219.68
78.00	87.20	89.81
0.00	0.00	0.00

Manual Integration:

After

Shoulder

09/12/23

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F017.D Vial: 10
Acq On : 11 Sep 2023 5:51 pm Operator: EW/GH/MK/OT
Sample : ICAL 10 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:00 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.72	96	1167762	10.00	PPB	0.00
64) Chlorobenzene-d5	9.17	82	440732	10.00	PPB	0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	335926	10.00	PPB	0.00
System Monitoring Compounds						
43) Dibromofluoromethane	4.85	113	238488	10.02	PPB	0.00
Spiked Amount 10.000			Recovery =	100.20%		
47) 1,2-Dichloroethane-d4	5.35	65	266020	10.02	PPB	0.00
Spiked Amount 10.000			Recovery =	100.20%		
62) Toluene-d8	7.59	98	1112482	10.02	PPB	0.00
Spiked Amount 10.000			Recovery =	100.20%		
84) 4-Bromofluorobenzene	10.42	95	357472	10.00	PPB	0.00
Spiked Amount 10.000			Recovery =	100.00%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.07	85	429967m	14.23	PPB	
3) Chloromethane	1.23	50	403425	10.02	PPB	100
4) Vinyl Chloride	1.28	62	414089	10.02	PPB	100
5) Bromomethane	1.54	96	167571	10.02	PPB	100
6) Chloroethane	1.62	64	263160	10.02	PPB	100
7) Dichlorofluoromethane	1.78	67	581049	10.02	PPB	100
8) Trichlorofluoromethane	1.79	101	539342	10.02	PPB	100
9) Ethyl Ether	2.04	59	260003	10.02	PPB	100
10) Acrolein	2.22	56	693158	200.34	PPB	100
11) Trichlorotrifluoroethane	2.22	151	200034	10.02	PPB	100
12) 1,1-Dichloroethene	2.24	96	365783	10.00	PPB	100
14) Iodomethane	2.41	142	1605809	40.07	PPB	100
15) Carbon Disulfide	2.43	76	883123	10.02	PPB	100
16) 2-Propanol (Isopropyl Alco	2.48	45	349252	500.85	PPB	100
17) 3-Chloro-1-propene	2.62	76	178560	10.02	PPB	100
18) Methyl Acetate	2.65	43	157694	10.02	PPB	100
19) Acetonitrile	2.70	40	506996	400.68	PPB	100
20) Methylene Chloride	2.77	84	410748	10.02	PPB	100
21) tert-Butyl Alcohol	2.89	59	50618	50.08	PPB	100
22) Acrylonitrile	3.10	53	305533	40.07	PPB	100
23) Methyl tert-Butyl Ether	2.97	73	1531191	20.03	PPB	100
24) trans-1,2-Dichloroethene	2.99	96	393560	10.02	PPB	100
25) Hexane	3.20	57	356941	10.02	PPB	100
26) Diisopropyl Ether	3.50	45	1137746	10.02	PPB	100
27) 1,1-Dichloroethane	3.50	63	684747m	9.26	PPB	
28) Vinyl Acetate	3.56	86	114593	20.03	PPB	100
29) Chloroprene	3.56	53	2092649	40.07	PPB	100
30) tert-Butyl Ethyl Ether	3.93	59	930454	10.02	PPB	100
31) 2,2-Dichloropropane	4.16	77	421826	10.02	PPB	100
32) cis-1,2-Dichloroethene	4.21	96	434496	10.02	PPB	100
33) 2-Butanone	4.27	72	433682	200.34	PPB	100
34) Ethyl Acetate	4.31	61	66204	20.03	PPB	100
35) Propionitrile	4.45	54	109972	40.07	PPB	100
36) Methacrylonitrile	4.60	67	375388	40.07	PPB	100
37) Bromochloromethane	4.52	128	176335	10.02	PPB	100
38) Tetrahydrofuran	4.54	71	26170	10.02	PPB	100
39) Chloroform	4.63	83	622763	10.02	PPB	100
40) tert-Butyl Formate	4.67	59	81500	10.02	PPB	100
41) Cyclohexane	4.75	56	576034	10.02	PPB	100
42) 1,1,1-Trichloroethane	4.80	97	485064	10.02	PPB	100
44) Carbon Tetrachloride	4.96	117	354117	10.02	PPB	100
45) 1,1-Dichloropropene	5.03	75	517432	10.02	PPB	100
46) Isobutyl Alcohol	5.36	43	209049	400.68	PPB	100

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F017.D Vial: 10
Acq On : 11 Sep 2023 5:51 pm Operator: EW/GH/MK/OT
Sample : ICAL 10 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:00 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48)	Benzene	5.30	78	1676056	10.02	PPB	100
49)	1,2-Dichloroethane	5.46	62	448369	10.02	PPB	100
50)	tert-Amyl Methyl Ether	5.46	55	248056	10.02	PPB	100
51)	Trichloroethene	6.16	95	374397	10.02	PPB	100
52)	Methylcyclohexane	6.28	83	418020	10.02	PPB	100
53)	1,2-Dichloropropane	6.50	63	406624	10.02	PPB	100
54)	Dibromomethane	6.64	93	178076	10.02	PPB	100
55)	Methyl methacrylate	6.66	69	155967	10.02	PPB	100
56)	1,4-Dioxane	6.66	88	62922	400.68	PPB	100
60)	cis-1,3-Dichloropropene	7.36	75	531315	10.02	PPB	100
61)	4-Methyl-2-pentanone (MIBK	7.56	58	1490157	200.34	PPB	100
63)	Toluene	7.66	92	1003759	10.02	PPB	100
65)	n-Octane	7.75	85	144879	10.00	PPB	100
66)	trans-1,3-Dichloropropene	8.02	75	376284	10.00	PPB	100
67)	Ethyl methacrylate	8.09	69	286723	10.00	PPB	100
68)	1,1,2-Trichloroethane	8.21	83	230510	10.00	PPB	100
69)	Tetrachloroethene	8.22	164	262936	10.00	PPB	100
70)	2-Hexanone	8.48	57	476260	200.00	PPB	100
71)	1,3-Dichloropropane	8.39	76	511908	10.00	PPB	100
72)	Dibromochloromethane	8.59	129	218153	10.00	PPB	100
73)	1,2-Dibromoethane (EDB)	8.70	107	244685	10.00	PPB	100
74)	1-Chlorohexane	9.19	91	327820	10.00	PPB	100
75)	Chlorobenzene	9.20	112	957520	10.00	PPB	100
76)	Ethylbenzene	9.30	106	495922	10.00	PPB	100
77)	1,1,1,2-Tetrachloroethane	9.31	131	258052	10.00	PPB	100
78)	m,p-Xylenes	9.43	106	1199511	20.00	PPB	100
79)	o-Xylene	9.84	106	577076	10.00	PPB	100
80)	Styrene	9.87	103	453363m	10.00	PPB	
82)	Isopropylbenzene	10.22	105	1261396	10.00	PPB	100
86)	1,1,2,2-Tetrachloroethane	10.62	83	234873	10.00	PPB	100
87)	trans-1,4-Dichloro-2-buten	10.69	53	61222	10.00	PPB	100
88)	Bromobenzene	10.55	156	330264	10.00	PPB	100
89)	n-Propylbenzene	10.64	91	1349455	10.00	PPB	100
90)	1,2,3-Trichloropropane	10.66	110	75489	10.00	PPB	100
91)	2-Chlorotoluene	10.74	91	880709	10.00	PPB	100
92)	1,3,5-Trimethylbenzene	10.84	105	946482	10.00	PPB	100
93)	4-Chlorotoluene	10.87	91	1035712	10.00	PPB	100
94)	tert-Butylbenzene	11.15	119	753157	10.00	PPB	100
95)	1,2,4-Trimethylbenzene	11.22	105	970633	10.00	PPB	100
96)	sec-Butylbenzene	11.38	105	951881	10.00	PPB	100
97)	p-Isopropyltoluene	11.53	119	845964	10.00	PPB	100
98)	1,3-Dichlorobenzene	11.51	146	521058	10.00	PPB	100
99)	1,4-Dichlorobenzene	11.62	146	535074	10.00	PPB	100
100)	n-Butylbenzene	11.95	91	658715	10.00	PPB	100
101)	1,2-Dichlorobenzene	11.99	146	458926	10.00	PPB	100
102)	1,2-Dibromo-3-chloropropan	12.66	155	14368	10.00	PPB	100
103)	1,3,5-Trichlorobenzene	12.76	180	216102	10.00	PPB	100
104)	1,2,4-Trichlorobenzene	13.21	180	145702	10.00	PPB	100
105)	Hexachlorobutadiene	13.30	225	87691	10.00	PPB	100
106)	Naphthalene	13.40	128	203501	10.00	PPB	100
107)	1,2,3-Trichlorobenzene	13.59	180	74210	10.00	PPB	100

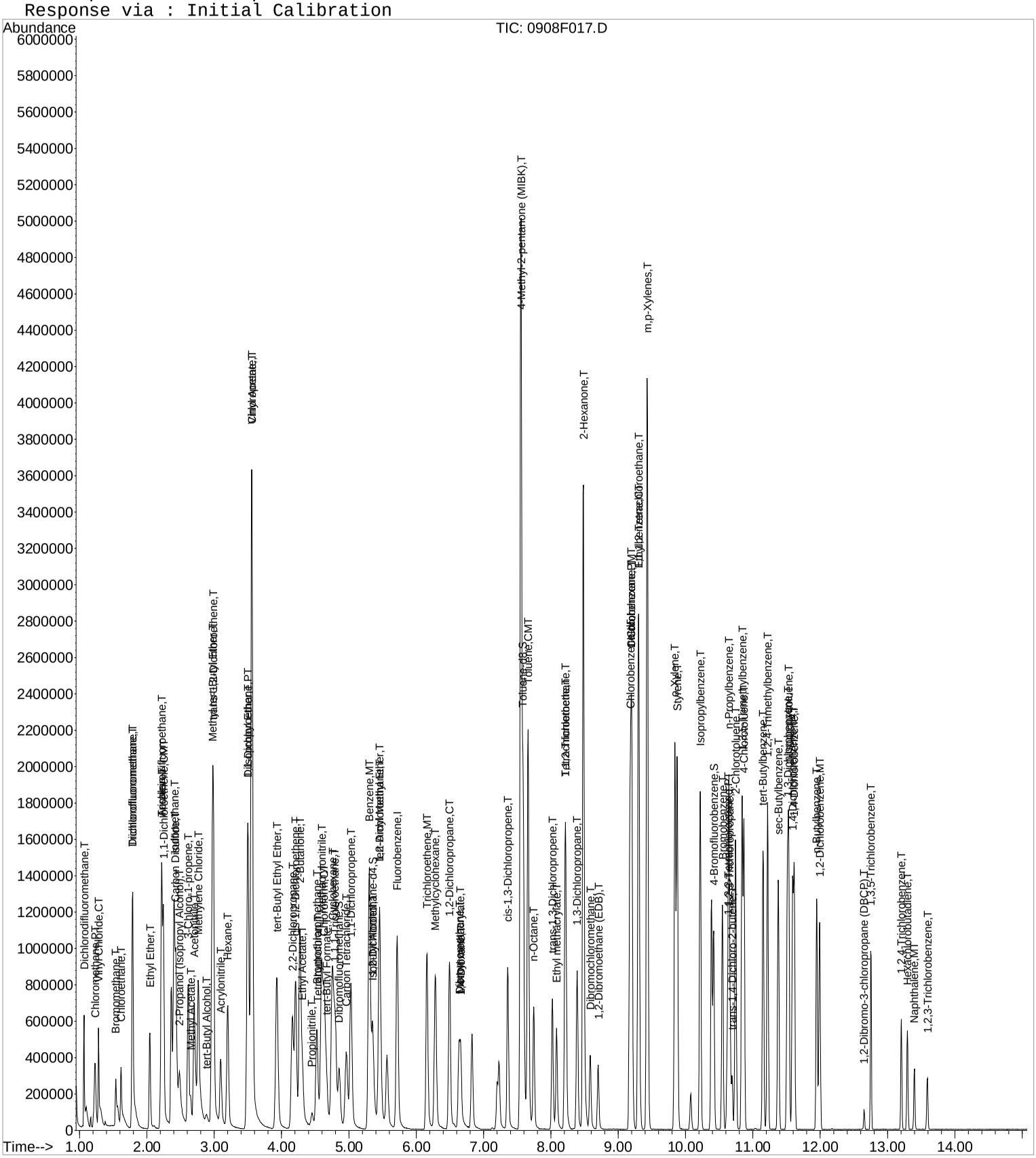
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\091123\0908F017.D Vial: 10
Acq On : 11 Sep 2023 5:51 pm Operator: EW/GH/MK/OT
Sample : ICAL 10 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:33 2023 Quant Results File: 091123MS23_8260.RES

09/12/23
09/18/23
1st
2nd

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration

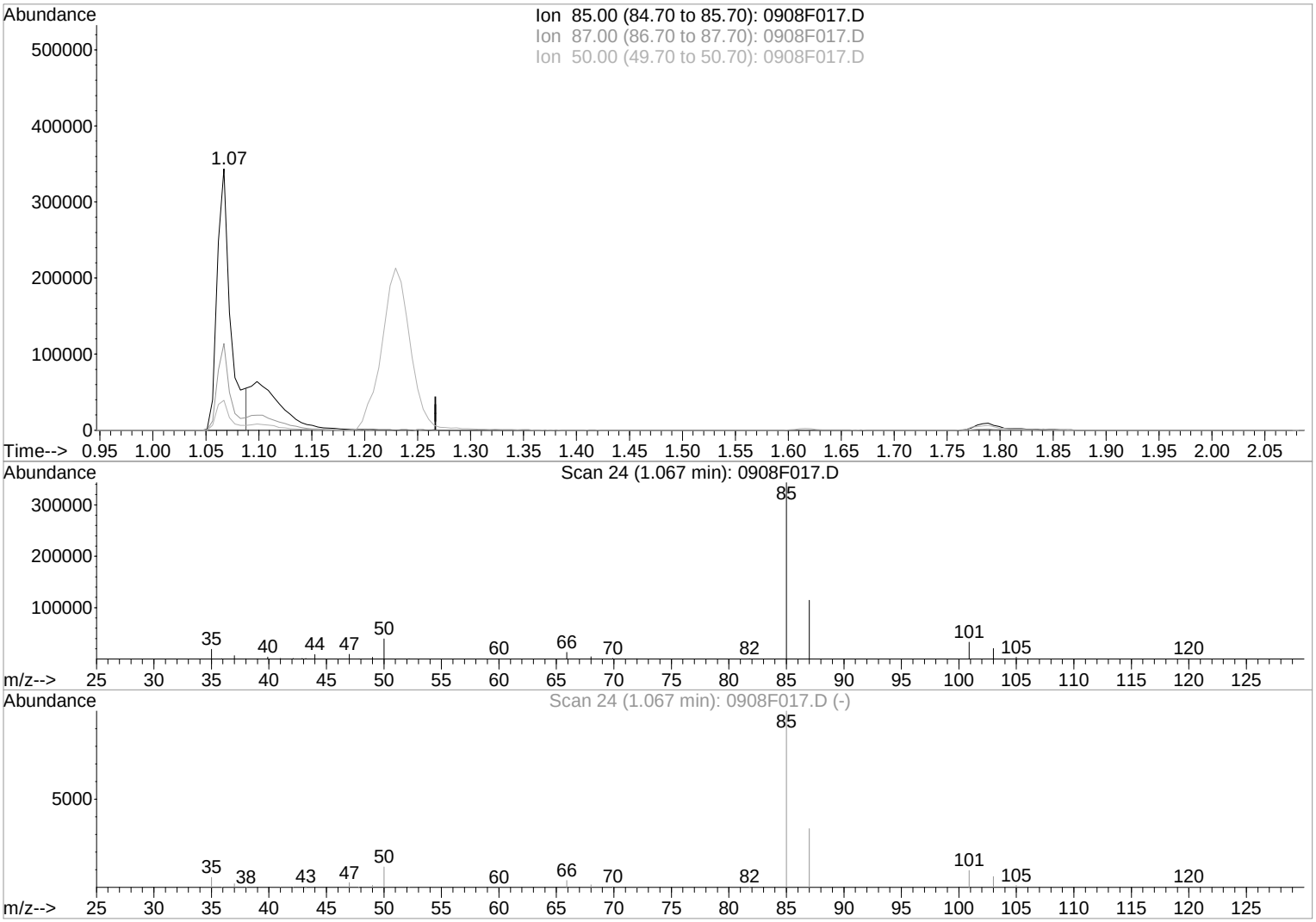


Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F017.D Vial: 10
Acq On : 11 Sep 2023 5:51 pm Operator: EW/GH/MK/OT
Sample : ICAL 10 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 8:59 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:32:31 2023
Response via : Multiple Level Calibration



TIC: 0908F017.D

(2) Dichlorodifluoromethane (T)

1.07min 10.02PPB

response 302656

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	33.22
50.00	11.40	11.42
0.00	0.00	0.00

Manual Integration:

Before

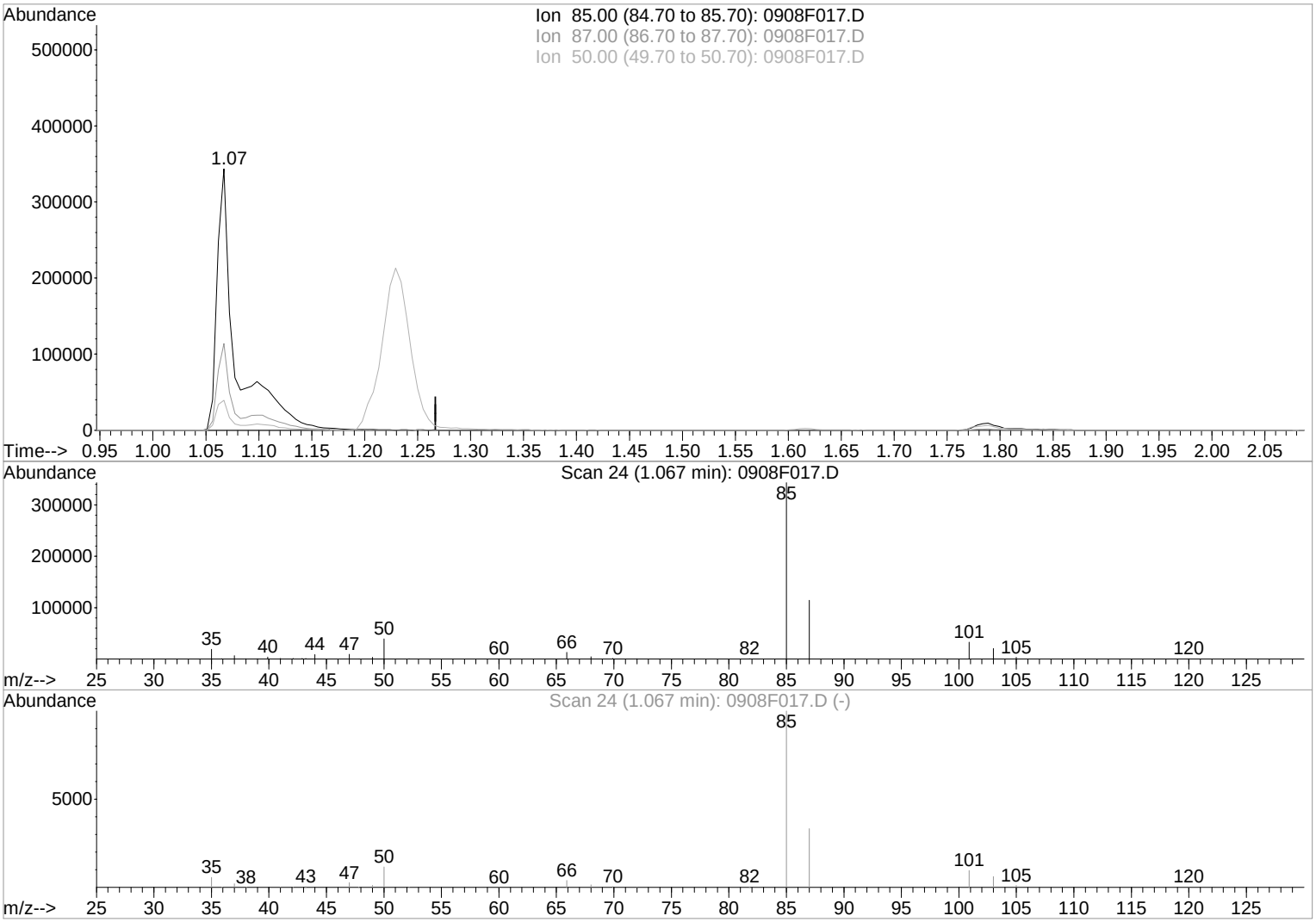
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F017.D Vial: 10
Acq On : 11 Sep 2023 5:51 pm Operator: EW/GH/MK/OT
Sample : ICAL 10 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:32 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:32:31 2023
Response via : Multiple Level Calibration



TIC: 0908F017.D

(2) Dichlorodifluoromethane (T)

1.07min 14.23PPB m

response 429967

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	33.22
50.00	11.40	11.42
0.00	0.00	0.00

Manual Integration:

After

Split peak

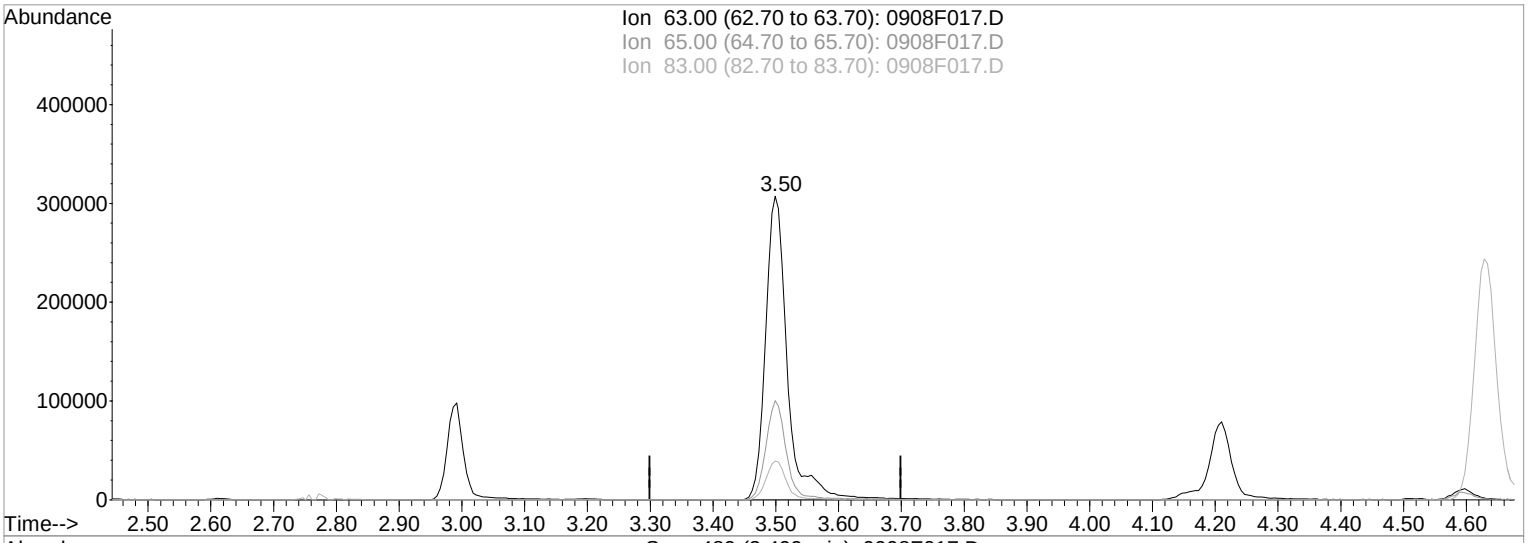
09/15/23

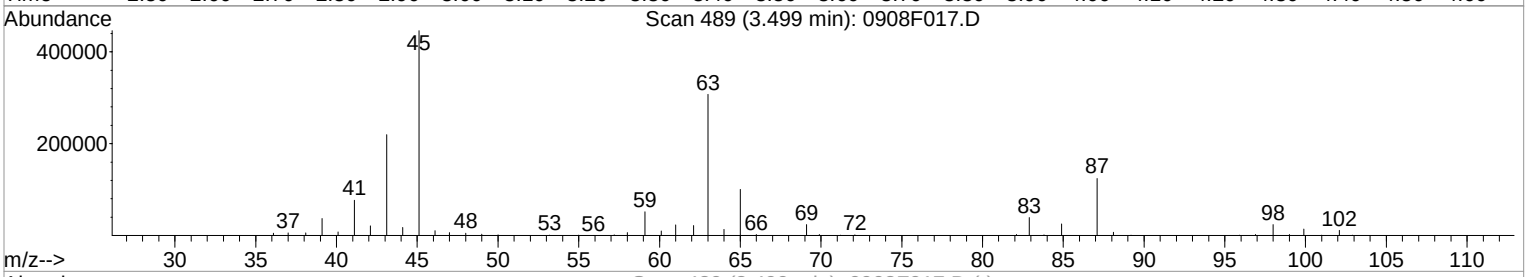
Quantitation Report (Qedit)

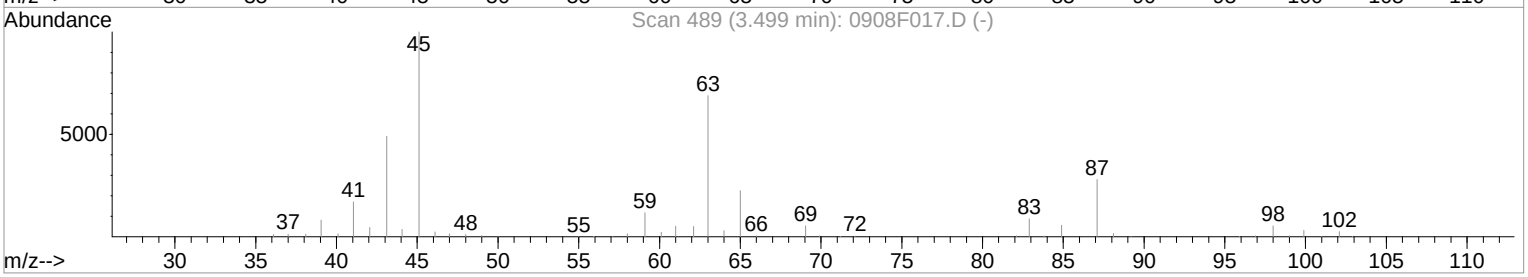
1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F017.D Vial: 10
Acq On : 11 Sep 2023 5:51 pm Operator: EW/GH/MK/OT
Sample : ICAL 10 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:32 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:32:31 2023
Response via : Multiple Level Calibration







TIC: 0908F017.D

(27) 1,1-Dichloroethane (PT)

3.50min 10.02PPB

response 740377

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.69
83.00	12.70	12.69
0.00	0.00	0.00

Manual Integration:

Before

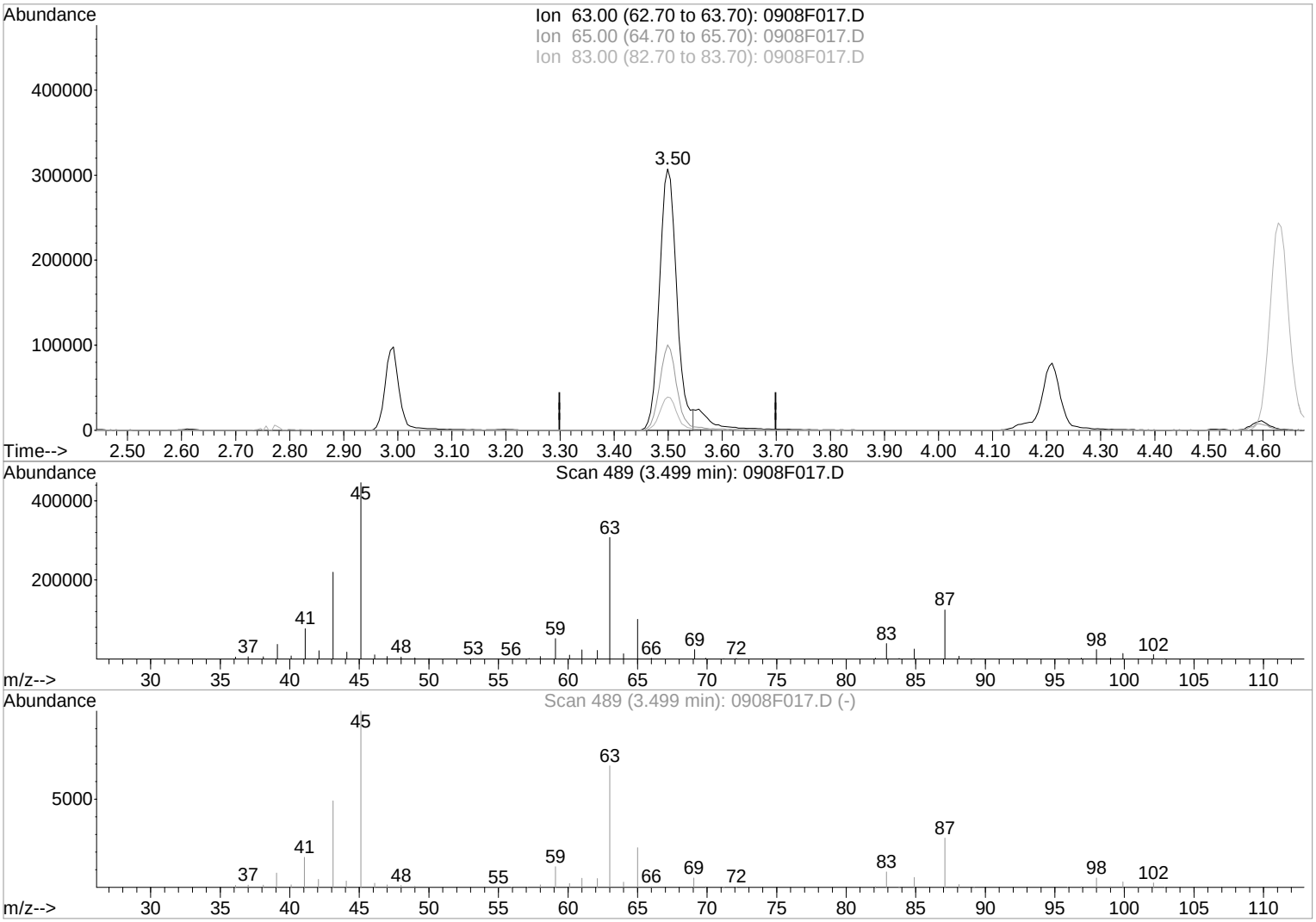
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F017.D Vial: 10
Acq On : 11 Sep 2023 5:51 pm Operator: EW/GH/MK/OT
Sample : ICAL 10 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:33 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:32:31 2023
Response via : Multiple Level Calibration



TIC: 0908F017.D

(27) 1,1-Dichloroethane (PT)

3.50min 9.26PPB m

response 684747

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.69
83.00	12.70	12.69
0.00	0.00	0.00

Manual Integration:

After

Shoulder

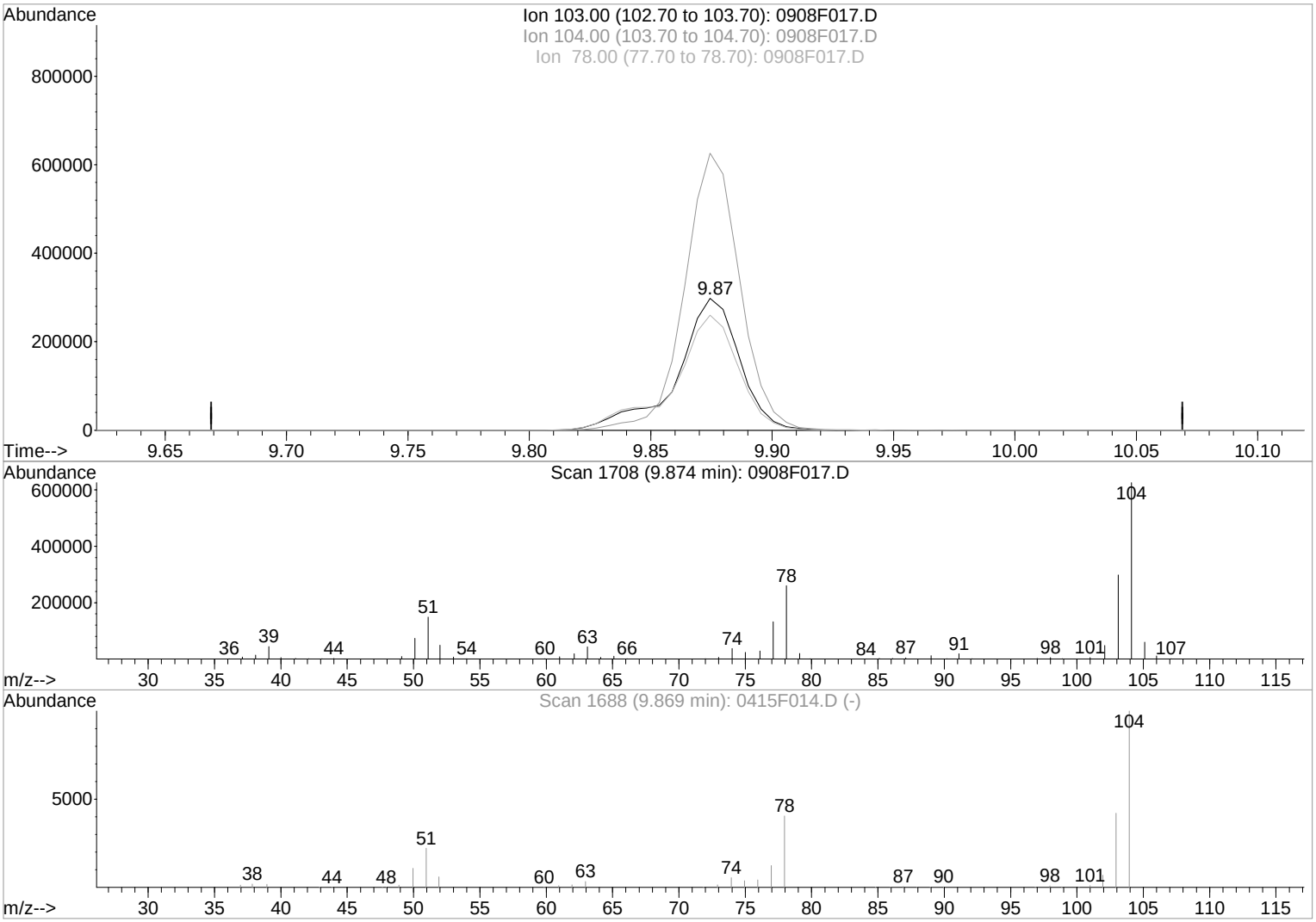
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F017.D Vial: 10
Acq On : 11 Sep 2023 5:51 pm Operator: EW/GH/MK/OT
Sample : ICAL 10 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 8:55 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Sat Apr 30 11:34:42 2022
Response via : Single Level Calibration



TIC: 0908F017.D

(80) Styrene (T)

9.87min 16.61PPB

response 530099

Ion	Exp%	Act%
103.00	100	100
104.00	215.00	209.98
78.00	99.40	87.23
0.00	0.00	0.00

Manual Integration:

Before

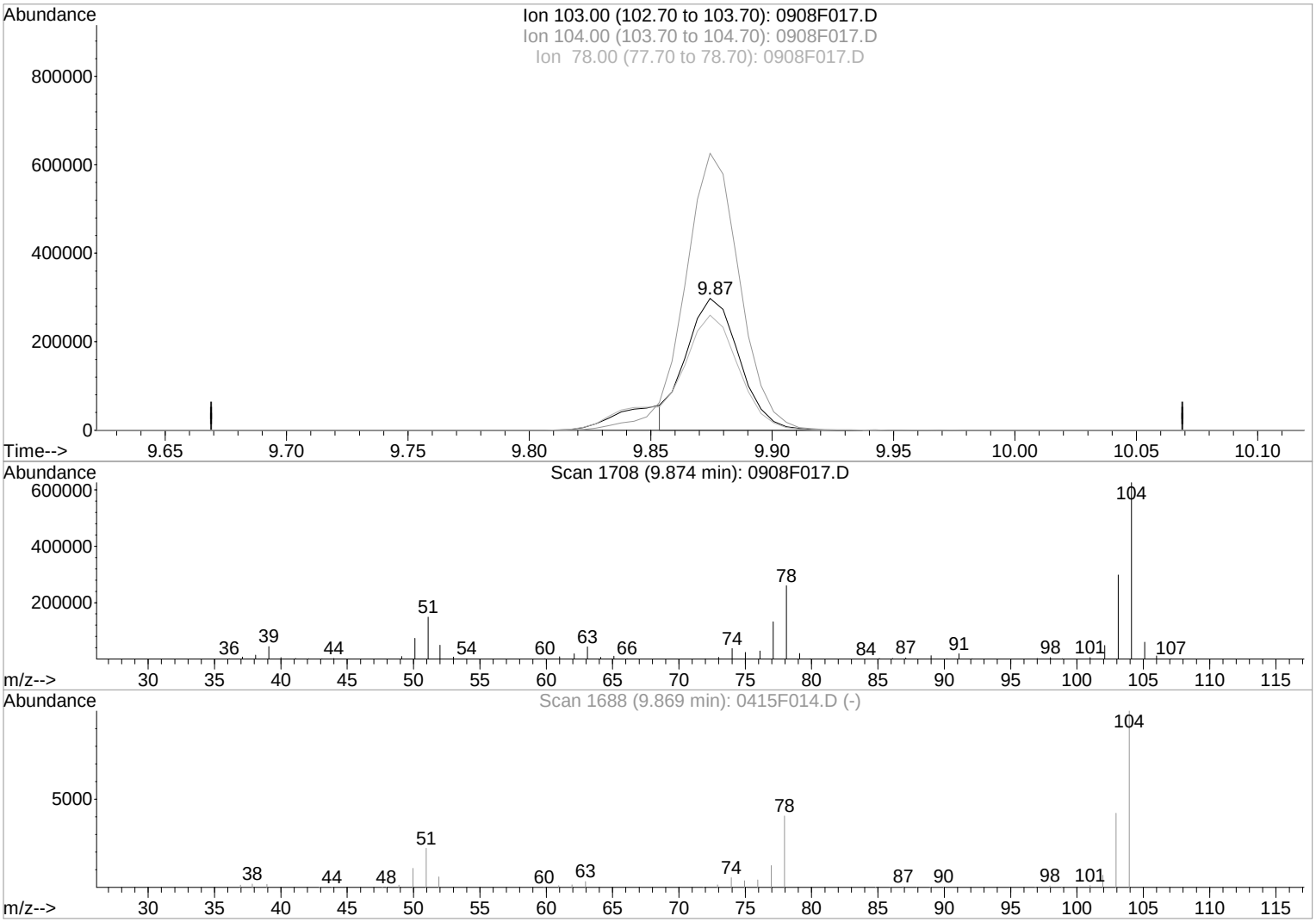
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F017.D Vial: 10
Acq On : 11 Sep 2023 5:51 pm Operator: EW/GH/MK/OT
Sample : ICAL 10 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 8:57 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Sat Apr 30 11:34:42 2022
Response via : Single Level Calibration



TIC: 0908F017.D

(80) Styrene (T)

9.87min 14.26PPB m

response 453363

Ion	Exp%	Act%
103.00	100	100
104.00	215.00	209.98
78.00	99.40	87.23
0.00	0.00	0.00

Manual Integration:

After

Shoulder

09/12/23

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F018.D Vial: 11
Acq On : 11 Sep 2023 6:16 pm Operator: EW/GH/MK/OT
Sample : ICAL 20 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:46 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.72	96	1184334	10.00	PPB	0.00
64) Chlorobenzene-d5	9.17	82	448832	10.00	PPB	0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	336299	10.00	PPB	0.00
System Monitoring Compounds						
43) Dibromofluoromethane	4.86	113	245498	10.17	PPB	0.00
Spiked Amount 10.000			Recovery =	101.70%		
47) 1,2-Dichloroethane-d4	5.35	65	267345	9.93	PPB	0.00
Spiked Amount 10.000			Recovery =	99.30%		
62) Toluene-d8	7.59	98	1141234	10.13	PPB	0.00
Spiked Amount 10.000			Recovery =	101.30%		
84) 4-Bromofluorobenzene	10.42	95	364157	10.00	PPB	0.00
Spiked Amount 10.000			Recovery =	100.00%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.06	85	816610m	26.65	PPB	
3) Chloromethane	1.23	50	798237	19.54	PPB	99
4) Vinyl Chloride	1.28	62	812903	19.39	PPB	100
5) Bromomethane	1.54	96	346526	20.42	PPB	97
6) Chloroethane	1.62	64	503685	18.90	PPB	97
7) Dichlorofluoromethane	1.79	67	1132863	19.26	PPB	98
8) Trichlorofluoromethane	1.79	101	1043132	19.10	PPB	99
9) Ethyl Ether	2.04	59	542830	20.62	PPB	99
10) Acrolein	2.22	56	1384548	394.57	PPB	100
11) Trichlorotrifluoroethane	2.21	151	386825	19.10	PPB	97
12) 1,1-Dichloroethene	2.25	96	703429	18.97	PPB	96
14) Iodomethane	2.40	142	3354341	82.53	PPB	99
15) Carbon Disulfide	2.43	76	1779699	19.90	PPB	99
16) 2-Propanol (Isopropyl Alco	2.49	45	811942	1148.08	PPB	96
17) 3-Chloro-1-propene	2.61	76	370436	20.49	PPB	96
18) Methyl Acetate	2.65	43	418794	26.23	PPB	97
19) Acetonitrile	2.70	40	1047114	815.96	PPB	100
20) Methylene Chloride	2.76	84	838979	20.17	PPB	99
21) tert-Butyl Alcohol	2.88	59	112820	110.07	PPB	96
22) Acrylonitrile	3.09	53	626017	80.95	PPB	99
23) Methyl tert-Butyl Ether	2.97	73	3276186	42.27	PPB	99
24) trans-1,2-Dichloroethene	2.99	96	777383	19.51	PPB	99
25) Hexane	3.20	57	701663	19.42	PPB	98
26) Diisopropyl Ether	3.50	45	2359796	20.49	PPB	99
27) 1,1-Dichloroethane	3.50	63	1368401m	18.25	PPB	
28) Vinyl Acetate	3.56	86	240633	41.48	PPB	98
29) Chloroprene	3.56	53	4102881	77.46	PPB	99
30) tert-Butyl Ethyl Ether	3.93	59	2018244	21.42	PPB	99
31) 2,2-Dichloropropane	4.16	77	911140	21.33	PPB	99
32) cis-1,2-Dichloroethene	4.21	96	886768	20.16	PPB	99
33) 2-Butanone	4.27	72	898392	409.21	PPB	98
34) Ethyl Acetate	4.31	61	146740	43.78	PPB	94
35) Propionitrile	4.45	54	232880	83.66	PPB	97
36) Methacrylonitrile	4.59	67	807619	85.00	PPB	98
37) Bromochloromethane	4.53	128	364945	20.44	PPB	98
38) Tetrahydrofuran	4.54	71	52379	19.77	PPB	91
39) Chloroform	4.63	83	1271781	20.17	PPB	98
40) tert-Butyl Formate	4.66	59	191052	23.15	PPB	92
41) Cyclohexane	4.76	56	1105003	18.95	PPB	97
42) 1,1,1-Trichloroethane	4.79	97	997847	20.32	PPB	98
44) Carbon Tetrachloride	4.96	117	749340	20.90	PPB	97
45) 1,1-Dichloropropene	5.03	75	1037458	19.80	PPB	99
46) Isobutyl Alcohol	5.36	43	493172	932.03	PPB	98

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F018.D Vial: 11
Acq On : 11 Sep 2023 6:16 pm Operator: EW/GH/MK/OT
Sample : ICAL 20 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:46 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48)	Benzene	5.31	78	3373480	19.88	PPB	98
49)	1,2-Dichloroethane	5.45	62	929200	20.47	PPB	99
50)	tert-Amyl Methyl Ether	5.46	55	495344	19.72	PPB	87
51)	Trichloroethene	6.16	95	774588	20.43	PPB	96
52)	Methylcyclohexane	6.28	83	855632	20.22	PPB	97
53)	1,2-Dichloropropane	6.49	63	846923	20.57	PPB	99
54)	Dibromomethane	6.63	93	376032	20.86	PPB	98
55)	Methyl methacrylate	6.66	69	347770	22.02	PPB	97
56)	1,4-Dioxane	6.67	88	164687	1034.03	PPB	99
60)	cis-1,3-Dichloropropene	7.36	75	1188807	22.10	PPB	99
61)	4-Methyl-2-pentanone (MIBK	7.55	58	3113692	412.75	PPB	99
63)	Toluene	7.66	92	2036773	20.04	PPB	99
65)	n-Octane	7.74	85	318787	21.61	PPB	98
66)	trans-1,3-Dichloropropene	8.02	75	874648	22.82	PPB	98
67)	Ethyl methacrylate	8.08	69	645933	22.12	PPB	99
68)	1,1,2-Trichloroethane	8.21	83	486829	20.74	PPB	96
69)	Tetrachloroethene	8.22	164	529642	19.78	PPB	99
70)	2-Hexanone	8.48	57	1017159	419.44	PPB	100
71)	1,3-Dichloropropane	8.39	76	1059032	20.31	PPB	99
72)	Dibromochloromethane	8.59	129	512459	23.07	PPB	99
73)	1,2-Dibromoethane (EDB)	8.70	107	520852	20.90	PPB	99
74)	1-Chlorohexane	9.19	91	668212	20.02	PPB	97
75)	Chlorobenzene	9.20	112	1971512	20.22	PPB	99
76)	Ethylbenzene	9.30	106	1015285	20.10	PPB	96
77)	1,1,1,2-Tetrachloroethane	9.31	131	583960	22.22	PPB	97
78)	m,p-Xylenes	9.43	106	2433359	39.84	PPB	98
79)	o-Xylene	9.85	106	1204914	20.50	PPB	97
80)	Styrene	9.88	103	973371m	21.08	PPB	
82)	Isopropylbenzene	10.22	105	2576553	20.06	PPB	99
86)	1,1,2,2-Tetrachloroethane	10.62	83	495078	21.06	PPB	99
87)	trans-1,4-Dichloro-2-buten	10.69	53	136644	22.29	PPB	73
88)	Bromobenzene	10.55	156	704480	21.31	PPB	96
89)	n-Propylbenzene	10.64	91	2767646	20.49	PPB	99
90)	1,2,3-Trichloropropane	10.66	110	157700	20.87	PPB	95
91)	2-Chlorotoluene	10.75	91	1816751	20.61	PPB	99
92)	1,3,5-Trimethylbenzene	10.84	105	1986278	20.96	PPB	98
93)	4-Chlorotoluene	10.87	91	2136928	20.61	PPB	98
94)	tert-Butylbenzene	11.15	119	1575000	20.89	PPB	97
95)	1,2,4-Trimethylbenzene	11.22	105	2034868	20.94	PPB	100
96)	sec-Butylbenzene	11.38	105	2019763	21.20	PPB	99
97)	p-Isopropyltoluene	11.53	119	1798842	21.24	PPB	98
98)	1,3-Dichlorobenzene	11.51	146	1092809	20.95	PPB	99
99)	1,4-Dichlorobenzene	11.61	146	1135580	21.20	PPB	99
100)	n-Butylbenzene	11.95	91	1458607	22.12	PPB	98
101)	1,2-Dichlorobenzene	11.99	146	972983	21.18	PPB	99
102)	1,2-Dibromo-3-chloropropan	12.65	155	33745	23.46	PPB	90
103)	1,3,5-Trichlorobenzene	12.75	180	477881	22.09	PPB	99
104)	1,2,4-Trichlorobenzene	13.20	180	330273	22.64	PPB	98
105)	Hexachlorobutadiene	13.30	225	197028	22.44	PPB	98
106)	Naphthalene	13.40	128	493922	24.24	PPB	99
107)	1,2,3-Trichlorobenzene	13.59	180	166856	22.46	PPB	98

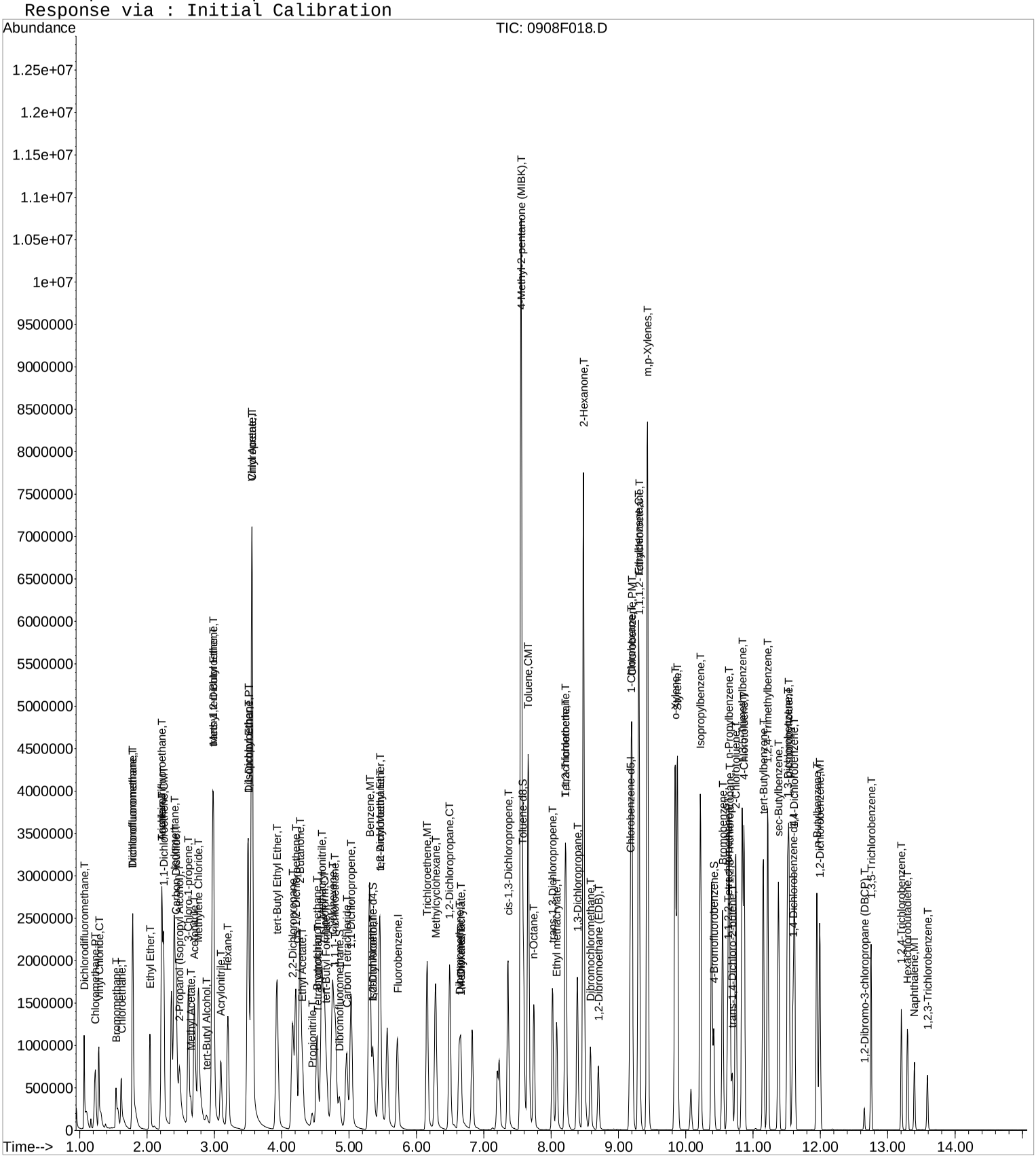
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\091123\0908F018.D Vial: 11
Acq On : 11 Sep 2023 6:16 pm Operator: EW/GH/MK/OT
Sample : ICAL 20 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:33 2023 Quant Results File: 091123MS23_8260.RES

09/12/23
09/18/23
1st
2nd

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration

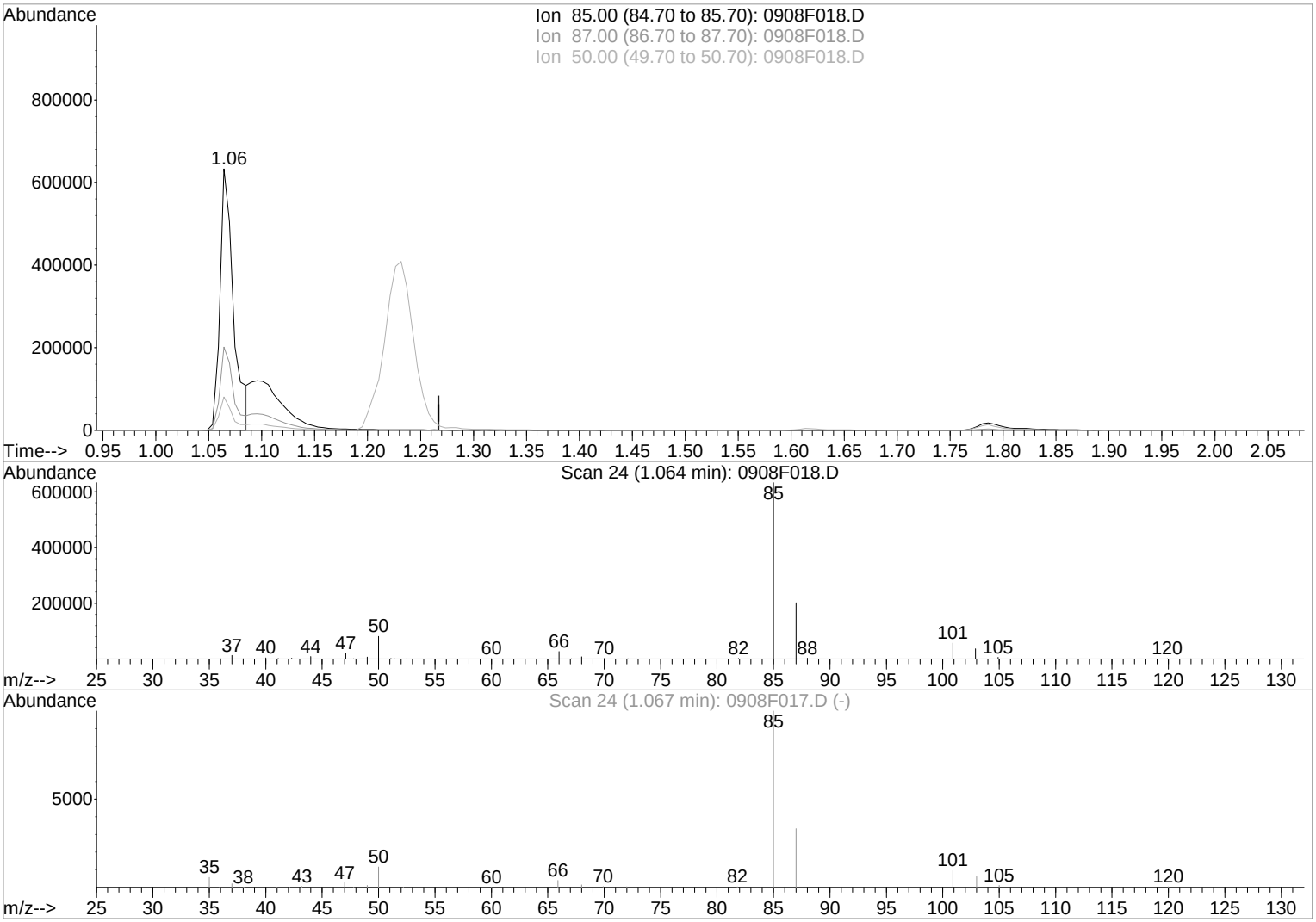


Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F018.D Vial: 11
Acq On : 11 Sep 2023 6:16 pm Operator: EW/GH/MK/OT
Sample : ICAL 20 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:50 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:33:28 2023
Response via : Multiple Level Calibration



TIC: 0908F018.D

(2) Dichlorodifluoromethane (T)

1.06min 18.23PPB

response 558614

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	31.78
50.00	11.40	12.74
0.00	0.00	0.00

Manual Integration:

Before

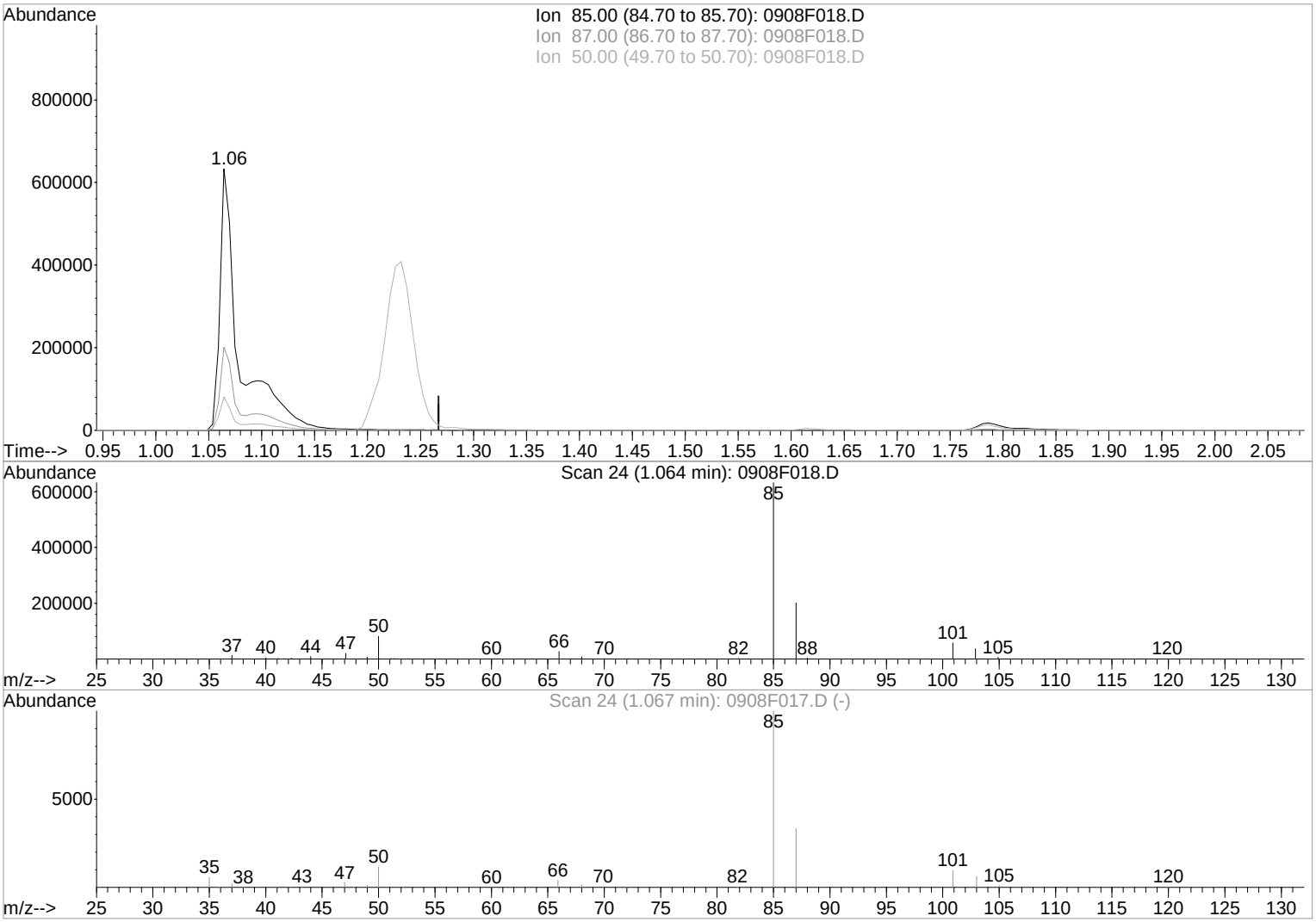
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F018.D Vial: 11
Acq On : 11 Sep 2023 6:16 pm Operator: EW/GH/MK/OT
Sample : ICAL 20 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:33 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:33:28 2023
Response via : Multiple Level Calibration



TIC: 0908F018.D

(2) Dichlorodifluoromethane (T)

1.06min 26.65PPB m

response 816610

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	31.78
50.00	11.40	12.74
0.00	0.00	0.00

Manual Integration:

After

Split peak

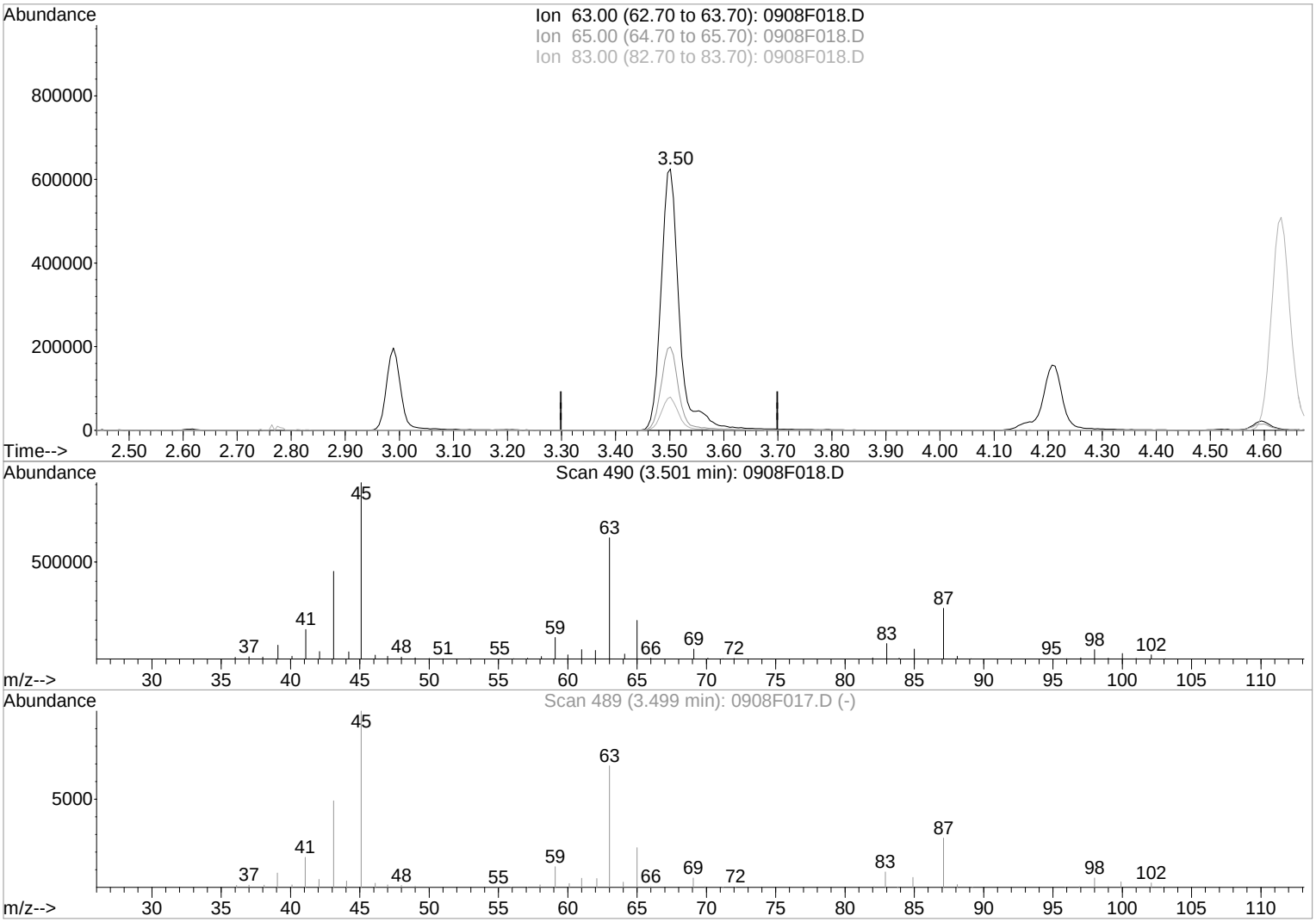
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F018.D Vial: 11
Acq On : 11 Sep 2023 6:16 pm Operator: EW/GH/MK/OT
Sample : ICAL 20 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 8:59 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:48:20 2023
Response via : Multiple Level Calibration



TIC: 0908F018.D

(27) 1,1-Dichloroethane (PT)

3.50min 19.80PPB

response 1484107

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	31.91
83.00	12.70	12.67
0.00	0.00	0.00

Manual Integration:

Before

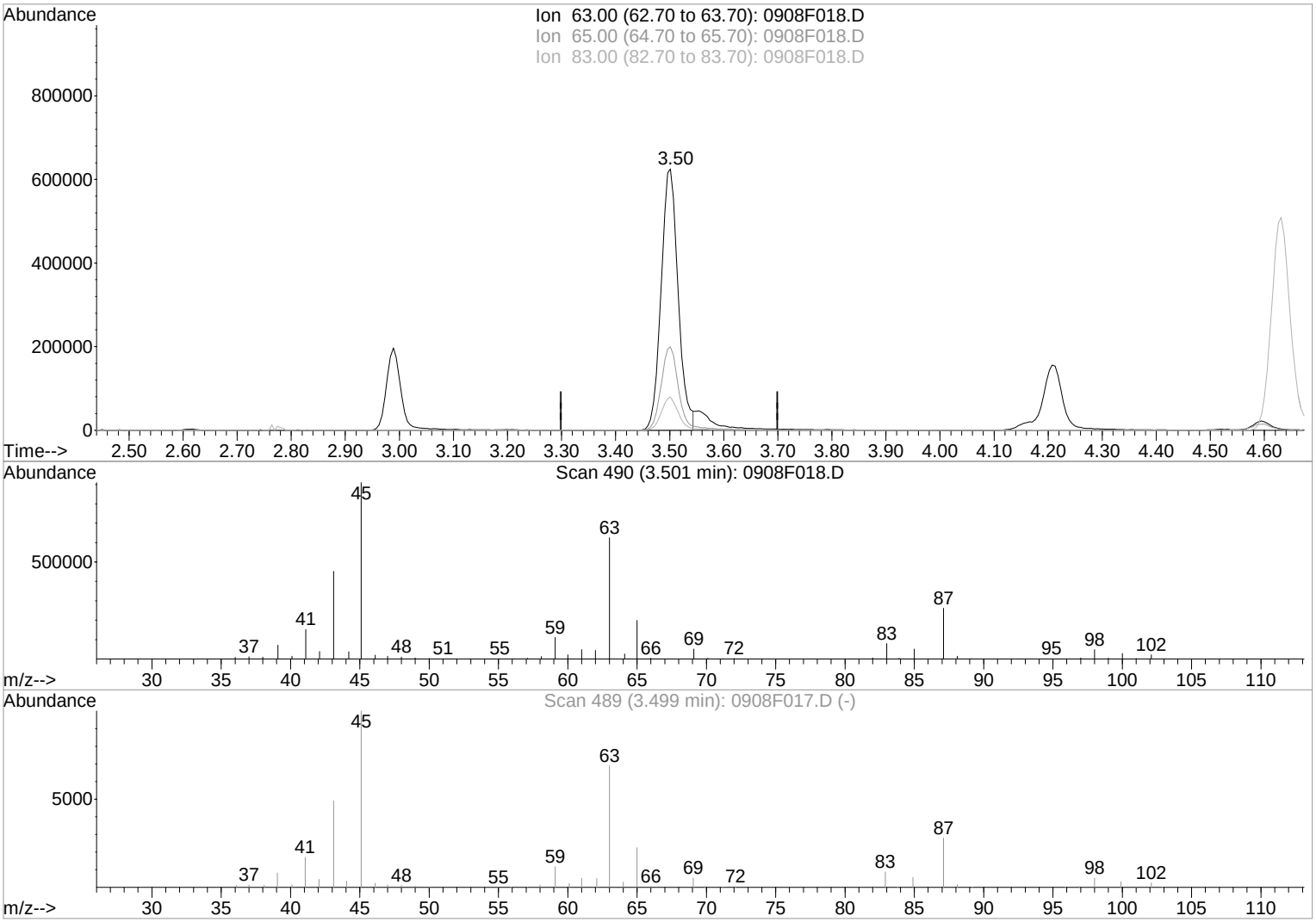
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F018.D Vial: 11
Acq On : 11 Sep 2023 6:16 pm Operator: EW/GH/MK/OT
Sample : ICAL 20 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:49 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:48:20 2023
Response via : Multiple Level Calibration



TIC: 0908F018.D

(27) 1,1-Dichloroethane (PT)

3.50min 18.25PPB m

response 1368401

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	31.91
83.00	12.70	12.67
0.00	0.00	0.00

Manual Integration:

After

Shoulder

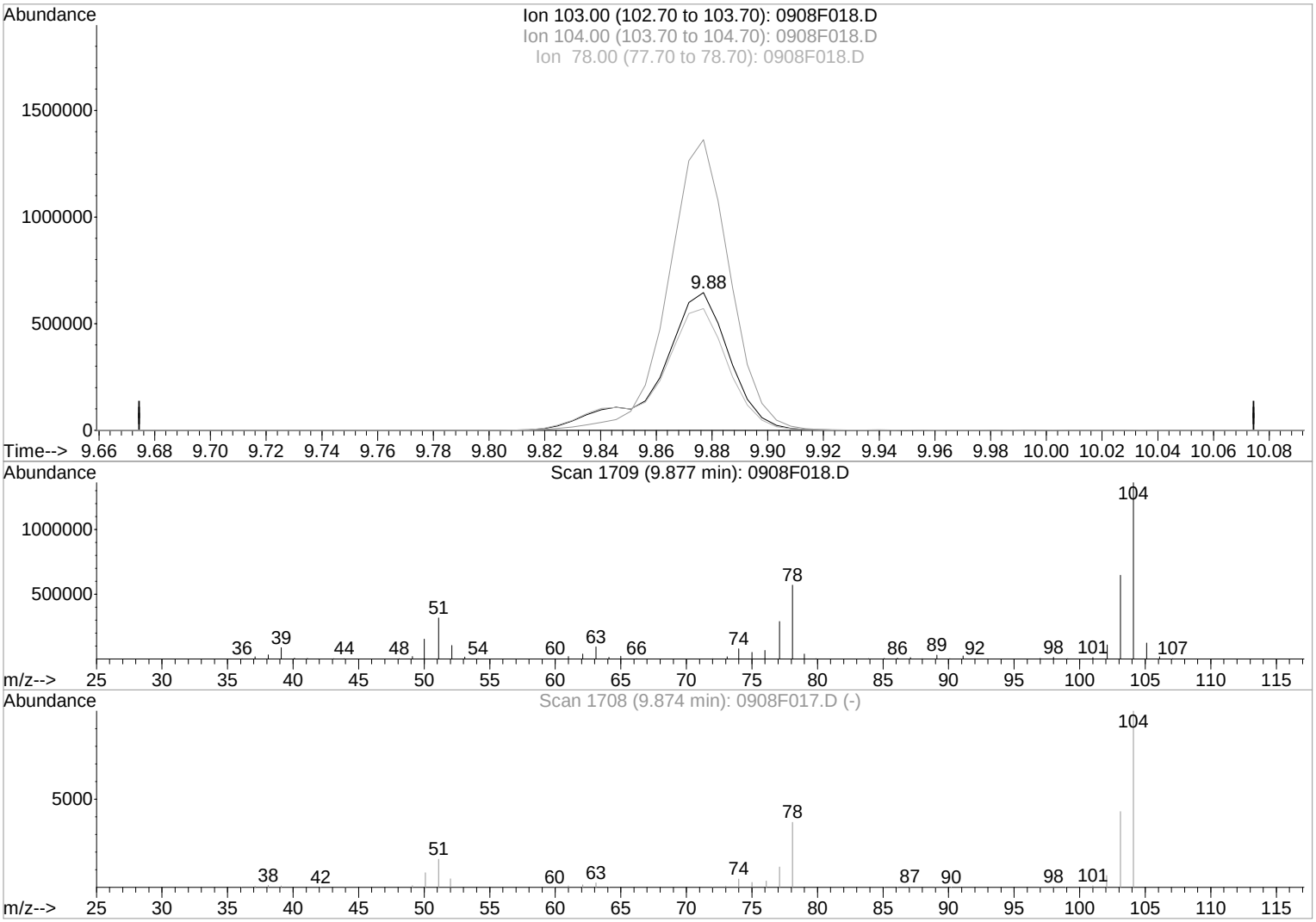
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F018.D Vial: 11
Acq On : 11 Sep 2023 6:16 pm Operator: EW/GH/MK/OT
Sample : ICAL 20 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:49 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:48:20 2023
Response via : Single Level Calibration



TIC: 0908F018.D

(80) Styrene (T)

9.88min 24.15PPB

response 1114969

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	211.05
78.00	87.20	88.33
0.00	0.00	0.00

Manual Integration:

Before

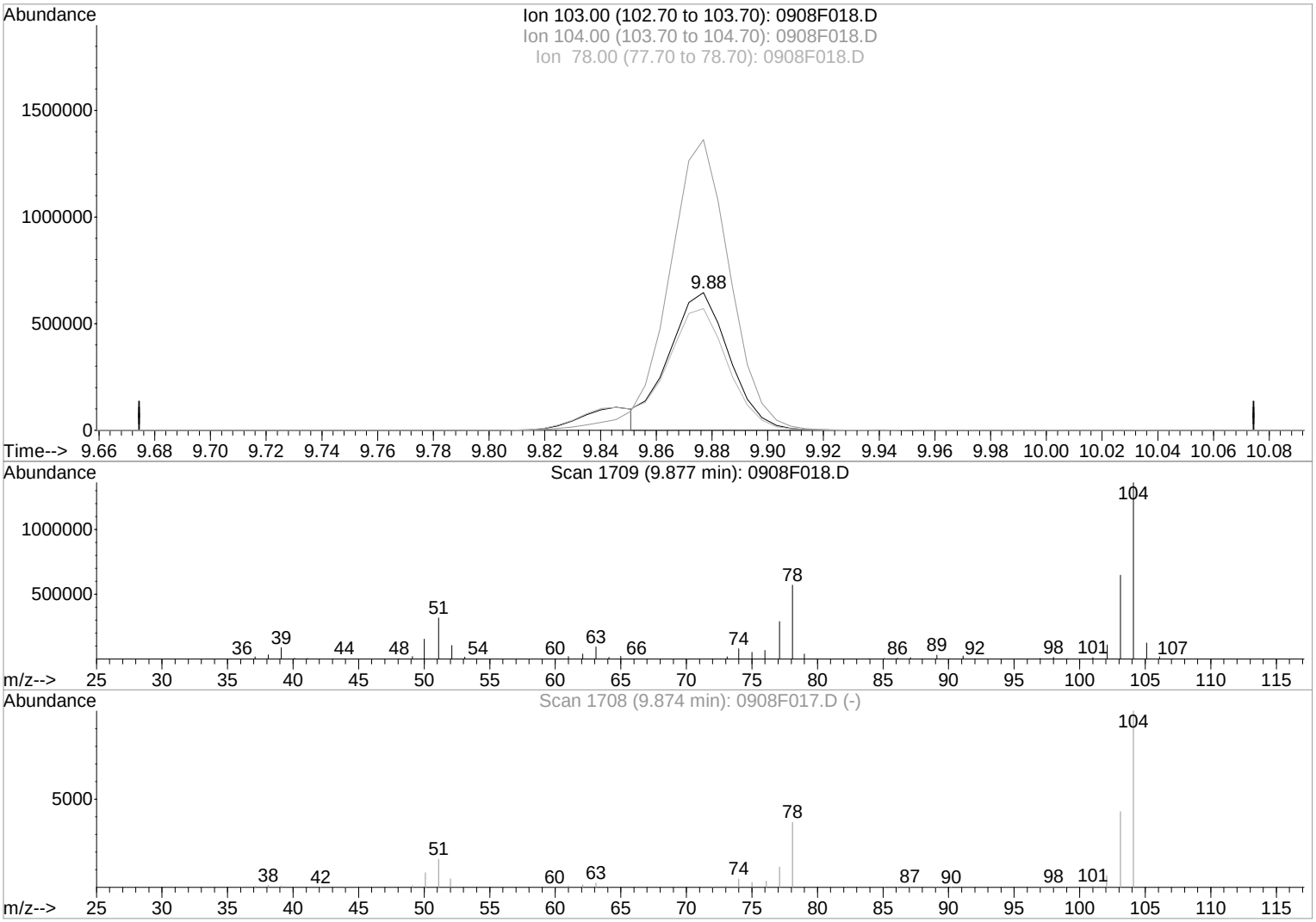
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F018.D Vial: 11
Acq On : 11 Sep 2023 6:16 pm Operator: EW/GH/MK/OT
Sample : ICAL 20 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:50 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:48:20 2023
Response via : Single Level Calibration



TIC: 0908F018.D

(80) Styrene (T)

9.88min 21.08PPB m

response 973371

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	211.05
78.00	87.20	88.33
0.00	0.00	0.00

Manual Integration:

After

Shoulder

09/12/23

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F019.D Vial: 12
Acq On : 11 Sep 2023 6:40 pm Operator: EW/GH/MK/OT
Sample : ICAL 40 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:48 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.71	96	1195531	10.00	PPB	0.00
64) Chlorobenzene-d5	9.17	82	448332	10.00	PPB	0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	339711	10.00	PPB	0.00
System Monitoring Compounds						
43) Dibromofluoromethane	4.86	113	249610	10.24	PPB	0.00
Spiked Amount 10.000			Recovery =	102.40%		
47) 1,2-Dichloroethane-d4	5.34	65	271571	9.99	PPB	0.00
Spiked Amount 10.000			Recovery =	99.90%		
62) Toluene-d8	7.59	98	1152353	10.13	PPB	0.00
Spiked Amount 10.000			Recovery =	101.30%		
84) 4-Bromofluorobenzene	10.42	95	370167	10.18	PPB	0.00
Spiked Amount 10.000			Recovery =	101.80%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.07	85	1561721m	50.49	PPB	
3) Chloromethane	1.23	50	1570376	38.09	PPB	99
4) Vinyl Chloride	1.28	62	1579933	37.33	PPB	99
5) Bromomethane	1.54	96	695903	40.63	PPB	99
6) Chloroethane	1.61	64	967772	35.98	PPB	98
7) Dichlorofluoromethane	1.79	67	2194552	36.95	PPB	99
8) Trichlorofluoromethane	1.79	101	2002602	36.33	PPB	99
9) Ethyl Ether	2.04	59	1059977	39.89	PPB	98
10) Acrolein	2.22	56	2678939	756.30	PPB	100
11) Trichlorotrifluoroethane	2.22	151	754865	36.92	PPB	98
12) 1,1-Dichloroethene	2.25	96	1378601	36.83	PPB	94
14) Iodomethane	2.40	142	6667242	162.50	PPB	99
15) Carbon Disulfide	2.43	76	3544158	39.27	PPB	99
16) 2-Propanol (Isopropyl Alco	2.48	45	1659362	2324.36	PPB	97
17) 3-Chloro-1-propene	2.61	76	769599	42.17	PPB	96
18) Methyl Acetate	2.64	43	860262	53.38	PPB	97
19) Acetonitrile	2.70	40	2221198	1714.64	PPB	97
20) Methylene Chloride	2.77	84	1628625	38.80	PPB	99
21) tert-Butyl Alcohol	2.88	59	233165	225.35	PPB	96
22) Acrylonitrile	3.09	53	1229591	157.50	PPB	99
23) Methyl tert-Butyl Ether	2.97	73	6498235	83.05	PPB	99
24) trans-1,2-Dichloroethene	2.99	96	1554905	38.66	PPB	99
25) Hexane	3.20	57	1444757	39.60	PPB	98
26) Diisopropyl Ether	3.50	45	4703957	40.45	PPB	99
27) 1,1-Dichloroethane	3.50	63	2704321m	35.74	PPB	
28) Vinyl Acetate	3.56	86	509838	87.06	PPB	97
29) Chloroprene	3.55	53	7947293	148.63	PPB	99
30) tert-Butyl Ethyl Ether	3.93	59	4073753	42.84	PPB	99
31) 2,2-Dichloropropane	4.16	77	1932711	44.83	PPB	99
32) cis-1,2-Dichloroethene	4.21	96	1744742	39.29	PPB	99
33) 2-Butanone	4.27	72	1907361	860.64	PPB	94
34) Ethyl Acetate	4.31	61	301613	89.15	PPB	90
35) Propionitrile	4.45	54	467691	166.44	PPB	98
36) Methacrylonitrile	4.60	67	1593994	166.19	PPB	98
37) Bromochloromethane	4.52	128	711047	39.45	PPB	99
38) Tetrahydrofuran	4.54	71	101844	38.08	PPB	93
39) Chloroform	4.63	83	2527612	39.71	PPB	98
40) tert-Butyl Formate	4.66	59	451074	54.15	PPB	90
41) Cyclohexane	4.75	56	2190868	37.21	PPB	98
42) 1,1,1-Trichloroethane	4.79	97	2035083	41.05	PPB	98
44) Carbon Tetrachloride	4.96	117	1559699	43.09	PPB	97
45) 1,1-Dichloropropene	5.03	75	2065893	39.06	PPB	99
46) Isobutyl Alcohol	5.35	43	1030578	1929.41	PPB	96

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F019.D Vial: 12
Acq On : 11 Sep 2023 6:40 pm Operator: EW/GH/MK/OT
Sample : ICAL 40 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:48 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

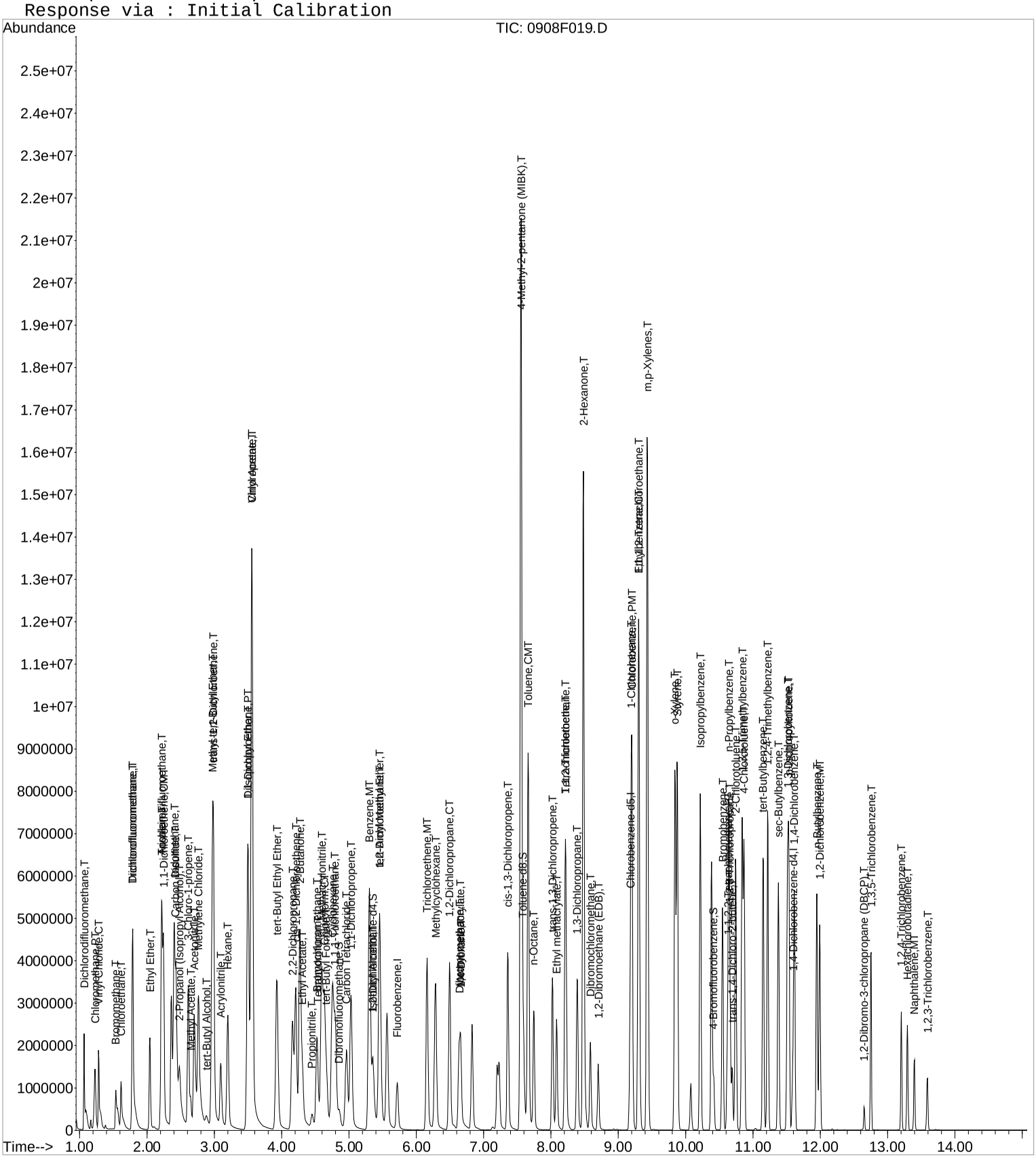
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Benzene	5.30	78	6627044	38.69	PPB		99
49)	1,2-Dichloroethane	5.45	62	1826186	39.85	PPB		100
50)	tert-Amyl Methyl Ether	5.46	55	946366	37.33	PPB	#	75
51)	Trichloroethene	6.16	95	1539170	40.22	PPB		96
52)	Methylcyclohexane	6.29	83	1748950	40.94	PPB		99
53)	1,2-Dichloropropane	6.49	63	1674465	40.29	PPB		99
54)	Dibromomethane	6.64	93	749538	41.18	PPB		99
55)	Methyl methacrylate	6.66	69	712725	44.71	PPB		98
56)	1,4-Dioxane	6.66	88	319620	1988.03	PPB		97
60)	cis-1,3-Dichloropropene	7.36	75	2473682	45.55	PPB		100
61)	4-Methyl-2-pentanone (MIBK	7.56	58	6281999	824.95	PPB		92
63)	Toluene	7.66	92	3998423	38.98	PPB		99
65)	n-Octane	7.74	85	619661	42.05	PPB		100
66)	trans-1,3-Dichloropropene	8.02	75	1878539	49.08	PPB		98
67)	Ethyl methacrylate	8.08	69	1322564	45.34	PPB		100
68)	1,1,2-Trichloroethane	8.21	83	965409	41.17	PPB		98
69)	Tetrachloroethene	8.22	164	1054683	39.43	PPB		98
70)	2-Hexanone	8.48	57	2071991	855.36	PPB		91
71)	1,3-Dichloropropane	8.39	76	2094034	40.21	PPB		99
72)	Dibromochloromethane	8.59	129	1083973	48.85	PPB		99
73)	1,2-Dibromoethane (EDB)	8.70	107	1037378	41.68	PPB		99
74)	1-Chlorohexane	9.19	91	1380223	41.39	PPB		98
75)	Chlorobenzene	9.20	112	3849662	39.52	PPB		99
76)	Ethylbenzene	9.30	106	1999110	39.63	PPB		98
77)	1,1,1,2-Tetrachloroethane	9.31	131	1210358	46.11	PPB		96
78)	m,p-Xylenes	9.43	106	4766645	78.13	PPB		96
79)	o-Xylene	9.84	106	2383319	40.60	PPB		96
80)	Styrene	9.87	103	1927258m	41.79	PPB		
82)	Isopropylbenzene	10.22	105	5095940	39.71	PPB		98
86)	1,1,2,2-Tetrachloroethane	10.62	83	988592	41.62	PPB		99
87)	trans-1,4-Dichloro-2-buten	10.69	53	283684	45.82	PPB		66
88)	Bromobenzene	10.55	156	1390761	41.64	PPB		98
89)	n-Propylbenzene	10.64	91	5474550	40.12	PPB		99
90)	1,2,3-Trichloropropane	10.66	110	312975	41.00	PPB		97
91)	2-Chlorotoluene	10.74	91	3586733	40.27	PPB		99
92)	1,3,5-Trimethylbenzene	10.84	105	3943597	41.20	PPB		99
93)	4-Chlorotoluene	10.87	91	4210854	40.20	PPB		100
94)	tert-Butylbenzene	11.15	119	3149537	41.35	PPB		98
95)	1,2,4-Trimethylbenzene	11.22	105	4005415	40.81	PPB		100
96)	sec-Butylbenzene	11.38	105	3995069	41.50	PPB		99
97)	p-Isopropyltoluene	11.53	119	3571182	41.74	PPB		98
98)	1,3-Dichlorobenzene	11.52	146	2156194	40.92	PPB		97
99)	1,4-Dichlorobenzene	11.61	146	2216309	40.96	PPB		99
100)	n-Butylbenzene	11.95	91	2905099	43.61	PPB		99
101)	1,2-Dichlorobenzene	11.99	146	1903462	41.01	PPB		99
102)	1,2-Dibromo-3-chloropropan	12.66	155	75005	51.62	PPB		87
103)	1,3,5-Trichlorobenzene	12.75	180	942832	43.14	PPB		99
104)	1,2,4-Trichlorobenzene	13.20	180	652972	44.32	PPB		99
105)	Hexachlorobutadiene	13.29	225	396351	44.70	PPB		98
106)	Naphthalene	13.40	128	1037420	50.41	PPB		99
107)	1,2,3-Trichlorobenzene	13.59	180	332641	44.32	PPB		97

(#) = qualifier out of range (m) = manual integration

Data File : J:\MS23\DATA\091123\0908F019.D Vial: 12
Acq On : 11 Sep 2023 6:40 pm Operator: EW/GH/MK/OT
Sample : ICAL 40 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:34 2023 Quant Results File: 091123MS23_8260.RES

09/12/23
09/18/23
1st
2nd

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration

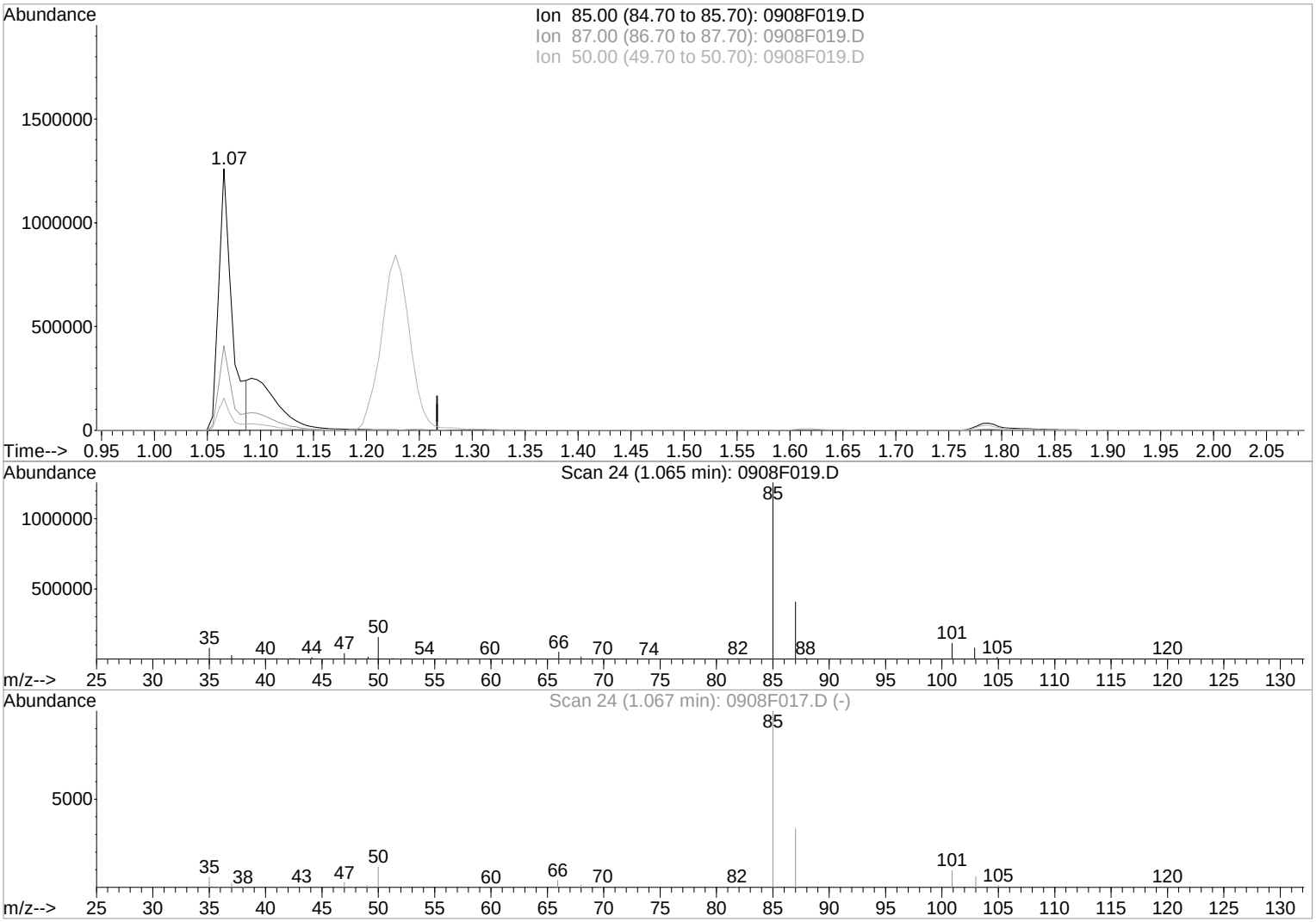


Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F019.D Vial: 12
Acq On : 11 Sep 2023 6:40 pm Operator: EW/GH/MK/OT
Sample : ICAL 40 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:52 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:34:05 2023
Response via : Multiple Level Calibration



TIC: 0908F019.D

(2) Dichlorodifluoromethane (T)

1.07min 35.55PPB

response 1099758

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	32.37
50.00	11.40	12.26
0.00	0.00	0.00

Manual Integration:

Before

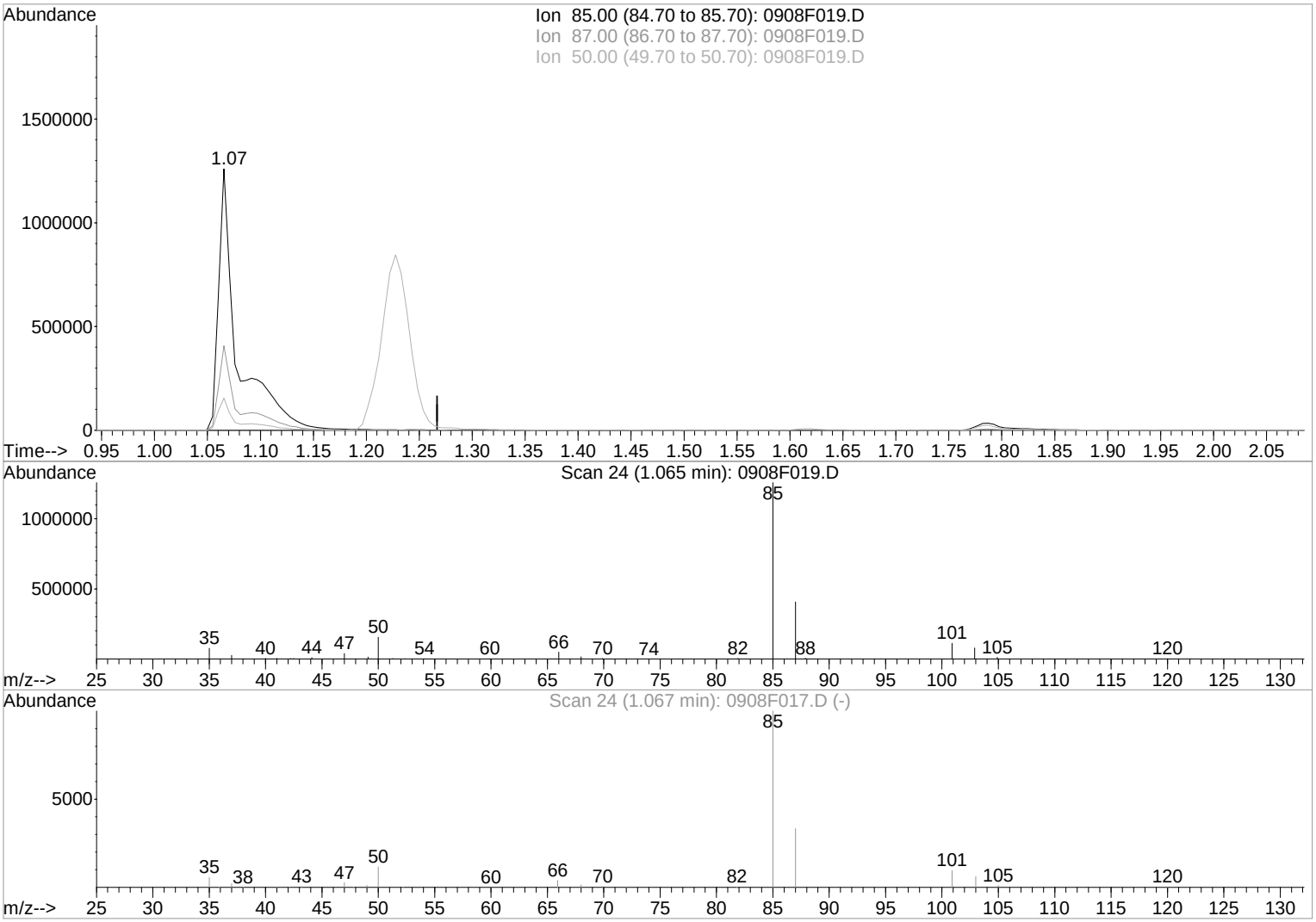
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F019.D Vial: 12
Acq On : 11 Sep 2023 6:40 pm Operator: EW/GH/MK/OT
Sample : ICAL 40 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:34 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:34:05 2023
Response via : Multiple Level Calibration



TIC: 0908F019.D

(2) Dichlorodifluoromethane (T)

1.07min 50.49PPB m

response 1561721

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	32.37
50.00	11.40	12.26
0.00	0.00	0.00

Manual Integration:

After

Split peak

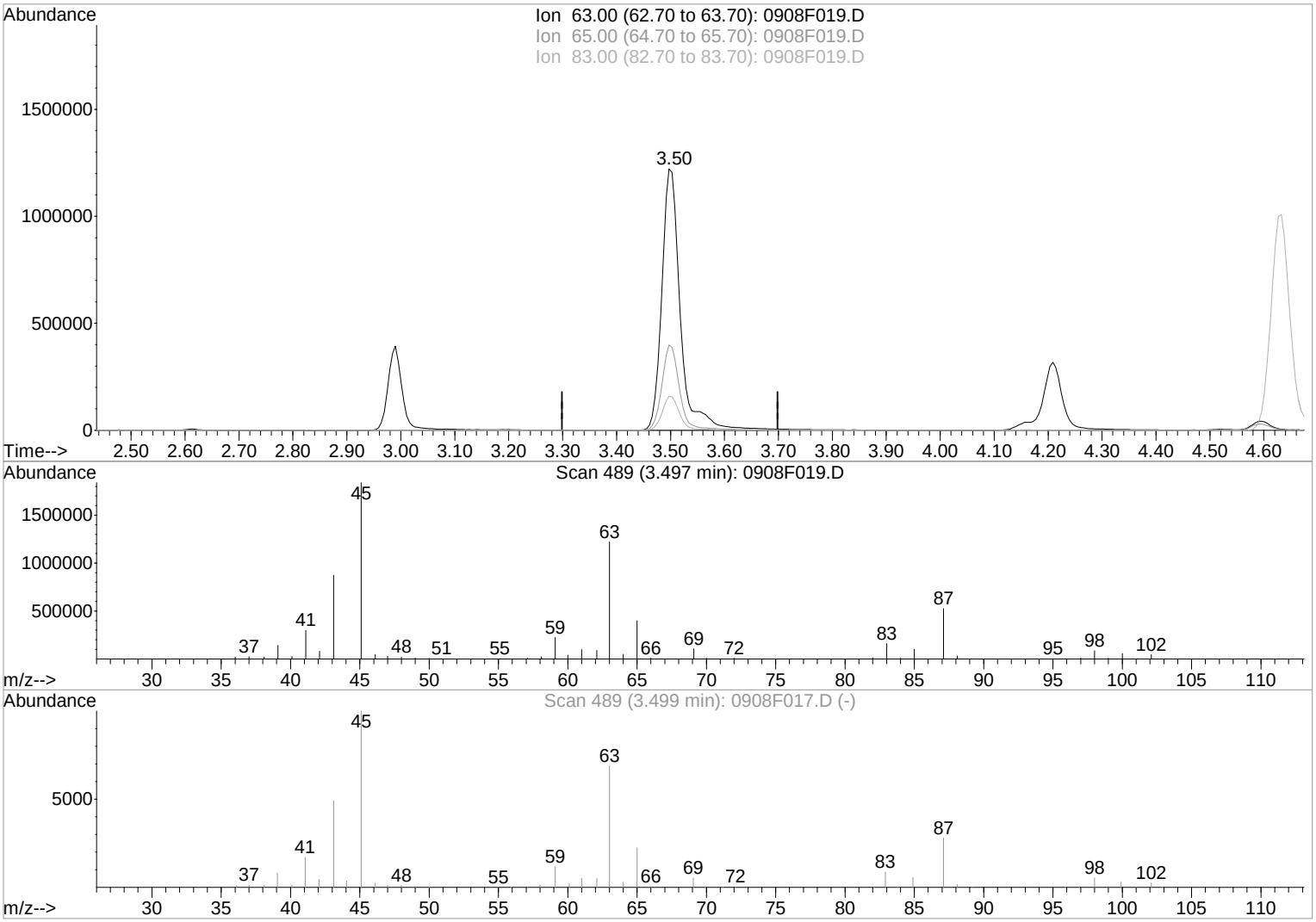
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F019.D Vial: 12
Acq On : 11 Sep 2023 6:40 pm Operator: EW/GH/MK/OT
Sample : ICAL 40 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 8:59 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:51:29 2023
Response via : Multiple Level Calibration



TIC: 0908F019.D

(27) 1,1-Dichloroethane (PT)

3.50min 38.63PPB

response 2923047

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.66
83.00	12.70	13.03
0.00	0.00	0.00

Manual Integration:

Before

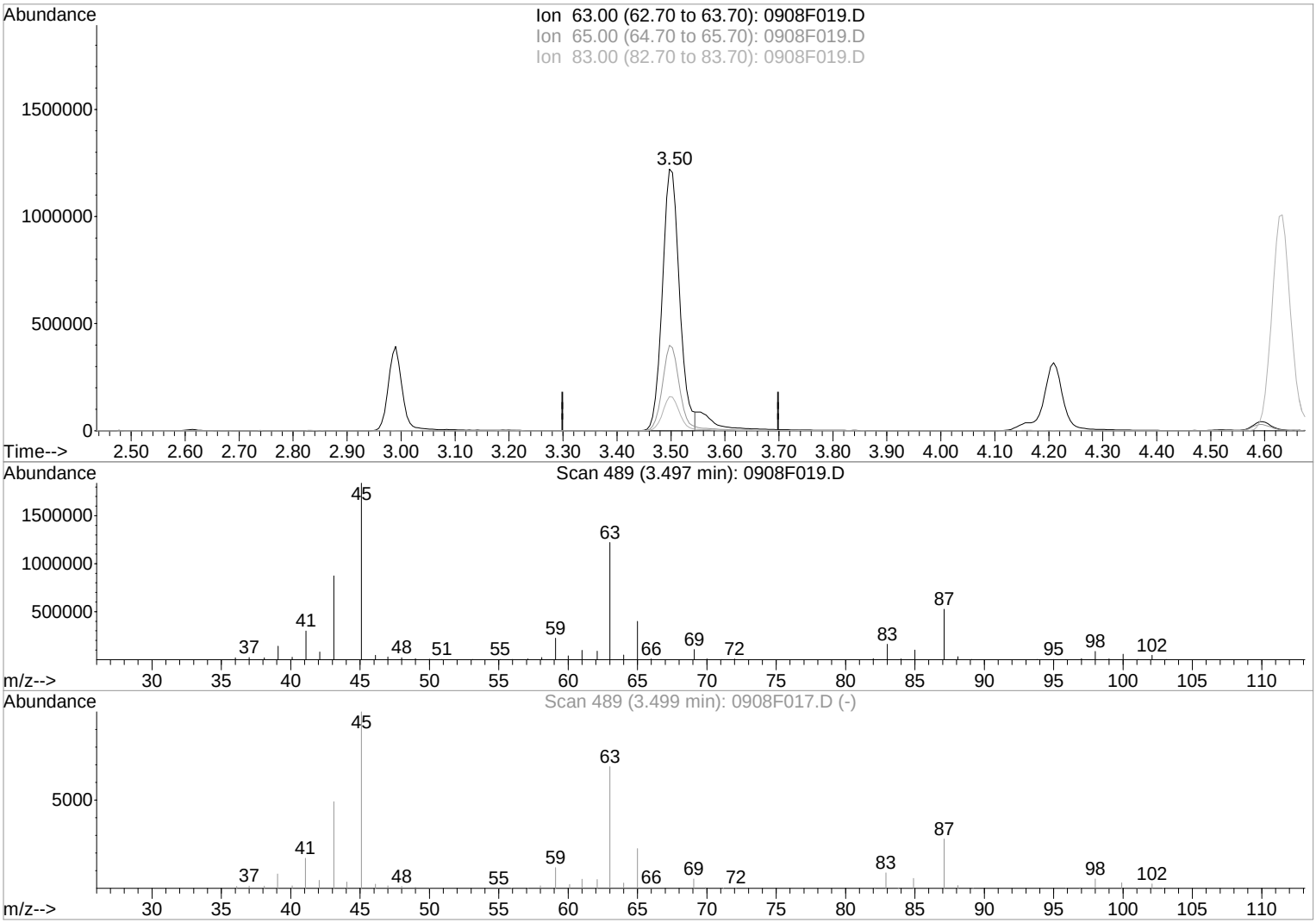
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F019.D Vial: 12
Acq On : 11 Sep 2023 6:40 pm Operator: EW/GH/MK/OT
Sample : ICAL 40 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:52 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:51:29 2023
Response via : Multiple Level Calibration



TIC: 0908F019.D

(27) 1,1-Dichloroethane (PT)

3.50min 35.74PPB m

response 2704321

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.66
83.00	12.70	13.03
0.00	0.00	0.00

Manual Integration:

After

Shoulder

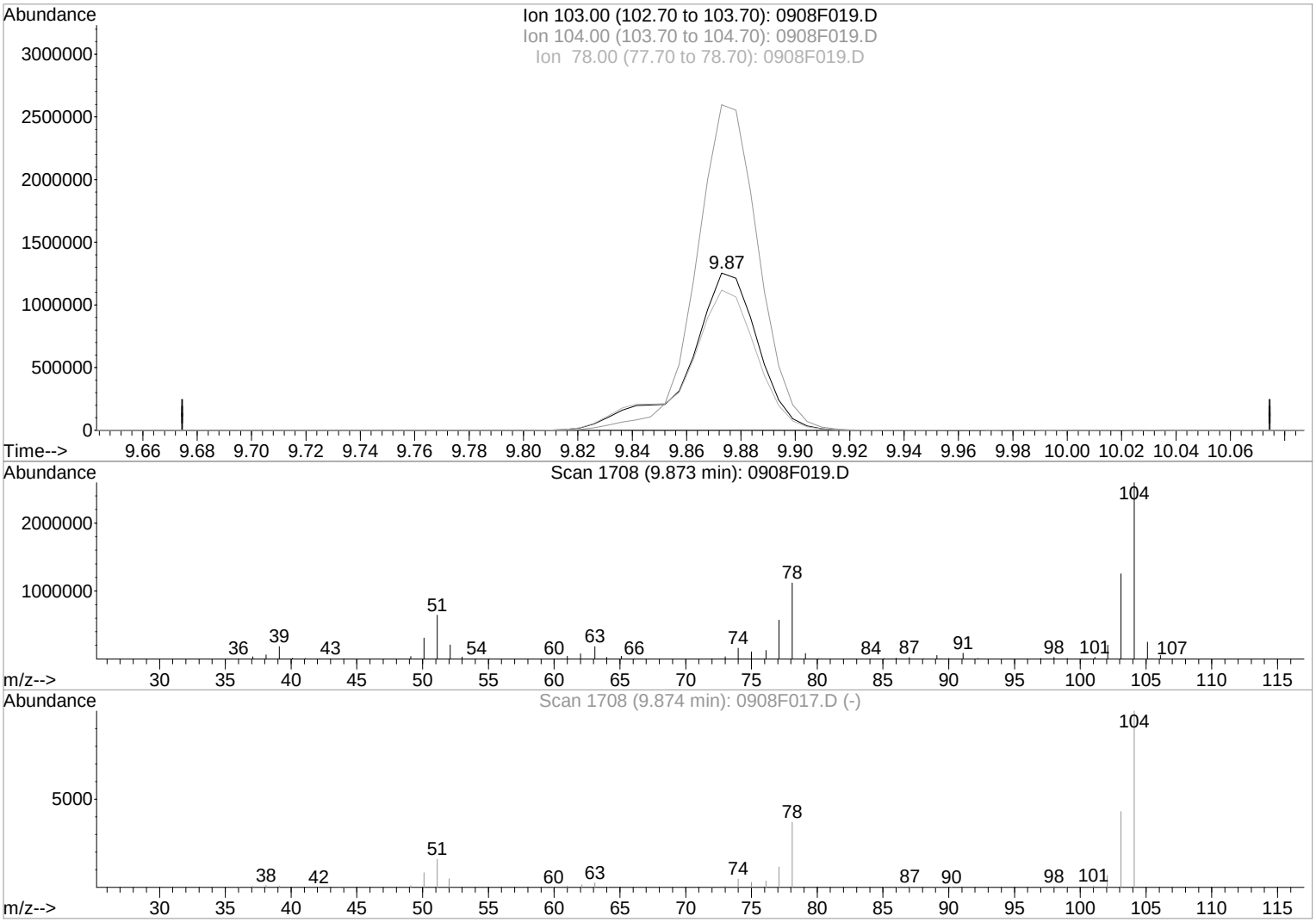
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F019.D Vial: 12
Acq On : 11 Sep 2023 6:40 pm Operator: EW/GH/MK/OT
Sample : ICAL 40 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:52 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:51:29 2023
Response via : Single Level Calibration



TIC: 0908F019.D

(80) Styrene (T)

9.87min 48.18PPB

response 2221885

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	207.27
78.00	87.20	89.13
0.00	0.00	0.00

Manual Integration:

Before

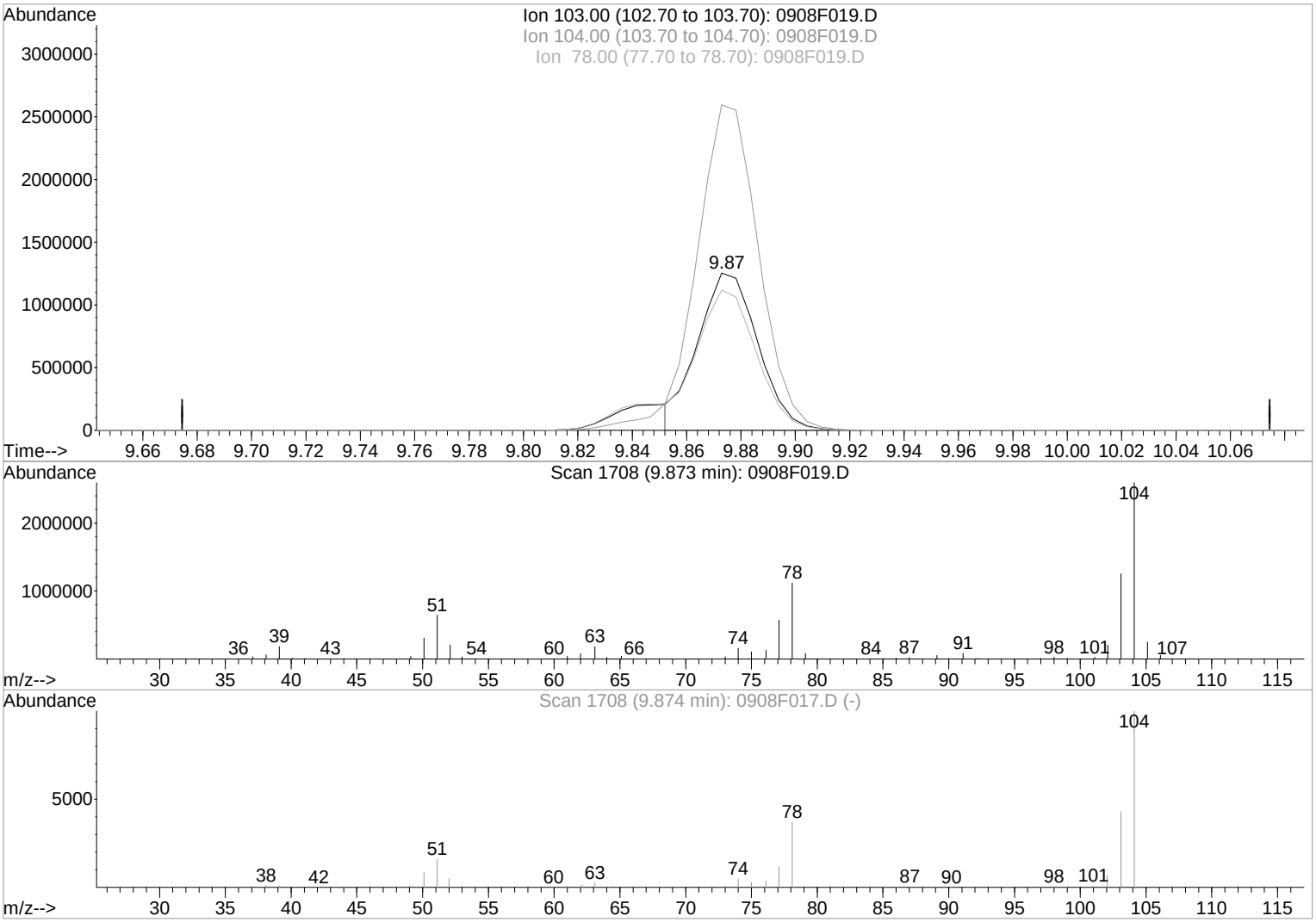
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F019.D Vial: 12
Acq On : 11 Sep 2023 6:40 pm Operator: EW/GH/MK/OT
Sample : ICAL 40 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:52 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:51:29 2023
Response via : Single Level Calibration



TIC: 0908F019.D

(80) Styrene (T)

9.87min 41.79PPB m

response 1927258

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	207.27
78.00	87.20	89.13
0.00	0.00	0.00

Manual Integration:

After

Shoulder

09/12/23

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:50 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.72	96	1232718	10.00	PPB	0.00
64) Chlorobenzene-d5	9.17	82	463804	10.00	PPB	0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	349431	10.00	PPB	0.00
System Monitoring Compounds						
43) Dibromofluoromethane	4.86	113	252979	10.07	PPB	0.00
Spiked Amount 10.000			Recovery =	100.70%		
47) 1,2-Dichloroethane-d4	5.35	65	273208	9.75	PPB	0.00
Spiked Amount 10.000			Recovery =	97.50%		
62) Toluene-d8	7.59	98	1186693	10.12	PPB	0.00
Spiked Amount 10.000			Recovery =	101.20%		
84) 4-Bromofluorobenzene	10.42	95	376340	10.00	PPB	0.00
Spiked Amount 10.000			Recovery =	100.00%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.06	85	3540974m	111.02	PPB	
3) Chloromethane	1.23	50	3293111	77.46	PPB	98
4) Vinyl Chloride	1.28	62	3497496	80.15	PPB	98
5) Bromomethane	1.53	96	1357652m	76.88	PPB	
6) Chloroethane	1.61	64	1949242	70.29	PPB	98
7) Dichlorofluoromethane	1.79	67	4516485	73.76	PPB	99
8) Trichlorofluoromethane	1.79	101	4383719	77.13	PPB	99
9) Ethyl Ether	2.04	59	2067477	75.46	PPB	100
10) Acrolein	2.22	56	5318492	1456.18	PPB	100
11) Trichlorotrifluoroethane	2.21	151	1722175	81.70	PPB	99
12) 1,1-Dichloroethene	2.25	96	3061771	79.32	PPB	94
14) Iodomethane	2.40	142	13326246	314.99	PPB	97
15) Carbon Disulfide	2.43	76	7739094	83.16	PPB	99
16) 2-Propanol (Isopropyl Alco	2.49	45	3877994	5268.25	PPB	96
17) 3-Chloro-1-propene	2.61	76	1642728	87.30	PPB	94
18) Methyl Acetate	2.65	43	1688836	101.62	PPB	98
19) Acetonitrile	2.70	40	4257179	3187.17	PPB	97
20) Methylene Chloride	2.76	84	3183947	73.56	PPB	99
21) tert-Butyl Alcohol	2.88	59	483171	452.89	PPB	97
22) Acrylonitrile	3.10	53	2372585	294.75	PPB	99
23) Methyl tert-Butyl Ether	2.97	73	12546705	155.51	PPB	98
24) trans-1,2-Dichloroethene	2.99	96	3276845	79.01	PPB	98
25) Hexane	3.20	57	3171990	84.33	PPB	100
26) Diisopropyl Ether	3.50	45	9169075	76.47	PPB	97
27) 1,1-Dichloroethane	3.50	63	5574306m	71.44	PPB	
28) Vinyl Acetate	3.56	86	995383	164.85	PPB	95
29) Chloroprene	3.56	53	16681279	302.57	PPB	95
30) tert-Butyl Ethyl Ether	3.93	59	8107596	82.68	PPB	98
31) 2,2-Dichloropropane	4.16	77	4417011	99.36	PPB	99
32) cis-1,2-Dichloroethene	4.21	96	3561825	77.79	PPB	99
33) 2-Butanone	4.27	72	3650478	1597.48	PPB	91
34) Ethyl Acetate	4.31	61	666701	191.12	PPB	93
35) Propionitrile	4.45	54	908449	313.55	PPB	98
36) Methacrylonitrile	4.59	67	3085687	312.00	PPB	99
37) Bromochloromethane	4.53	128	1351790	72.74	PPB	98
38) Tetrahydrofuran	4.54	71	198673	72.04	PPB	96
39) Chloroform	4.63	83	5079496	77.40	PPB	99
40) tert-Butyl Formate	4.66	59	1049175	122.16	PPB	92
41) Cyclohexane	4.76	56	4929853	81.21	PPB	99
42) 1,1,1-Trichloroethane	4.80	97	4538792	88.79	PPB	97
44) Carbon Tetrachloride	4.96	117	3665215	98.22	PPB	97
45) 1,1-Dichloropropene	5.03	75	4565893	83.73	PPB	99
46) Isobutyl Alcohol	5.36	43	2041507	3706.73	PPB	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:50 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Benzene	5.31	78	13283419	75.21	PPB		100
49)	1,2-Dichloroethane	5.45	62	3510526	74.30	PPB		99
50)	tert-Amyl Methyl Ether	5.46	55	1789625	68.46	PPB	#	67
51)	Trichloroethene	6.16	95	3256797	82.54	PPB		99
52)	Methylcyclohexane	6.28	83	3821094	86.74	PPB		98
53)	1,2-Dichloropropane	6.49	63	3323187	77.55	PPB		100
54)	Dibromomethane	6.63	93	1457996	77.69	PPB		99
55)	Methyl methacrylate	6.66	69	1411474	85.88	PPB		97
56)	1,4-Dioxane	6.66	88	623357	3760.30	PPB		99
60)	cis-1,3-Dichloropropene	7.36	75	4906481	87.63	PPB		99
61)	4-Methyl-2-pentanone (MIBK	7.55	58	11399406	1451.81	PPB	#	60
63)	Toluene	7.66	92	8077686	76.36	PPB		94
65)	n-Octane	7.75	85	1240341	81.35	PPB		98
66)	trans-1,3-Dichloropropene	8.02	75	3792914	95.78	PPB		98
67)	Ethyl methacrylate	8.08	69	2576601	85.39	PPB		99
68)	1,1,2-Trichloroethane	8.21	83	1861714	76.75	PPB		97
69)	Tetrachloroethene	8.22	164	2269139	82.01	PPB		98
70)	2-Hexanone	8.48	57	3883912	1549.87	PPB	#	65
71)	1,3-Dichloropropane	8.39	76	4024756	74.71	PPB		99
72)	Dibromochloromethane	8.58	129	2208412	96.20	PPB		99
73)	1,2-Dibromoethane (EDB)	8.71	107	2020027	78.45	PPB		97
74)	1-Chlorohexane	9.19	91	2984371	86.51	PPB		97
75)	Chlorobenzene	9.20	112	7540477	74.83	PPB		97
76)	Ethylbenzene	9.30	106	4101996	78.60	PPB		88
77)	1,1,1,2-Tetrachloroethane	9.31	131	2435442	89.68	PPB		98
78)	m,p-Xylenes	9.43	106	9438276	149.54	PPB	#	69
79)	o-Xylene	9.85	106	4751164	78.24	PPB		92
80)	Styrene	9.88	103	3728814m	78.16	PPB		
82)	Isopropylbenzene	10.22	105	10289323	77.51	PPB		96
86)	1,1,2,2-Tetrachloroethane	10.62	83	1916921	78.46	PPB		99
87)	trans-1,4-Dichloro-2-buten	10.69	53	570769	89.63	PPB		68
88)	Bromobenzene	10.55	156	2710572	78.90	PPB		97
89)	n-Propylbenzene	10.65	91	10952739	78.03	PPB		95
90)	1,2,3-Trichloropropane	10.67	110	603741	76.89	PPB		93
91)	2-Chlorotoluene	10.75	91	7113715	77.65	PPB		98
92)	1,3,5-Trimethylbenzene	10.84	105	7858754	79.82	PPB		99
93)	4-Chlorotoluene	10.87	91	8299108	77.03	PPB		99
94)	tert-Butylbenzene	11.15	119	6359035	81.17	PPB		96
95)	1,2,4-Trimethylbenzene	11.22	105	7861994	77.87	PPB		98
96)	sec-Butylbenzene	11.38	105	8018205	80.98	PPB		98
97)	p-Isopropyltoluene	11.53	119	7101224	80.70	PPB		97
98)	1,3-Dichlorobenzene	11.51	146	4200492	77.50	PPB		98
99)	1,4-Dichlorobenzene	11.61	146	4286271	77.01	PPB		99
100)	n-Butylbenzene	11.95	91	5817017	84.90	PPB		99
101)	1,2-Dichlorobenzene	11.99	146	3663640	76.75	PPB		99
102)	1,2-Dibromo-3-chloropropan	12.65	155	160445	107.35	PPB		88
103)	1,3,5-Trichlorobenzene	12.75	180	1811659	80.59	PPB		99
104)	1,2,4-Trichlorobenzene	13.20	180	1250401	82.50	PPB		97
105)	Hexachlorobutadiene	13.29	225	777936	85.28	PPB		97
106)	Naphthalene	13.40	128	2016113	95.24	PPB		98
107)	1,2,3-Trichlorobenzene	13.59	180	622263	80.61	PPB		99

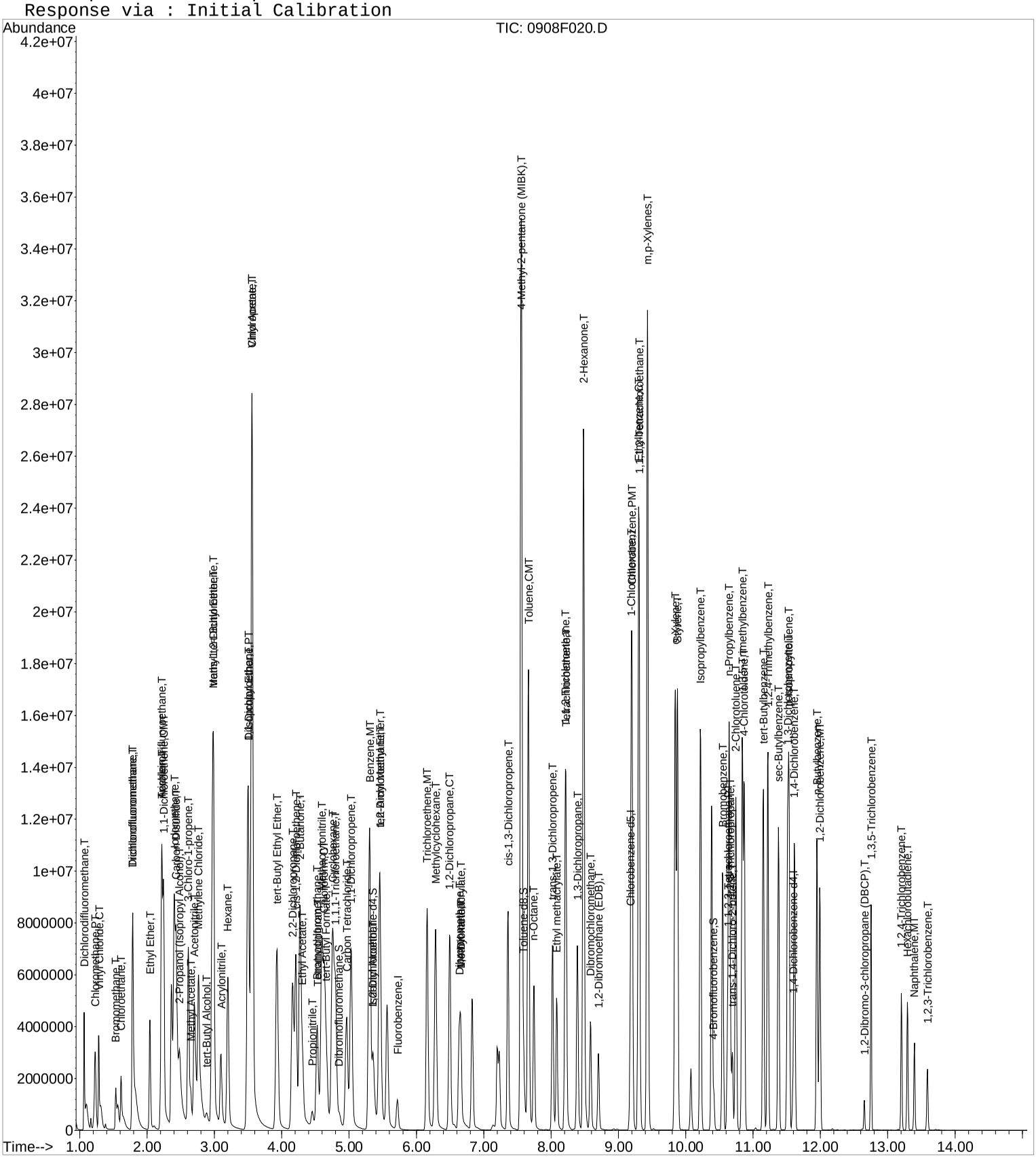
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:34 2023 Quant Results File: 091123MS23_8260.RES

09/12/23
09/18/23
1st
2nd

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration



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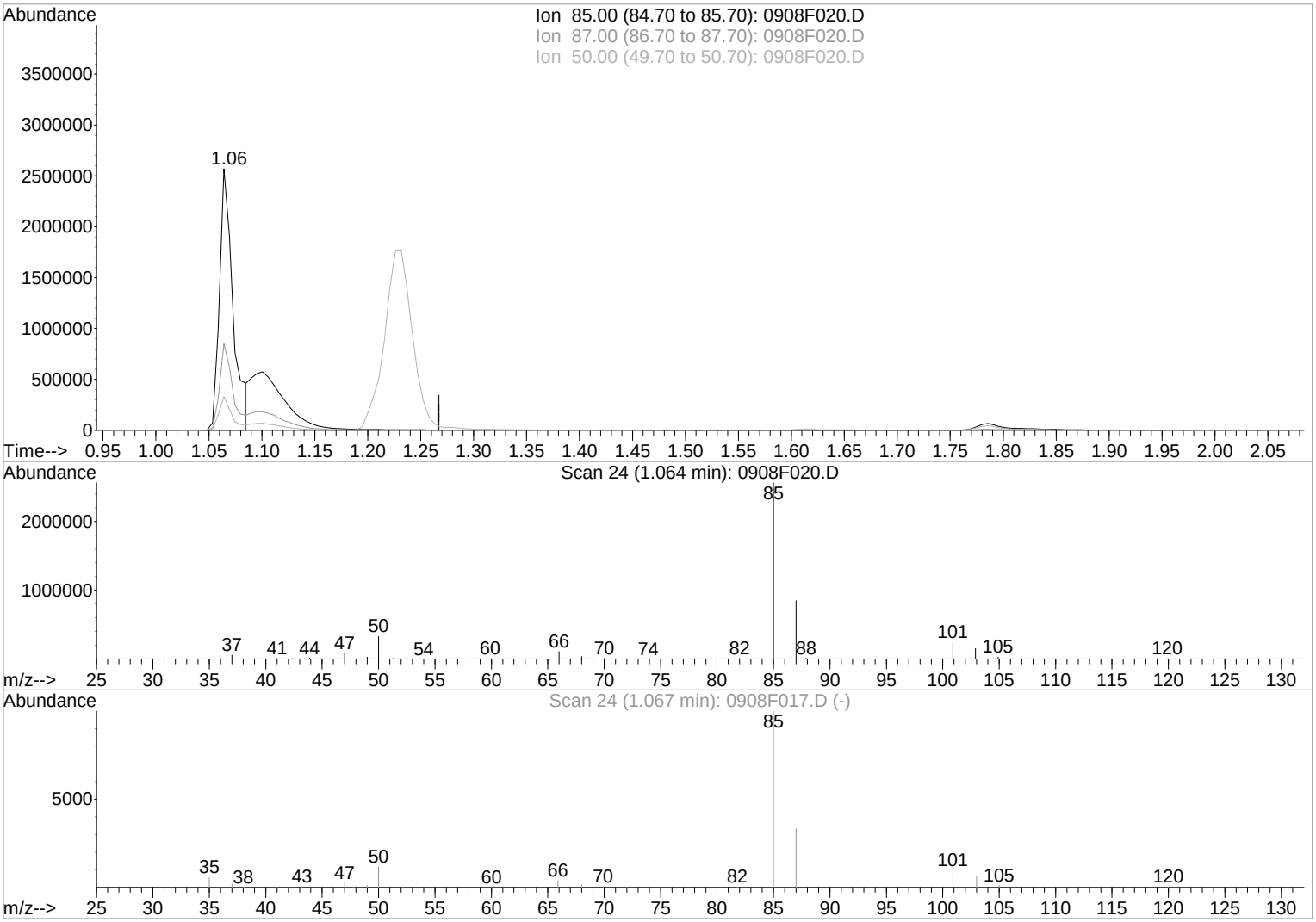
Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:55 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:34:38 2023
Response via : Multiple Level Calibration



TIC: 0908F020.D

(2) Dichlorodifluoromethane (T)

1.06min 71.29PPB

response 2273670

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	33.07
50.00	11.40	12.81
0.00	0.00	0.00

Manual Integration:

Before

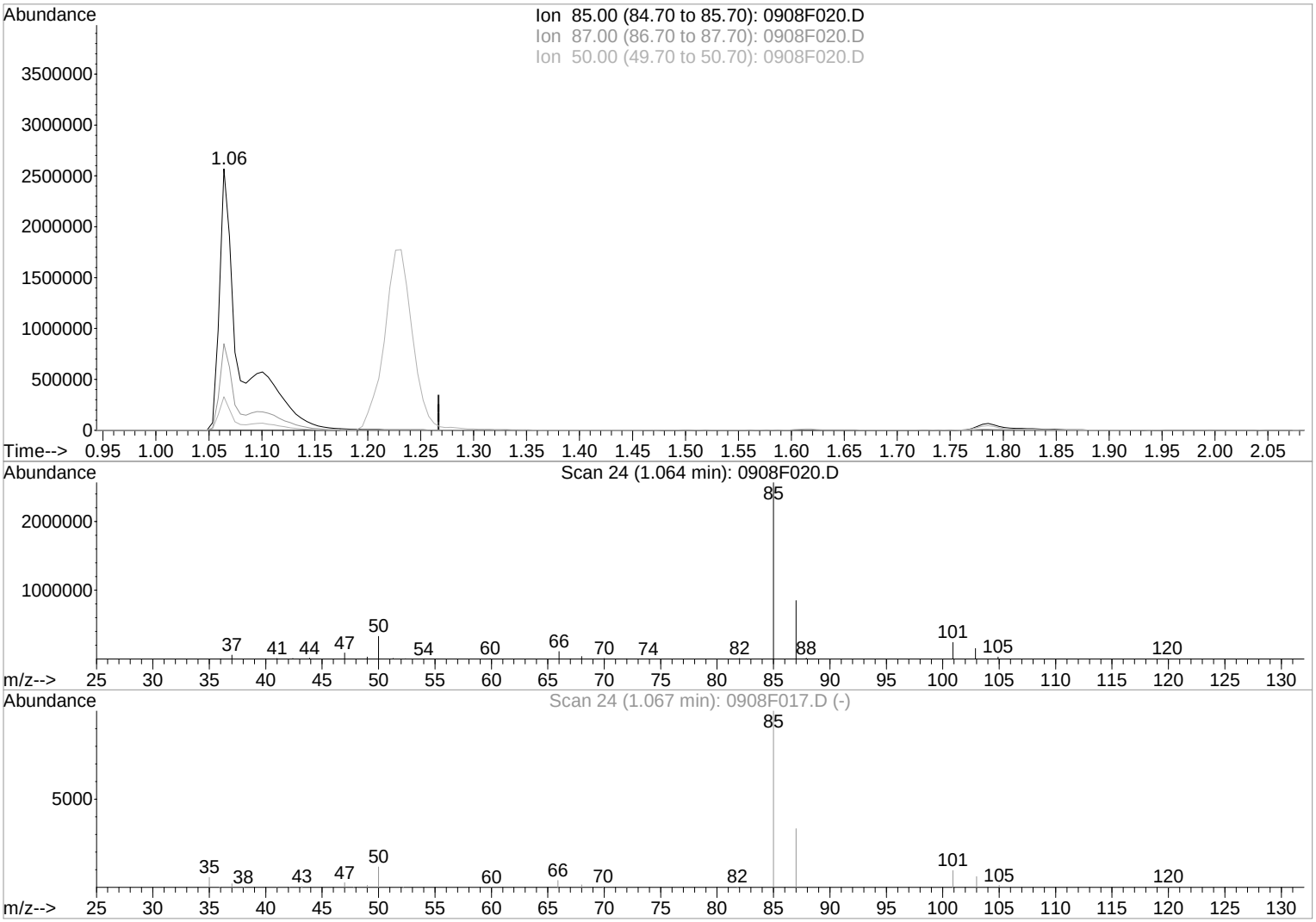
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:34 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:34:38 2023
Response via : Multiple Level Calibration



TIC: 0908F020.D

(2) Dichlorodifluoromethane (T)

1.06min 111.02PPB m

response 3540974

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	33.07
50.00	11.40	12.81
0.00	0.00	0.00

Manual Integration:

After

Split peak

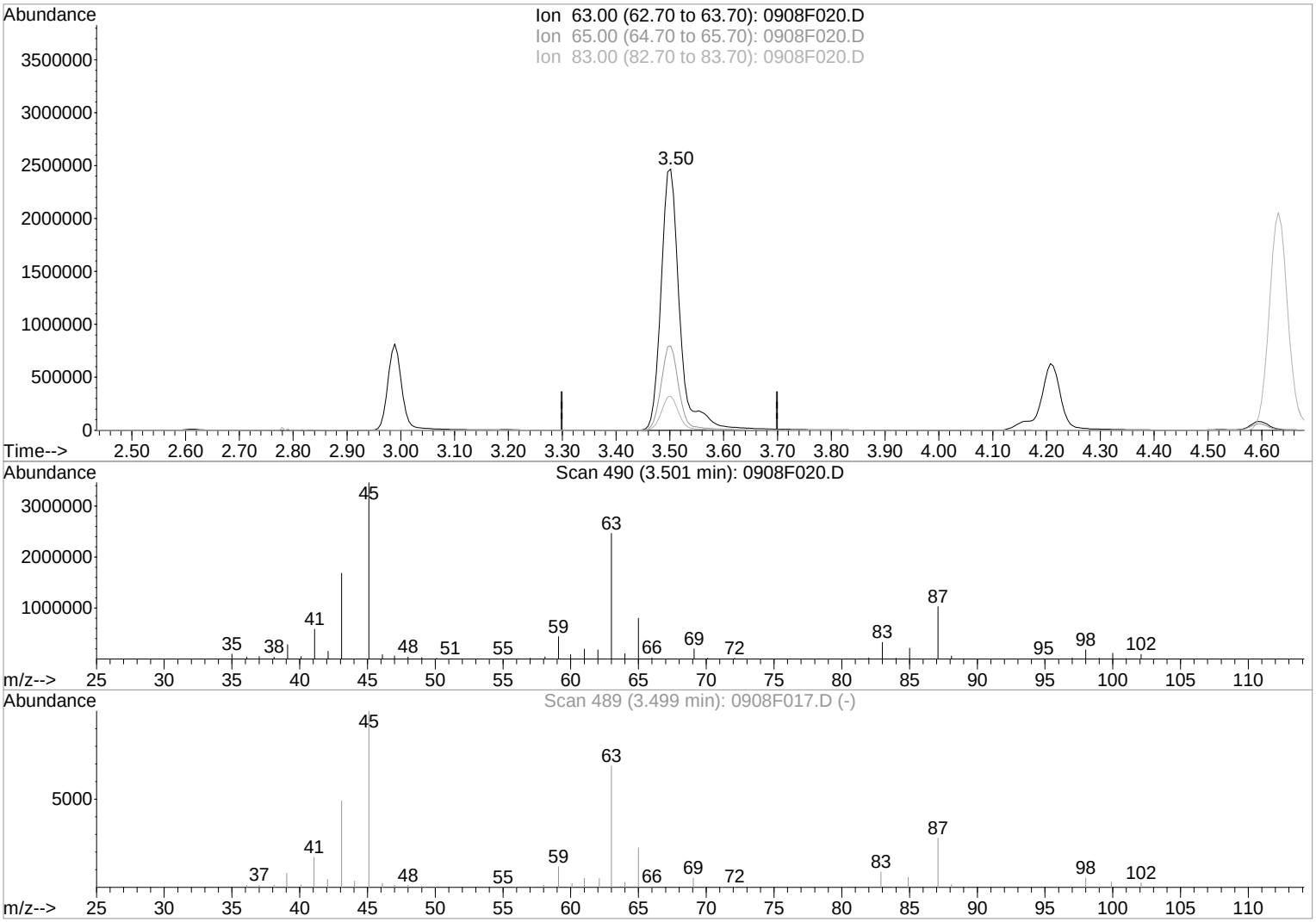
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:53 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:53:13 2023
Response via : Multiple Level Calibration



TIC: 0908F020.D

(27) 1,1-Dichloroethane (PT)

3.50min 76.74PPB

response 5987475

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.29
83.00	12.70	13.07
0.00	0.00	0.00

Manual Integration:

Before

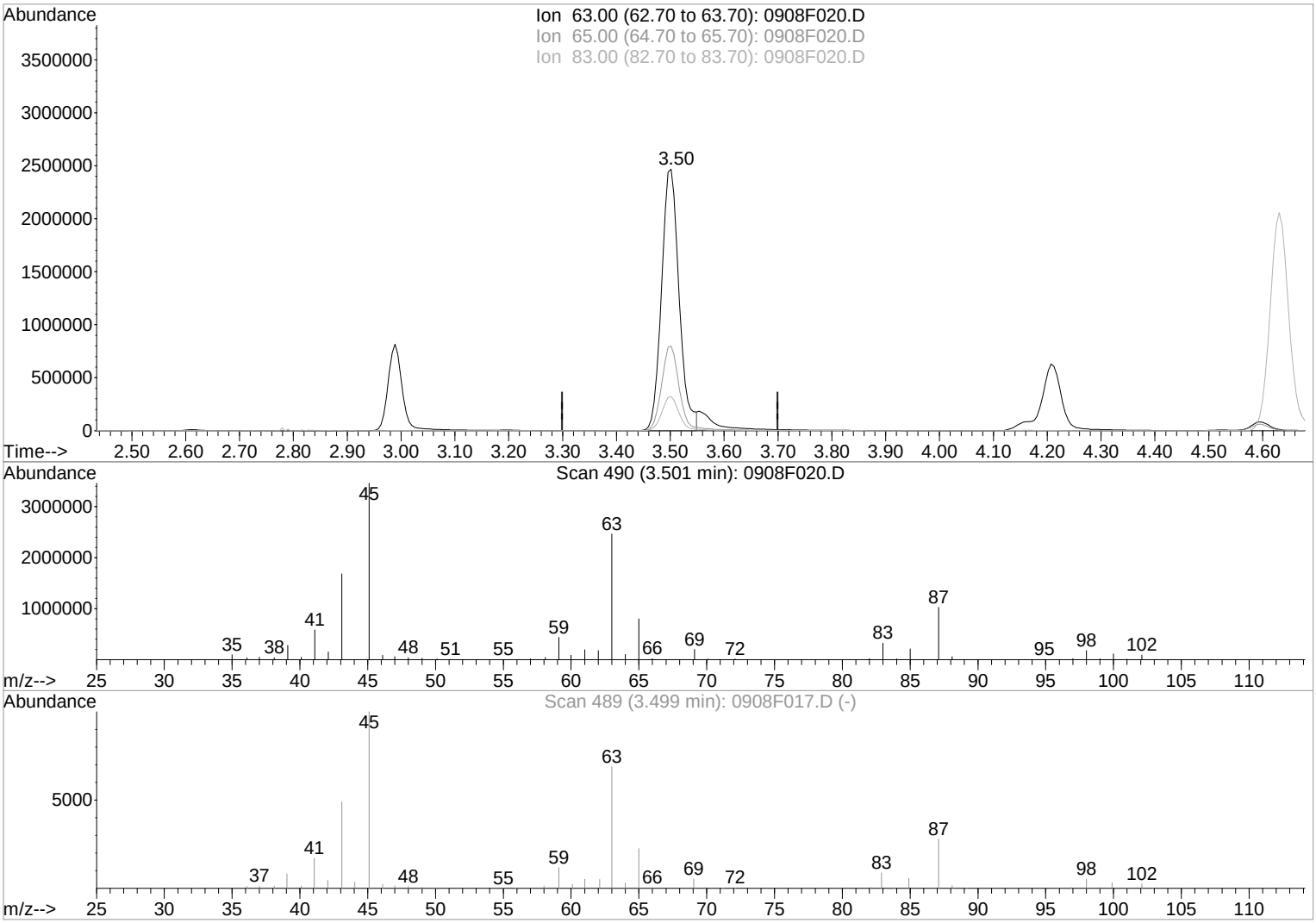
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:53 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:53:13 2023
Response via : Multiple Level Calibration



TIC: 0908F020.D

(27) 1,1-Dichloroethane (PT)

3.50min 71.44PPB m

response 5574306

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	32.29
83.00	12.70	13.07
0.00	0.00	0.00

Manual Integration:

After

Shoulder

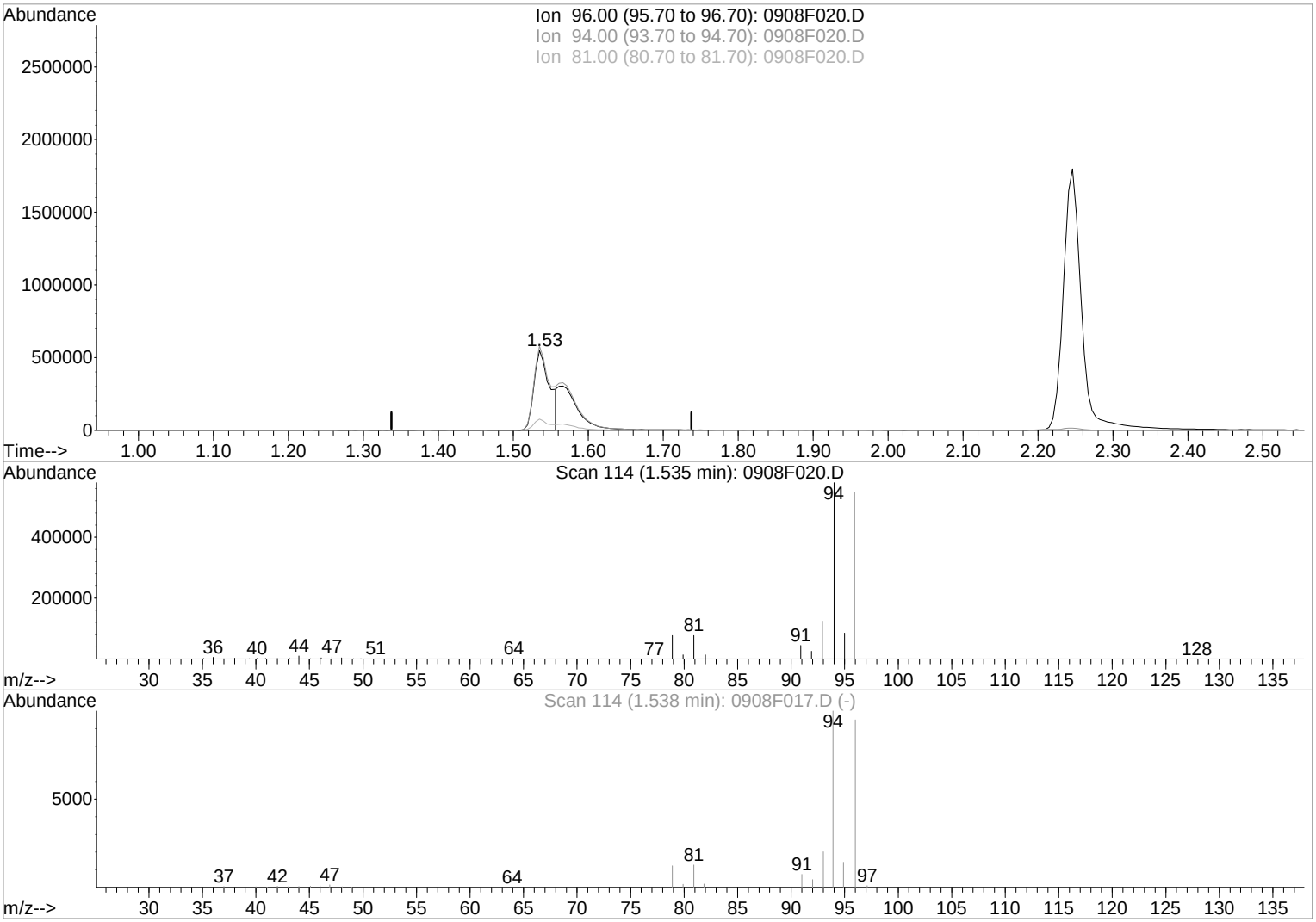
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 8:59 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:53:13 2023
Response via : Single Level Calibration



TIC: 0908F020.D

(5) Bromomethane (T)

1.53min 45.10PPB

response 796353

Ion	Exp%	Act%
96.00	100	100
94.00	105.40	105.77
81.00	13.30	13.89
0.00	0.00	0.00

Manual Integration:

Before

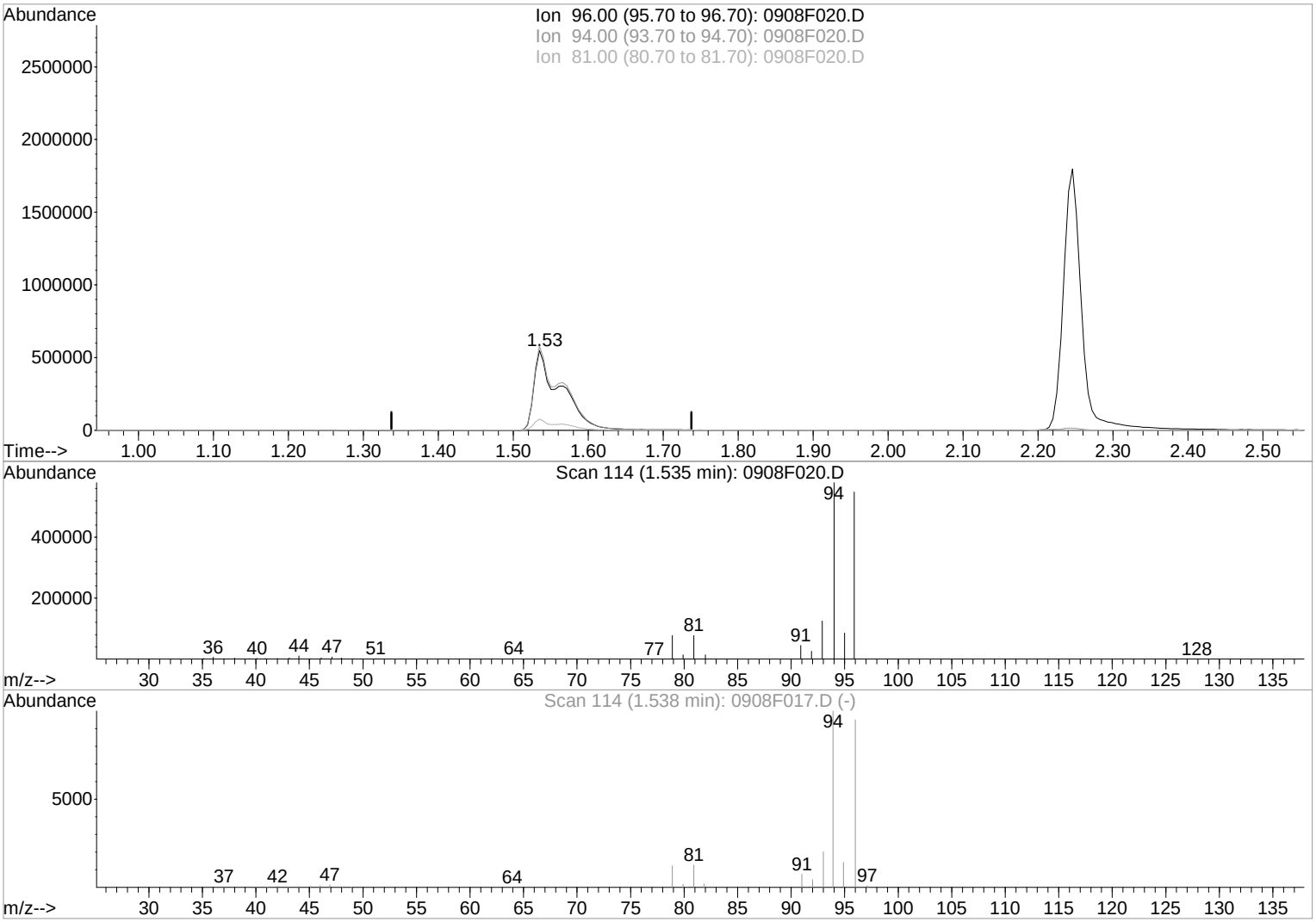
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:53 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:53:13 2023
Response via : Single Level Calibration



TIC: 0908F020.D

(5) Bromomethane (T)

1.53min 76.88PPB m

response 1357652

Ion	Exp%	Act%
96.00	100	100
94.00	105.40	105.77
81.00	13.30	14.01
0.00	0.00	0.00

Manual Integration:

After

Split peak

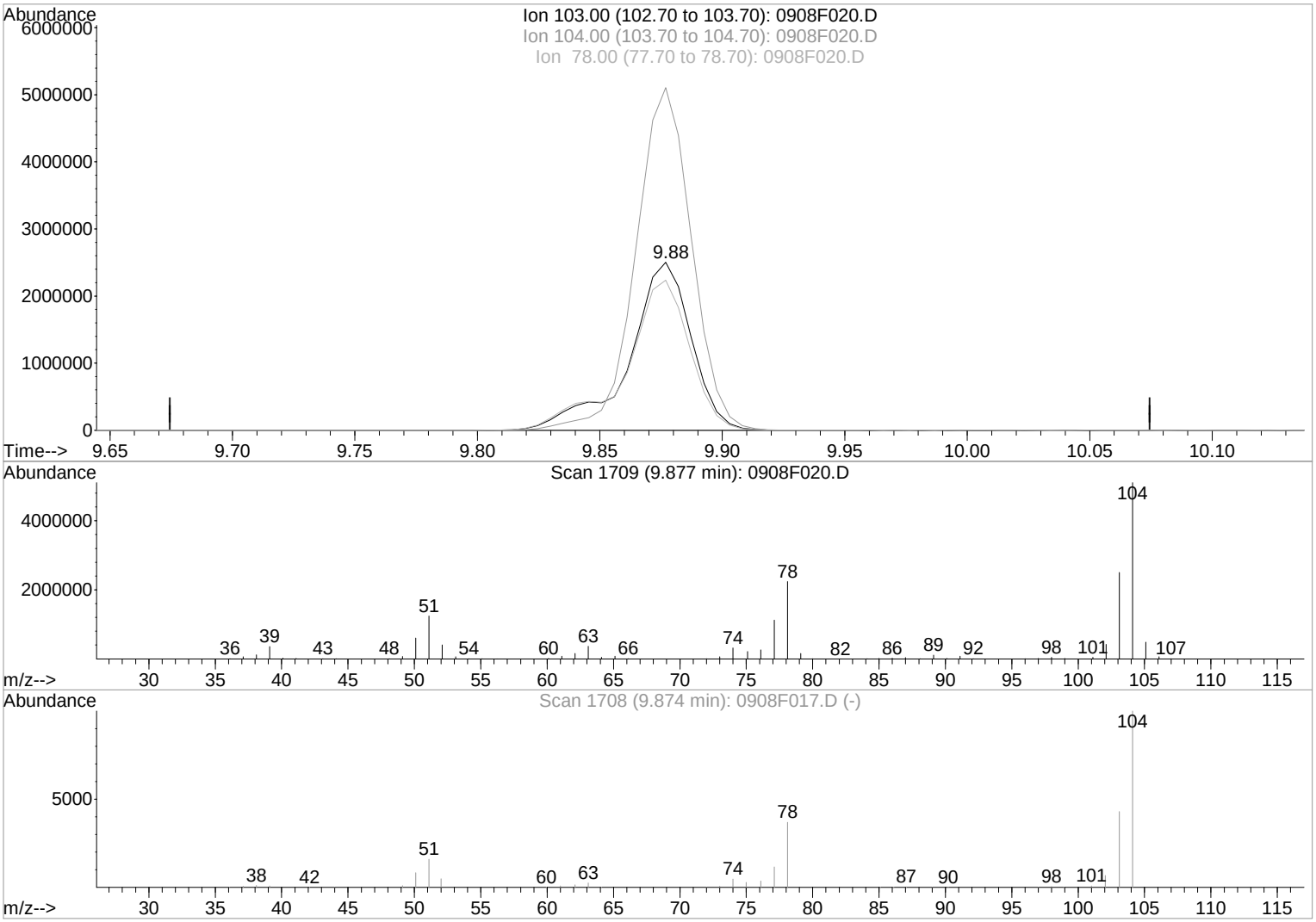
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:53 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:53:13 2023
Response via : Single Level Calibration



TIC: 0908F020.D

(80) Styrene (T)

9.88min 92.78PPB

response 4426502

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	204.11
78.00	87.20	89.40
0.00	0.00	0.00

Manual Integration:

Before

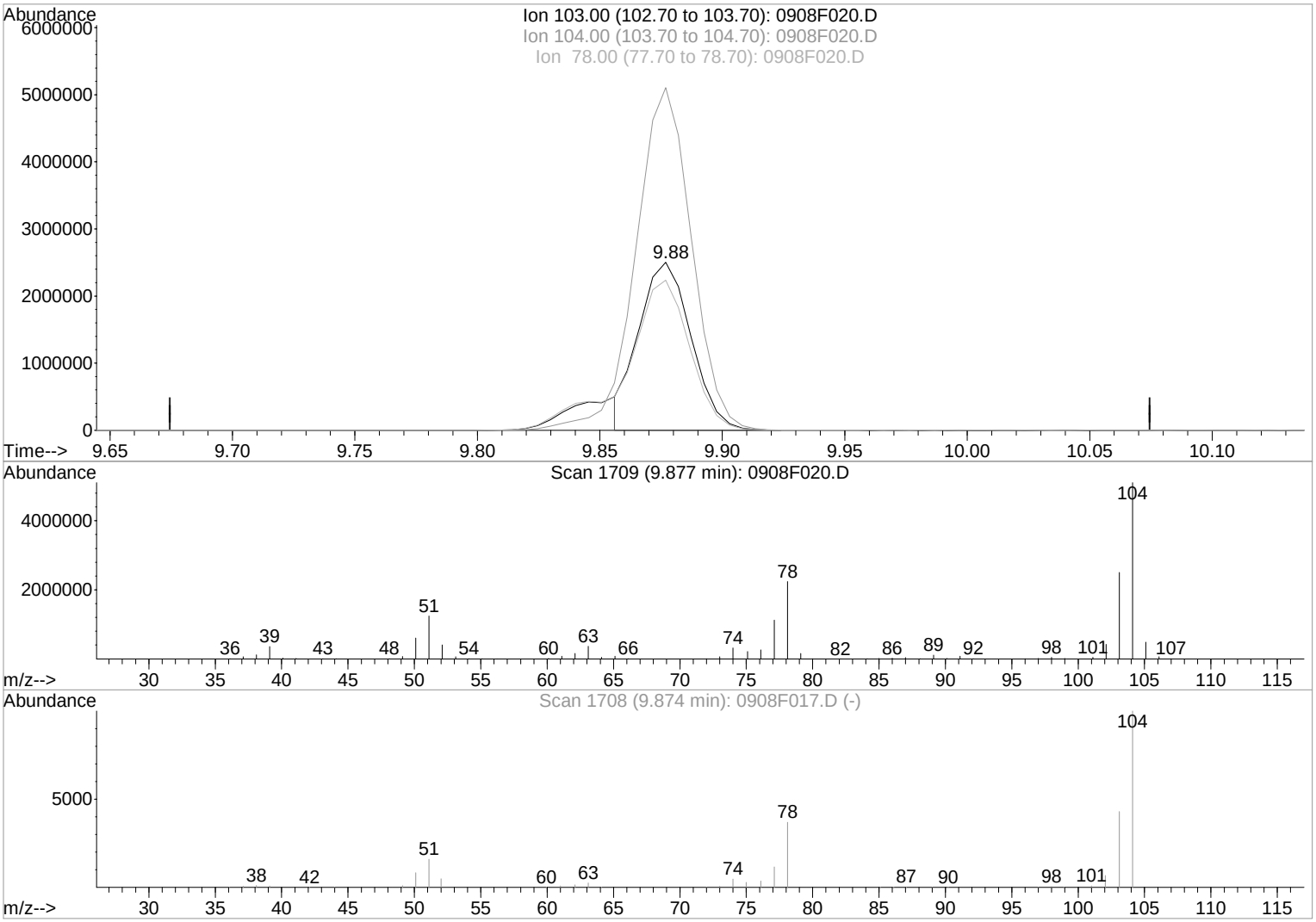
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F020.D Vial: 13
Acq On : 11 Sep 2023 7:04 pm Operator: EW/GH/MK/OT
Sample : ICAL 80 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:55 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:53:13 2023
Response via : Single Level Calibration



TIC: 0908F020.D

(80) Styrene (T)

9.88min 78.16PPB m

response 3728814

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	204.11
78.00	87.20	89.40
0.00	0.00	0.00

Manual Integration:

After

Shoulder

09/12/23

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:53 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1205936	10.00	PPB		0.00
64) Chlorobenzene-d5	9.17	82	463786	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	349770	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.86	113	253307	10.30	PPB		0.00
Spiked Amount 10.000			Recovery =	103.00%			
47) 1,2-Dichloroethane-d4	5.35	65	272550	9.94	PPB		0.00
Spiked Amount 10.000			Recovery =	99.40%			
62) Toluene-d8	7.59	98	1164633	10.15	PPB		0.00
Spiked Amount 10.000			Recovery =	101.50%			
84) 4-Bromofluorobenzene	10.42	95	376968	10.02	PPB		0.00
Spiked Amount 10.000			Recovery =	100.20%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.06	85	5175517m	165.87	PPB		
3) Chloromethane	1.22	50	4972546	119.56	PPB		99
4) Vinyl Chloride	1.28	62	5175299	121.23	PPB		98
5) Bromomethane	1.53	96	1965440	113.77	PPB		100
6) Chloroethane	1.61	64	2708627	99.84	PPB		98
7) Dichlorofluoromethane	1.78	67	6554001	109.41	PPB		97
8) Trichlorofluoromethane	1.78	101	6346084	114.13	PPB		99
9) Ethyl Ether	2.04	59	3086540	115.15	PPB		98
10) Acrolein	2.22	56	7849720	2196.95	PPB		99
11) Trichlorotrifluoroethane	2.21	151	2565942	124.43	PPB		98
12) 1,1-Dichloroethene	2.24	96	4500728	119.19	PPB		94
14) Iodomethane	2.40	142	19168699	463.16	PPB		95
15) Carbon Disulfide	2.43	76	11554712	126.91	PPB		99
16) 2-Propanol (Isopropyl Alco	2.49	45	6351062	8819.52	PPB		97
17) 3-Chloro-1-propene	2.61	76	2428055	131.90	PPB		93
18) Methyl Acetate	2.65	43	2671572	164.33	PPB		97
19) Acetonitrile	2.70	40	6630179	5073.98	PPB		95
20) Methylene Chloride	2.76	84	4803659	113.44	PPB		99
21) tert-Butyl Alcohol	2.89	59	772793	740.45	PPB		99
22) Acrylonitrile	3.10	53	3722103	472.67	PPB		99
23) Methyl tert-Butyl Ether	2.97	73	18631053	236.05	PPB		96
24) trans-1,2-Dichloroethene	2.99	96	4841101	119.32	PPB		98
25) Hexane	3.20	57	4932885	134.05	PPB		99
26) Diisopropyl Ether	3.50	45	13617931	116.10	PPB		96
27) 1,1-Dichloroethane	3.50	63	8233815m	107.87	PPB		
28) Vinyl Acetate	3.56	86	1550851	262.55	PPB	#	84
29) Chloroprene	3.55	53	22690957	420.71	PPB		90
30) tert-Butyl Ethyl Ether	3.93	59	12367422	128.93	PPB		97
31) 2,2-Dichloropropane	4.16	77	6752078	155.26	PPB		99
32) cis-1,2-Dichloroethene	4.21	96	5332755	119.05	PPB		100
33) 2-Butanone	4.27	72	5554226	2484.56	PPB	#	83
34) Ethyl Acetate	4.31	61	1004561	294.37	PPB		91
35) Propionitrile	4.46	54	1417645	500.16	PPB		97
36) Methacrylonitrile	4.60	67	4763445	492.34	PPB		98
37) Bromochloromethane	4.52	128	1962225	107.94	PPB		99
38) Tetrahydrofuran	4.53	71	310917	115.24	PPB		90
39) Chloroform	4.63	83	7618745	118.67	PPB		99
40) tert-Butyl Formate	4.66	59	1818499	216.43	PPB		93
41) Cyclohexane	4.75	56	7535529	126.89	PPB		99
42) 1,1,1-Trichloroethane	4.80	97	6851591	137.01	PPB		97
44) Carbon Tetrachloride	4.96	117	5622165	154.00	PPB		97
45) 1,1-Dichloropropene	5.03	75	6891345	129.19	PPB		98
46) Isobutyl Alcohol	5.36	43	3298506	6122.05	PPB		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 08:59:53 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 08:58:41 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Benzene	5.30	78	19327204	111.85	PPB		97
49)	1,2-Dichloroethane	5.45	62	5345893	115.65	PPB		99
50)	tert-Amyl Methyl Ether	5.46	55	2690851	105.22	PPB	#	59
51)	Trichloroethene	6.16	95	4890215	126.70	PPB		97
52)	Methylcyclohexane	6.29	83	5814282	134.92	PPB		98
53)	1,2-Dichloropropane	6.50	63	5016734	119.67	PPB		99
54)	Dibromomethane	6.64	93	2241859	122.12	PPB		98
55)	Methyl methacrylate	6.66	69	2213226	137.65	PPB		98
56)	1,4-Dioxane	6.67	88	975689	6016.40	PPB		98
60)	cis-1,3-Dichloropropene	7.36	75	7462651	136.24	PPB		99
61)	4-Methyl-2-pentanone (MIBK	7.56	58	16281055	2119.57	PPB	#	42
63)	Toluene	7.67	92	11873577	114.74	PPB	#	75
65)	n-Octane	7.75	85	1941542	127.35	PPB		100
66)	trans-1,3-Dichloropropene	8.02	75	5934402	149.87	PPB		99
67)	Ethyl methacrylate	8.09	69	4009362	132.88	PPB		100
68)	1,1,2-Trichloroethane	8.21	83	2845765	117.32	PPB		99
69)	Tetrachloroethene	8.22	164	3432268	124.05	PPB		98
70)	2-Hexanone	8.48	57	5749894	2294.58	PPB	#	27
71)	1,3-Dichloropropane	8.39	76	6124855	113.70	PPB		98
72)	Dibromochloromethane	8.59	129	3446681	150.14	PPB		99
73)	1,2-Dibromoethane (EDB)	8.70	107	3089314	119.98	PPB		96
74)	1-Chlorohexane	9.19	91	4518859	130.99	PPB		98
75)	Chlorobenzene	9.20	112	11107112	110.23	PPB		96
76)	Ethylbenzene	9.30	106	6117871	117.23	PPB	#	57
77)	1,1,1,2-Tetrachloroethane	9.31	131	3721845	137.06	PPB		97
78)	m,p-Xylenes	9.43	106	13585272	215.25	PPB	#	46
79)	o-Xylene	9.84	106	7075306	116.51	PPB		88
80)	Styrene	9.88	103	5770972m	120.97	PPB		
82)	Isopropylbenzene	10.22	105	14641925	110.31	PPB		87
86)	1,1,2,2-Tetrachloroethane	10.62	83	3003747	122.83	PPB		99
87)	trans-1,4-Dichloro-2-buten	10.69	53	909938m	142.75	PPB		
88)	Bromobenzene	10.55	156	4138111	120.34	PPB		98
90)	1,2,3-Trichloropropane	10.66	110	933174	118.72	PPB		99
91)	2-Chlorotoluene	10.75	91	10624013	115.86	PPB		96
92)	1,3,5-Trimethylbenzene	10.84	105	11646501	118.18	PPB		96
93)	4-Chlorotoluene	10.87	91	12420617	115.18	PPB		98
94)	tert-Butylbenzene	11.16	119	9537060	121.62	PPB		95
95)	1,2,4-Trimethylbenzene	11.22	105	11645350	115.23	PPB		96
96)	sec-Butylbenzene	11.38	105	11926212	120.33	PPB		96
97)	p-Isopropyltoluene	11.54	119	10662325	121.05	PPB		94
98)	1,3-Dichlorobenzene	11.52	146	6418699	118.31	PPB		99
99)	1,4-Dichlorobenzene	11.62	146	6592892	118.34	PPB		99
100)	n-Butylbenzene	11.95	91	8928225	130.18	PPB		97
101)	1,2-Dichlorobenzene	11.99	146	5706472	119.42	PPB		98
102)	1,2-Dibromo-3-chloropropan	12.65	155	280163	187.27	PPB		87
103)	1,3,5-Trichlorobenzene	12.75	180	2855732	126.92	PPB		96
104)	1,2,4-Trichlorobenzene	13.21	180	2017056	132.96	PPB		99
105)	Hexachlorobutadiene	13.29	225	1223045	133.95	PPB		98
106)	Naphthalene	13.39	128	3441828	162.44	PPB		98
107)	1,2,3-Trichlorobenzene	13.59	180	1064645	137.79	PPB		97

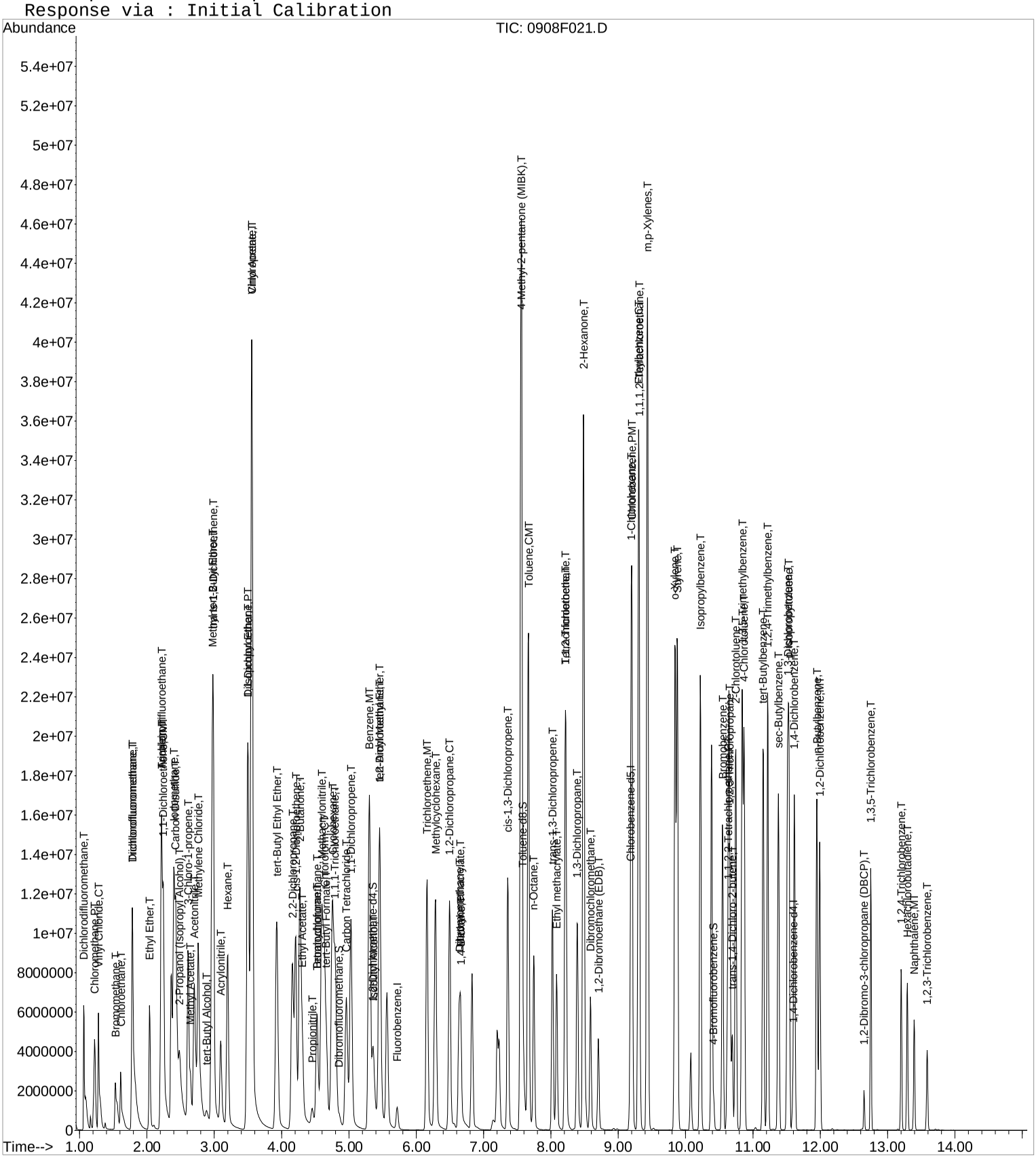
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:36 2023 Quant Results File: 091123MS23_8260.RES

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:47:04 2023
Response via : Initial Calibration

09/12/23
09/18/23
1st
2nd



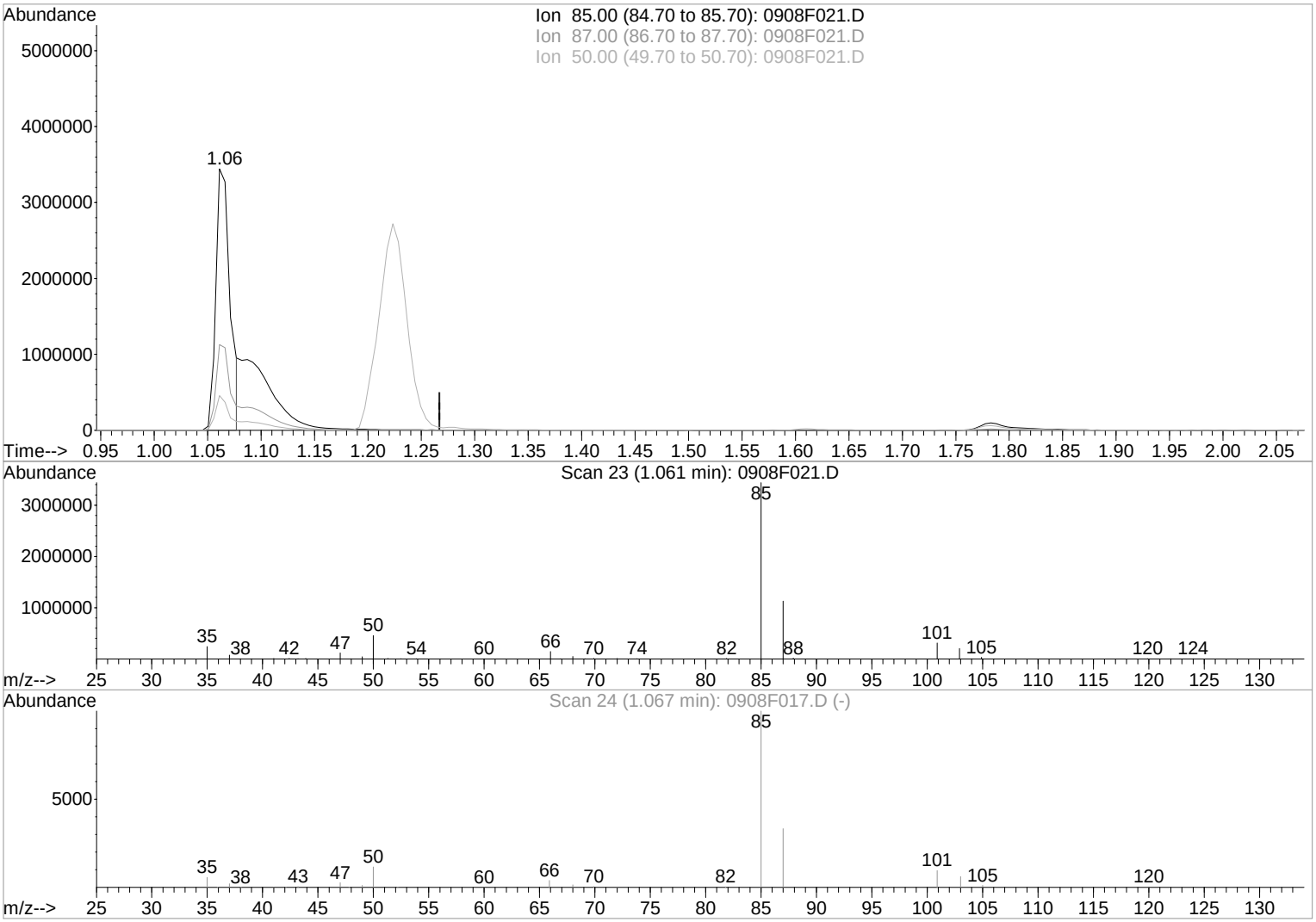
Page 1115 of 1452

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:59 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:35:05 2023
Response via : Multiple Level Calibration



TIC: 0908F021.D

(2) Dichlorodifluoromethane (T)

1.06min 102.06PPB m

response 3184396

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	32.72
50.00	11.40	13.20
0.00	0.00	0.00

Manual Integration:

Before

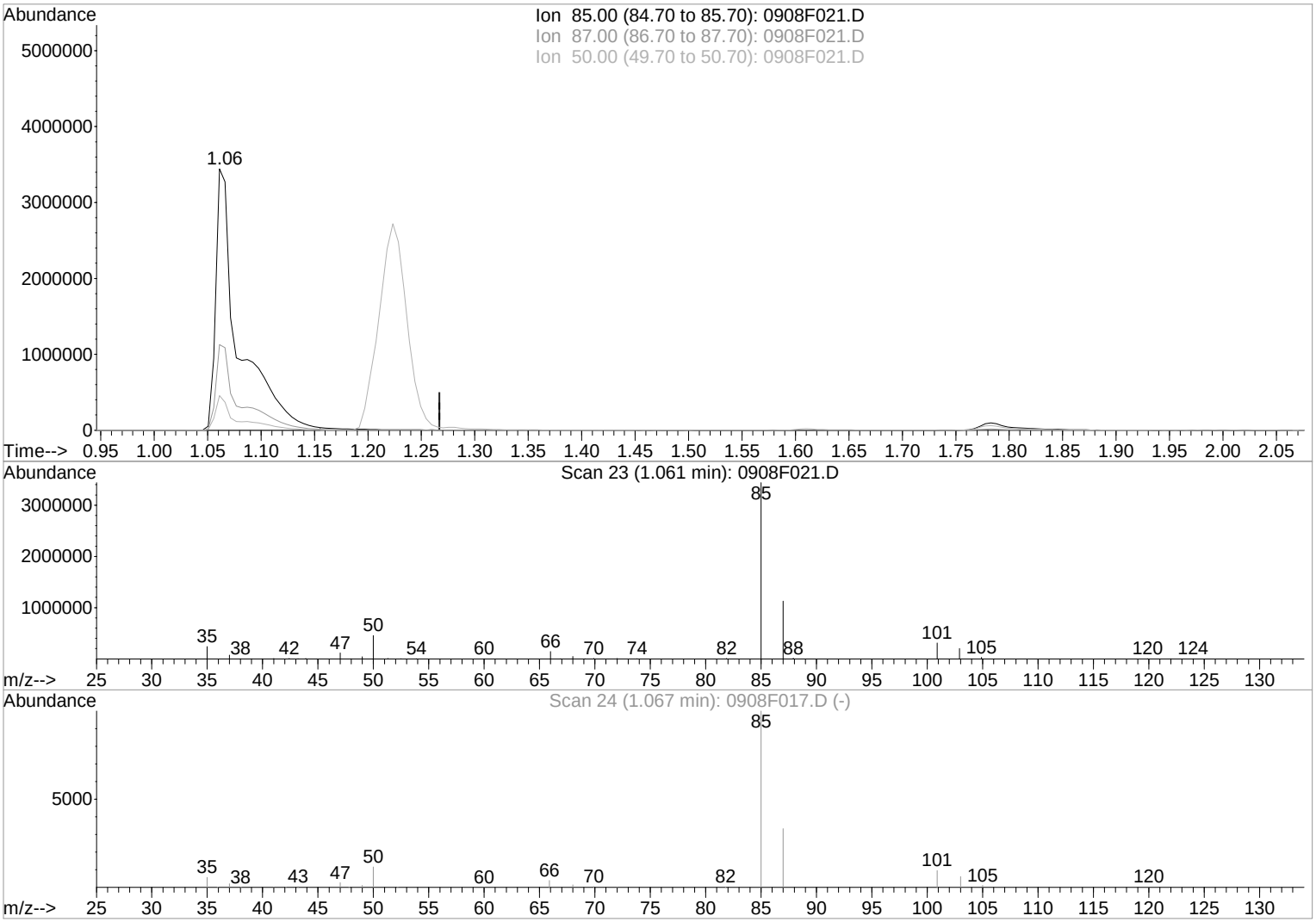
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:35 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:35:05 2023
Response via : Multiple Level Calibration



TIC: 0908F021.D

(2) Dichlorodifluoromethane (T)

1.06min 165.87PPB m

response 5175517

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	32.72
50.00	11.40	13.20
0.00	0.00	0.00

Manual Integration:

After

Split peak

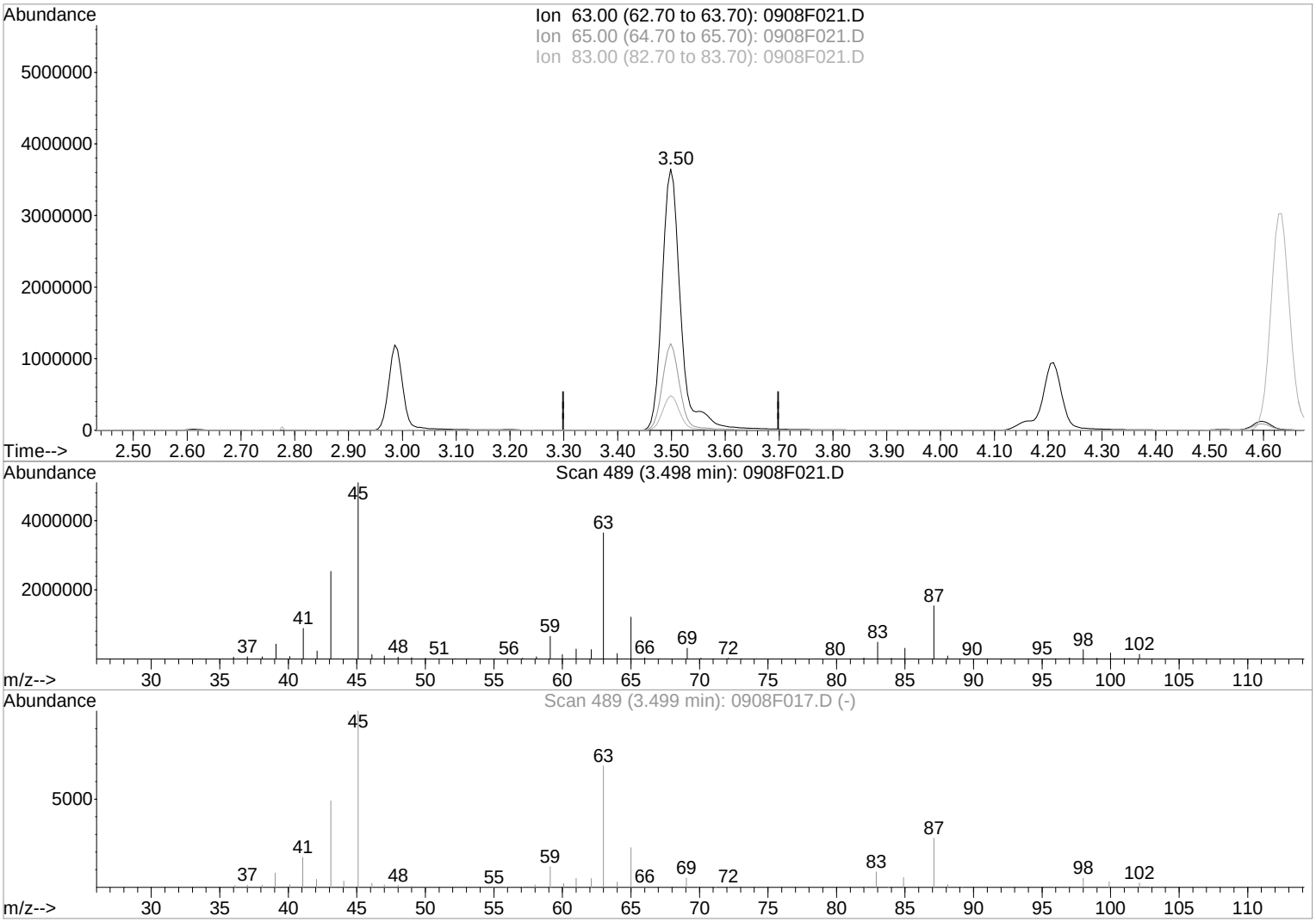
09/15/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:56 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:56:01 2023
Response via : Multiple Level Calibration



TIC: 0908F021.D

(27) 1,1-Dichloroethane (PT)

3.50min 116.24PPB

response 8872054

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	33.13
83.00	12.70	13.29
0.00	0.00	0.00

Manual Integration:

Before

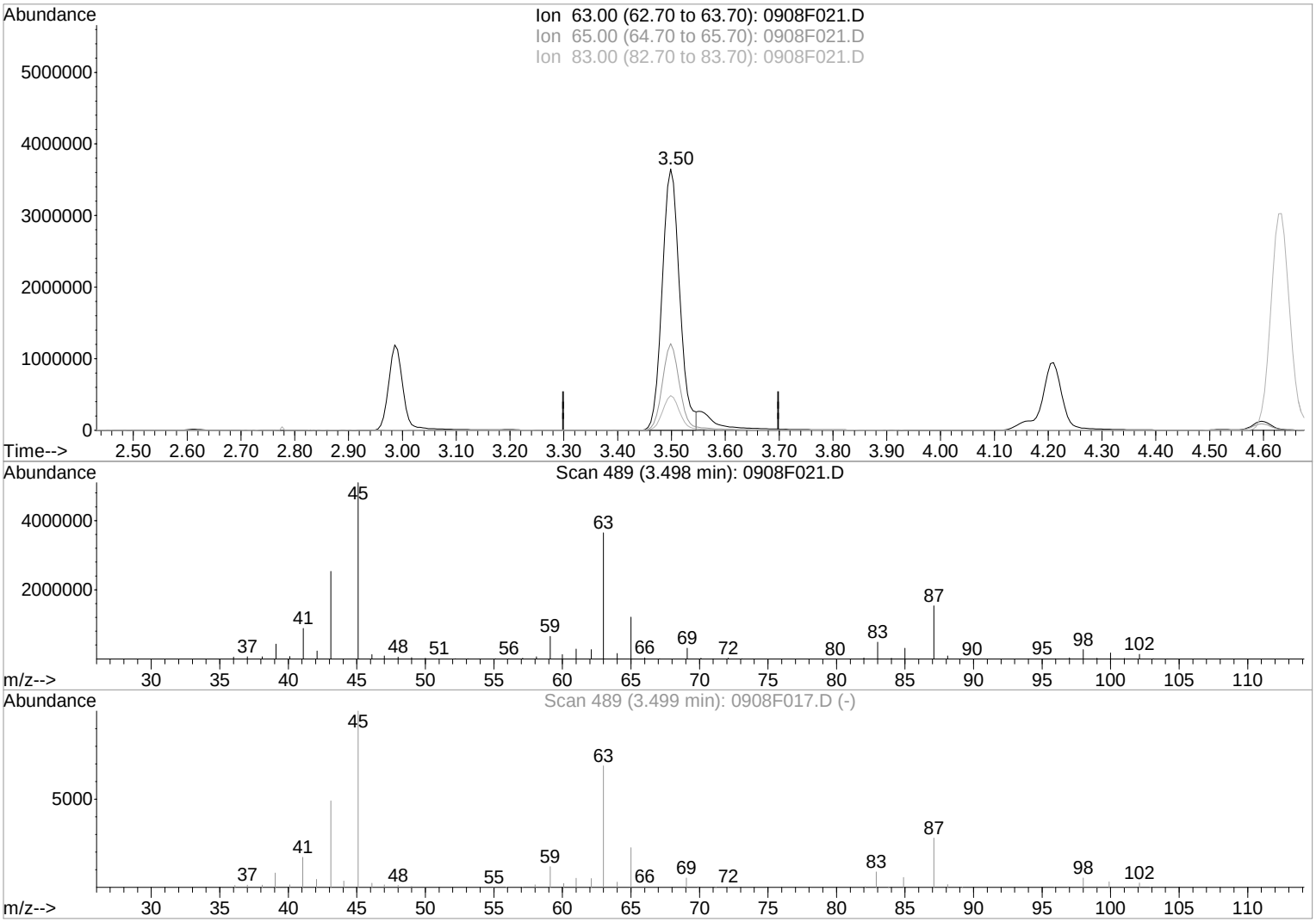
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:57 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:56:01 2023
Response via : Multiple Level Calibration



TIC: 0908F021.D

(27) 1,1-Dichloroethane (PT)

3.50min 107.87PPB m

response 8233815

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	33.13
83.00	12.70	13.29
0.00	0.00	0.00

Manual Integration:

After

Shoulder

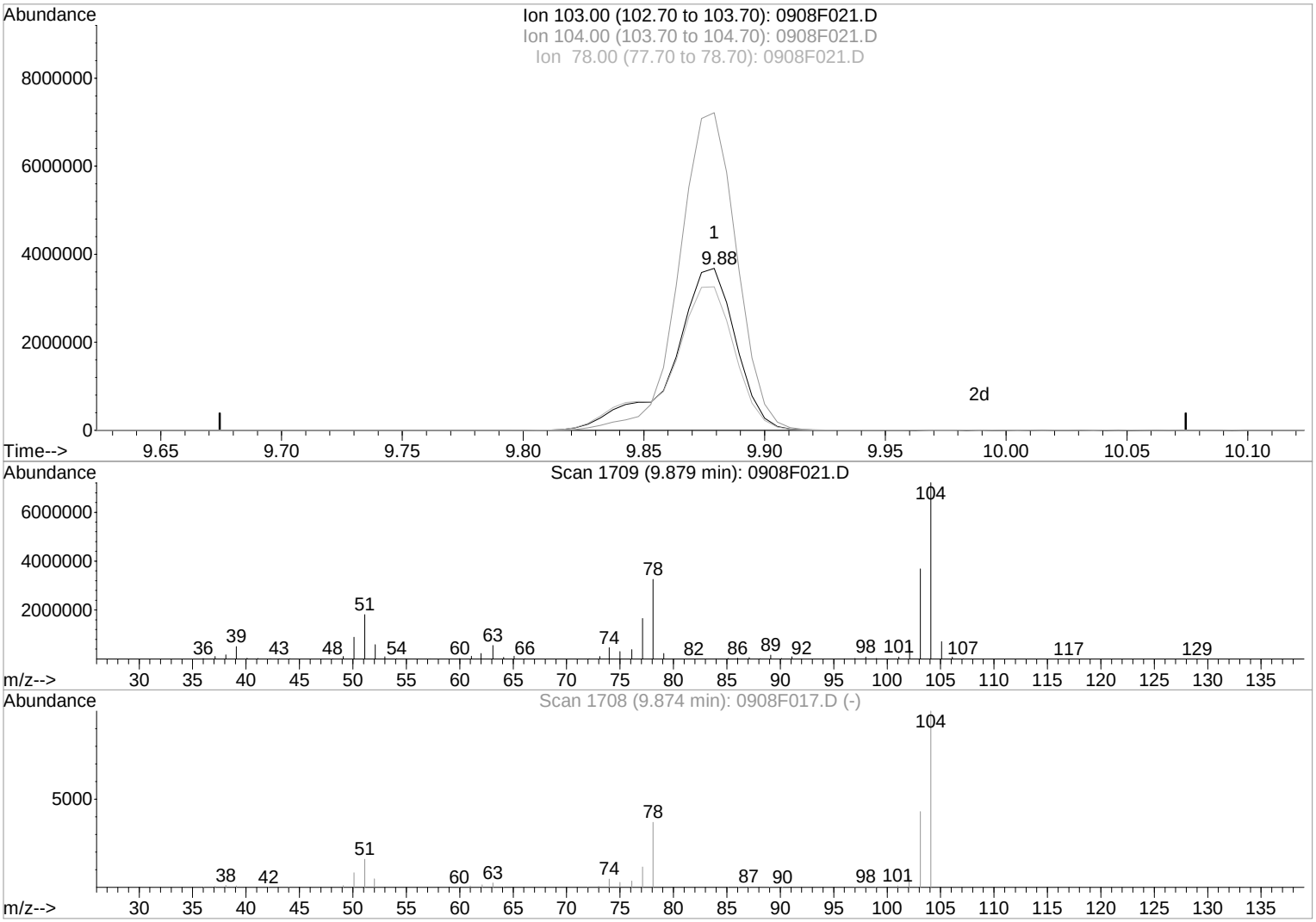
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:57 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:56:01 2023
Response via : Single Level Calibration



TIC: 0908F021.D

(80) Styrene (T)

9.88min 139.40PPB

response 6650390

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	196.23
78.00	87.20	88.60
0.00	0.00	0.00

Manual Integration:

Before

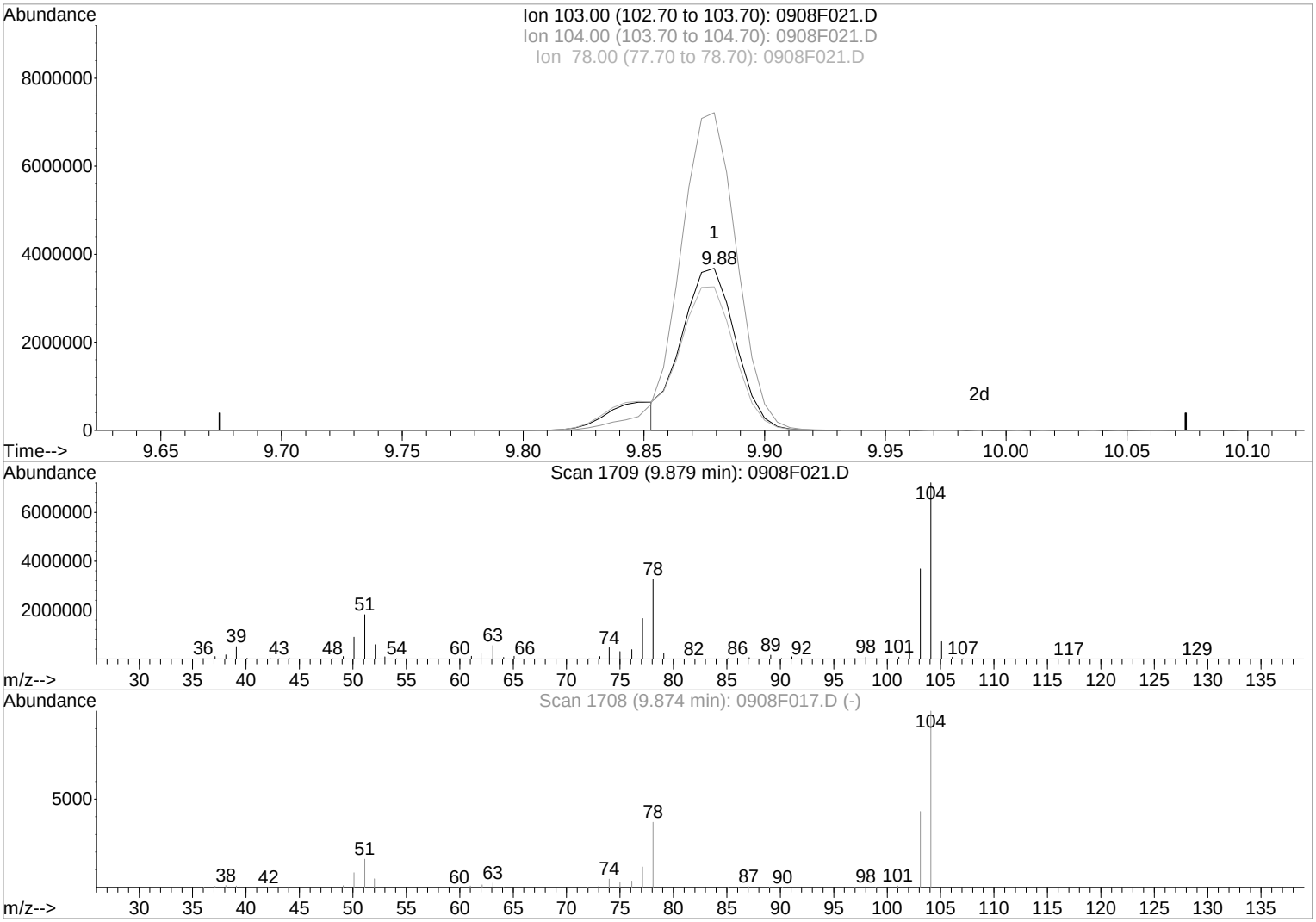
09/12/23

Quantitation Report (Qedit)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 12 9:59 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Tue Sep 12 09:56:01 2023
Response via : Single Level Calibration



TIC: 0908F021.D

(80) Styrene (T)

9.88min 120.97PPB m

response 5770972

Ion	Exp%	Act%
103.00	100	100
104.00	210.00	196.23
78.00	87.20	88.60
0.00	0.00	0.00

Manual Integration:

After

Shoulder

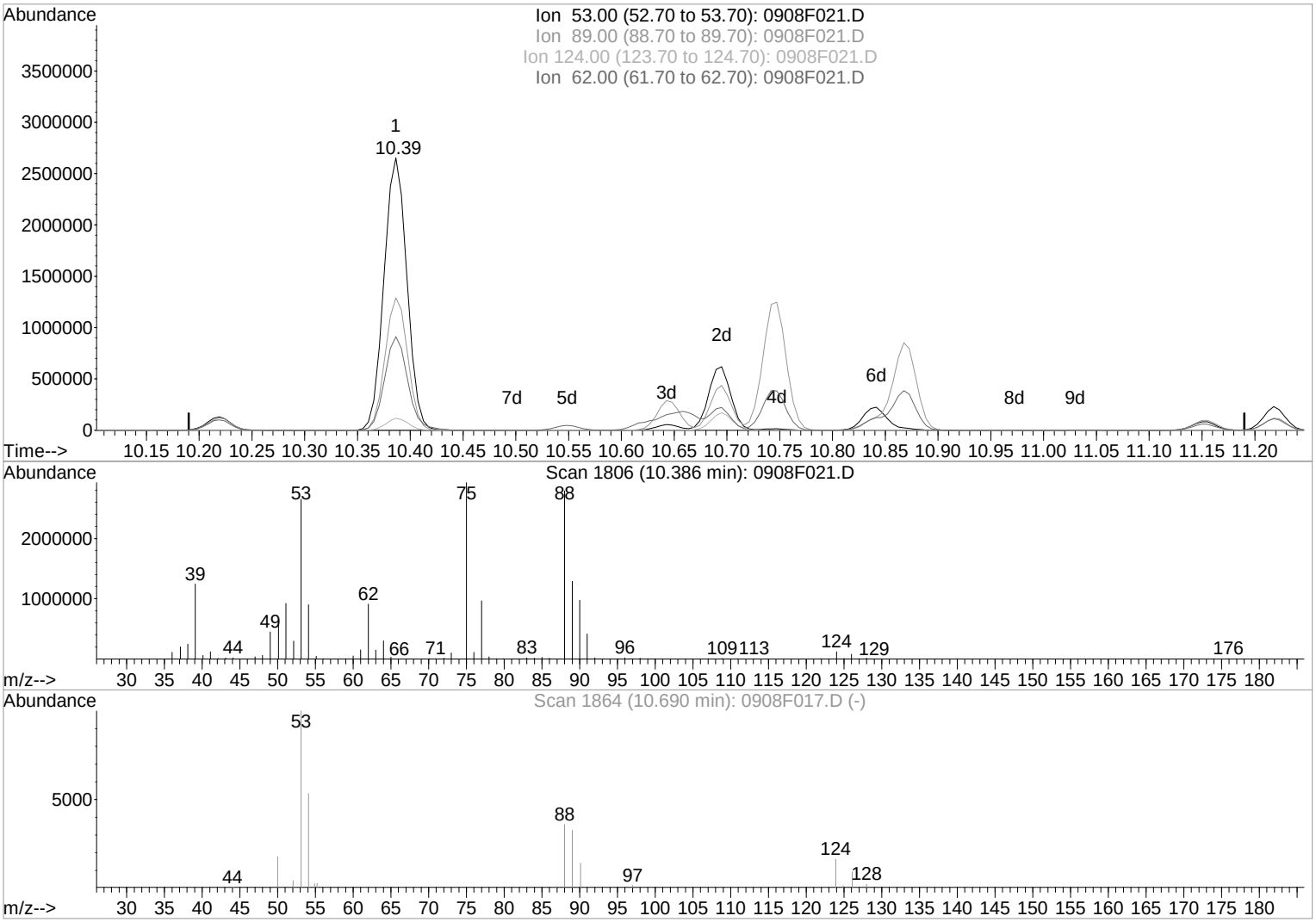
09/12/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:35 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:35:05 2023
Response via : Single Level Calibration



TIC: 0908F021.D

(87) trans-1,4-Dichloro-2-butene (T)

10.39min 630.26PPB

response 4017615

Ion	Exp%	Act%
53.00	100	100
89.00	32.20	48.65
124.00	16.20	4.36
62.00	7.60	34.33

Manual Integration:

Before

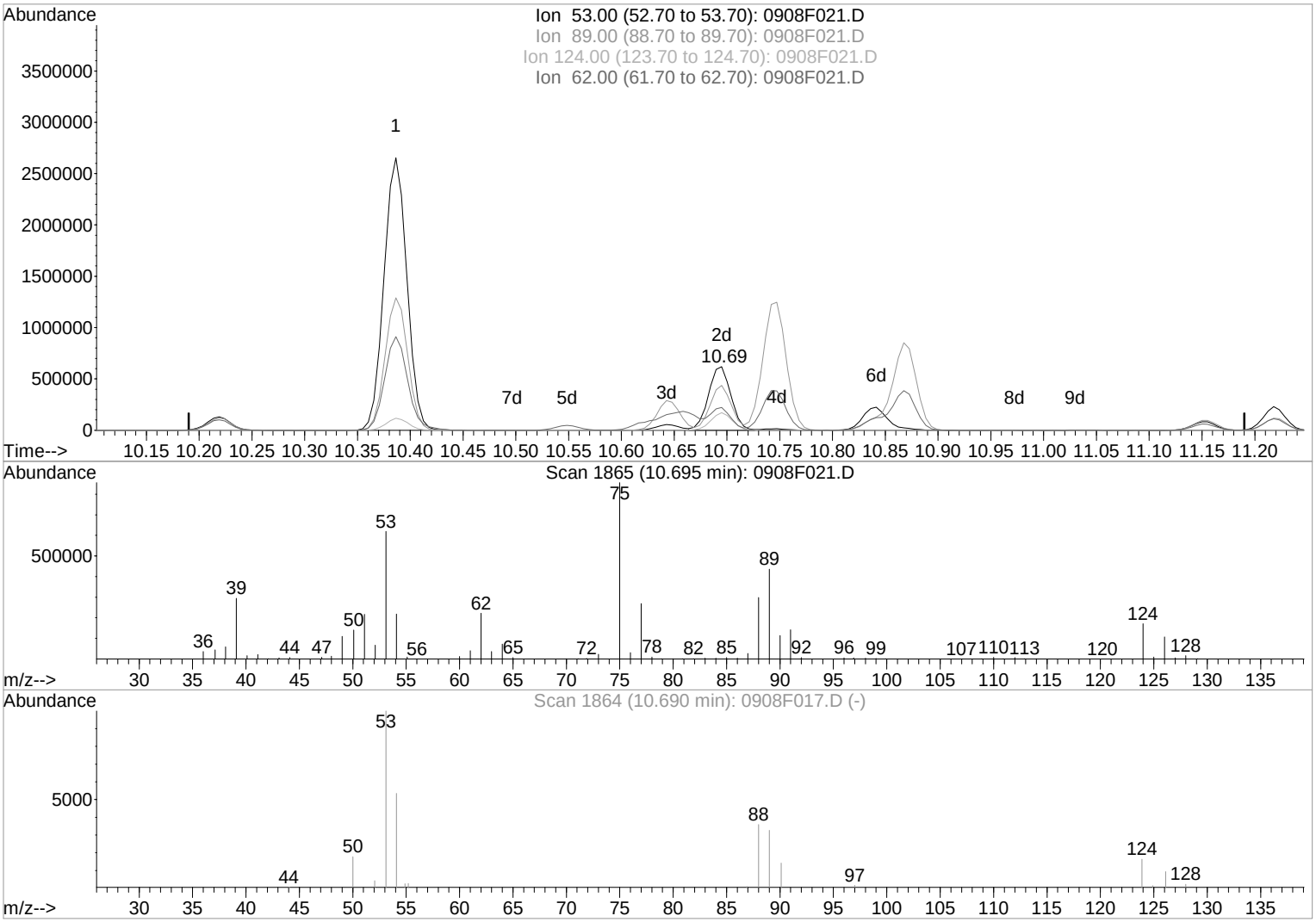
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F021.D Vial: 14
Acq On : 11 Sep 2023 7:28 pm Operator: EW/GH/MK/OT
Sample : ICAL 120 Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 8:35 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 08:35:05 2023
Response via : Single Level Calibration



TIC: 0908F021.D

(87) trans-1,4-Dichloro-2-butene (T)

10.69min 142.75PPB m

response 909938

Ion	Exp%	Act%
53.00	100	100
89.00	32.20	70.50#
124.00	16.20	27.58
62.00	7.60	35.89

Manual Integration:

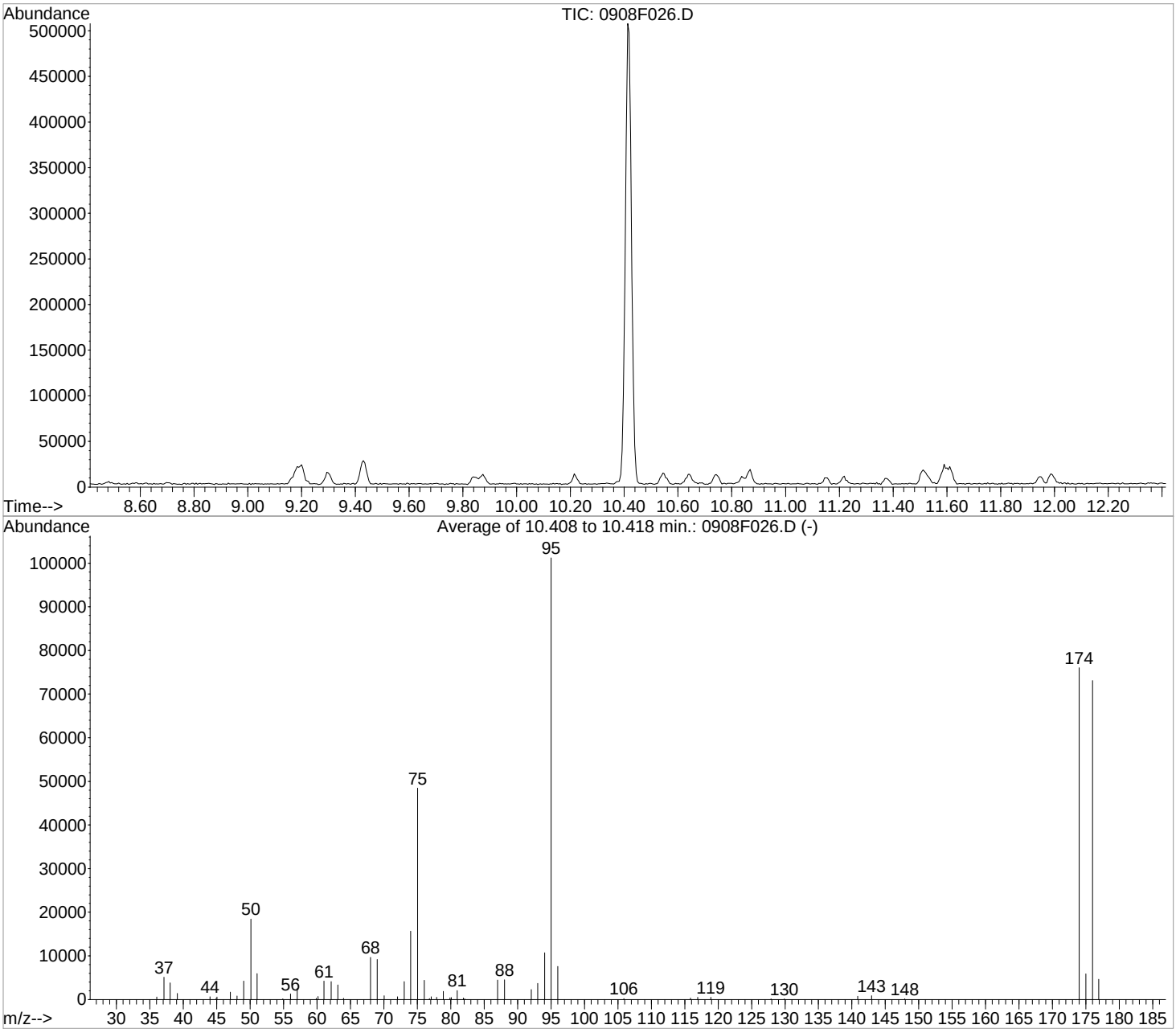
After

Wrong peak

09/15/23

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F026.D Vial: 19
Acq On : 12 Sep 2023 10:26 am Operator: EW/GH/MK/OT
Sample : BFB Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C



AutoFind: Scans 1810, 1811, 1812; Background Corrected with Scan 1803

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	18405	PASS
75	95	30	60	47.9	48429	PASS
95	95	100	100	100.0	101205	PASS
96	95	5	9	7.5	7552	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	75.1	76024	PASS
175	174	5	9	7.7	5878	PASS
176	174	95	101	96.1	73082	PASS
177	176	5	9	6.3	4633	PASS

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : I:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 18 16:33:47 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	5.72	96	1190981	10.00	PPB		0.00
64) Chlorobenzene-d5	9.17	82	446589	10.00	PPB		0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	342368	10.00	PPB		0.00
System Monitoring Compounds							
43) Dibromofluoromethane	4.85	113	239127	9.84	PPB		0.00
Spiked Amount 10.000			Recovery =	98.40%			
47) 1,2-Dichloroethane-d4	5.35	65	270728	9.99	PPB		0.00
Spiked Amount 10.000			Recovery =	99.90%			
62) Toluene-d8	7.59	98	1123991	9.90	PPB		0.00
Spiked Amount 10.000			Recovery =	99.00%			
84) 4-Bromofluorobenzene	10.42	95	364113	10.03	PPB		0.00
Spiked Amount 10.000			Recovery =	100.30%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.07	85	315140m	7.32	PPB		
3) Chloromethane	1.23	50	362342	8.79	PPB		97
4) Vinyl Chloride	1.28	62	393870	9.38	PPB		100
5) Bromomethane	1.54	96	172530	10.19	PPB		98
6) Chloroethane	1.61	64	233561	8.76	PPB		99
7) Dichlorofluoromethane	1.78	67	584555	9.93	PPB		97
8) Trichlorofluoromethane	1.79	101	517936	9.65	PPB		100
9) Ethyl Ether	2.04	59	278117	11.14	PPB		96
10) Acrolein	2.22	56	362370	114.22	PPB		99
11) Trichlorotrifluoroethane	2.22	151	472930	23.30	PPB		98
12) 1,1-Dichloroethene	2.24	96	320246	8.99	PPB		99
13) Acetone	2.36	43	240886	51.28	PPB		99
14) Iodomethane	2.40	142	1269547	34.16	PPB		99
15) Carbon Disulfide	2.43	76	1562049	16.79	PPB		99
16) 2-Propanol (Isopropyl Alco	2.49	45	371905	505.48	PPB		98
17) 3-Chloro-1-propene	2.61	76	601943	35.58	PPB		96
19) Acetonitrile	2.70	40	369972	284.01	PPB		96
20) Methylene Chloride	2.76	84	383841	8.69	PPB		99
21) tert-Butyl Alcohol	2.88	59	102085	94.88	PPB		97
22) Acrylonitrile	3.10	53	302185	40.69	PPB		99
23) Methyl tert-Butyl Ether	2.97	73	711658	9.71	PPB		98
24) trans-1,2-Dichloroethene	2.99	96	362565	9.41	PPB		99
25) Hexane	3.20	57	1207336	33.37	PPB		97
26) Diisopropyl Ether	3.50	45	2174033	20.24	PPB		99
27) 1,1-Dichloroethane	3.50	63	629780m	9.38	PPB		
28) Vinyl Acetate	3.56	86	273757	50.07	PPB	#	88
29) Chloroprene	3.56	53	1777707	36.46	PPB		99
30) tert-Butyl Ethyl Ether	3.93	59	1784578	19.89	PPB		99
31) 2,2-Dichloropropane	4.16	77	420236	9.99	PPB		98
32) cis-1,2-Dichloroethene	4.21	96	403746	9.46	PPB		99
33) 2-Butanone	4.28	72	105484	50.64	PPB		88
34) Ethyl Acetate	4.30	61	94578	27.39	PPB		91
35) Propionitrile	4.45	54	77046	28.04	PPB		96
36) Methacrylonitrile	4.60	67	280739	31.56	PPB		98
37) Bromochloromethane	4.52	128	161311	9.88	PPB		98
38) Tetrahydrofuran	4.54	71	48144	18.54	PPB		96
39) Chloroform	4.63	83	590553	9.84	PPB		98
40) tert-Butyl Formate	4.66	59	209022	21.77	PPB		91
42) 1,1,1-Trichloroethane	4.79	97	454996	9.74	PPB		97
44) Carbon Tetrachloride	4.96	117	323907	9.32	PPB		99
45) 1,1-Dichloropropene	5.03	75	501194	9.71	PPB		99
46) Isobutyl Alcohol	5.36	43	144737	264.01	PPB		96
48) Benzene	5.30	78	1551545	9.39	PPB		99

(#) = qualifier out of range (m) = manual integration

1st 09/12/23
2nd 09/18/23

Data File : I:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 18 16:33:47 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	1,2-Dichloroethane	5.45	62	425545	9.38	PPB	98
50)	tert-Amyl Methyl Ether	5.46	55	446604	18.27	PPB	91
51)	Trichloroethene	6.15	95	354207	9.27	PPB	100
53)	1,2-Dichloropropane	6.49	63	372793	9.38	PPB	98
54)	Dibromomethane	6.63	93	165949	9.98	PPB	98
55)	Methyl methacrylate	6.66	69	455198	29.26	PPB	97
56)	1,4-Dioxane	6.67	88	62517m	326.53	PPB	
57)	Bromodichloromethane	6.83	83	352343	9.43	PPB	99
58)	2-Nitropropane	7.20	41	88053	26.27	PPB	91
59)	2-Chloroethyl Vinyl Ether	7.23	63	156418	11.30	PPB	96
60)	cis-1,3-Dichloropropene	7.36	75	489109	8.49	PPB	100
61)	4-Methyl-2-pentanone (MIBK	7.56	58	370058	51.95	PPB	98
63)	Toluene	7.66	92	918714	9.18	PPB	99
65)	n-Octane	7.74	85	258445	17.63	PPB	97
66)	trans-1,3-Dichloropropene	8.02	75	357173	8.76	PPB	99
67)	Ethyl methacrylate	8.08	69	929384	31.65	PPB	100
68)	1,1,2-Trichloroethane	8.21	83	215493	9.42	PPB	99
69)	Tetrachloroethene	8.22	164	248193	9.23	PPB	96
70)	2-Hexanone	8.48	57	117336	53.63	PPB	99
71)	1,3-Dichloropropane	8.39	76	479710	9.63	PPB	99
72)	Dibromochloromethane	8.58	129	196938	8.24	PPB	99
73)	1,2-Dibromoethane (EDB)	8.70	107	228694	9.94	PPB	97
74)	1-Chlorohexane	9.19	91	330333	9.86	PPB	97
75)	Chlorobenzene	9.20	112	908875	9.48	PPB	99
76)	Ethylbenzene	9.30	106	468016	9.78	PPB	98
77)	1,1,1,2-Tetrachloroethane	9.31	131	239291	9.53	PPB	96
78)	m,p-Xylenes	9.43	106	1124449	19.36	PPB	100
79)	o-Xylene	9.84	106	539591	9.69	PPB	98
80)	Styrene	9.87	103	432999m	10.08	PPB	
81)	Bromoform	10.08	173	77704	8.87	PPB	99
82)	Isopropylbenzene	10.22	105	1194547	10.23	PPB	99
83)	cis-1,4-Dichloro-2-butene	10.39	89	66220	25.32	PPB	95
86)	1,1,2,2-Tetrachloroethane	10.62	83	220748	9.79	PPB	98
87)	trans-1,4-Dichloro-2-buten	10.69	53	181024	29.98	PPB	85
88)	Bromobenzene	10.55	156	320327	9.70	PPB	97
89)	n-Propylbenzene	10.64	91	1307831	10.19	PPB	99
90)	1,2,3-Trichloropropane	10.66	110	69678	9.40	PPB	96
91)	2-Chlorotoluene	10.74	91	843482	9.59	PPB	99
92)	1,3,5-Trimethylbenzene	10.84	105	900016	10.14	PPB	98
93)	4-Chlorotoluene	10.87	91	987406	9.78	PPB	99
94)	tert-Butylbenzene	11.15	119	732137	10.12	PPB	99
95)	1,2,4-Trimethylbenzene	11.22	105	918841	9.87	PPB	98
96)	sec-Butylbenzene	11.38	105	979306	10.93	PPB	99
97)	p-Isopropyltoluene	11.53	119	836856	10.26	PPB	99
98)	1,3-Dichlorobenzene	11.51	146	495971	9.47	PPB	99
99)	1,4-Dichlorobenzene	11.61	146	522142	9.40	PPB	98
100)	n-Butylbenzene	11.94	91	646294	10.55	PPB	99
101)	1,2-Dichlorobenzene	11.99	146	438988	9.46	PPB	98
102)	1,2-Dibromo-3-chloropropan	12.66	155	12335	7.21	PPB	97
103)	1,3,5-Trichlorobenzene	12.76	180	225261	10.12	PPB	99
104)	1,2,4-Trichlorobenzene	13.20	180	135316	9.20	PPB	97
105)	Hexachlorobutadiene	13.30	225	85205	9.36	PPB	98
106)	Naphthalene	13.40	128	178201	8.19	PPB	99
107)	1,2,3-Trichlorobenzene	13.59	180	65162	8.61	PPB	99

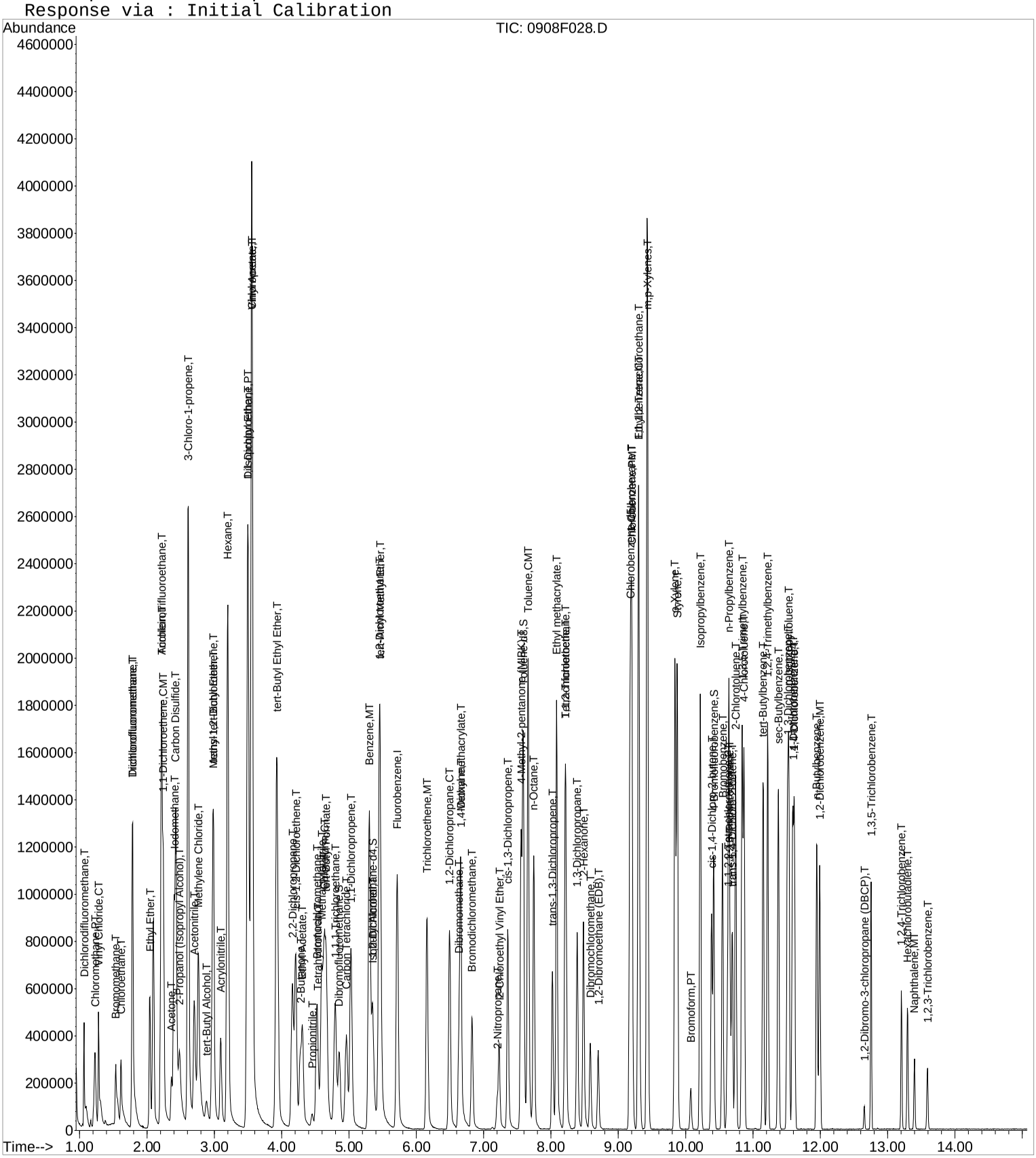
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : I:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 18 16:33 2023 Quant Results File: 091123MS23_8260.RES

09/12/23
09/18/23
1st
2nd

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Mon Sep 18 16:32:32 2023
Response via : Initial Calibration



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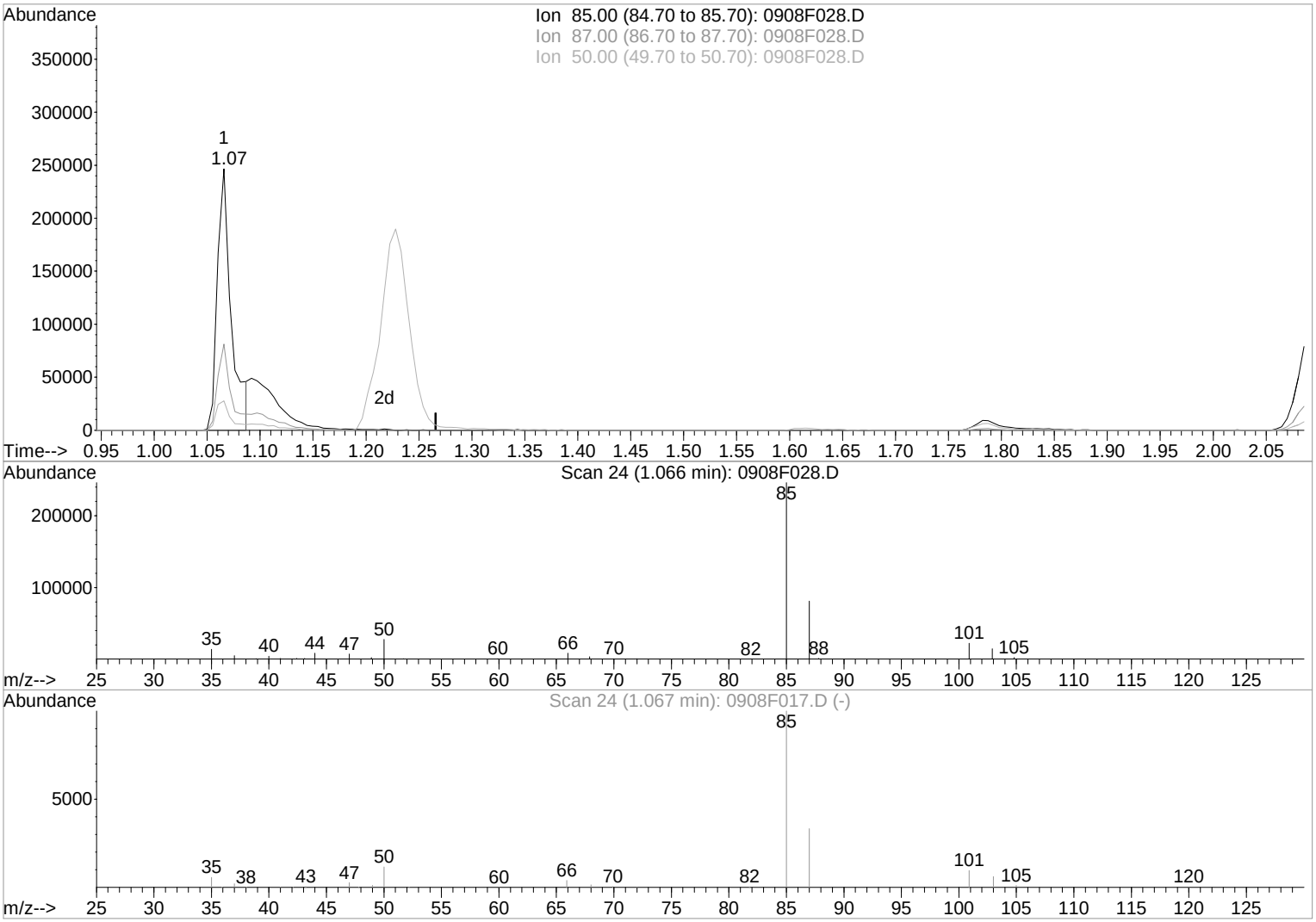
Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 14:22 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 14:21:38 2023
Response via : Multiple Level Calibration



TIC: 0908F028.D

(2) Dichlorodifluoromethane (T)

1.07min 5.20PPB

response 223757

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	32.97
50.00	11.40	11.20
0.00	0.00	0.00

Manual Integration:

Before

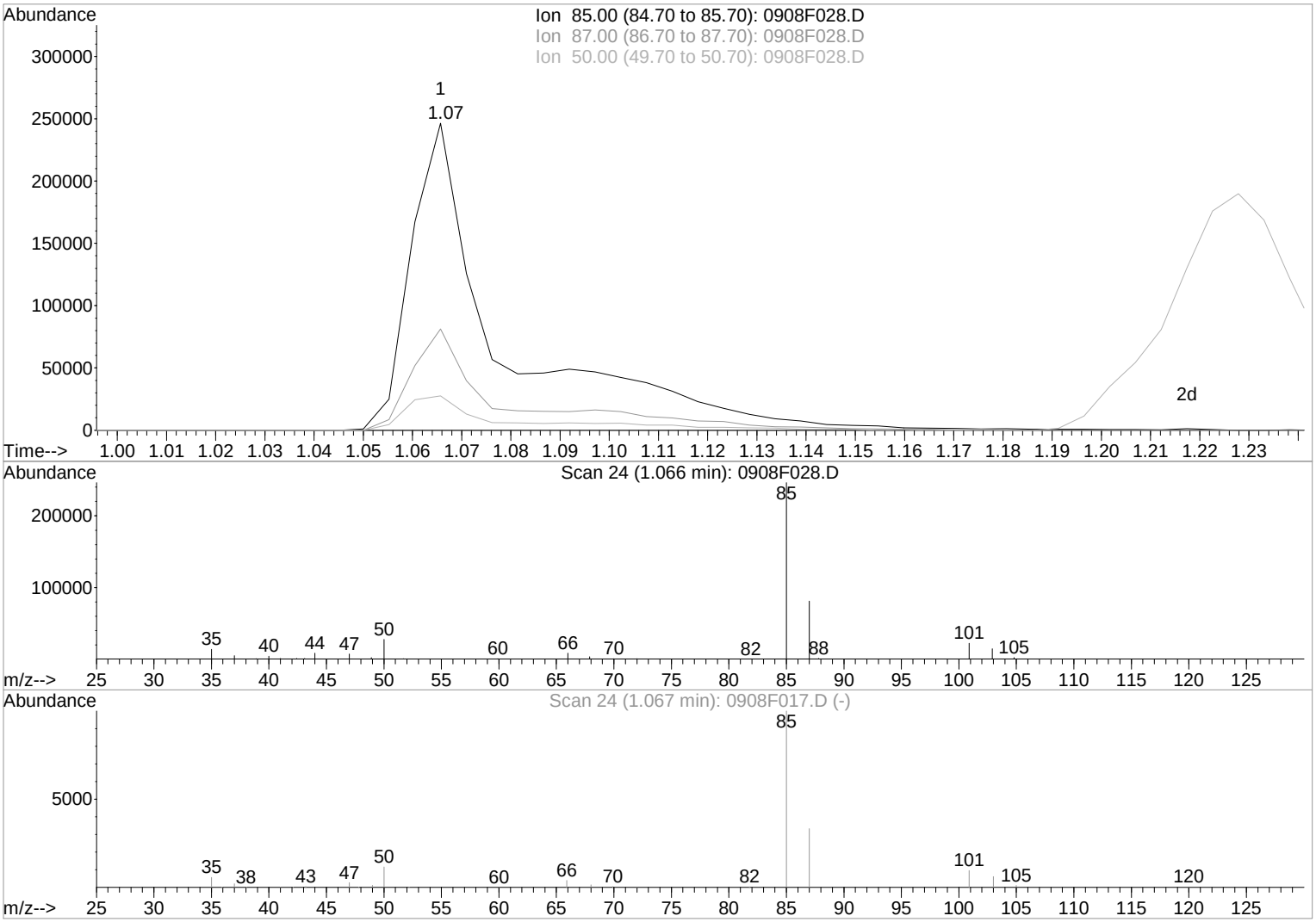
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 14:23 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 14:21:38 2023
Response via : Multiple Level Calibration



TIC: 0908F028.D

(2) Dichlorodifluoromethane (T)

1.07min 7.32PPB m

response 315140

Ion	Exp%	Act%
85.00	100	100
87.00	33.20	32.97
50.00	11.40	11.20
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

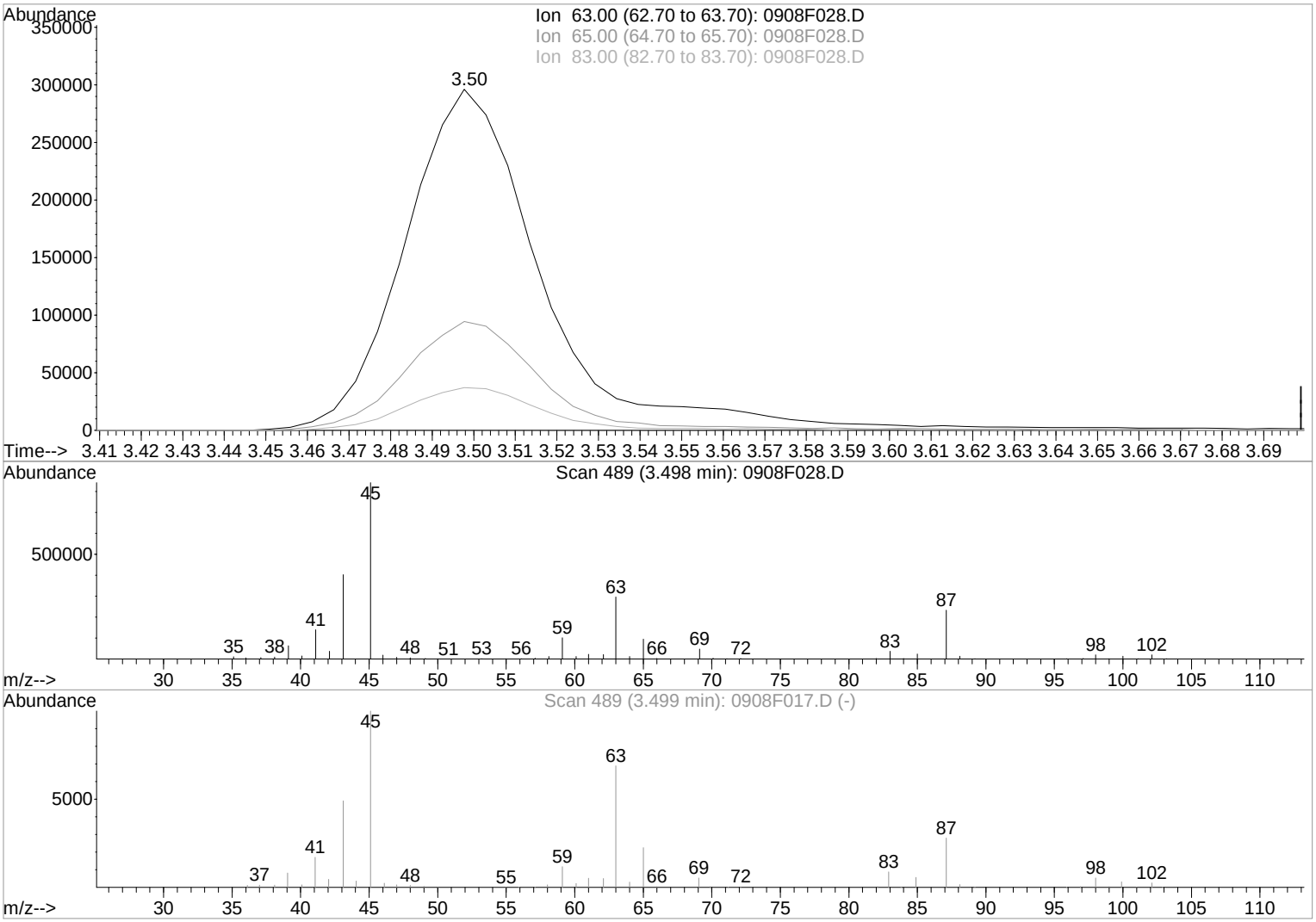
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 14:24 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 14:21:38 2023
Response via : Multiple Level Calibration



TIC: 0908F028.D

(27) 1,1-Dichloroethane (PT)

3.50min 10.21PPB

response 685388

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	31.87
83.00	12.70	12.52
0.00	0.00	0.00

Manual Integration:

Before

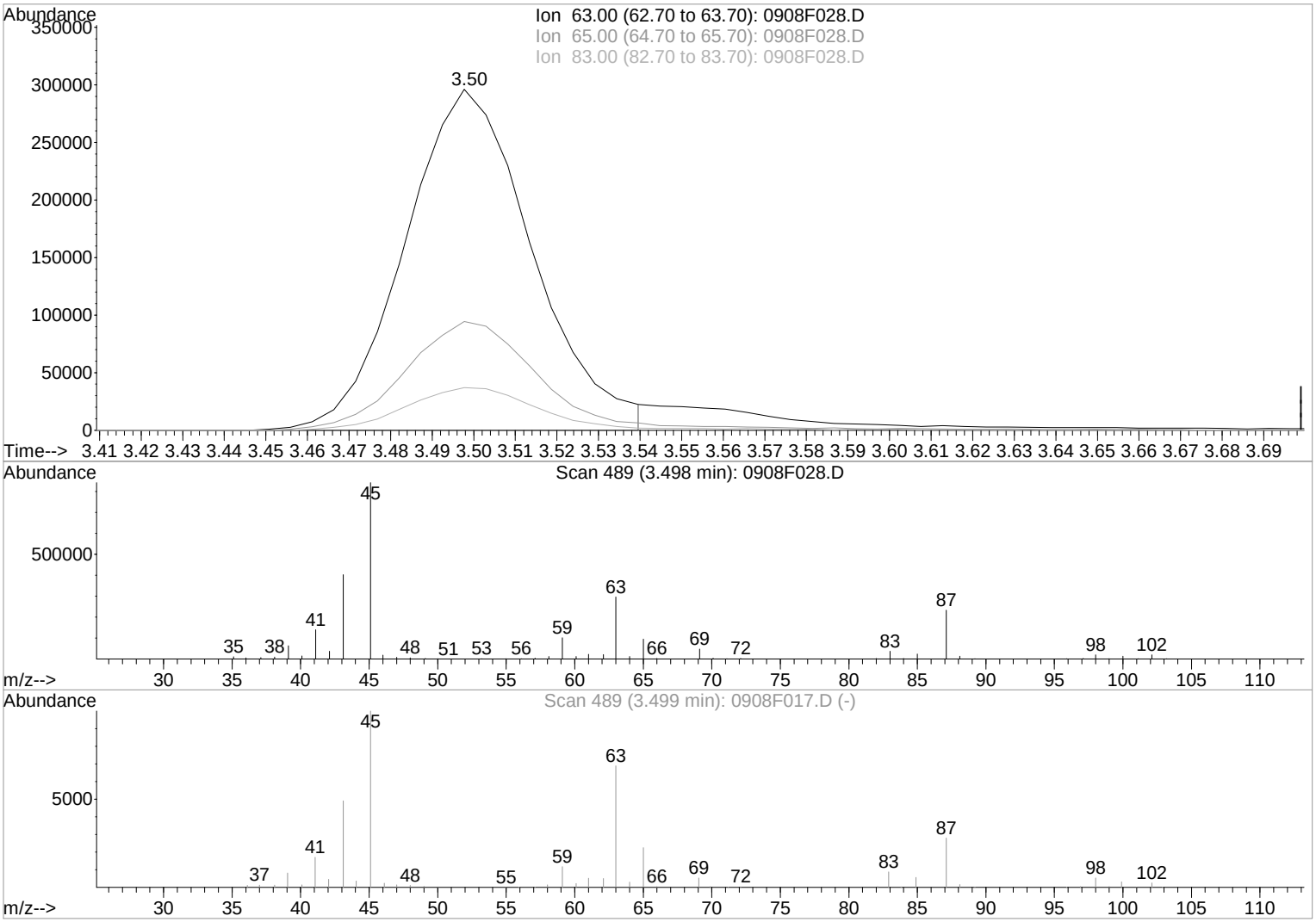
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 14:25 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 14:21:38 2023
Response via : Multiple Level Calibration



TIC: 0908F028.D

(27) 1,1-Dichloroethane (PT)

3.50min 9.38PPB m

response 629780

Ion	Exp%	Act%
63.00	100	100
65.00	32.70	31.87
83.00	12.70	12.52
0.00	0.00	0.00

Manual Integration:

After

Shoulder

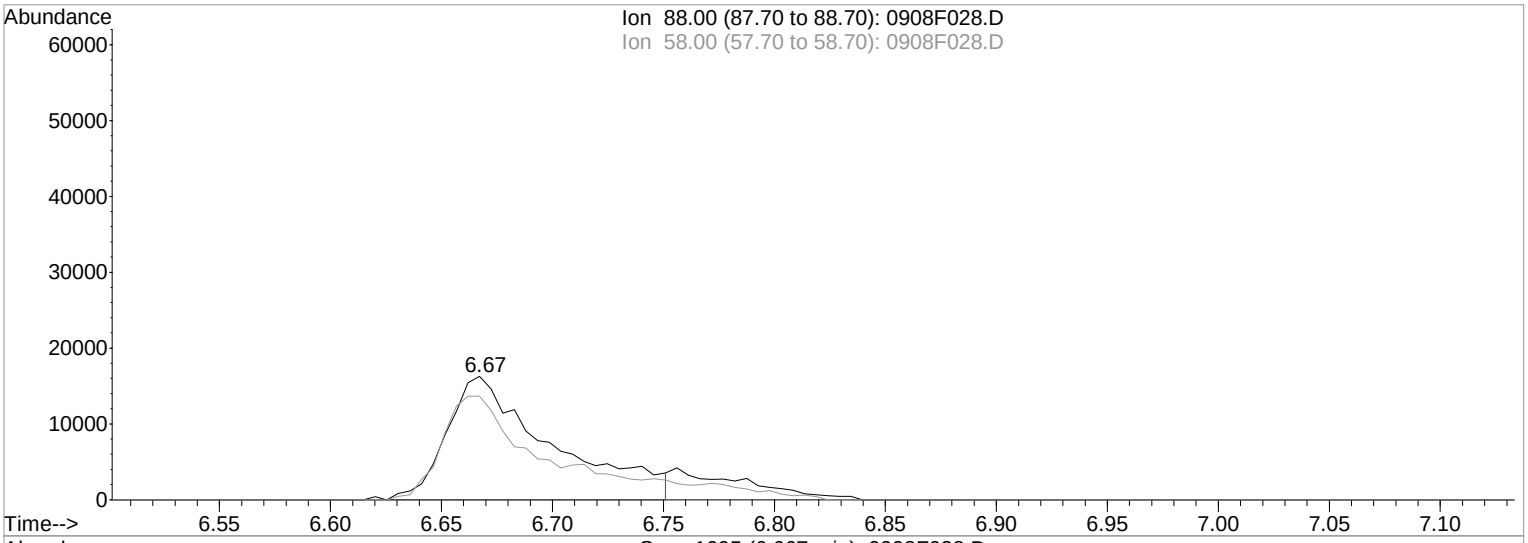
09/15/23

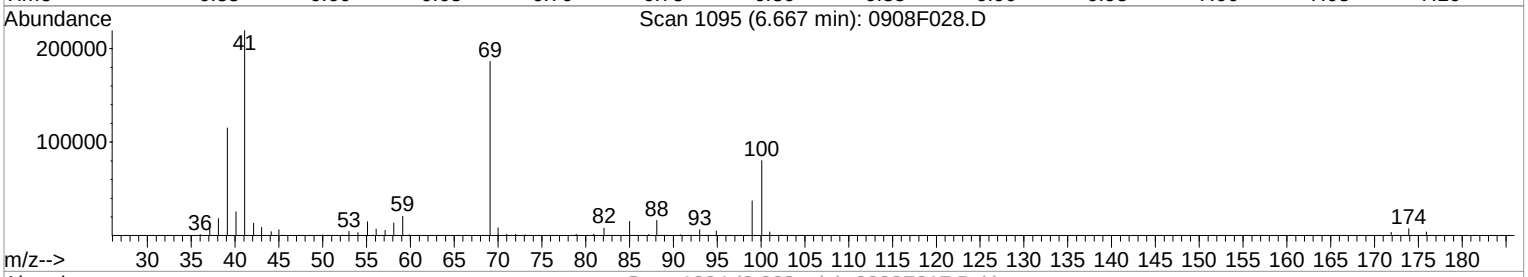
Quantitation Report (Qedit)

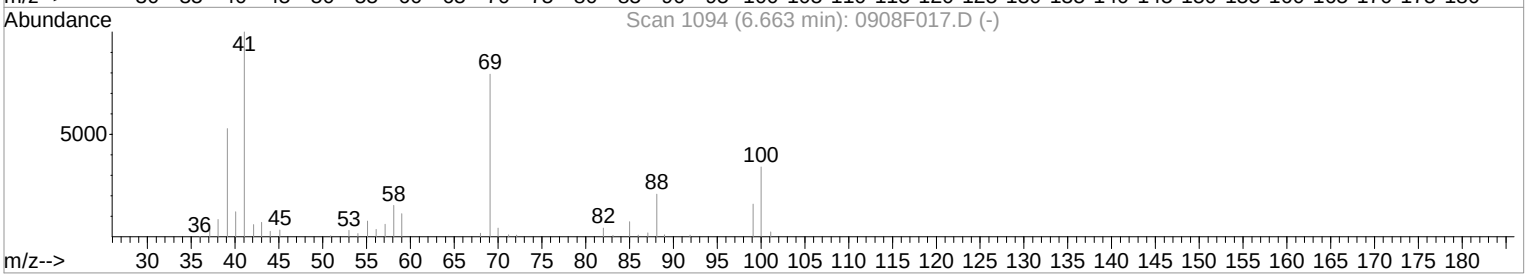
1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 14:25 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 14:21:38 2023
Response via : Single Level Calibration







TIC: 0908F028.D

(56) 1,4-Dioxane (T)

6.67min 278.10PPB

response 53245

Ion	Exp%	Act%
88.00	100	100
58.00	73.60	84.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

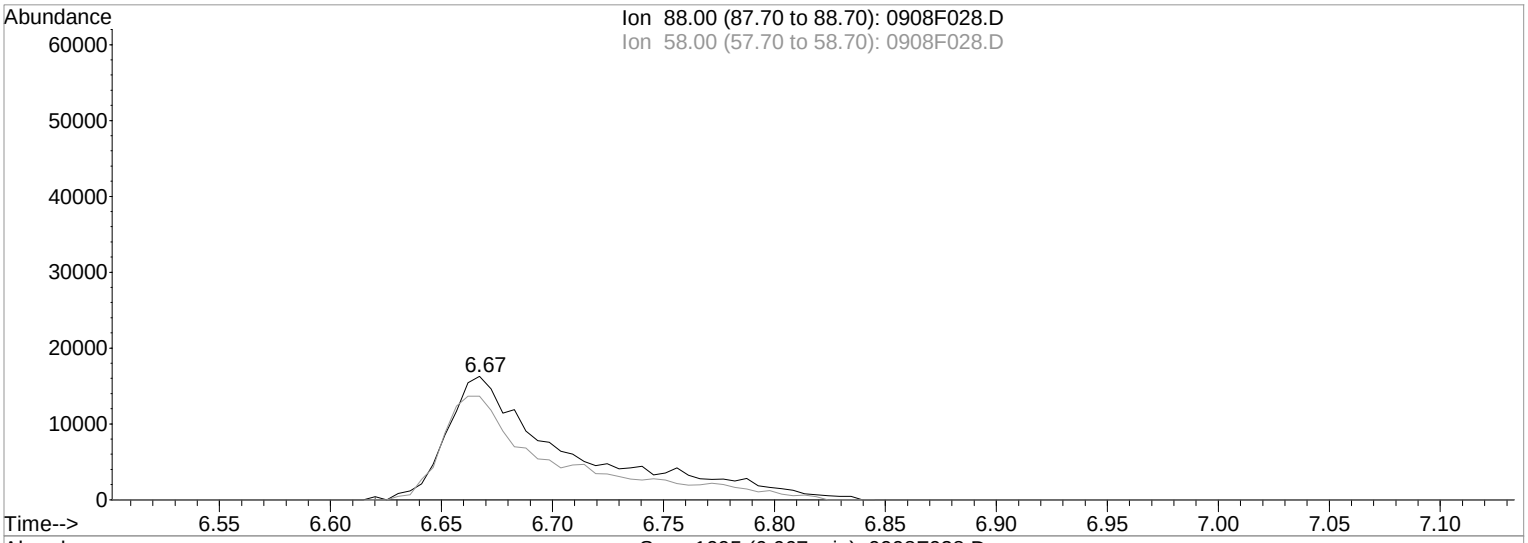
09/15/23

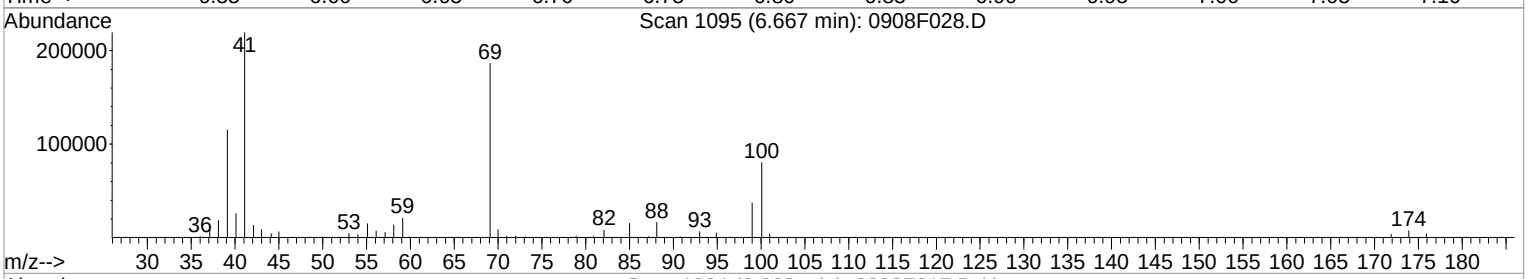
Quantitation Report (Qedit)

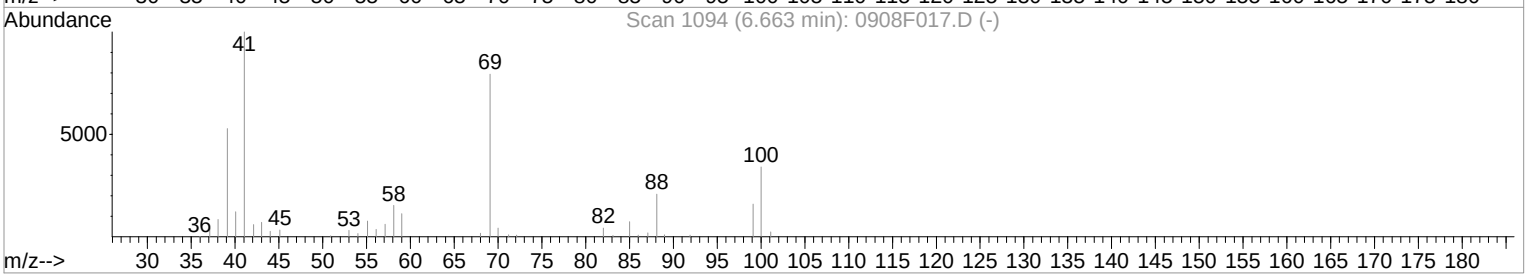
1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 14:26 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 14:21:38 2023
Response via : Single Level Calibration







TIC: 0908F028.D

(56) 1,4-Dioxane (T)

6.67min 326.53PPB m

response 62517

Ion	Exp%	Act%
88.00	100	100
58.00	73.60	84.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

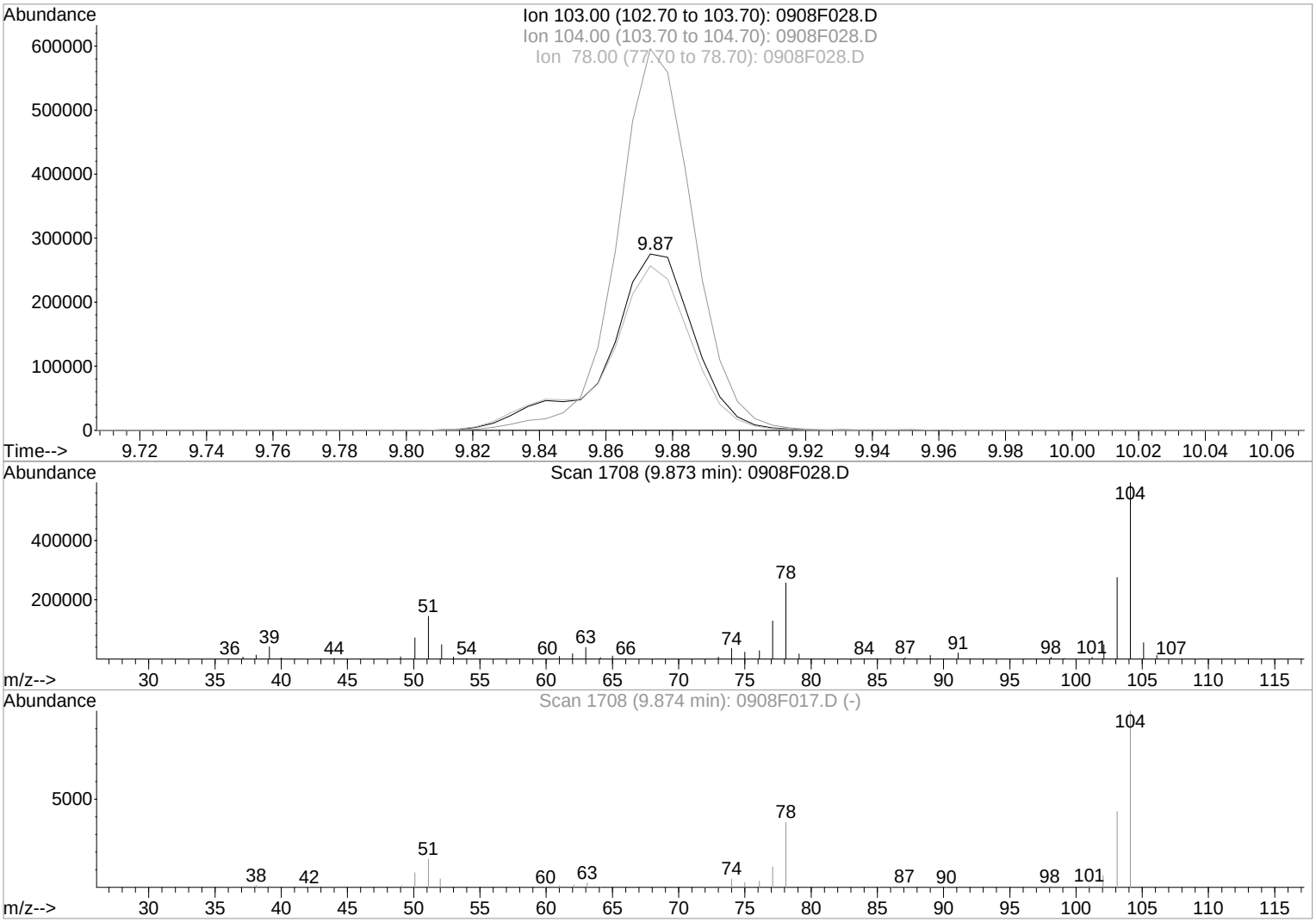
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 14:26 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 14:21:38 2023
Response via : Single Level Calibration



TIC: 0908F028.D

(80) Styrene (T)

9.87min 11.65PPB

response 500738

Ion	Exp%	Act%
103.00	100	100
104.00	245.50	216.46
78.00	102.00	93.21
0.00	0.00	0.00

Manual Integration:

Before

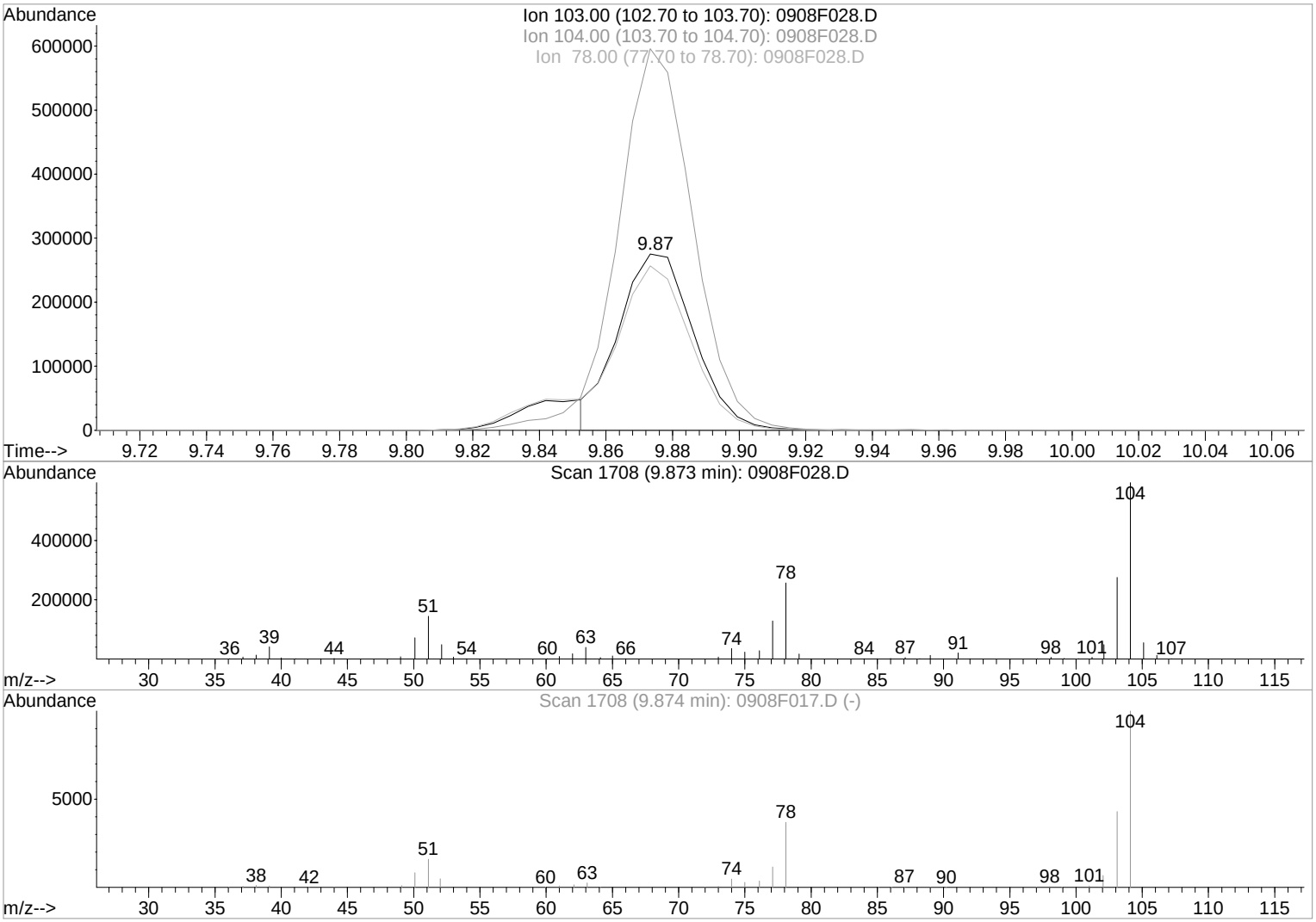
09/15/23

Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F028.D Vial: 21
Acq On : 12 Sep 2023 11:43 am Operator: EW/GH/MK/OT
Sample : ICV Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 14:26 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 14:21:38 2023
Response via : Single Level Calibration



TIC: 0908F028.D

(80) Styrene (T)

9.87min 10.08PPB m

response 432999

Ion	Exp%	Act%
103.00	100	100
104.00	245.50	216.46
78.00	102.00	93.21
0.00	0.00	0.00

Manual Integration:

After

Shoulder

09/15/23

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F029.D Vial: 22
Acq On : 12 Sep 2023 1:23 pm Operator: EW/GH/MK/OT
Sample : ICV CLP Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 15:27:15 2023 Quant Results File: 091123MS23_8260.RES

Quant Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 15:26:27 2023
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.72	96	1347701	10.00	PPB	0.00
64) Chlorobenzene-d5	9.17	82	499014	10.00	PPB	0.00
85) 1,4-Dichlorobenzene-d4	11.59	152	382257	10.00	PPB	0.00
System Monitoring Compounds						
43) Dibromofluoromethane	4.85	113	259097	9.43	PPB	0.00
Spiked Amount 10.000			Recovery =	94.30%		
47) 1,2-Dichloroethane-d4	5.34	65	315469	10.29	PPB	0.00
Spiked Amount 10.000			Recovery =	102.90%		
62) Toluene-d8	7.59	98	1225116	9.53	PPB	0.00
Spiked Amount 10.000			Recovery =	95.30%		
84) 4-Bromofluorobenzene	10.42	95	398927	9.84	PPB	0.00
Spiked Amount 10.000			Recovery =	98.40%		
Target Compounds						Qvalue
18) Methyl Acetate	2.65	43	154575	7.12	PPB	95
41) Cyclohexane	4.75	56	525583m	8.20	PPB	
52) Methylcyclohexane	6.28	83	316369	6.68	PPB	98

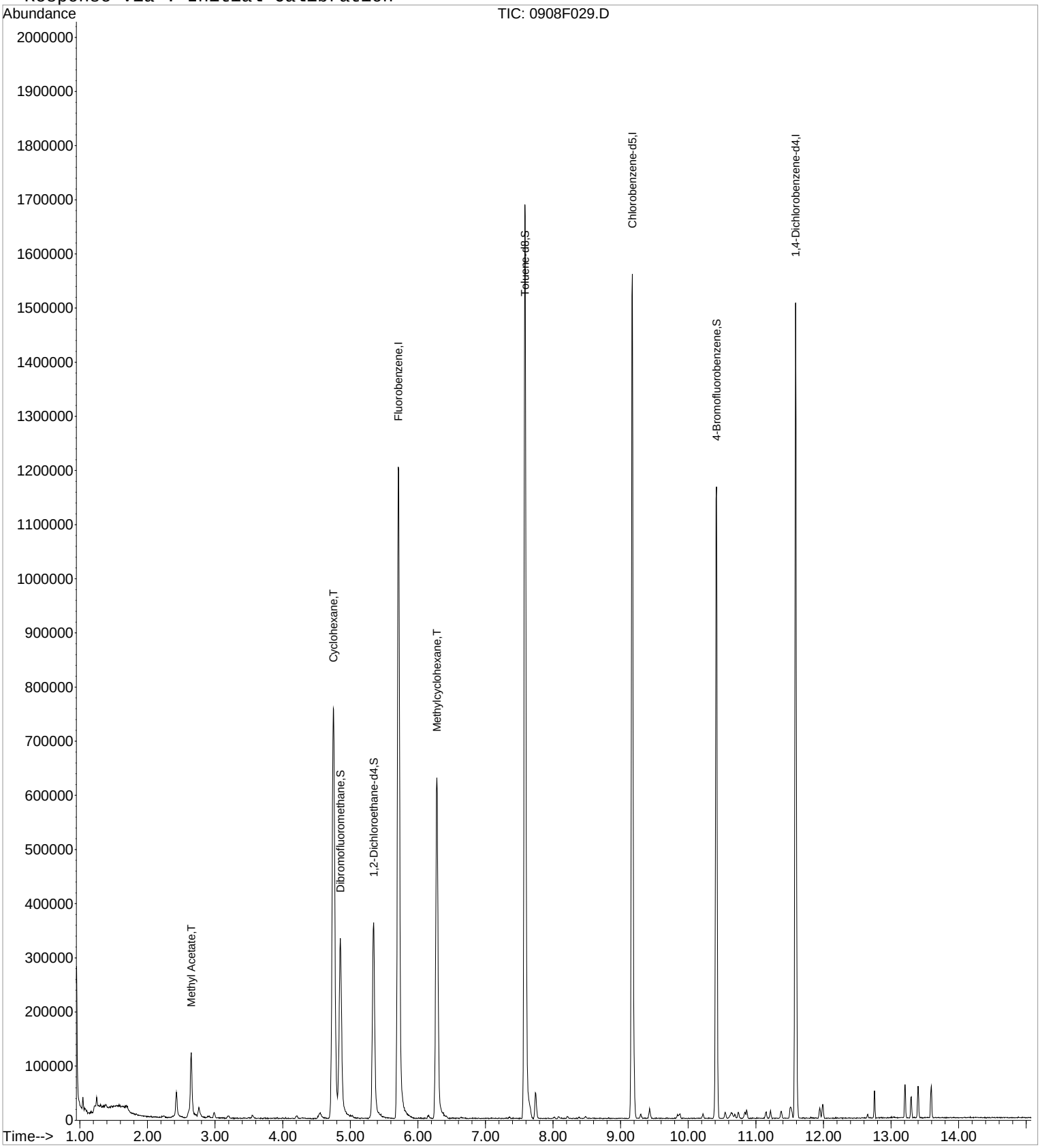
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 09/12/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F029.D Vial: 22
Acq On : 12 Sep 2023 1:23 pm Operator: EW/GH/MK/OT
Sample : ICV CLP Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 15:42 2023 Quant Results File: 091123MS23_8260.RES

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 15:26:27 2023
Response via : Initial Calibration

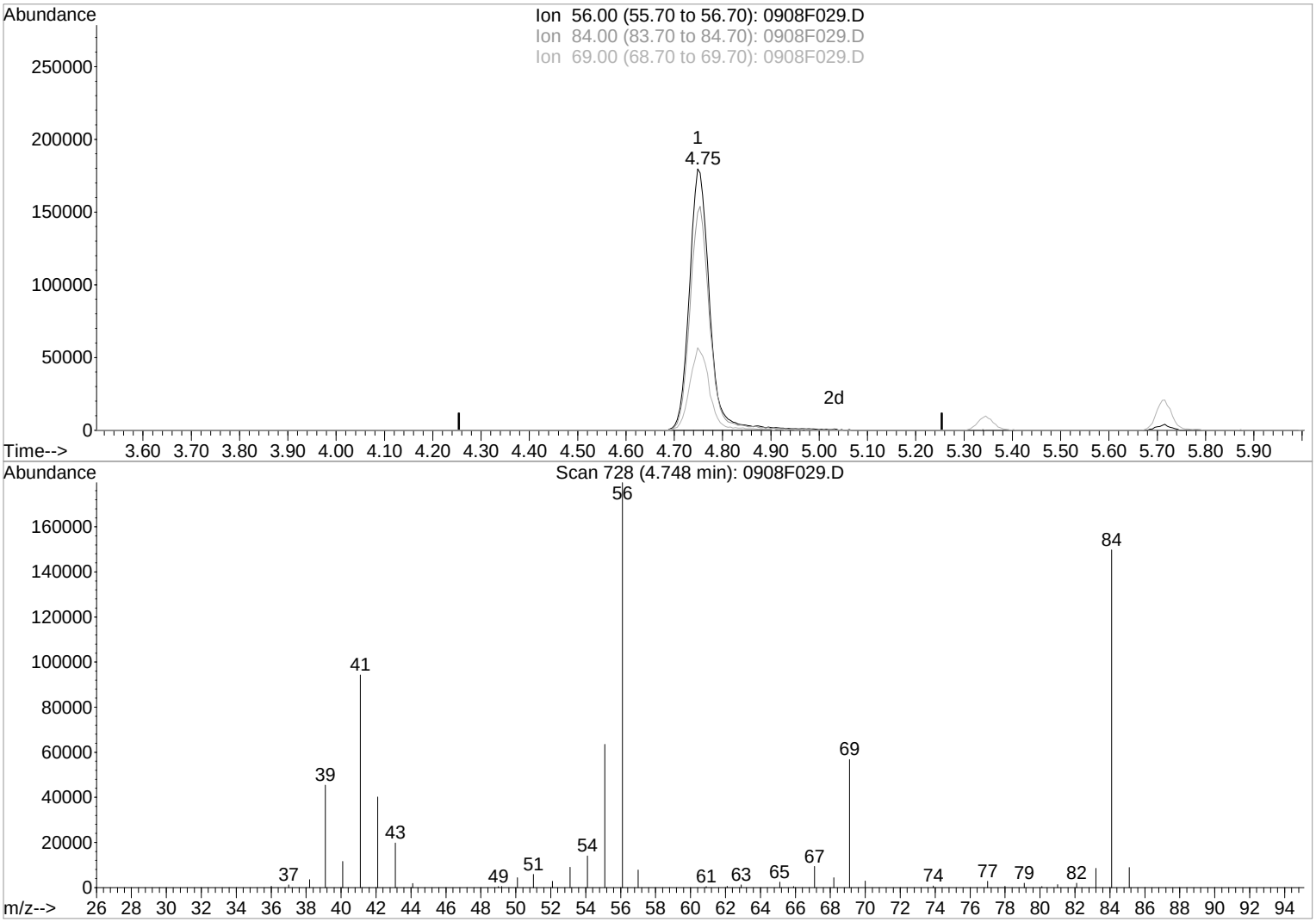


Quantitation Report (Qedit)

1st 09/15/23
2nd 09/18/23

Data File : J:\MS23\DATA\091123\0908F029.D Vial: 22
Acq On : 12 Sep 2023 1:23 pm Operator: EW/GH/MK/OT
Sample : ICV CLP Inst : MS23
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 15:42 2023 Quant Results File: temp.res

Method : J:\MS23\METHODS\091123MS23_8260.M (RTE Integrator)
Title : VOA MS23 EPA Method 8260C
Last Update : Fri Sep 15 15:26:27 2023
Response via : Multiple Level Calibration



TIC: 0908F029.D

(41) Cyclohexane (T)

4.75min 8.20PPB m

response 525583

Ion	Exp%	Act%
56.00	100	100
84.00	86.10	83.36
69.00	30.20	31.59
0.00	0.00	0.00

Manual Integration:

After

Accidentally deleted, reintegrated

09/15/23

Date: 10/2/23
By: EW
IS/SS Std. ID: 103VOA-80H
CCV/MRL Std ID: 103VOA-93A/81eB
MS/DMS/LCS/ICV Std ID: 103VOA-94C/94D/ 82E/72A
BFB Std. ID: 103VOA-89B

ALS Environmental
Injection Log
MS23 - Agilent 5973

Tune File: BFB.U
New Tune: No
Run:
ICAL Date: 9/11/23
Second RV: 10/4/23
LIMS ID: TCLP 819120 | 8260 8191142 | 8260 8191143

	Sample Name	File Name	Method	Dilution	pH<2	Comments
1	BFB@50ng	1002F001	8260	None	NA	5mL→50mL
2	Primer	2				
3	CCV	3				10/2.5mL→50mL
4	LCS	4				10/1/5/7.5mL→50mL
5	DLCS	5				
6	TCLP LCS	6		400X 125mL→50mL		
7	K2310811-1MS	7				
8	1DMS	8				
9	IB	9		None	NA	
10	MRL	10				0.5mL→50mL
11	MB	11				
12	TCLP MB	12		400X 125mL→50mL		
13	K2310811-1	13				
14	1dup	14				
15	K2310712-3TB	15		None		072123RB
16	10922-1	16				
17	11061-1	17				
18	10712-1	18				
19	2	19				
20	10922-2	20				
21	3	21				
22	10979-2	22				
23	11006-1	23			3	(7.32) 1932
24						
25						
26						
27						
28						

TW
8260
6141

LCS neg RCN

R:\VOA\For Jon\INJLOG_MS13_Rev1.xls

Semi-Volatile Organic Compounds by GC/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 427467 **Prep WorkFlow:** OrgExtAq(7) **Status:** Prepped
Team: Semivoa GCMS/NPATTERSON **Prep Method:** EPA 3510C **Prep Date/Time:** 10/3/23 15:04

Number of Copies to make: 2

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2317294-01	MB		625.1/SVO LL		Liquid	250mL	1.00mL	
2	KQ2317294-02	LCS		625.1/SVO LL		Liquid	250mL	1.00mL	
3	KQ2317294-03	K2310962-005 MS	.02	625.1/SVO LL		Liquid	250mL	1.00mL	
4	KQ2317294-04	K2310962-005 DMS	.03	625.1/SVO LL		Liquid	250mL	1.00mL	
5	K2310962-005	Composite	.04	625.1/SVO LL		Wastewater	250mL	1.00mL	
6	K2310979-002	002 Grab	.14	625.1/SVO LL		Wastewater	222.0000mL	1.00mL	

Spiking Solutions

Name: 8270 ALL PURPOSE SURROGATE Inventory ID 230897 Logbook Ref: SVM70-54MM Expires On: 02/15/2024

K2310962-005 50.00µL K2310979-002 50.00µL KQ2317294-01 50.00µL KQ2317294-02 50.00µL KQ2317294-03 50.00µL KQ2317294-04 50.00µL

Name: 8270 Matrix Spike Inventory ID 231194 Logbook Ref: SVM70-58A Expires On: 03/01/2024

KQ2317294-02 50.00µL KQ2317294-03 50.00µL KQ2317294-04 50.00µL

Preparation Steps

Step:	Extraction	Step:	Final Volume
Started:	10/3/23 15:04	Started:	10/4/23 06:28
Finished:	10/3/23 17:49	Finished:	10/4/23 07:44
By:	NPATTERSON	By:	VWILSON
Comments		Comments	

SVM70-47F

Comments: L - Tundra Top Shelf

Reviewed By: VW Date: 10/4/23 Spike Witness: LMORTENSEN Date:

Chain of Custody

Relinquished By: VW Date: 10/4/23 Extracts Examined

Received By: Date: 10/2/23 Yes No

Preparation Information Benchsheet

[redacted]

EE NRP 10/2/23

Prep Run#: 427467 **Prep WorkFlow:** OrgExtAq(7) **Status:** Draft

Team: Semivoa GCMS/NPATTERSON **Prep Method:** EPA 3510C **Prep Date/Time:** 10/2/23 ~~10:28 AM~~ 15:04

Number of Copies to make: 2

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. mL	pH	Int. Vol	Final Vol mL	Surr Amt VL	Spike Amt VL
1	**KQ2317294-01**	MB	—	—	625.1 / SVO LL	Liquid	250	12/2 N	U/A	1	50	—
2	**KQ2317294-02**	LCS	—		625.1 / SVO LL	Liquid	250	↓	↓	↓	↓	50
3	**KQ2317294-03**	K2310962-005 MS .02	~~01~~	✓	625.1 / SVO LL	Liquid	250	↓	↓	↓	↓	↓
4	**KQ2317294-04**	K2310962-005 DMS .03	~~01~~	✓	625.1 / SVO LL	Liquid	250	↓	↓	↓	↓	↓
5	**K2310962-005**	Composite .04	~~01~~	U	625.1 / SVO LL	Wastewater	250	↓	↓	↓	↓	—
6	**K2310979-002**	002 Grab	~~14~~ 14	✓	625.1 / SVO LL	Wastewater	222	↓	↓	↓	↓	—

Comments:

Surrogate ID: AP:SVM70-54MM xp: 8/15/24 conc. 100/150ppm 50µL Spike ID: 8270:SVM70-58A xp. 3/1/24 NRP ES conc. 100ppm 50µL

Witnessed By:

Analyst: Nick Patterson Assisted By:

ALS Environmental

Extraction Analyst Notes

Service Request: K2310962, 0979 Prep Group: KQ2317294

Topic	Notes	Initials/Date
No Anomalies: □		
Sample Anomalies: □		
Organics Present (sticks, leafs, bugs): □		
Fuel Odors: □		
Sulfur Odors, Precipitate: □		
General Notes:	The composites were made by combining samples 1-4 (1 bottle of each) for 0962-1, the MS, and DMS. Then 250mL of each composite was aliquoted per PC.	NRP 10/3/23

ALS Environmental
Appendix from EXT-3510
For Extracting 8270/**625.1** Mod in water by
EPA Method 3510C

Procedure:

1. Rinse all glassware prior to extraction with DCM. Let samples, surrogates and spikes warm to room temperature
2. Mark the meniscus of the sample on the sample container for determination of sample volume. Check container number and sample ID.
3. Add DI water for LCS/DLCS and MB corresponding to the largest volume of bottle size (250 mL for 250 mL amber bottle). Check the SR for any detection limit requirements needed due to volume size*.
4. Add surrogate and matrix spikes. (Must be in-bottle spiking)
5. Pour entire contents of the sample bottle into the appropriate sized separatory funnel then rinse the bottle one time with 30 mL of DCM (60 mL if at least 500 mL sample volume is used).
   **If the sample contains a small amount of material, shake the sample to mix the material into the sample and pour/analyze the entire sample. If the amount of material is enough to interfere with sample extraction, the Project Chemist should be notified to determine the procedure to be used.*
6. Add the bottle rinse to the corresponding separatory funnel.
7. Check the pH with pH paper and adjust to a pH of ≤2 with 1:1 H_2SO_4. Use narrow range pH strips.
8. Secure cap to the separatory funnel and begin shaking, for 2 minutes, ensuring to vent.
   **DCM creates excessive pressure very rapidly; therefore, initial venting should be done immediately after the separatory funnel has been sealed and inverted once.*
9. Remove cap and allow the organic layer to separate from the water phase.
10. Once the organic layer has separated from the water phase, drain the DCM portion into a clean 125mL Erlenmeyer flask (or 250 mL flask for a large volume extraction) labeled A.
11. Repeat the extraction and drain steps two more times with 30 mL of DCM being added directly to the separatory funnel each time (60 mL of DCM for a large volume extraction).
12. Store extracts in the refrigerator.
13. Adjust the pH between 11 and 13 with 1:1 NaOH. Use narrow range pH strips. Allow the sample to rest for 25 minutes after adjusting the pH.
14. Repeat steps extraction three times at pH 11-13, using 30 mL of DCM each time (60 mL of DCM for a large volume extraction). Collect each fraction in a second set of 125mL Erlenmeyer flasks (or 250 mL flask for a large volume extraction) labeled B and store extracts in the refrigerator.

Finishing:

15. Prepare a DCM-rinsed KD apparatus with a modified funnel (set up with a plug of glass wool and a layer of Na_2SO_4). Pour the sample through the modified funnel (always pour the primary pH fraction first), rinsing each flask three times and adding the rinsate to the modified funnel. After both pH fractions have been added to the modified/KD apparatus, rinse the sulfate down with DCM and apply vacuum to complete the transfer.
16. Concentrate the extracts on an S-EVAP with the water bath temperature set at 70-75°C, recording temperature. When the solvent level has concentrated enough to be able to remove the collector, remove the KD from the S-Evap. Make sure to not evaporate the extracts too low or to dryness.
17. Move the collectors containing the extracts to the N-EVAP and concentrate to <1mL, using a gentle stream of nitrogen. Use caution to ensure that you do not concentrate the extracts too low or to dryness.
18. Bring to a 1mL F.V. in DCM, placing it in a labeled, clear 2mL autosampler vial. Deliver the extracts to the instrument lab.
19. Complete all necessary paperwork for review.

Test	Volume	Surrogate Amount	Spike Amount	Primary pH	Secondary pH	Clean Up	Vial	Calc. Final Volume
8270/625.1	250mL*	AP/ 50µL	8270/ 50µL Benzoic Acid/ 50µL Benzidine/ 5µL CLP MS/ 50µL	≤2	11-13	GPC (if needed)	Clear	1mL

ALS Environmental
Appendix from EXT-3510
For Extracting 8270/**625.1** Mod in water by
EPA Method 3510C

[redacted]

Service Request: K2310962, 0979 **Workgroup:** KQ2317294

Syringe Volume(s) and ID: 500 µL 61

DCM Lot#: ~~1303K10~~ EE NRP 10/3/23 EH025-VS

Sulfuric Acid Lot#: 1303K10 NaOH Lot#: 23D1462004

Acid pH<2 (Time/Date/Initial): 14:05 10/3/23 NRP pH Strips Lot# (Narrow Range): 223819BV

Base pH 11-13 (Time/Date/Initial): 15:20 10/3/23 NRP pH Strips Lot# (Narrow Range): HC017495

Extraction Batch Start (Time/Date/Initial): 10/3/23 ~~15:06~~ 15:04 EE NRP 10/3/23 NRP

Extraction Batch Stop (Time/Date/Initial): 17:49 10/3/23 NRP

Sulfate Lot#: 20220817335 Glass Wool Lot#: 16022999

S-Evap (Time/Date/Initial): 0628 10/4/23 VW S-Evap Therm. ID: x-sum-005

Temp as measured: 75 °C Correction factor: 0 °C Adjusted temp: 75 °C

N-Evap (Time/Date/Initial): 0655 10/4/23 JC N-Evap Therm. ID: x-sum-007

Pipet Lot: 04282021

Archive Storage: —

Completed (Time/Date/Initial): 0744 10/4/23 JC

Amount vialed: 1mL

Bench Sheet Review Check List	
☑	Hold times met; if no, reason:
☑	Prep date, time, method, department, product code correct
☑	Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☑	Weights/Volumes and units correct on raw and final bench sheets
☑	Sample IDs have been checked - bottle numbers appended if required
☑	Names present for: started by, completed by, relinquished by, and witnessed by
☑	Extract storage recorded
☑	Additional prep sheet completely filled out (NA or line out blanks)
☑	All clean-ups have been noted on additional prep sheet

ALS Group U.S.A. Corp.
dba ALS Environmental

Sample Composite Data

Service request(s): K2310962

Matrix: Solid or Water? Water

Sample ID:	Volume (ml)	Sample ID:	Volume (ml)	Sample ID:	Volume (ml)	Sample ID:	Volume (ml)	Sample ID:	Volume (ml)
K2310962-001	125.000	K2310962-001	125.000	K2310962-001	125.000				
K2310962-002	125.000	K2310962-002	125.000	K2310962-002	125.000				
K2310962-003	125.000	K2310962-003	125.000	K2310962-003	125.000				
K2310962-004	125.000	K2310962-004	125.000	K2310962-004	125.000				
Composite ID:	K2310962-005	**Composite ID:**	K2310962-005 M	**Composite ID:**	K2310962-005 DM	**Composite ID:**		**Composite ID:**	
Total Volume (ml)	500.000	**Total Volume (ml)**	500.000	**Total Volume (ml)**	500.000	**Total Volume (ml)**		**Total Volume (ml)**	
Date	10/3/23	**Date**	10/3/23	**Date**	10/3/23	**Date**		**Date**	
Time	12:45	**Time**	12:45	**Time**	12:45	**Time**		**Time**	

Balance ID: **Comments:**

Analyst(s): Nerak Patterson	**Date:** 10/3/2023
Reviewed by:	**Date:**

1st CO 10/31/23
2nd 11/06/23

Validation Report

Data File: I:\MS29\DATA\102623\1026F019.D\
Lab ID: K2310979-002.R01
RunType: N/A
Matrix: Wastewater

Date Acquired: 10/26/23 22:58:00
Batch ID: 822275
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Lab Control Sample Recovery		X
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Sample Recovery	Benzidine	0	0.1	140	Low Bias

Primary Review: _____

Printed: 11/6/23 12:10
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st 10/31/23
2nd 11/06/23

Quantitation Report

Data File:	I:\MS29\DATA\102623\1026F019.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 22:58:00	**Vial:**	20
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2310979-002.R01	**Raw Units:**	ng/mL

Bottle ID:	K2310979-002.14	**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	822275	**Prep Lot:**	427467	**Report Group:**	K2310979
Analysis	625.1	**Prep Method:**	EPA 3510C		
		Prep Date:	10/3/23		

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300422
		Report List ID:	23062

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	9.78		324302	1000.00	OK
Chrysene-d12	15.62		322784	1000.00	OK
1,4-Dichlorobenzene-d4	5.06		169621	1000.00	OK
Naphthalene-d8	6.35		652044	1000.00	OK
Perylene-d12	18.74		302845	1000.00	OK
Phenanthrene-d10	12.10		547431	1000.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
2-Fluorobiphenyl	8.28		1596966	3881.15	78	38 - 105	Y
2-Fluorophenol	3.99		1037037	5189.73	69	17 - 101	Y
Nitrobenzene-d5	5.57		888939	4407.96	88	15 - 314	Y
Phenol-d6	4.72		918289	3974.83	53	8 - 424	Y
p-Terphenyl-d14	13.99		1363201	4060.22	81	35 - 133	Y
2,4,6-Tribromophenol	11.13		306370	5715.28	76	12 - 129	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Acenaphthene	0.00		0	0.00	0	U	Y
Acenaphthylene	0.00		0	0.00	0	U	Y
Anthracene	0.00		0	0.00	0	U	Y
Benz(a)anthracene	0.00		0	0.00	0	U	Y
Benzo(b)fluoranthene	0.00		0	0.00	0	U	Y
Benzo(k)fluoranthene	0.00		0	0.00	0	U	Y
Benzo(g,h,i)perylene	0.00		0	0.00	0	U	Y
Benzo(a)pyrene	0.00		0	0.00	0	U	Y
Bis(2-chloroethyl) Ether	0.00		0	0.00	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/6/23 12:10
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st CO 10/31/23
2nd 11/06/23

Data File:	I:\MS29\DATA\102623\1026F019.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 22:58:00	**Vial:**	20
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2310979-002.R01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bis(2-ethylhexyl) Phthalate	15.64		5007	118.06	0.53	U	Y
Bis(2-chloroethoxy)methane	0.00		0	0.00	0	U	Y
4-Bromophenyl Phenyl Ether	0.00		0	0.00	0	U	Y
Butyl Benzyl Phthalate	0.00		0	0.00	0	U	Y
4-Chloro-3-methylphenol	0.00		0	0.00	0	U	Y
2-Chloronaphthalene	0.00		0	0.00	0	U	Y
2-Chlorophenol	0.00		0	0.00	0	U	Y
4-Chlorophenyl Phenyl Ether	0.00		0	0.00	0	U	Y
Chrysene	0.00		0	0.00	0	U	Y
Di-n-butyl Phthalate	12.87	+0.02	23440	56.07	0.25	U	Y
Di-n-octyl Phthalate	0.00		0	0.00	0	U	Y
Dibenz(a,h)acridine				0	0	U	Y
Dibenz(a,j)acridine				0	0	U	Y
Dibenz(a,h)anthracene	0.00		0	0.00	0	U	Y
Dibenzo(a,e)pyrene				0	0	U	Y
Dibenzo(a,h)pyrene				0	0	U	Y
Dibenzo(a,i)pyrene				0	0	U	Y
3,3'-Dichlorobenzidine	0.00		0	0.00	0	U	Y
2,4-Dichlorophenol	0.00		0	0.00	0	U	Y
Diethyl Phthalate	10.63		6244	19.50	0.088	J	Y
Dimethyl Phthalate	0.00		0	0.00	0	U	Y
2,4-Dimethylphenol	0.00		0	0.00	0	U	Y
4,6-Dinitro-2-methylphenol	0.00		0	0.00	0	U	Y
2,4-Dinitrophenol	0.00		0	0.00	0	U	Y
2,4-Dinitrotoluene	0.00		0	0.00	0	U	Y
2,6-Dinitrotoluene	0.00		0	0.00	0	U	Y
1,2-Diphenylhydrazine	0.00		0	0.00	0	U	Y
Fluoranthene	0.00		0	0.00	0	U	Y
Fluorene	0.00		0	0.00	0	U	Y
Hexachlorobenzene	0.00		0	0.00	0	U	Y
Hexachlorobutadiene	0.00		0	0.00	0	U	Y
Hexachlorocyclopentadiene	0.00		0	0.00	0	U	Y
Hexachloroethane	0.00		0	0.00	0	U	Y
Indeno(1,2,3-cd)pyrene	0.00		0	0.00	0	U	Y
Isophorone	0.00		0	0.00	0	U	Y
3-Methylcholanthrene				0	0	U	Y
Naphthalene	0.00		0	0.00	0	U	Y
Nitrobenzene	0.00		0	0.00	0	U	Y
2-Nitrophenol	0.00		0	0.00	0	U	Y
4-Nitrophenol	0.00		0	0.00	0	U	Y
N-Nitrosodi-n-propylamine	0.00		0	0.00	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/6/23 12:10
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1st CO 10/31/23
2nd 11/06/23

Data File:	I:\MS29\DATA\102623\1026F019.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 22:58:00	**Vial:**	20
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2310979-002.R01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
N-Nitrosodimethylamine	0.00		0	0.00	0	U	Y
N-Nitrosodiphenylamine	0.00		0	0.00	0	U	Y
2,2'-Oxybis(1-chloropropane)	0.00		0	0.00	0	U	Y
Pentachlorophenol (PCP)	0.00		0	0.00	0	U	Y
Perylene				0	0	U	Y
Phenanthrene	0.00		0	0.00	0	U	Y
Phenol	0.00		0	0.00	0	U	Y
Pyrene	0.00		0	0.00	0	U	Y
1,2,4-Trichlorobenzene	0.00		0	0.00	0	U	Y
2,4,6-Trichlorophenol	0.00		0	0.00	0	U	Y

Prep Amount:	222.0000 mL	**Dilution:**	1
Prep Final Amount:	1.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/6/23 12:10
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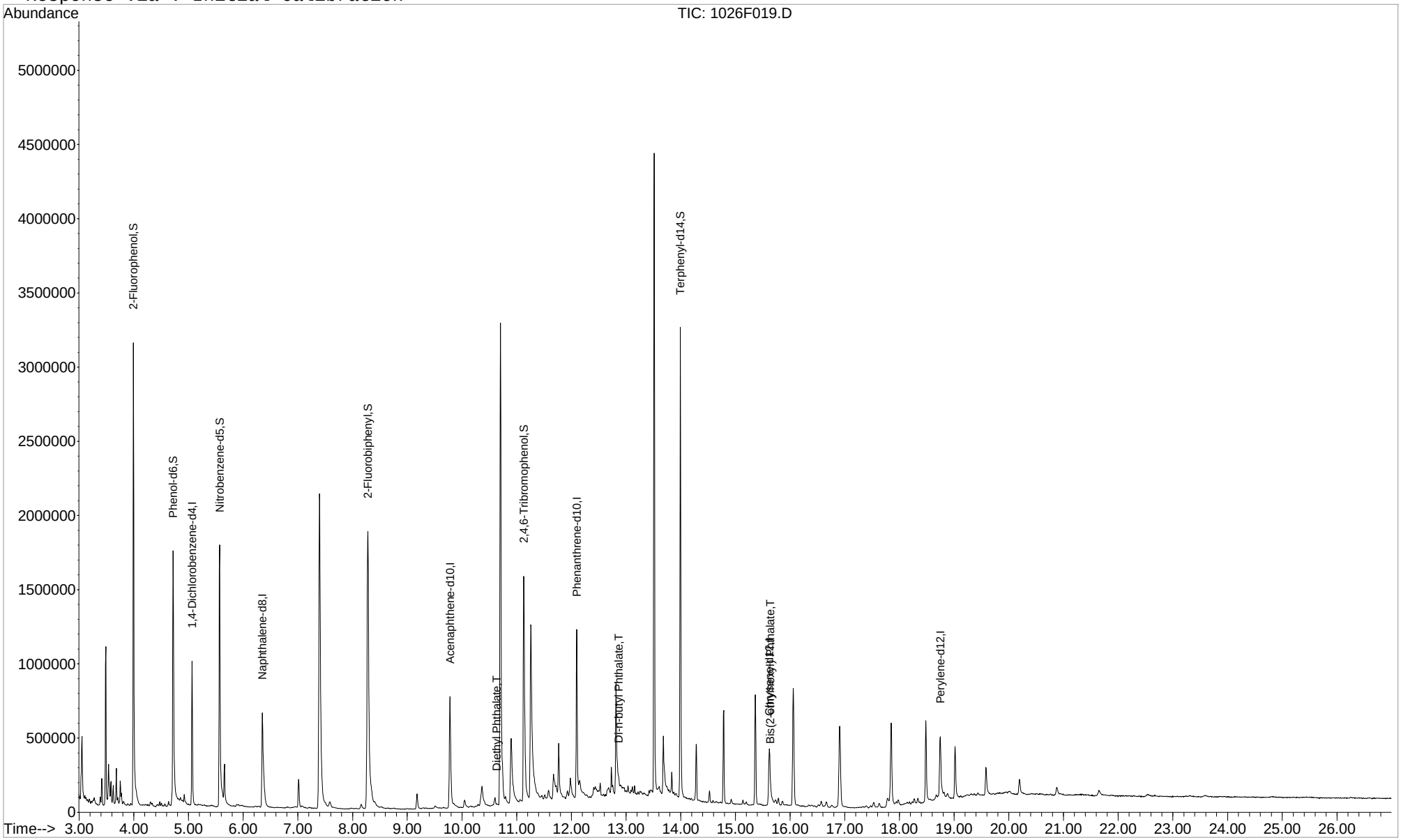
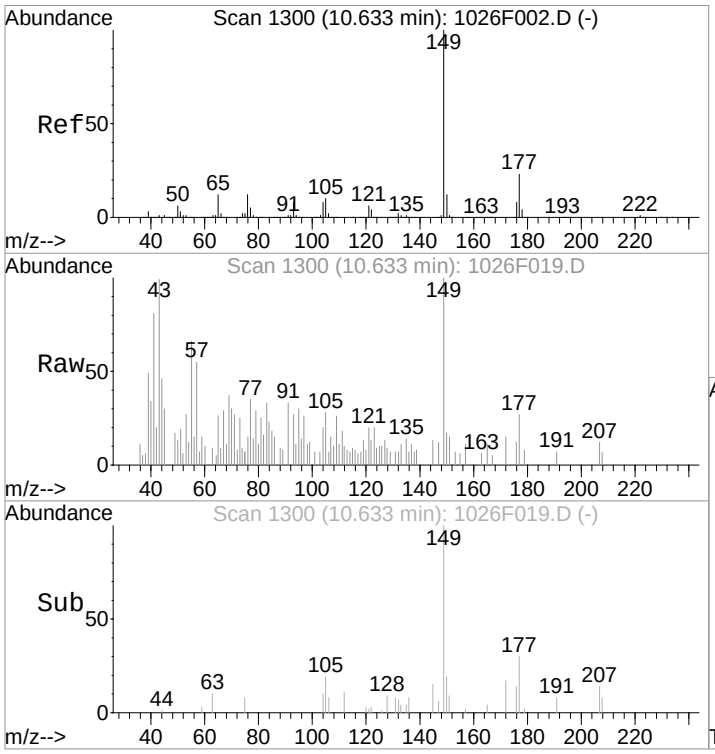
1st 10/31/23
2nd 11/06/23

Data File : I:\MS29\DATA\102623\1026F019.D Vial: 19
Acq On : 26 Oct 2023 10:58 pm Operator: CSD
Sample : K2310979-002 Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 6 12:12 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Mon Oct 30 09:53:10 2023
Response via : Initial Calibration



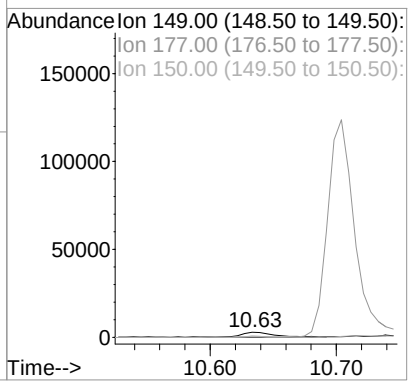
1st 10/31/23
2nd 11/06/23

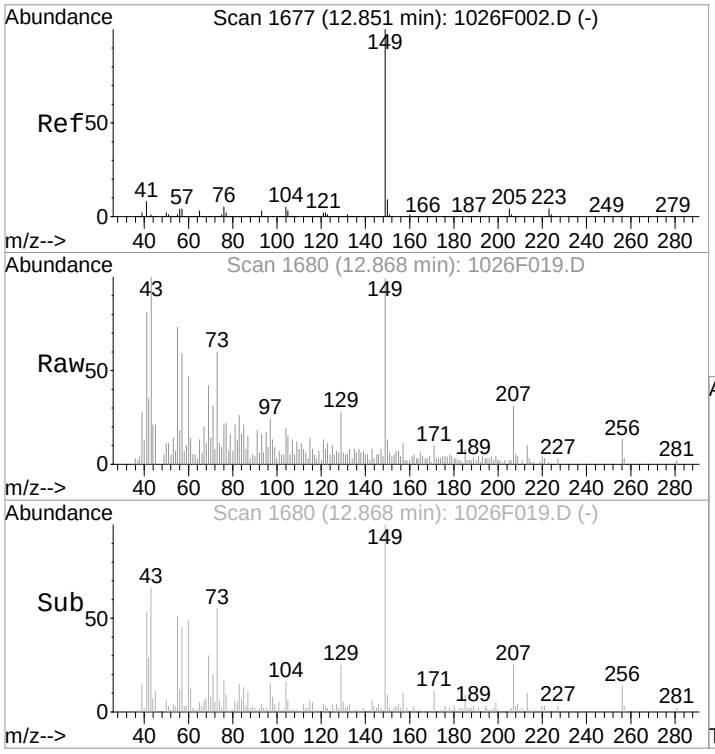


#54
Diethyl Phthalate
Concen: 19.50 ng/ml
RT: 10.63 min Scan# 1300
Delta R.T. -0.02 min
Lab File: 1026F019.D
Acq: 26 Oct 2023 10:58 pm

Tgt Ion:149 Resp: 6244

Ion	Ratio	Lower	Upper
149	100		
177	27.3	0.0	52.5
150	11.8	0.0	42.5

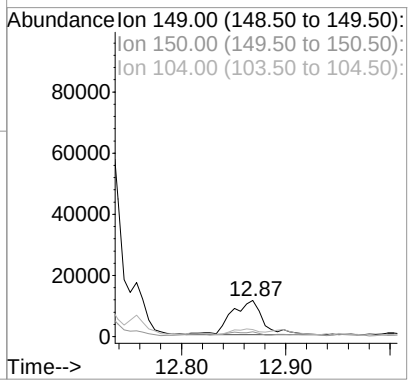




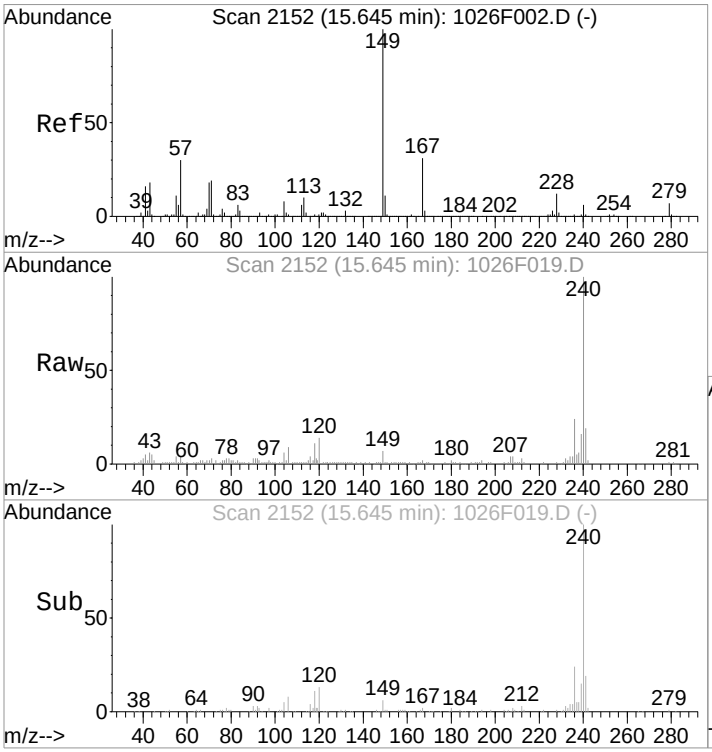
#67
Di-n-butyl Phthalate
Concen: 56.07 ng/ml
RT: 12.87 min Scan# 1680
Delta R.T. 0.01 min
Lab File: 1026F019.D
Acq: 26 Oct 2023 10:58 pm

Tgt Ion:149 Resp: 23440

Ion	Ratio	Lower	Upper
149	100		
150	10.8	0.0	39.1
104	12.7	0.0	35.0



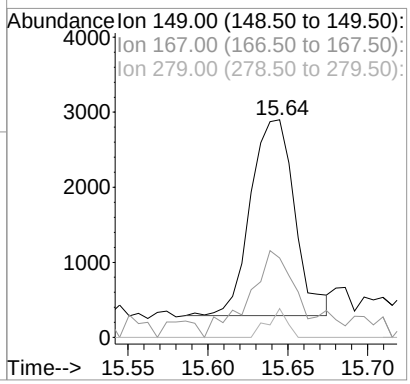
1st 10/31/23
2nd 11/06/23



#76
Bis(2-ethylhexyl) Phthalate
Concen: 118.06 ng/ml
RT: 15.64 min Scan# 2152
Delta R.T. -0.04 min
Lab File: 1026F019.D
Acq: 26 Oct 2023 10:58 pm

Tgt Ion:149 Resp: 5007

Ion	Ratio	Lower	Upper
149	100		
167	32.3	2.1	62.1
279	14.7	0.0	37.3



Quantitation Report (QT Reviewed)

1st CO 10/31/23
2nd 11/06/23

Data File : I:\MS29\DATA\102623\1026F019.D Vial: 19
Acq On : 26 Oct 2023 10:58 pm Operator: CSD
Sample : K2310979-002 Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 09:37:56 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_LONG_ZB5.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	169621	1000.00	ng/ml	-0.01
21) Naphthalene-d8	6.35	136	652044	1000.00	ng/ml	-0.01
35) Acenaphthene-d10	9.78	164	324302	1000.00	ng/ml	-0.01
59) Phenanthrene-d10	12.10	188	547431	1000.00	ng/ml	-0.01
69) Chrysene-d12	15.62	240	322784	1000.00	ng/ml	-0.02
77) Perylene-d12	18.74	264	302845	1000.00	ng/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	3.99	112	1037037	5189.73	ng/ml	-0.01
Spiked Amount 3750.000	Range 38 - 110		Recovery = 138.39%#			
6) Phenol-d6	4.72	99	918289	3974.83	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 106.00%			
19) Nitrobenzene-d5	5.57	82	888939	4407.96	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 176.32%#			
39) 2-Fluorobiphenyl	8.28	172	1596966	3881.15	ng/ml	-0.03
Spiked Amount 2500.000	Range 37 - 126		Recovery = 155.25%#			
60) 2,4,6-Tribromophenol	11.13	330	306370	5715.28	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 152.41%			
71) Terphenyl-d14	13.99	244	1363201	4060.22	ng/ml	-0.02
Spiked Amount 2500.000	Range 54 - 158		Recovery = 162.41%#			

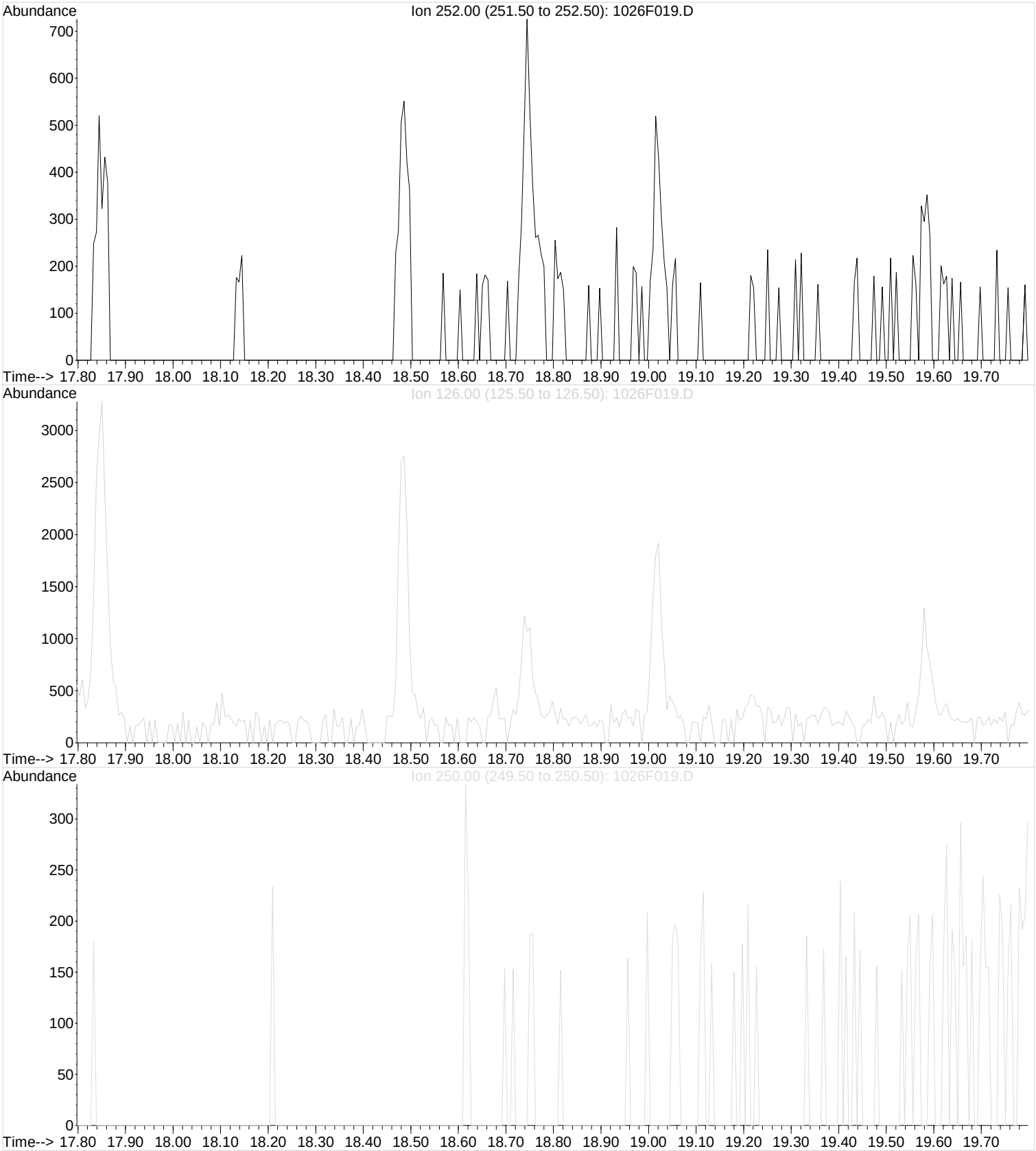
Target Compounds						Qvalue
54) Diethyl Phthalate	10.63	149	6244	19.50	ng/ml	93
67) Di-n-butyl Phthalate	12.87	149	23440	56.07	ng/ml	89
76) Bis(2-ethylhexyl) Phthalat	15.64	149	5007	118.06	ng/ml	96

(#) = qualifier out of range (m) = manual integration

1st 10/31/23
2nd 11/06/23

```
File       : J:\MS29\DATA\102623\1026F019.D
Operator   : CSD
Acquired   : 26 Oct 2023  10:58 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument :   MS29
Sample Name: K2310979-002
Misc Info  :
Vial Number: 19
```

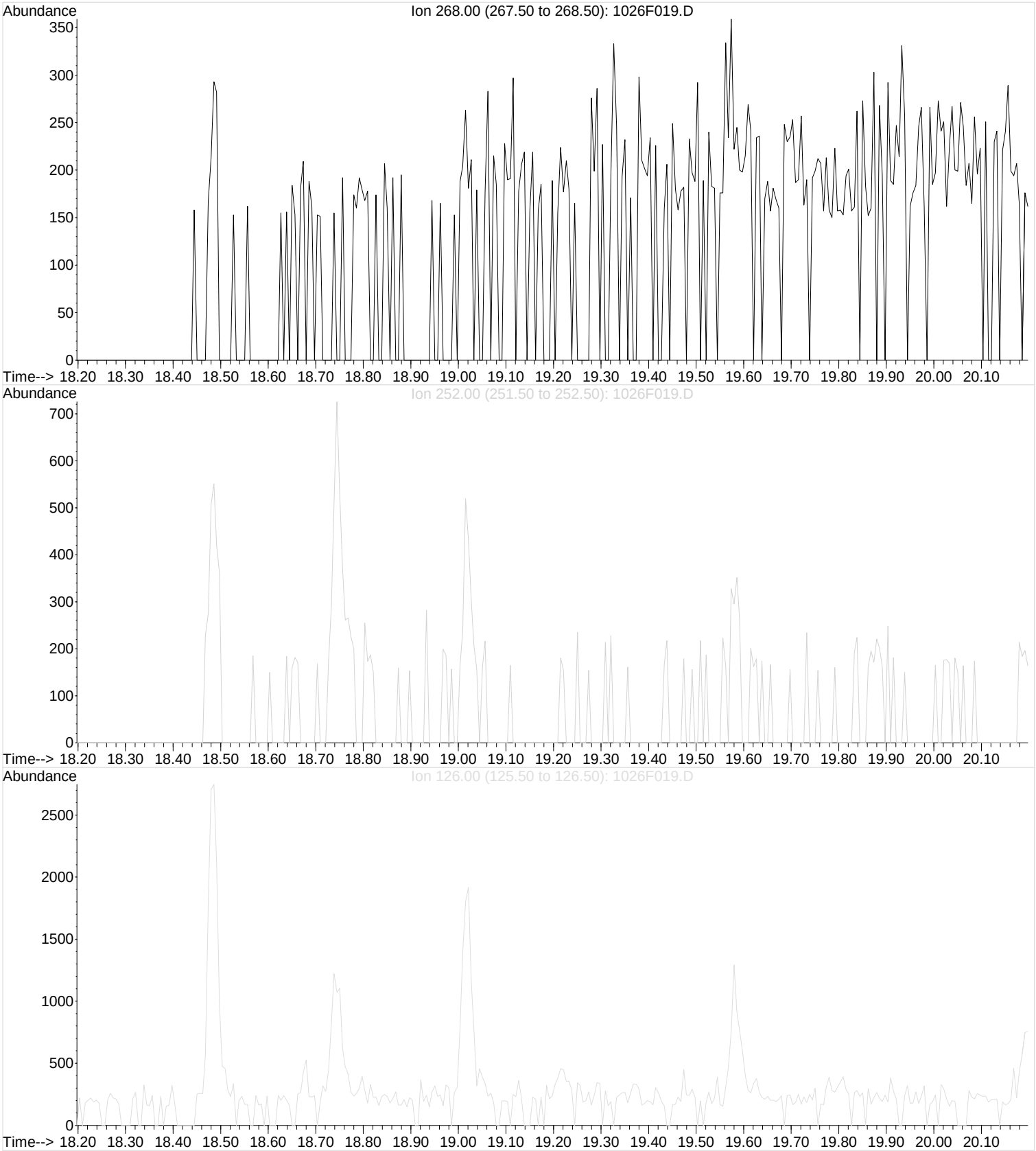
Perylene - ND



1st 10/31/23
2nd 11/06/23

File : J:\MS29\DATA\102623\1026F019.D
Operator : CSD
Acquired : 26 Oct 2023 10:58 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: K2310979-002
Misc Info :
Vial Number: 19

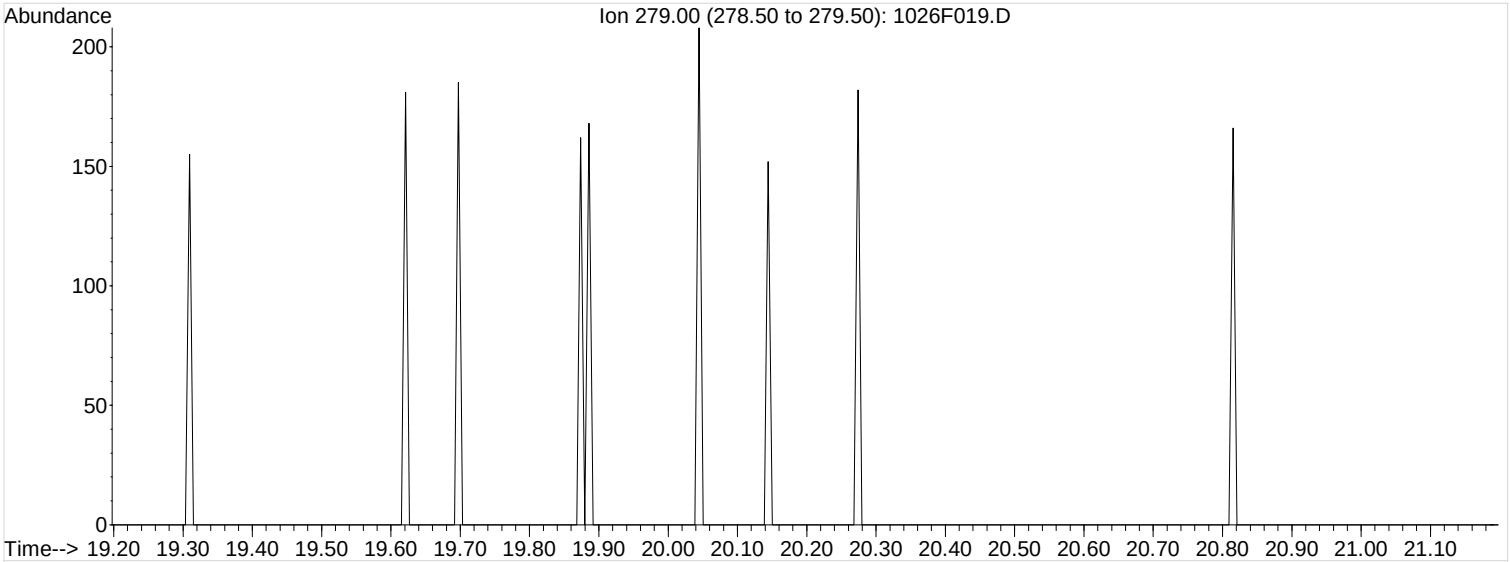
3-Methylcholanthrene - ND

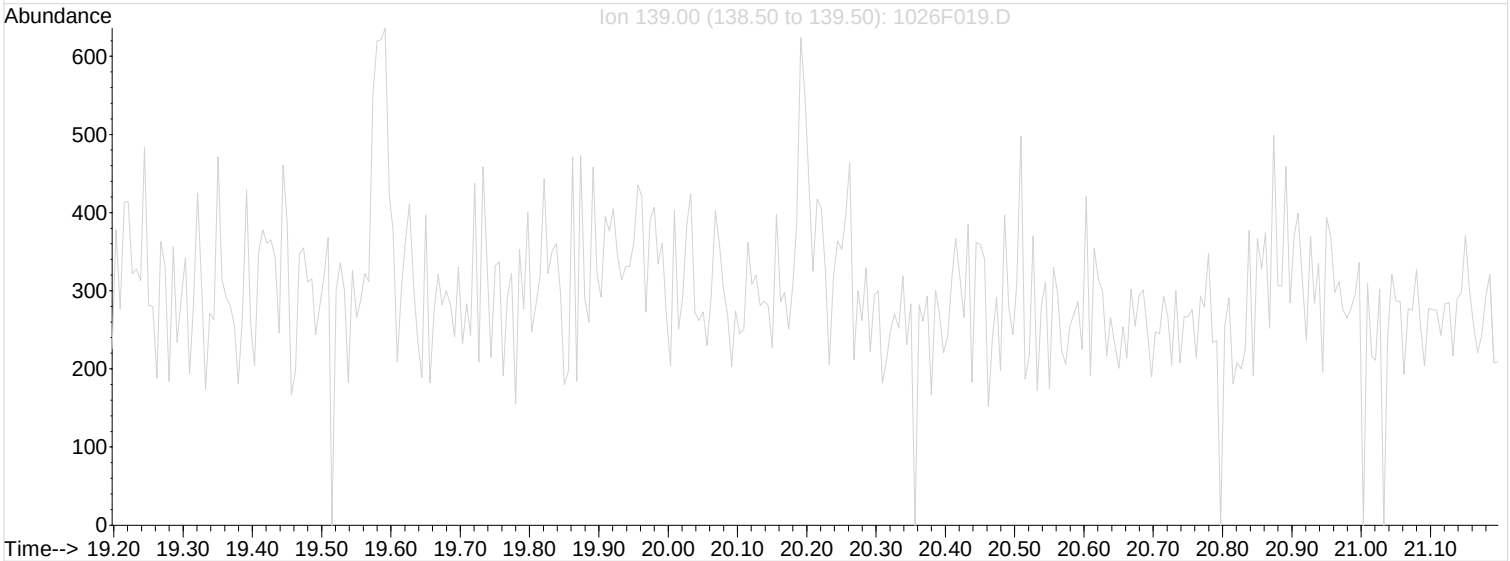


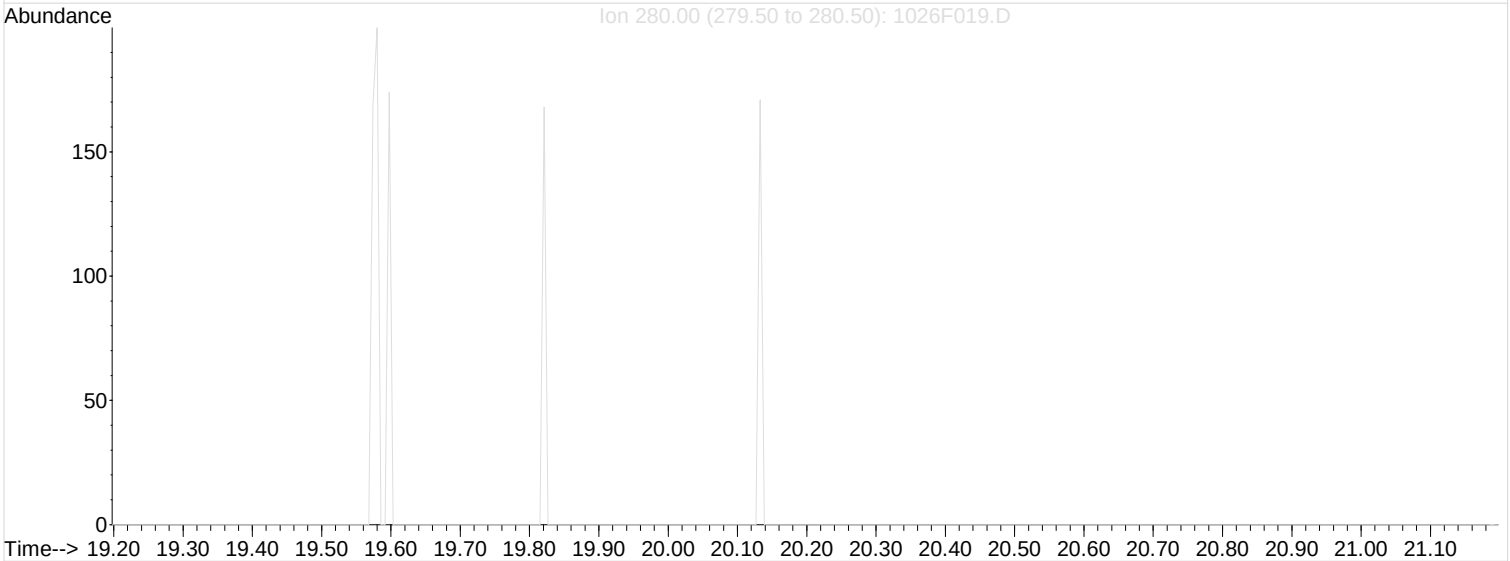
1st 10/31/23
2nd 11/06/23

File : J:\MS29\DATA\102623\1026F019.D
Operator : CSD
Acquired : 26 Oct 2023 10:58 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: K2310979-002
Misc Info :
Vial Number: 19

Dibenz(a,h)acridine - ND

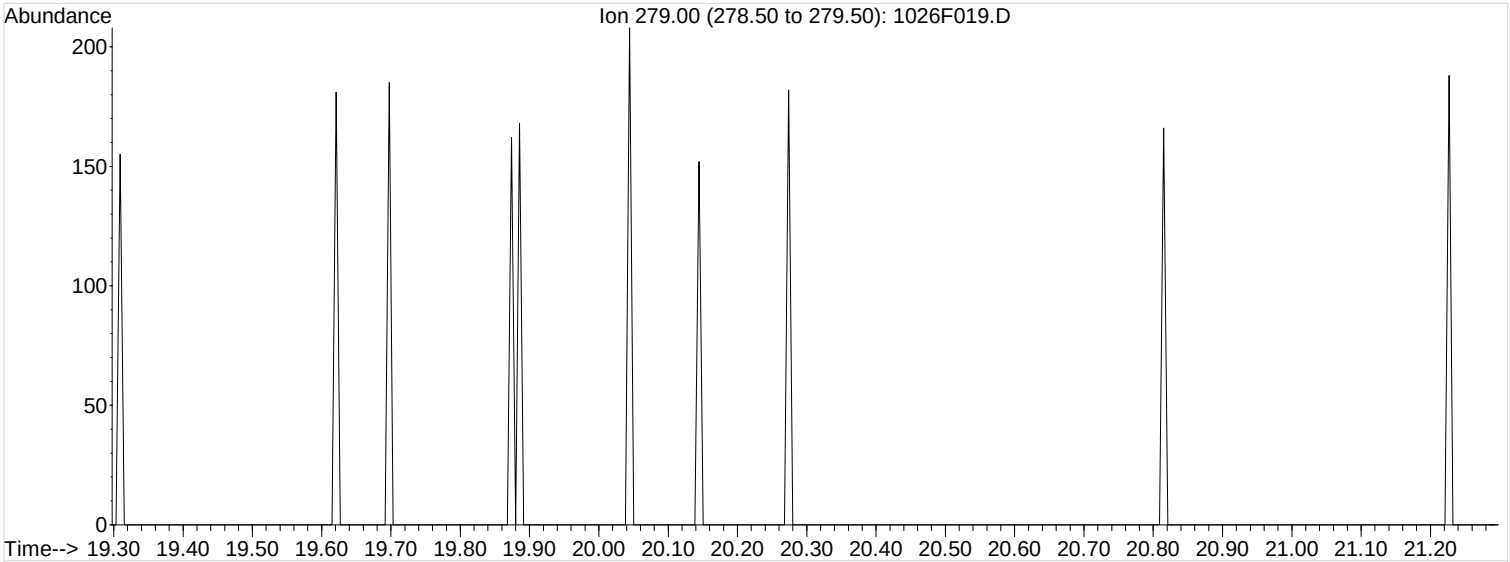


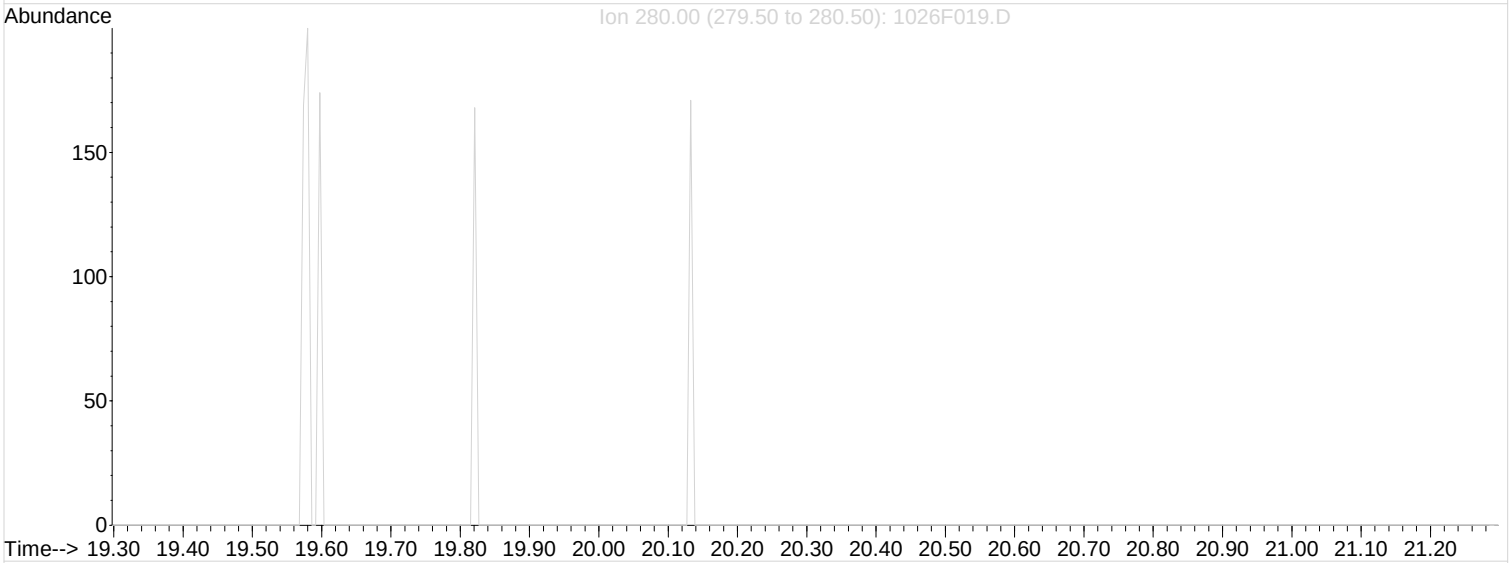


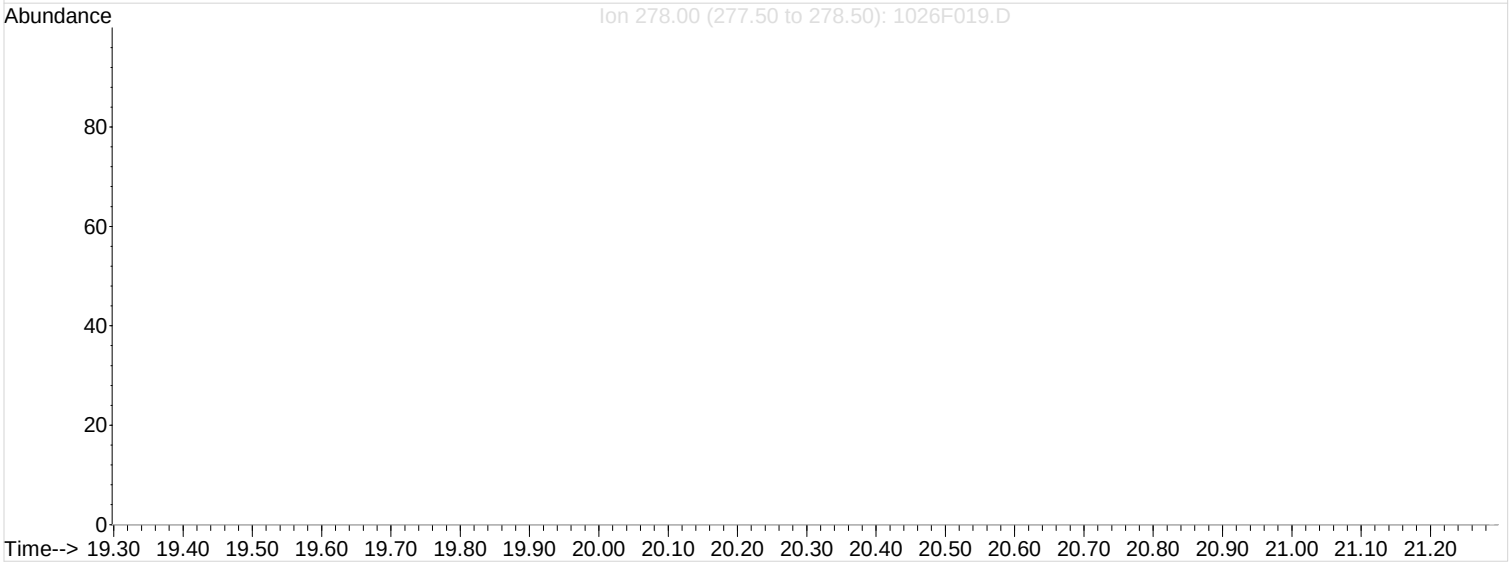


File : J:\MS29\DATA\102623\1026F019.D
Operator : CSD
Acquired : 26 Oct 2023 10:58 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: K2310979-002
Misc Info :
Vial Number: 19

Dibenz(a,j)acridine - ND



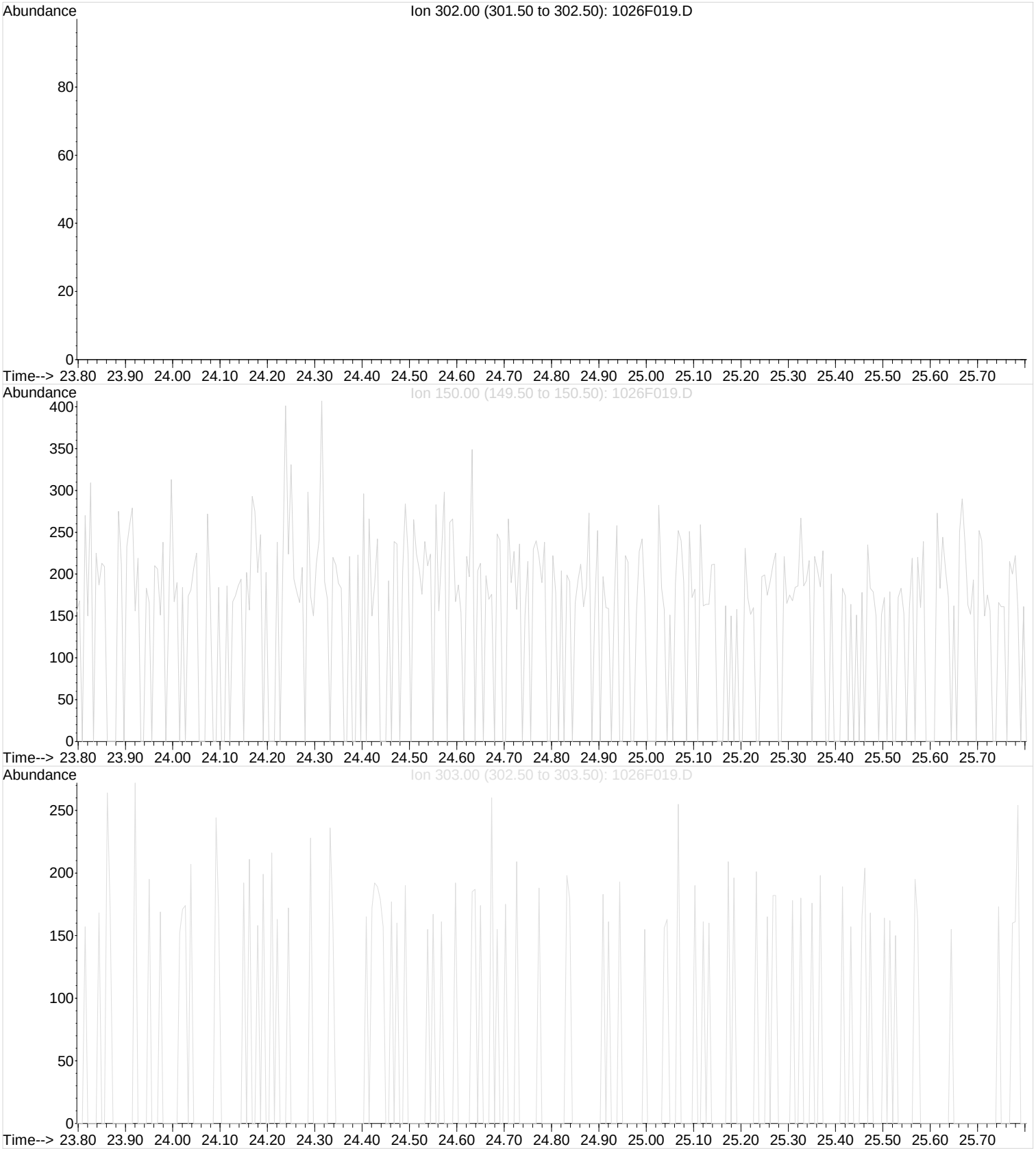




1st 10/31/23
2nd 11/06/23

File : J:\MS29\DATA\102623\1026F019.D
Operator : CSD
Acquired : 26 Oct 2023 10:58 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: K2310979-002
Misc Info :
Vial Number: 19

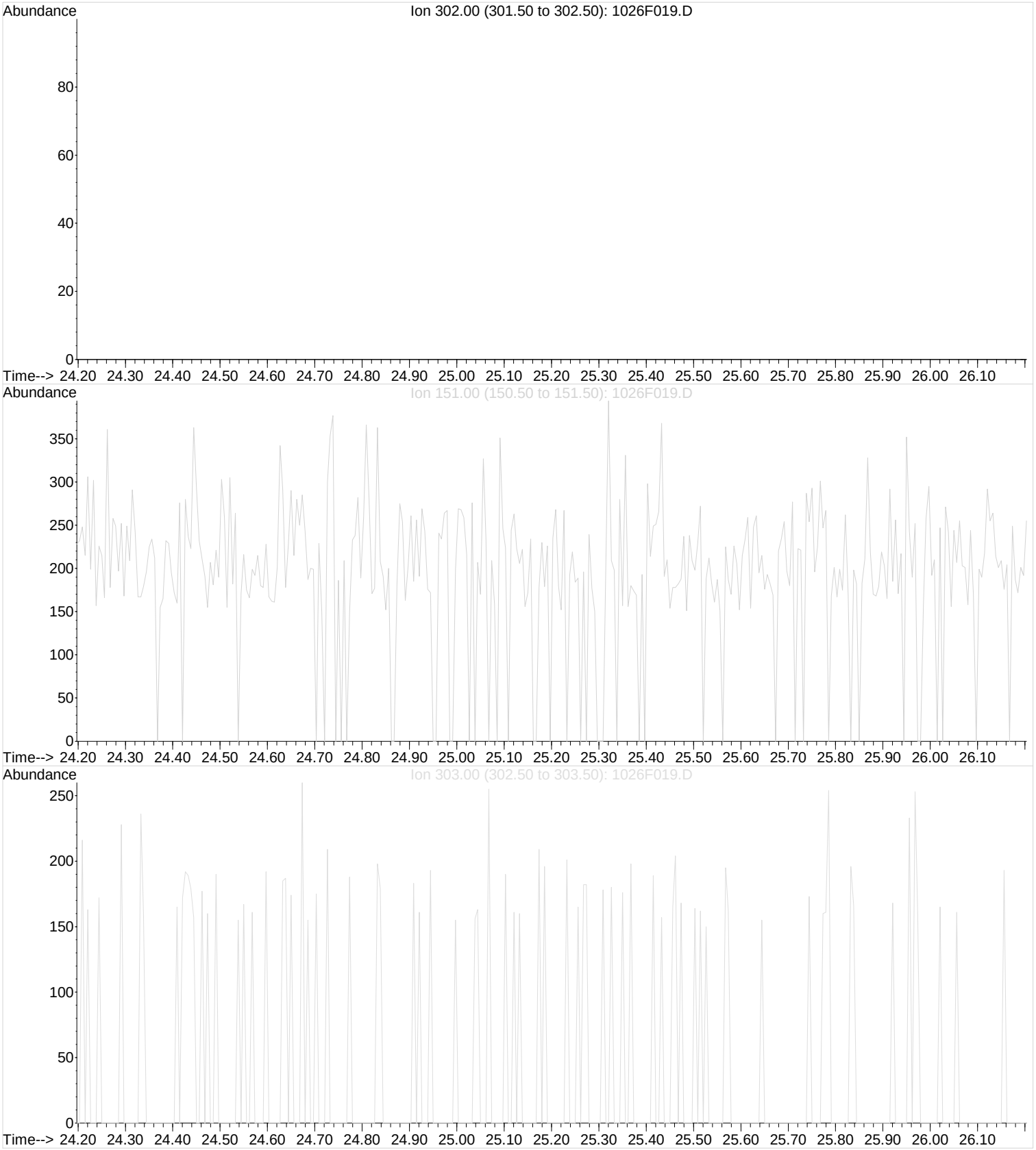
Dibenzo(a,e)pyrene - ND



1st CO 10/31/23
2nd 11/06/23

File : J:\MS29\DATA\102623\1026F019.D
Operator : CSD
Acquired : 26 Oct 2023 10:58 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: K2310979-002
Misc Info :
Vial Number: 19

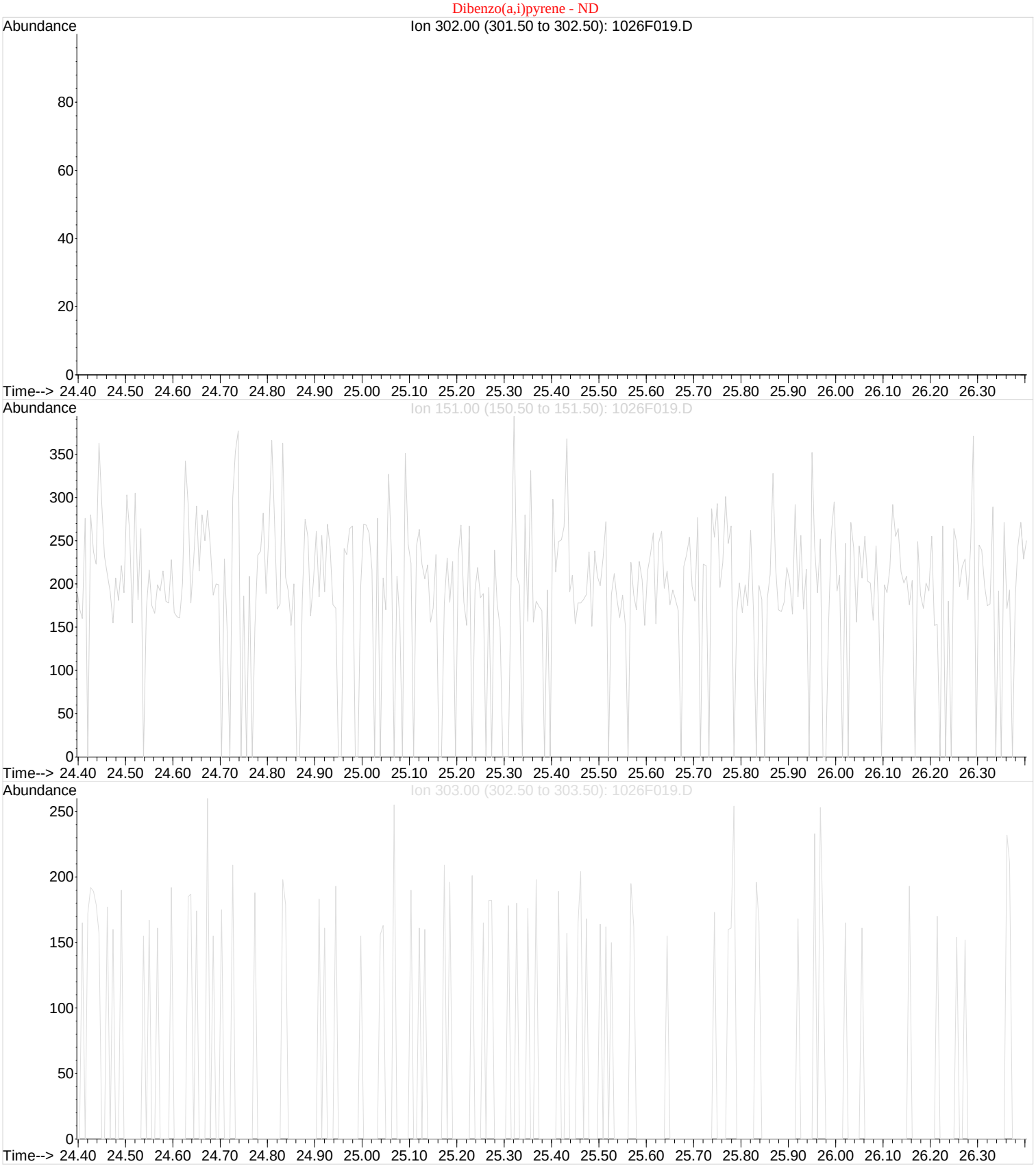
Dibenzo(a,h)pyrene - ND



1st 10/31/23
2nd 11/06/23

File : J:\MS29\DATA\102623\1026F019.D
Operator : CSD
Acquired : 26 Oct 2023 10:58 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: K2310979-002
Misc Info :
Vial Number: 19

Dibenzo(a,i)pyrene - ND



1st CO 10/31/23
2nd 10/31/23

Validation Report

Data File: J:\MS29\DATA\102623_BENZIDINE\1026F019.D\
Lab ID: K2310979-002
RunType: N/A
Matrix: Wastewater

Date Acquired: 10/26/23 22:58:00
Batch ID: 822396
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Lab Control Sample Recovery		X
Method Blank	X	
Internal Standards	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Sample Recovery	Benzidine	0	0.1	140	Low bias

Primary Review: _____

Secondary Review: _____

1st CO 10/31/23
2nd 10/31/23

Quantitation Report

Data File:	J:\MS29\DATA\102623_BENZIDINE\1026F019.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 22:58:00	**Vial:**	13
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2310979-002	**Raw Units:**	ng/mL

Bottle ID:	K2310979-002.14	**Tier:**	IV	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/27/23	**Receive Date:**	9/28/23

Analysis Lot:	822396	**Prep Lot:**	427467	**Report Group:**	K2310979
Analysis	625.1	**Prep Method:**	EPA 3510C		
		Prep Date:	10/3/23		

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300423
		Report List ID:	23062

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chrysene-d12	15.62	-0.01	322784	1000.00	OK

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Benzidine	0.00		0	0.00	0	U	Y

Prep Amount:	222.0000 mL	**Dilution:**	1
Prep Final Amount:	1.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 10/31/23 12:28
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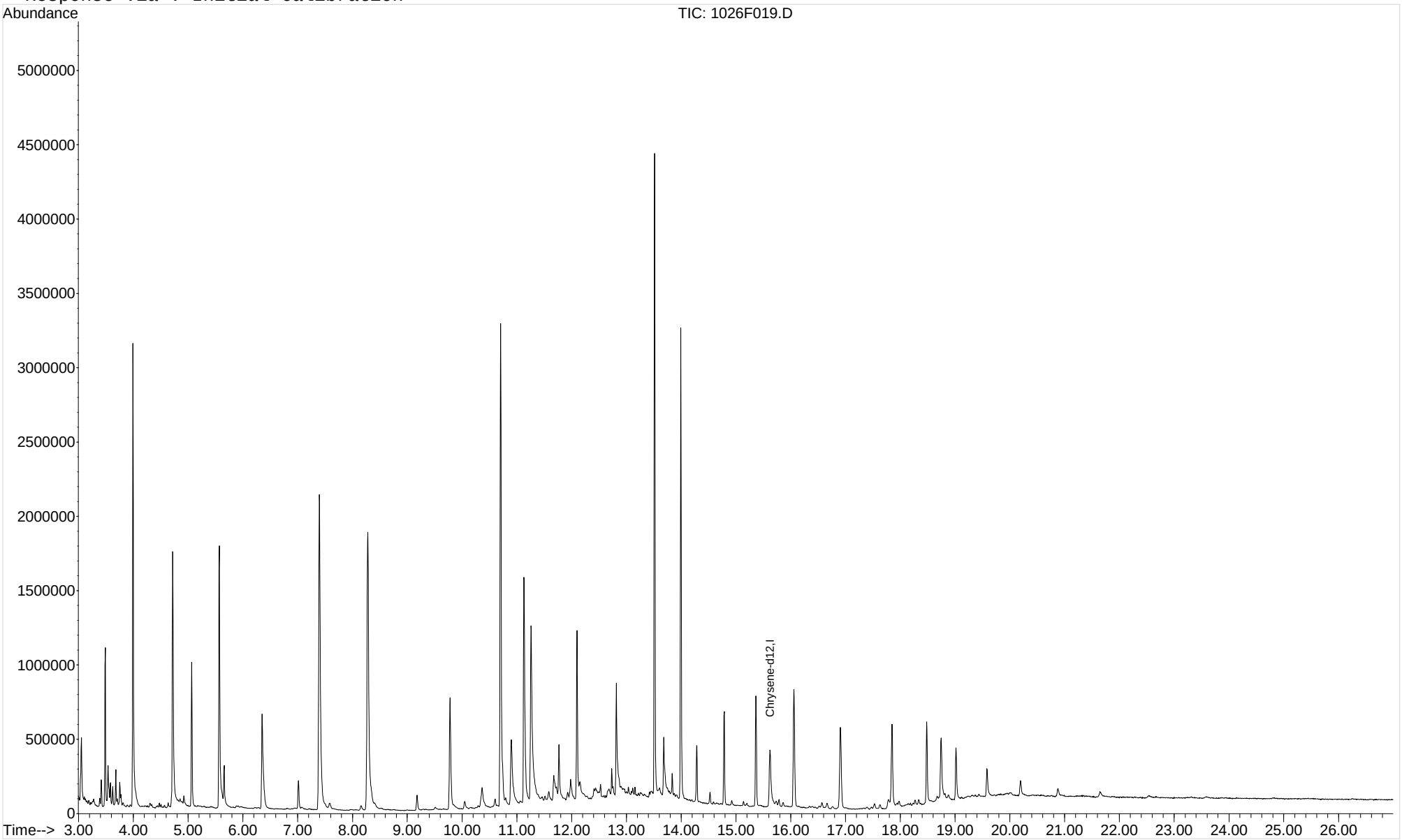
Quantitation Report (QT Reviewed)

1st 10/31/23
2nd 10/31/23

Data File : J:\MS29\DATA\102623_BENZIDINE\1026F019.D Vial: 19
Acq On : 26 Oct 2023 10:58 pm Operator: CSD
Sample : K2310979-002 Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 12:19 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Oct 31 12:08:02 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st CD 10/31/23
2nd 10/31/23

Data File : J:\MS29\DATA\102623_BENZIDINE\1026F019.D Vial: 19
Acq On : 26 Oct 2023 10:58 pm Operator: CSD
Sample : K2310979-002 Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 12:09:10 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Oct 31 12:08:02 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_LONG_ZB5.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.62	240	322784	1000.00	ng/ml	-0.02

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

1st CO 10/31/23
2nd 11/06/23

Validation Report

Data File: J:\MS29\DATA\102623\1026F004.D\
Lab ID: KQ2317294-01
RunType: MB
Matrix: Wastewater

Date Acquired: 10/26/23 15:53:00
Batch ID: 822275
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Printed: 10/31/23 11:44
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Secondary Review: _____

1st CO 10/31/23
2nd 11/06/23

Quantitation Report

Data File:	J:\MS29\DATA\102623\1026F004.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 15:53:00	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317294-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/26/23	**Receive Date:**	9/28/23

Analysis Lot:	822275	**Prep Lot:**	427467	**Report Group:**	KQ2317294
Analysis	625.1	**Prep Method:**	EPA 3510C		
		Prep Date:	10/3/23		

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300422
		Report List ID:	23062

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	9.79	+0.01	314972	1000.00	OK
Chrysene-d12	15.63	+0.01	225726	1000.00	OK
1,4-Dichlorobenzene-d4	5.07	+0.01	168573	1000.00	OK
Naphthalene-d8	6.35		637316	1000.00	OK
Perylene-d12	18.76	+0.02	249730	1000.00	OK
Phenanthrene-d10	12.10		491342	1000.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
2-Fluorobiphenyl	8.29	+0.01	1574956	3941.04	79	38 - 105	Y
2-Fluorophenol	3.99		952813	4797.88	64	17 - 101	Y
Nitrobenzene-d5	5.57		816418	4073.52	81	15 - 314	Y
Phenol-d6	4.72		866035	3771.95	50	8 - 424	Y
p-Terphenyl-d14	14.00	+0.01	1055222	4494.32	90	35 - 133	Y
2,4,6-Tribromophenol	11.14	+0.01	247783	5150.02	69	12 - 129	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Acenaphthene	0.00		0	0.00	0	U	Y
Acenaphthylene	0.00		0	0.00	0	U	Y
Anthracene	0.00		0	0.00	0	U	Y
Benz(a)anthracene	0.00		0	0.00	0	U	Y
Benzo(b)fluoranthene	0.00		0	0.00	0	U	Y
Benzo(k)fluoranthene	0.00		0	0.00	0	U	Y
Benzo(g,h,i)perylene	0.00		0	0.00	0	U	Y
Benzo(a)pyrene	0.00		0	0.00	0	U	Y
Bis(2-chloroethyl) Ether	0.00		0	0.00	0	U	Y

1st CO 10/31/23
2nd 11/06/23

Data File:	J:\MS29\DATA\102623\1026F004.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 15:53:00	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317294-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bis(2-ethylhexyl) Phthalate	0.00		0	0.00	0	U	Y
Bis(2-chloroethoxy)methane	0.00		0	0.00	0	U	Y
4-Bromophenyl Phenyl Ether	0.00		0	0.00	0	U	Y
Butyl Benzyl Phthalate	0.00		0	0.00	0	U	Y
4-Chloro-3-methylphenol	0.00		0	0.00	0	U	Y
2-Chloronaphthalene	0.00		0	0.00	0	U	Y
2-Chlorophenol	0.00		0	0.00	0	U	Y
4-Chlorophenyl Phenyl Ether	0.00		0	0.00	0	U	Y
Chrysene	0.00		0	0.00	0	U	Y
Di-n-butyl Phthalate	12.85		4265	17.52	0.070	U	Y
Di-n-octyl Phthalate	0.00		0	0.00	0	U	Y
Dibenz(a,h)acridine				0	0.0	U	Y
Dibenz(a,j)acridine				0	0.0	U	Y
Dibenz(a,h)anthracene	0.00		0	0.00	0	U	Y
Dibenzo(a,e)pyrene				0	0.0	U	Y
Dibenzo(a,h)pyrene				0	0.0	U	Y
Dibenzo(a,i)pyrene				0	0.0	U	Y
3,3'-Dichlorobenzidine	0.00		0	0.00	0	U	Y
2,4-Dichlorophenol	0.00		0	0.00	0	U	Y
Diethyl Phthalate	0.00		0	0.00	0	U	Y
Dimethyl Phthalate	0.00		0	0.00	0	U	Y
2,4-Dimethylphenol	0.00		0	0.00	0	U	Y
4,6-Dinitro-2-methylphenol	0.00		0	0.00	0	U	Y
2,4-Dinitrophenol	0.00		0	0.00	0	U	Y
2,4-Dinitrotoluene	0.00		0	0.00	0	U	Y
2,6-Dinitrotoluene	0.00		0	0.00	0	U	Y
1,2-Diphenylhydrazine	0.00		0	0.00	0	U	Y
Fluoranthene	0.00		0	0.00	0	U	Y
Fluorene	0.00		0	0.00	0	U	Y
Hexachlorobenzene	0.00		0	0.00	0	U	Y
Hexachlorobutadiene	0.00		0	0.00	0	U	Y
Hexachlorocyclopentadiene	0.00		0	0.00	0	U	Y
Hexachloroethane	0.00		0	0.00	0	U	Y
Indeno(1,2,3-cd)pyrene	0.00		0	0.00	0	U	Y
Isophorone	0.00		0	0.00	0	U	Y
3-Methylcholanthrene				0	0.0	U	Y
Naphthalene	0.00		0	0.00	0	U	Y
Nitrobenzene	0.00		0	0.00	0	U	Y
2-Nitrophenol	0.00		0	0.00	0	U	Y
4-Nitrophenol	0.00		0	0.00	0	U	Y
N-Nitrosodi-n-propylamine	0.00		0	0.00	0	U	Y

1st CO 10/31/23
2nd 11/06/23

Data File:	J:\MS29\DATA\102623\1026F004.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 15:53:00	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317294-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
N-Nitrosodimethylamine	0.00		0	0.00	0	U	Y
N-Nitrosodiphenylamine	0.00		0	0.00	0	U	Y
2,2'-Oxybis(1-chloropropane)	0.00		0	0.00	0	U	Y
Pentachlorophenol (PCP)	0.00		0	0.00	0	U	Y
Perylene				0	0.0	U	Y
Phenanthrene	0.00		0	0.00	0	U	Y
Phenol	0.00		0	0.00	0	U	Y
Pyrene	0.00		0	0.00	0	U	Y
1,2,4-Trichlorobenzene	0.00		0	0.00	0	U	Y
2,4,6-Trichlorophenol	0.00		0	0.00	0	U	Y

Prep Amount:	250 mL	**Dilution:**	1
Prep Final Amount:	1.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

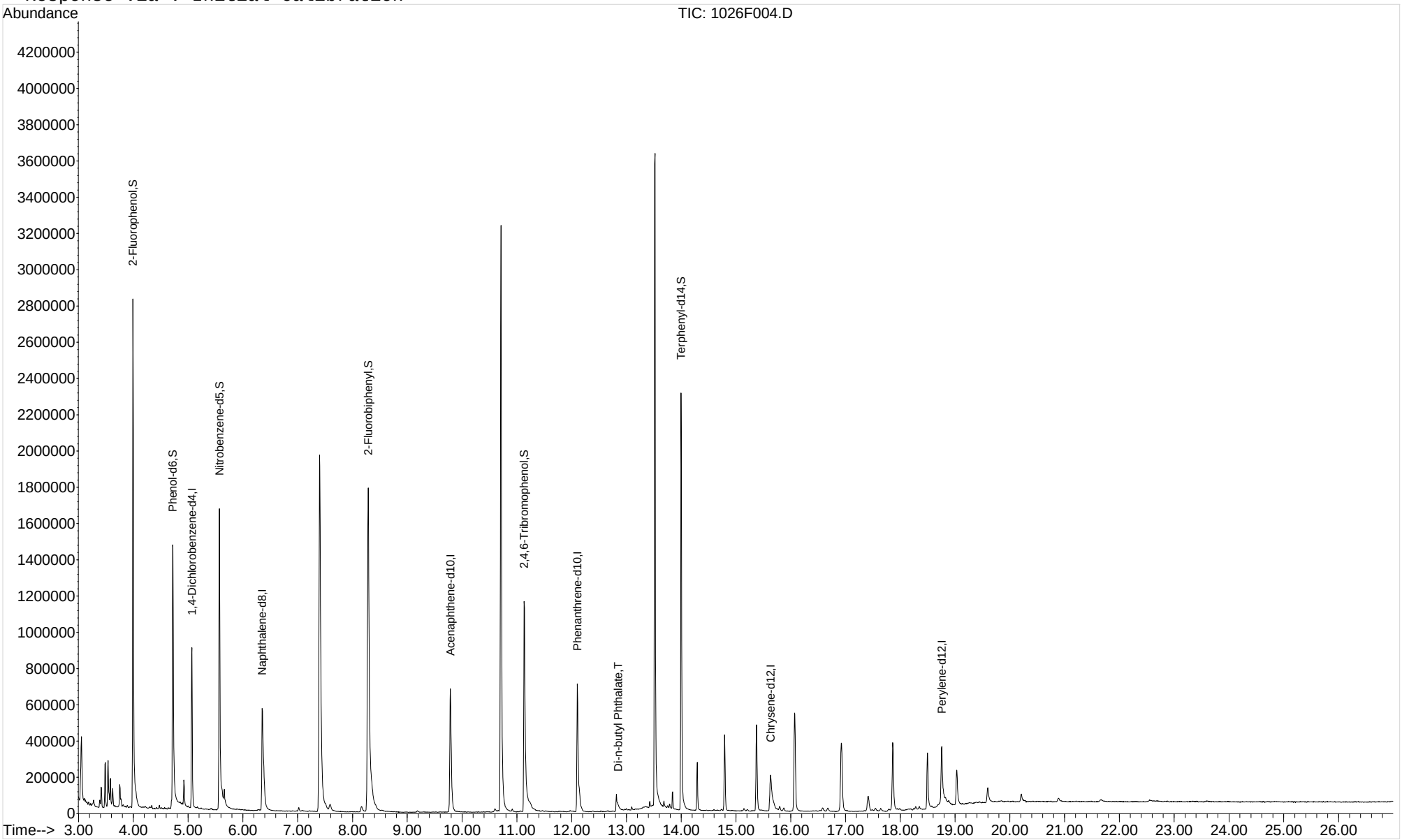
*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 10/31/23 11:44
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

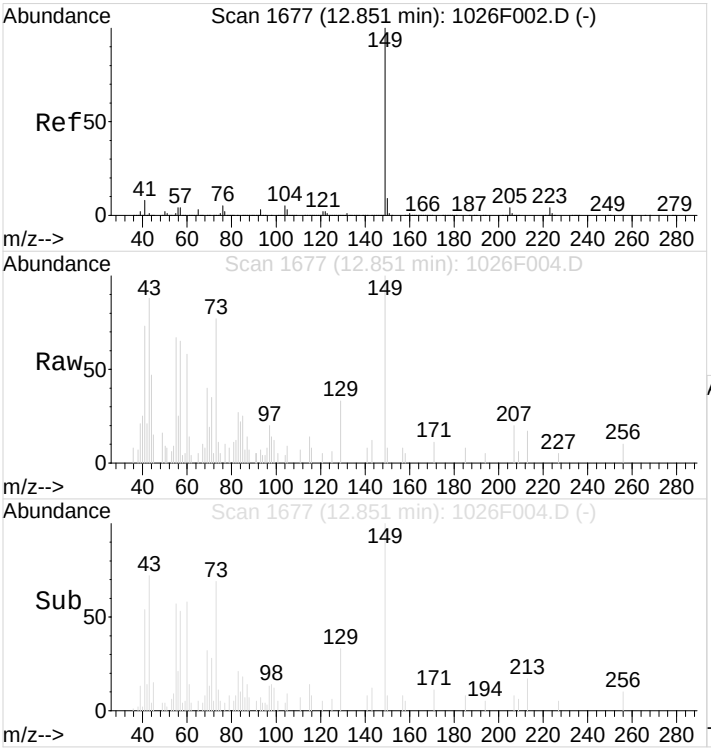
1st 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F004.D Vial: 4
Acq On : 26 Oct 2023 03:53 pm Operator: CSD
Sample : KQ2317294-01 MB Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 9:55 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Mon Oct 30 09:53:10 2023
Response via : Initial Calibration



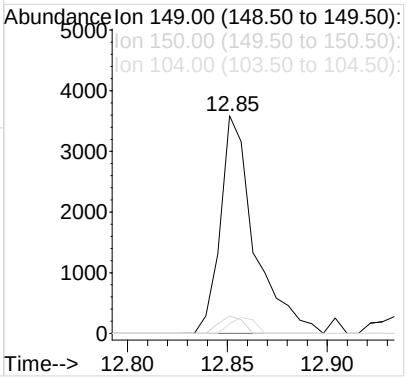
1st 10/31/23
2nd 11/06/23



#67
Di-n-butyl Phthalate
Concen: 17.52 ng/ml
RT: 12.85 min Scan# 1677
Delta R.T. -0.01 min
Lab File: 1026F004.D
Acq: 26 Oct 2023 03:53 pm

Tgt Ion:149 Resp: 4265

Ion	Ratio	Lower	Upper
149	100		
150	8.0	0.0	39.1
104	4.4	0.0	35.0



Quantitation Report (Not Reviewed)

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F004.D Vial: 4
Acq On : 26 Oct 2023 03:53 pm Operator: CSD
Sample : KQ2317294-01 MB Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 09:37:32 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_LONG_ZB5.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	168573	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.35	136	637316	1000.00	ng/ml	-0.01
35) Acenaphthene-d10	9.79	164	314972	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.10	188	491342	1000.00	ng/ml	0.00
69) Chrysene-d12	15.63	240	225726	1000.00	ng/ml	-0.01
77) Perylene-d12	18.76	264	249730	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.99	112	952813	4797.88	ng/ml	-0.01
Spiked Amount 3750.000	Range 38 - 110		Recovery = 127.94%#			
6) Phenol-d6	4.72	99	866035m	3771.95	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 100.59%			
19) Nitrobenzene-d5	5.57	82	816418	4073.52	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 162.94%#			
39) 2-Fluorobiphenyl	8.29	172	1574956	3941.04	ng/ml	-0.02
Spiked Amount 2500.000	Range 37 - 126		Recovery = 157.64%#			
60) 2,4,6-Tribromophenol	11.14	330	247783	5150.02	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 137.33%			
71) Terphenyl-d14	14.00	244	1055222	4494.32	ng/ml	-0.01
Spiked Amount 2500.000	Range 54 - 158		Recovery = 179.77%#			
Target Compounds						Qvalue
67) Di-n-butyl Phthalate	12.85	149	4265	17.52	ng/ml	97

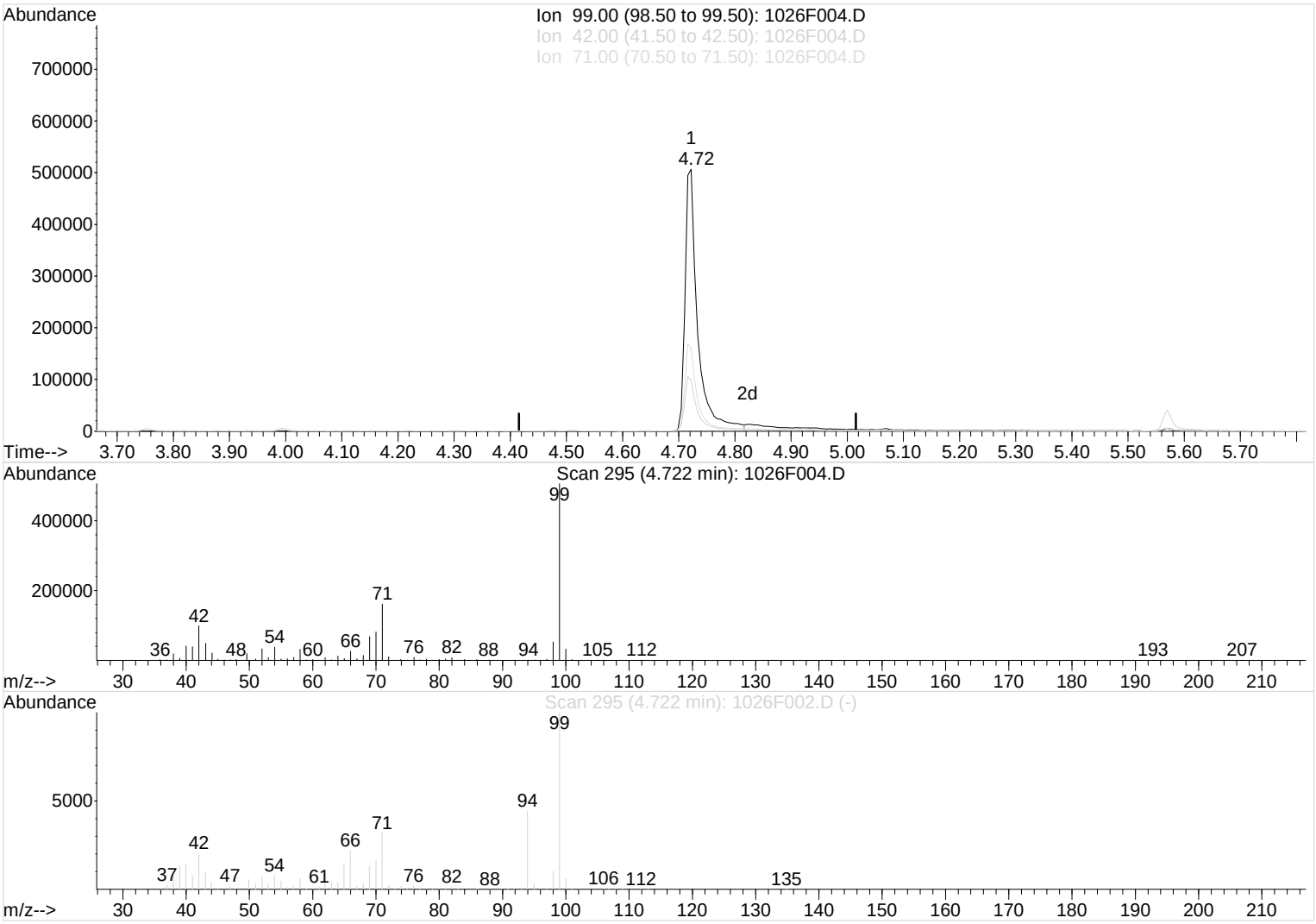
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F004.D Vial: 4
Acq On : 26 Oct 2023 03:53 pm Operator: CSD
Sample : KQ2317294-01 MB Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 9:53 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Multiple Level Calibration



TIC: 1026F004.D

(6) Phenol-d6 (S)

4.72min 3439.04ng/ml

response 789600

Ion	Exp%	Act%
99.00	100	100
42.00	18.60	19.37
71.00	31.70	31.77
0.00	0.00	0.00

Manual Integration:

Before

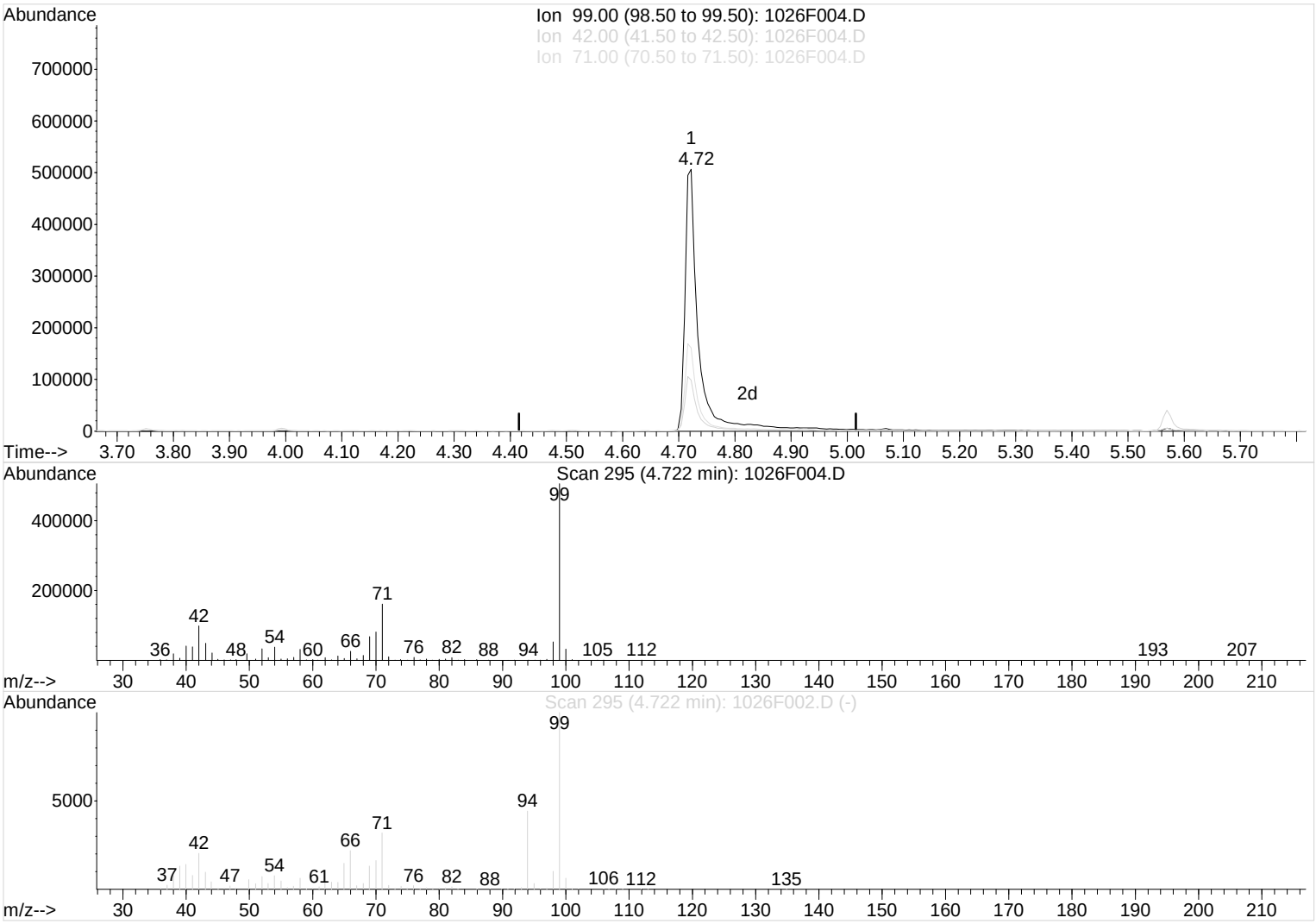
10/30/23

Quantitation Report (Qedit)

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F004.D Vial: 4
Acq On : 26 Oct 2023 03:53 pm Operator: CSD
Sample : KQ2317294-01 MB Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 9:53 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Multiple Level Calibration



TIC: 1026F004.D

(6) Phenol-d6 (S)

4.72min 3771.95ng/ml m

response 866035

Ion	Exp%	Act%
99.00	100	100
42.00	18.60	19.48
71.00	31.70	31.83
0.00	0.00	0.00

Manual Integration:

After

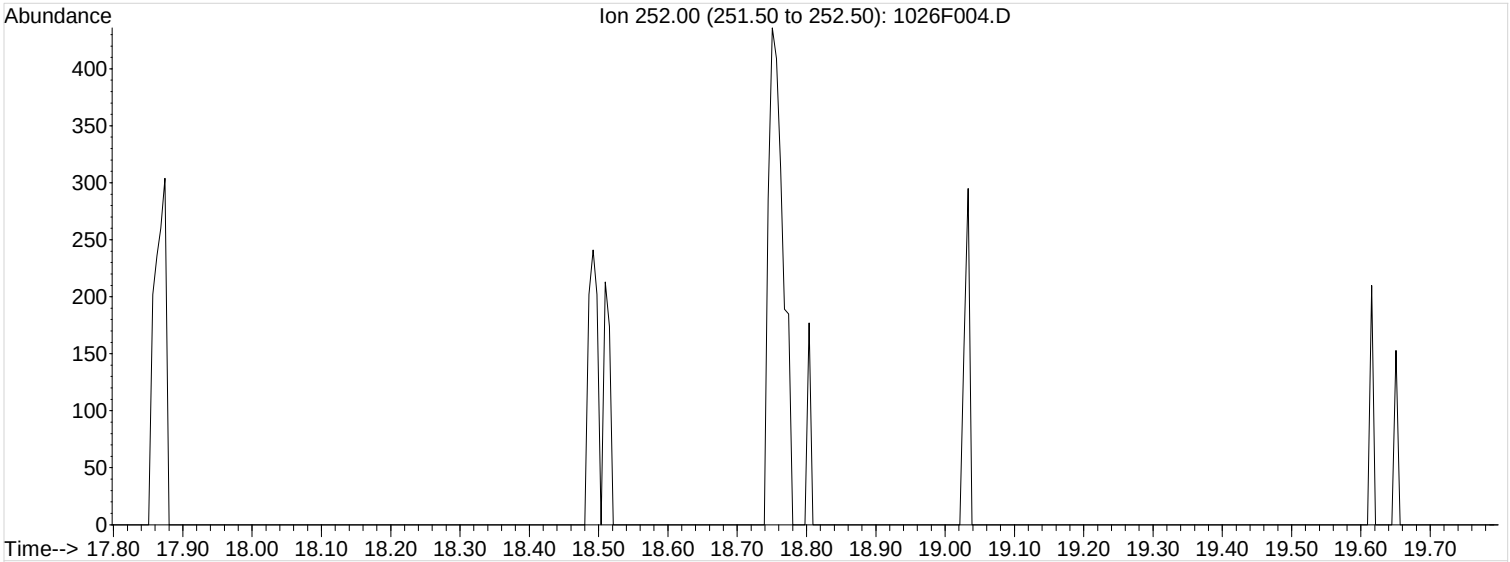
Baseline correction

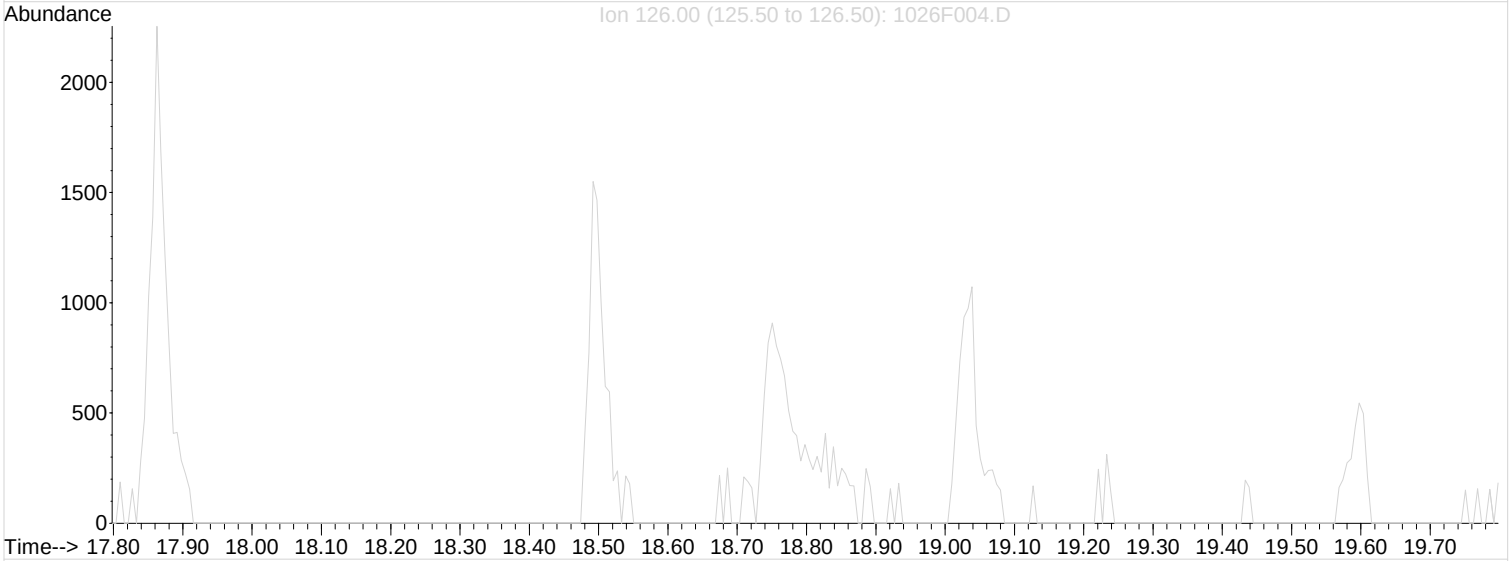
10/30/23

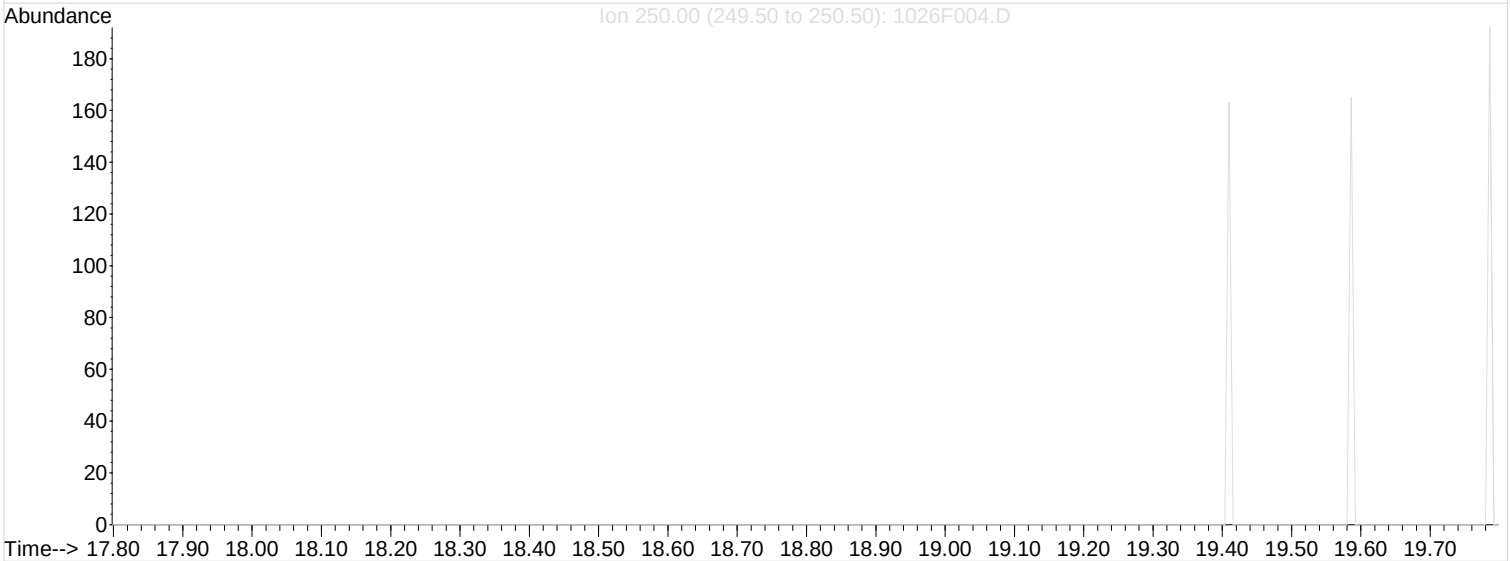
1st 10/31/23
2nd 11/06/23

File : J:\MS29\DATA\102623\1026F004.D
Operator : CSD
Acquired : 26 Oct 2023 03:53 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: KQ2317294-01 MB
Misc Info :
Vial Number: 4

Perylene - ND



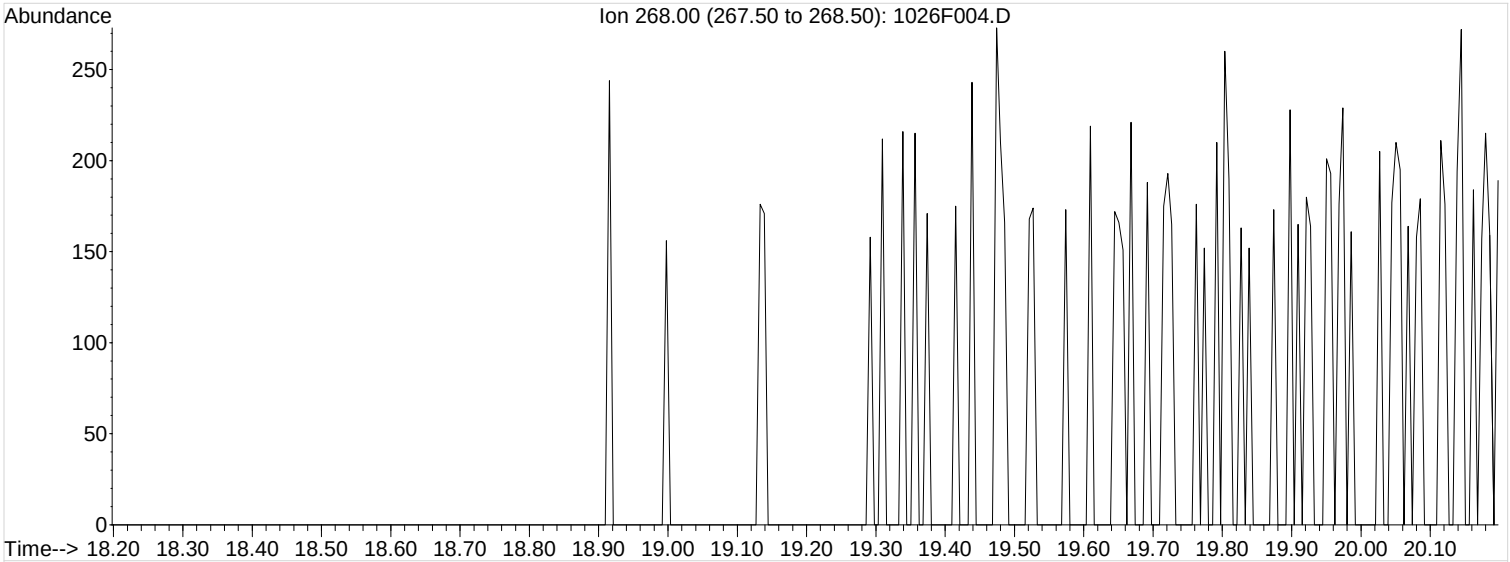


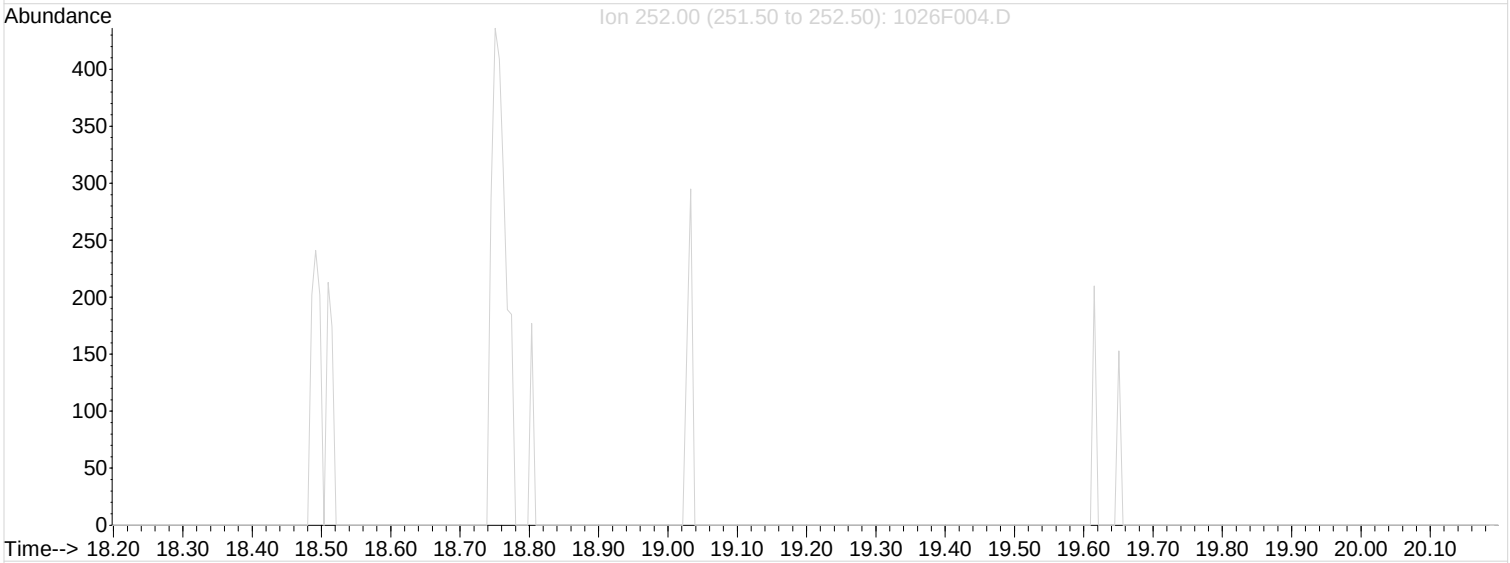


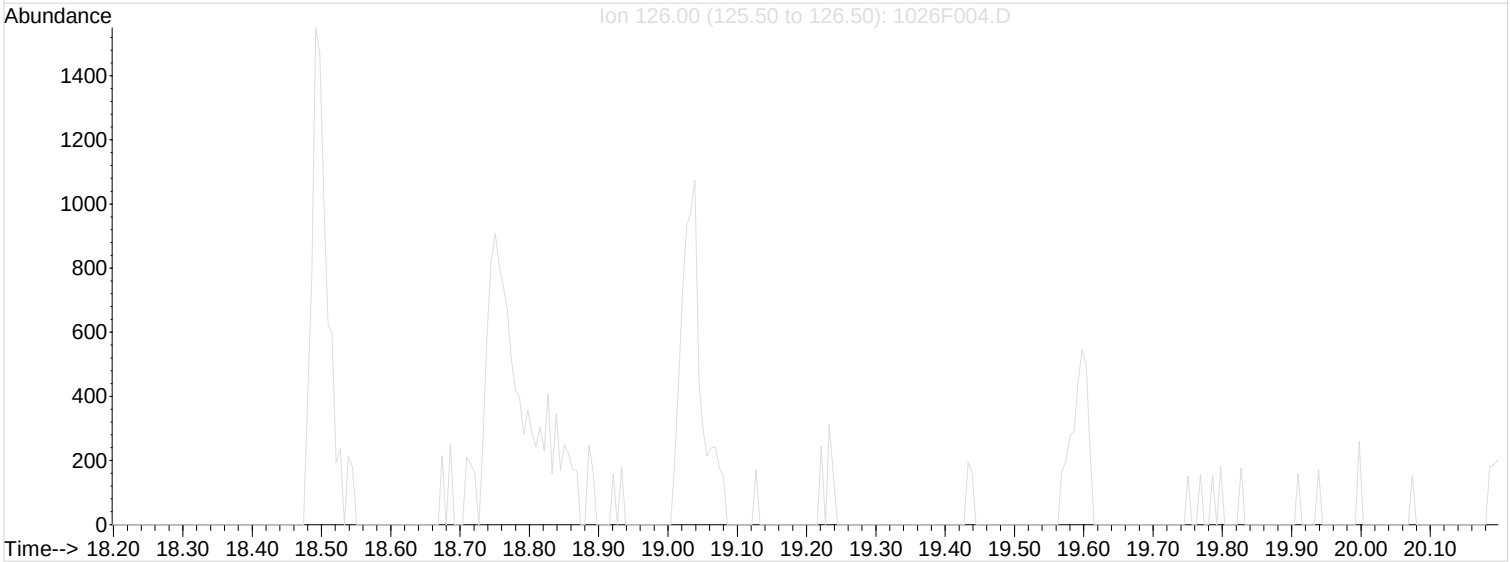
1st 10/31/23
2nd 11/06/23

File : J:\MS29\DATA\102623\1026F004.D
Operator : CSD
Acquired : 26 Oct 2023 03:53 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: KQ2317294-01 MB
Misc Info :
Vial Number: 4

3-Methylcholanthrene - ND







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Operator   : CSD
Acquired   : 26 Oct 2023  03:53 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument :   MS29
Sample Name: KQ2317294-01  MB
Misc Info  :
Vial Number: 4
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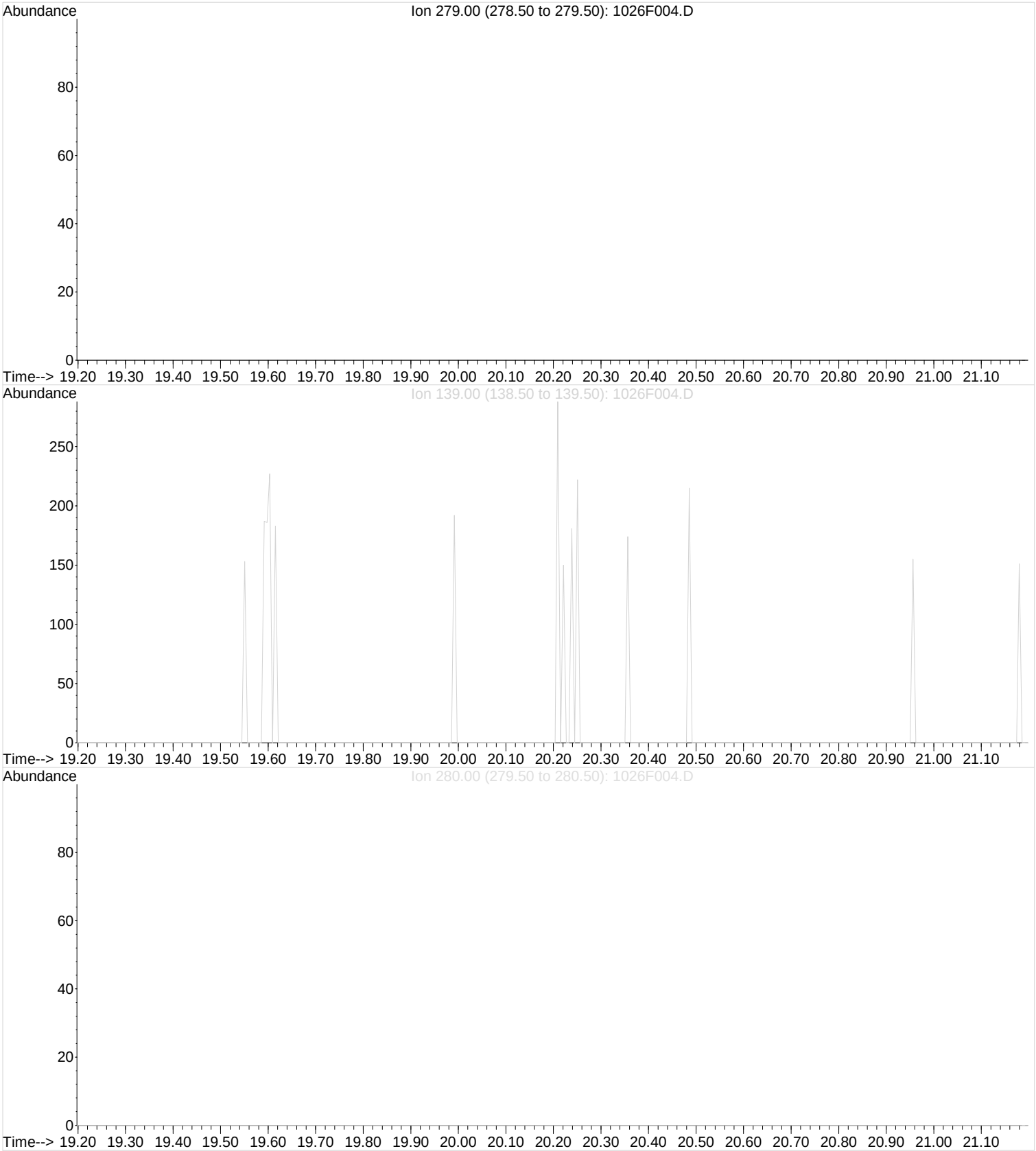
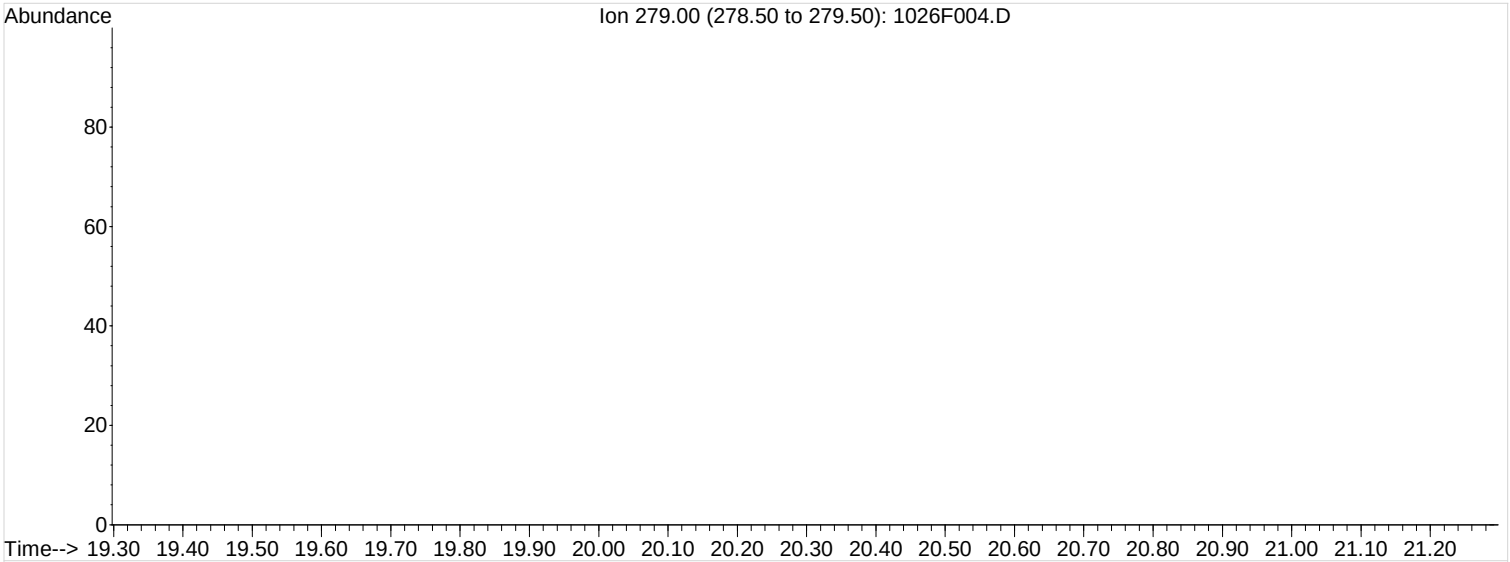
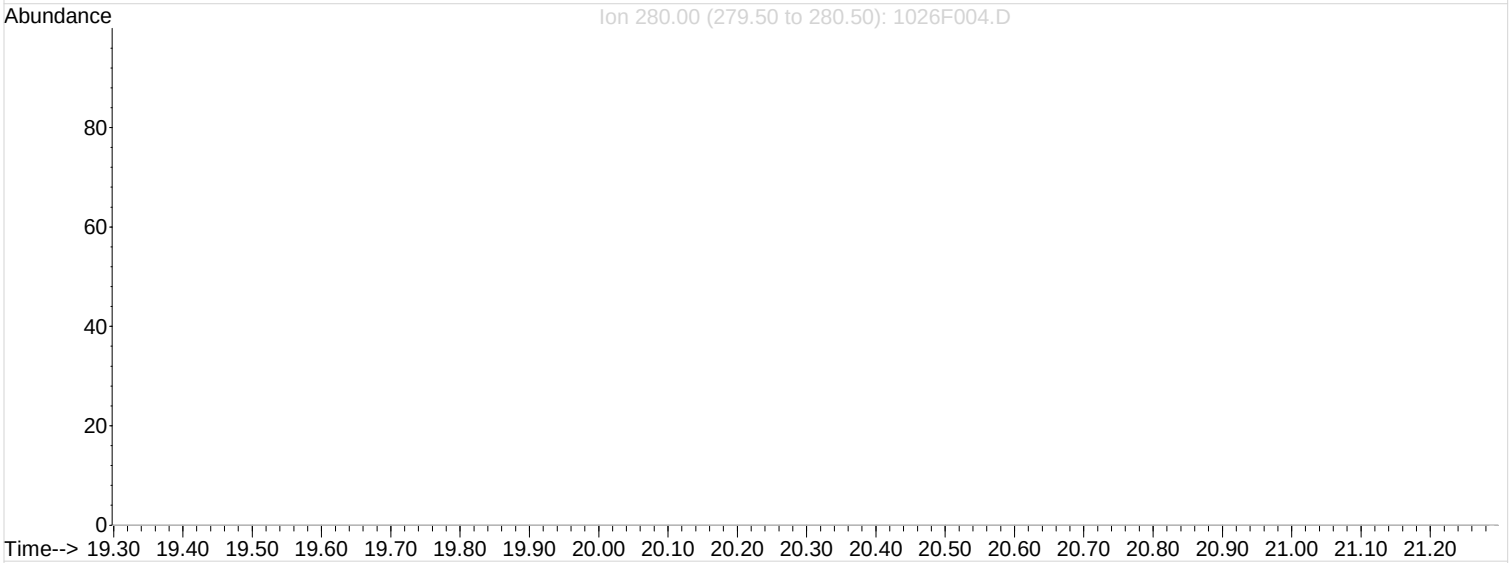
Dibenz(a,h)acridine - ND

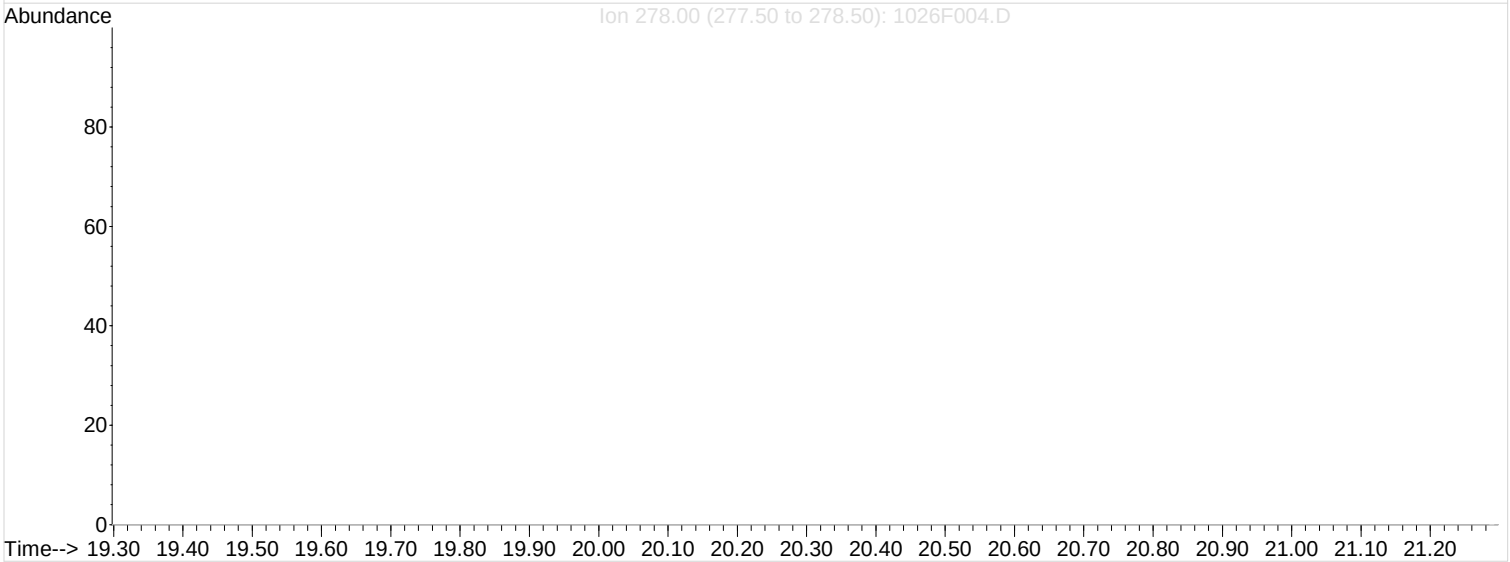


File : J:\MS29\DATA\102623\1026F004.D
Operator : CSD
Acquired : 26 Oct 2023 03:53 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: KQ2317294-01 MB
Misc Info :
Vial Number: 4

Dibenz(a,j)acridine - ND



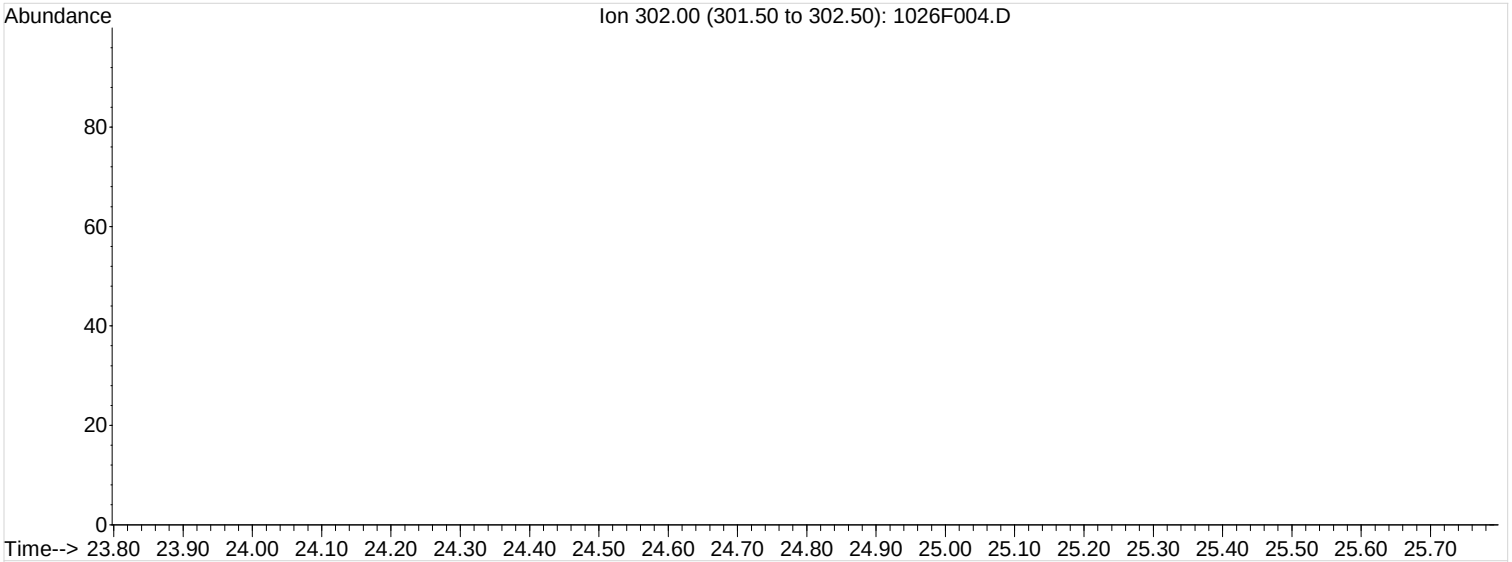


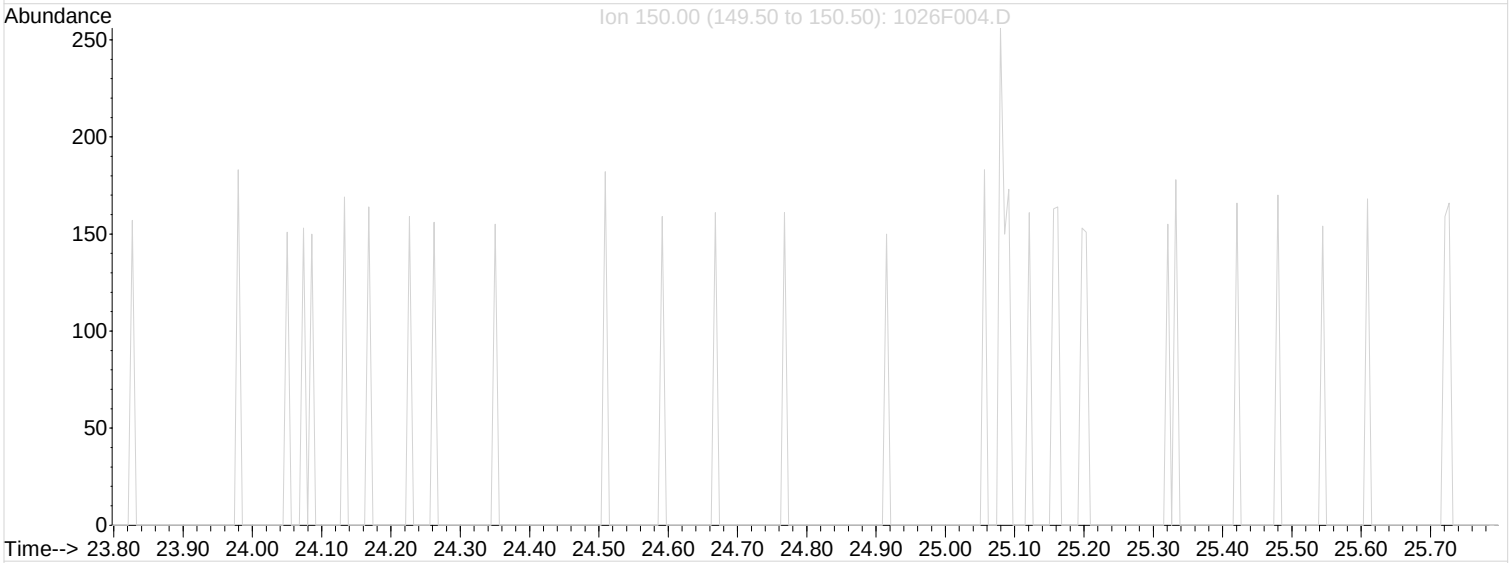


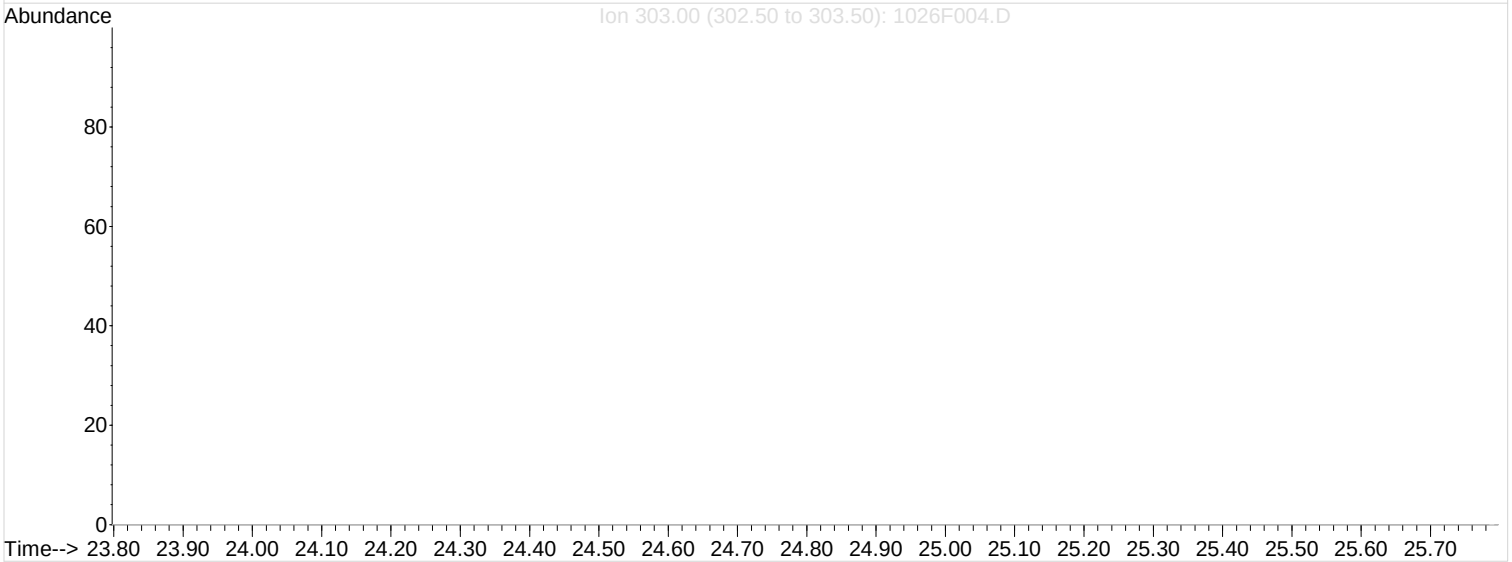
1st 10/31/23
2nd 11/06/23

File : J:\MS29\DATA\102623\1026F004.D
Operator : CSD
Acquired : 26 Oct 2023 03:53 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: KQ2317294-01 MB
Misc Info :
Vial Number: 4

Dibenzo(a,e)pyrene - ND



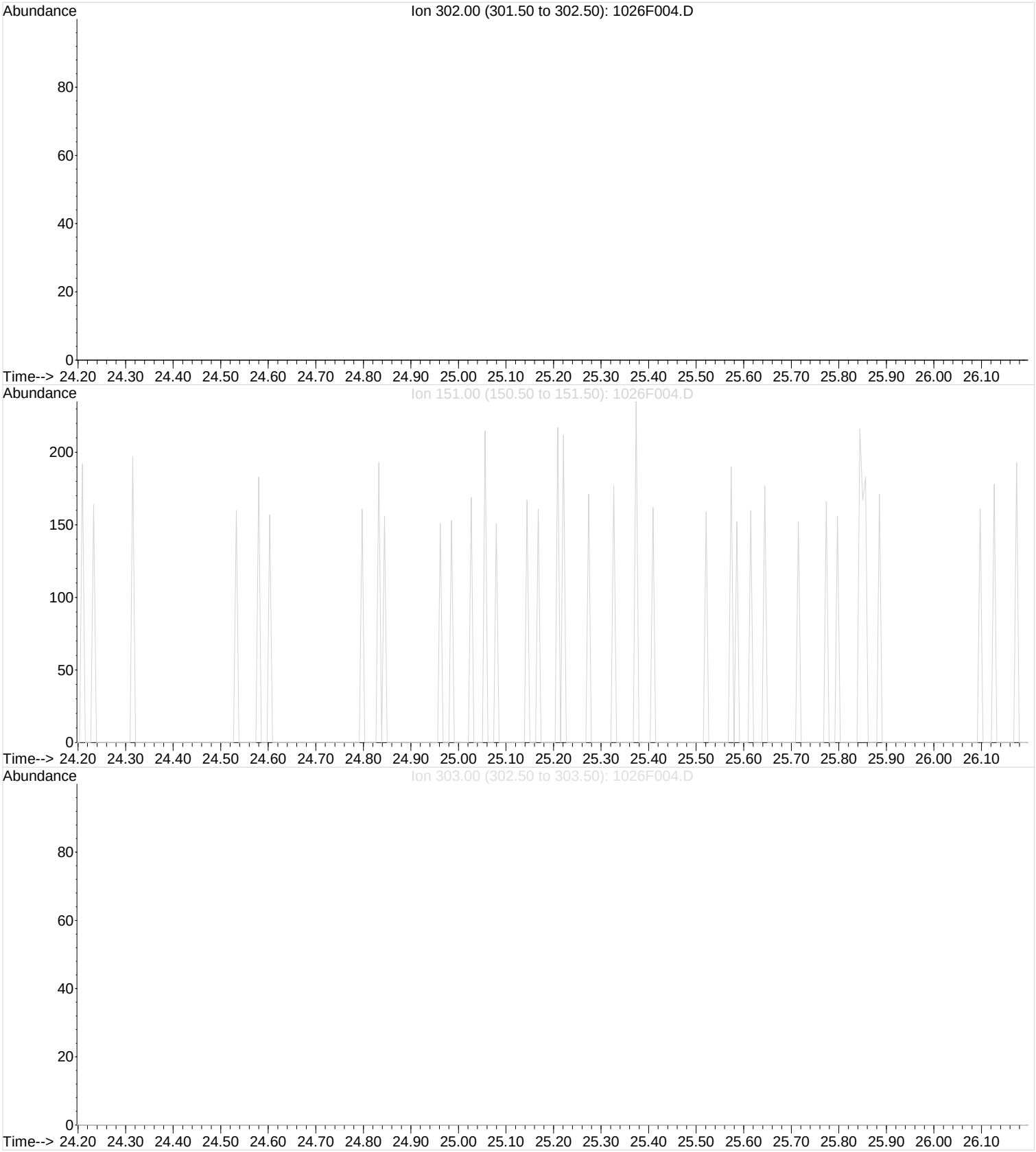




1st CD 10/31/23
2nd 11/06/23

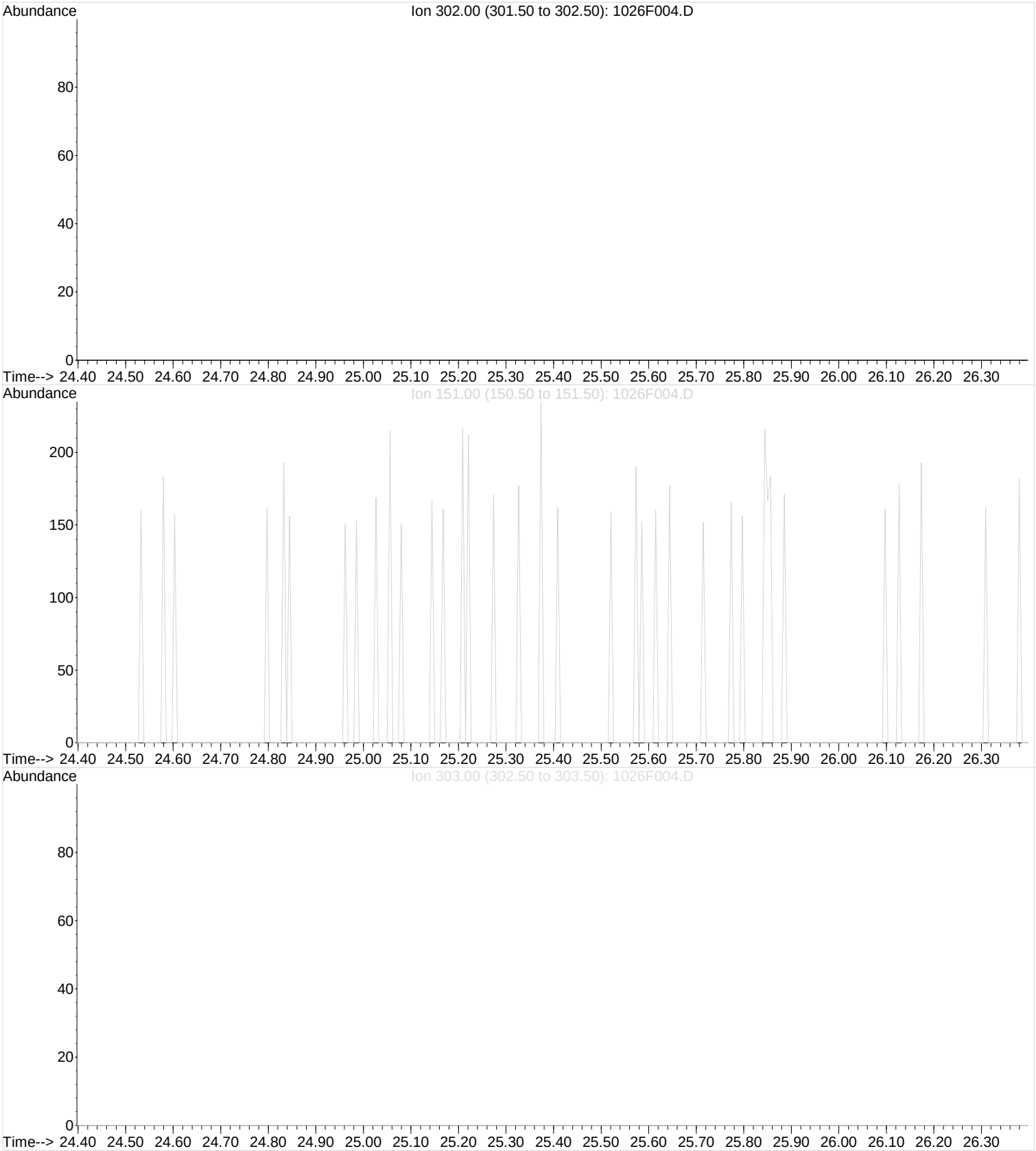
File : J:\MS29\DATA\102623\1026F004.D
Operator : CSD
Acquired : 26 Oct 2023 03:53 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: KQ2317294-01 MB
Misc Info :
Vial Number: 4

Dibenzo(a,h)pyrene - ND



File : J:\MS29\DATA\102623\1026F004.D
Operator : CSD
Acquired : 26 Oct 2023 03:53 pm using AcqMethod 625_SVOLL_LONG_ZB5.
Instrument : MS29
Sample Name: KQ2317294-01 MB
Misc Info :
Vial Number: 4

Dibenzo(a,i)pyrene - ND



1st CO 10/31/23
2nd [signature] 10/31/23

Validation Report

Data File: J:\MS29\DATA\102623_BENZIDINE\1026F004.D\
Lab ID: KQ2317294-01
RunType: MB
Matrix: Wastewater

Date Acquired: 10/26/23 15:53:00
Batch ID: 822396
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

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Secondary Review: _____

1st CO 10/31/23
2nd 10/31/23

Quantitation Report

Data File:	J:\MS29\DATA\102623_BENZIDINE\1026F004.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 15:53:00	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2317294-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/26/23	**Receive Date:**	9/28/23

Analysis Lot:	822396	**Prep Lot:**	427467	**Report Group:**	KQ2317294
Analysis	625.1	**Prep Method:**	EPA 3510C		
		Prep Date:	10/3/23		

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300423
		Report List ID:	23062

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chrysene-d12	15.63		225726	1000.00	OK

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Benzidine	0.00		0	0.00	0	U	Y

Prep Amount:	250 mL	**Dilution:**	1
Prep Final Amount:	1.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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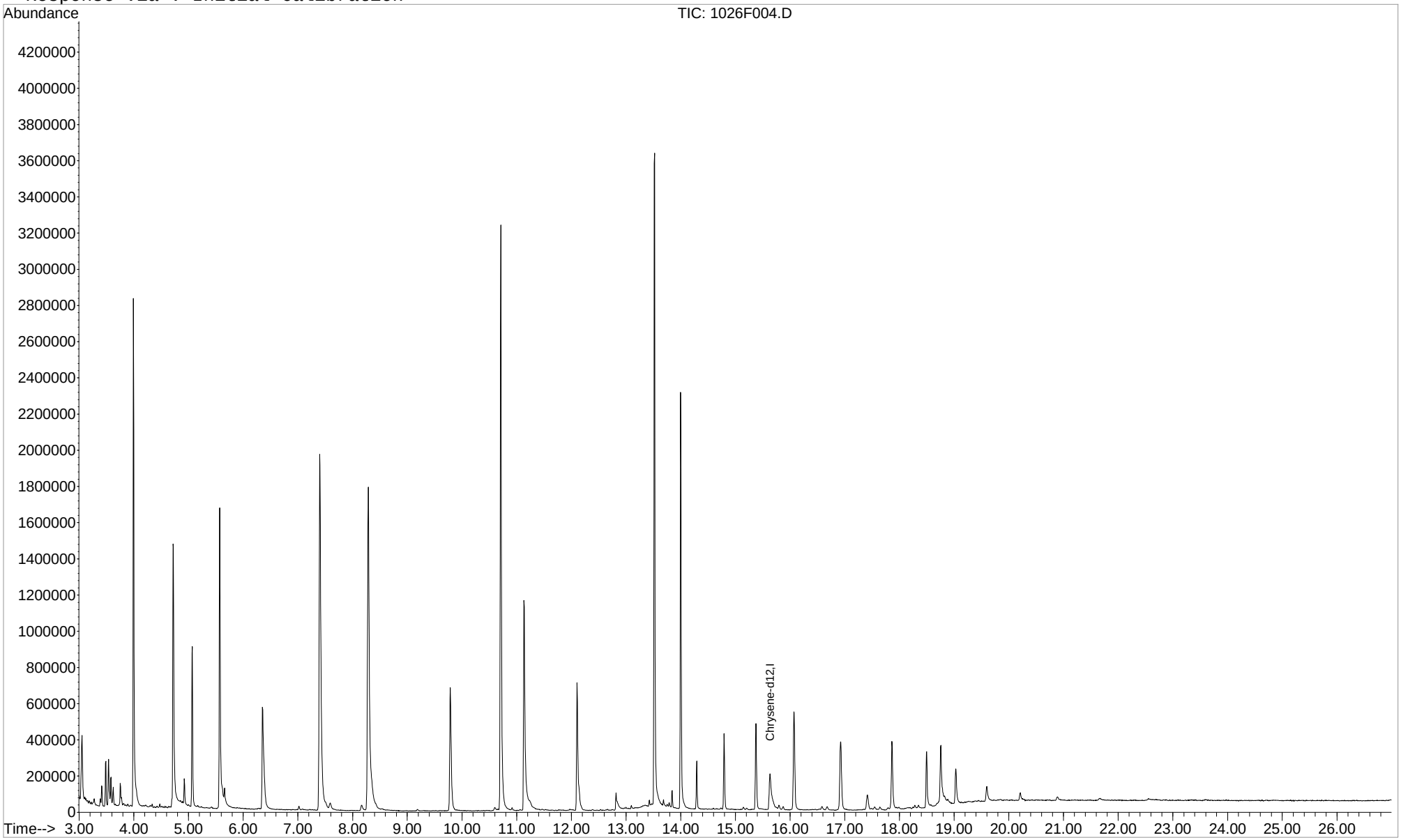
Quantitation Report (Not Reviewed)

1st 10/31/23
2nd 10/31/23

Data File : I:\MS29\DATA\102623_BENZIDINE\1026F004.D Vial: 4
Acq On : 26 Oct 2023 03:53 pm Operator: CSD
Sample : KQ2317294-01 MB Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 12:17 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 14:10:13 2023
Response via : Initial Calibration

Printed for CD by JJ



Quantitation Report (Not Reviewed)

1st CO 10/31/23
2nd 10/31/23

Data File : I:\MS29\DATA\102623_BENZIDINE\1026F004.D Vial: 4
Acq On : 26 Oct 2023 03:53 pm Operator: CSD
Sample : KQ2317294-01 MB Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 12:09:03 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 14:10:13 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_LONG_ZB5.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.63	240	225726	1000.00	ng/ml	0.00

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

1st CO 10/31/23
2nd 11/06/23

Validation Report

Data File: J:\MS29\DATA\102623\1026F007.D\
Lab ID: KQ2317294-02
RunType: LCS
Matrix: Wastewater

Date Acquired: 10/26/23 17:25:00
Batch ID: 822275
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

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Secondary Review: _____

1st CO 10/31/23
2nd 11/06/23

Quantitation Report

Data File:	J:\MS29\DATA\102623\1026F007.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 17:25:00	**Vial:**	6
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317294-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/26/23	**Receive Date:**	9/28/23

Analysis Lot:	822275	**Prep Lot:**	427467	**Report Group:**	KQ2317294
Analysis	625.1	**Prep Method:**	EPA 3510C		
		Prep Date:	10/3/23		

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300422
		Report List ID:	23062

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	9.78		316415	1000.00	OK
Chrysene-d12	15.62		319287	1000.00	OK
1,4-Dichlorobenzene-d4	5.06		166845	1000.00	OK
Naphthalene-d8	6.35		639352	1000.00	OK
Perylene-d12	18.74		279429	1000.00	OK
Phenanthrene-d10	12.10		460612	1000.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
2-Fluorobiphenyl	8.28		1671010	4162.32	83	38 - 105	Y
2-Fluorophenol	3.99		1052106	5352.74	71	17 - 101	Y
Nitrobenzene-d5	5.57		916798	4621.74	92	15 - 314	Y
Phenol-d6	4.72		962359	4234.89	56	8 - 424	Y
p-Terphenyl-d14	13.99		1254110	3776.21	76	35 - 133	Y
2,4,6-Tribromophenol	11.13		299247	6634.61	88	12 - 129	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Acenaphthene	9.84	-0.01	1333627	4167.05	16.7		Y
Acenaphthylene	9.50		2199574	4608.21	18.4		Y
Anthracene	12.20		1907064	4310.27	17.2		Y
Benz(a)anthracene	15.60		1564902	4487.63	18.0		Y
Benzo(b)fluoranthene	18.11	-0.01	1456870	4273.87	17.1		Y
Benzo(k)fluoranthene	18.16	-0.01	1529967	4690.54	18.8		Y
Benzo(g,h,i)perylene	21.04		940410	3879.18	15.5		Y
Benzo(a)pyrene	18.66		1302478	4199.79	16.8		Y
Bis(2-chloroethyl) Ether	4.82		972655	4291.82	17.2		Y

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E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st CO 10/31/23
2nd 11/06/23

Data File:	J:\MS29\DATA\102623\1026F007.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 17:25:00	**Vial:**	6
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317294-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Bis(2-ethylhexyl) Phthalate	15.64		1231304	4307.05	17.2		Y
Bis(2-chloroethoxy)methane	6.03		998097	4236.61	16.9		Y
4-Bromophenyl Phenyl Ether	11.52		375204	4078.48	16.3		Y
Butyl Benzyl Phthalate	14.66		788816	4083.55	16.3		Y
4-Chloro-3-methylphenol	7.17		661982	4100.35	16.4		Y
2-Chloronaphthalene	8.58		1325477	4059.95	16.2		Y
2-Chlorophenol	4.89	+0.01	894632	4331.36	17.3		Y
4-Chlorophenyl Phenyl Ether	10.79		674659	3946.11	15.8		Y
Chrysene	15.67		1505279	3952.84	15.8		Y
Di-n-butyl Phthalate	12.85		1934437	4047.92	16.2		Y
Di-n-octyl Phthalate	17.30		1676937	4380.38	17.5		Y
Dibenz(a,h)anthracene	20.59		1139627	4441.02	17.8		Y
3,3'-Dichlorobenzidine	15.59	-0.01	157539	2935.76	11.7		Y
2,4-Dichlorophenol	6.17		666546	4124.61	16.5		Y
Diethyl Phthalate	10.63		1479986	4737.42	18.9		Y
Dimethyl Phthalate	9.30		1529494	4575.10	18.3		Y
2,4-Dimethylphenol	5.92		446662	2614.02	10.5		Y
4,6-Dinitro-2-methylphenol	10.86		162673	4224.06	16.9		Y
2,4-Dinitrophenol	9.96		70392	3440.51	13.8		Y
2,4-Dinitrotoluene	10.20		377308	3945.85	15.8		Y
2,6-Dinitrotoluene	9.43		306679	3933.17	15.7		Y
1,2-Diphenylhydrazine	11.03		1620827	4259.91	17.0		Y
Fluoranthene	13.54		1699973	3931.17	15.7		Y
Fluorene	10.75		1520974	4311.88	17.2		Y
Hexachlorobenzene	11.55		430122	3900.17	15.6		Y
Hexachlorobutadiene	6.50		313388	3052.47	12.2		Y
Hexachlorocyclopentadiene	7.74		243383	2803.46	11.2		Y
Hexachloroethane	5.52		310225	3298.25	13.2		Y
Indeno(1,2,3-cd)pyrene	20.53	-0.01	926935	4309.88	17.2		Y
Isophorone	5.81	-0.01	1484500	4532.14	18.1		Y
Naphthalene	6.38		2417809	3796.50	15.2		Y
Nitrobenzene	5.59		916522	4431.26	17.7		Y
2-Nitrophenol	5.90		588429	4738.18	19.0		Y
4-Nitrophenol	10.13		77491	2799.81	11.2		Y
N-Nitrosodi-n-propylamine	5.40		614814	4539.70	18.2		Y
N-Nitrosodimethylamine	3.10	+0.01	399065	3741.15	15.0		Y
N-Nitrosodiphenylamine	10.98		950893	4341.45	17.4		Y
2,2'-Oxybis(1-chloropropane)	5.28		1148046	4174.35	16.7		Y
Pentachlorophenol (PCP)	11.85		213519	3943.52	15.8		Y
Phenanthrene	12.13		1971068	4001.07	16.0		Y
Phenol	4.73		706921	2833.67	11.3		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
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N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st CO 10/31/23
2nd 11/06/23

Data File:	J:\MS29\DATA\102623\1026F007.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 17:25:00	**Vial:**	6
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317294-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Pyrene	13.80		1625210	3706.49	14.8		Y
1,2,4-Trichlorobenzene	6.27		648528	3456.56	13.8		Y
2,4,6-Trichlorophenol	8.06		404252	4005.92	16.0		Y

Prep Amount:	250 mL	**Dilution:**	1
Prep Final Amount:	1.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

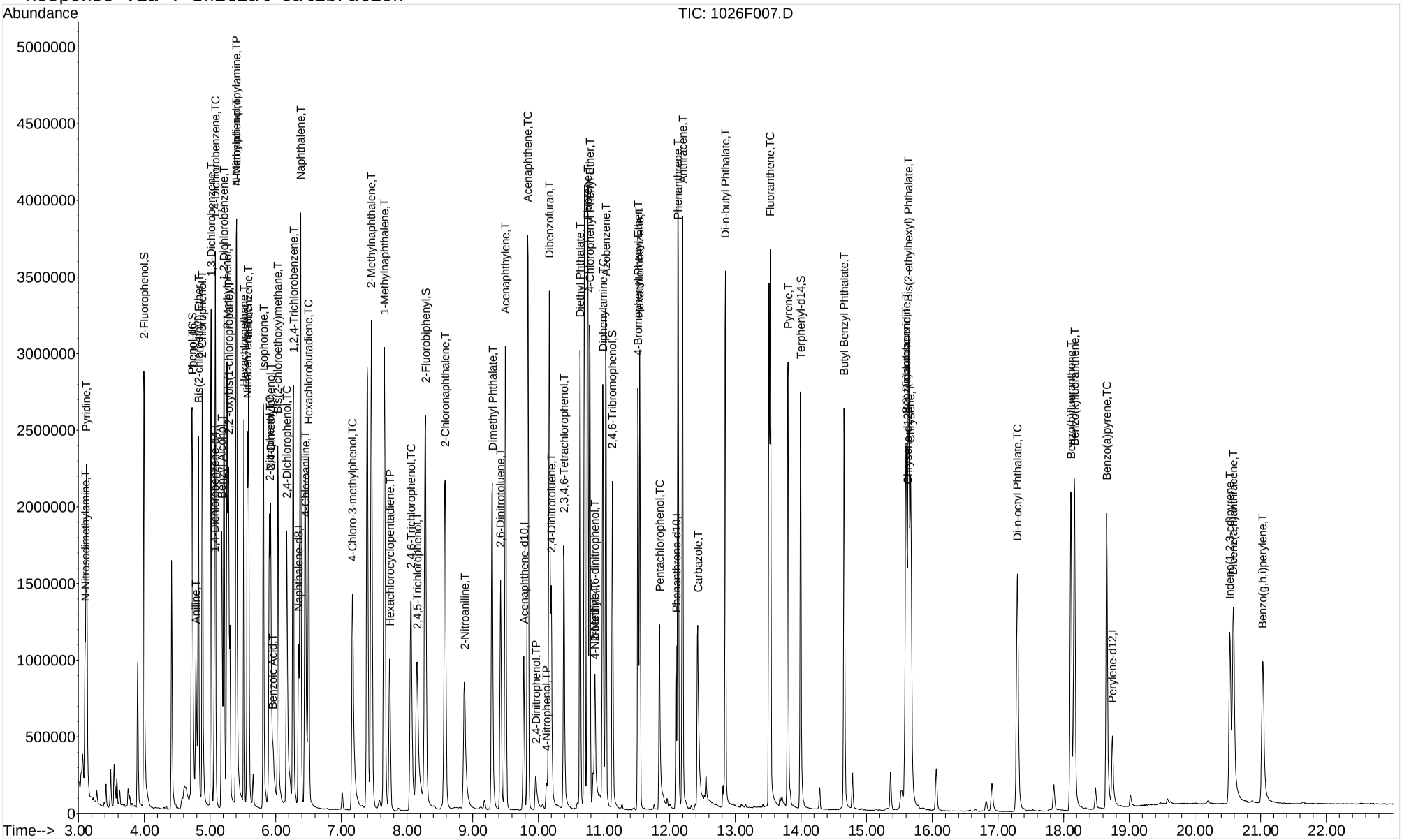
*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\102623\1026F007.D Vial: 7
Acq On : 26 Oct 2023 05:25 pm Operator: CSD
Sample : KQ2317294-02 LCS Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 10:20 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Mon Oct 30 09:53:10 2023
Response via : Initial Calibration

10/31/23 11/06/23 1st 2nd



Quantitation Report (QT Reviewed)

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F007.D Vial: 7
Acq On : 26 Oct 2023 05:25 pm Operator: CSD
Sample : KQ2317294-02 LCS Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 09:37:36 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	166845	1000.00	ng/ml	-0.01
21) Naphthalene-d8	6.35	136	639352	1000.00	ng/ml	-0.01
35) Acenaphthene-d10	9.78	164	316415	1000.00	ng/ml	-0.01
59) Phenanthrene-d10	12.10	188	460612	1000.00	ng/ml	-0.01
69) Chrysene-d12	15.62	240	319287	1000.00	ng/ml	-0.02
77) Perylene-d12	18.74	264	279429	1000.00	ng/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	3.99	112	1052106	5352.74	ng/ml	-0.01
Spiked Amount 3750.000	Range 38 - 110		Recovery = 142.74%#			
6) Phenol-d6	4.72	99	962359	4234.89	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 112.93%			
19) Nitrobenzene-d5	5.57	82	916798	4621.74	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 184.87%#			
39) 2-Fluorobiphenyl	8.28	172	1671010	4162.32	ng/ml	-0.03
Spiked Amount 2500.000	Range 37 - 126		Recovery = 166.49%#			
60) 2,4,6-Tribromophenol	11.13	330	299247	6634.61	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 176.92%#			
71) Terphenyl-d14	13.99	244	1254110	3776.21	ng/ml	-0.02
Spiked Amount 2500.000	Range 54 - 158		Recovery = 151.05%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.10	42	399065	3741.15	ng/ml	97
3) Pyridine	3.12	79	1005183	3906.51	ng/ml	100
5) Bis(2-chloroethyl) Ether	4.82	93	972655	4291.82	ng/ml	98
7) Phenol	4.73	94	706921	2833.67	ng/ml	96
8) Aniline	4.79	93	465012	1829.22	ng/ml	92
9) 2-Chlorophenol	4.89	128	894632	4331.36	ng/ml	98
10) 1,3-Dichlorobenzene	5.02	146	828338	3384.28	ng/ml	99
11) 1,4-Dichlorobenzene	5.08	146	858818	3390.45	ng/ml	100
12) 1,2-Dichlorobenzene	5.22	146	820144	3484.24	ng/ml	99
13) Benzyl Alcohol	5.18	108	463074	3378.49	ng/ml	97
14) 2,2'-oxybis(1-chloropropan	5.28	45	1148046	4174.35	ng/ml	95
15) 2-Methylphenol	5.26	107	624745	3935.54	ng/ml	98
16) Hexachloroethane	5.52	117	310225	3298.25	ng/ml	97
17) N-Nitrosodi-n-propylamine	5.40	70	614814	4539.70	ng/ml	96
18) 4-Methylphenol	5.40	107	857436	4147.40	ng/ml	100
20) Nitrobenzene	5.59	77	916522	4431.26	ng/ml	94
22) Isophorone	5.81	82	1484500	4532.14	ng/ml	97
23) 2-Nitrophenol	5.90	139	588429	4738.18	ng/ml	97
24) 2,4-Dimethylphenol	5.92	122	446662m	2614.02	ng/ml	
25) Bis(2-chloroethoxy)methane	6.03	93	998097	4236.61	ng/ml	98
26) 2,4-Dichlorophenol	6.17	162	666546	4124.61	ng/ml	98
27) Benzoic Acid	5.96	122	62223m	1477.32	ng/ml	
28) 1,2,4-Trichlorobenzene	6.27	180	648528	3456.56	ng/ml	98
29) Naphthalene	6.38	128	2417809	3796.50	ng/ml	100
30) 4-Chloroaniline	6.46	127	260005	1931.56	ng/ml	95
31) Hexachlorobutadiene	6.50	225	313388	3052.47	ng/ml	97
32) 4-Chloro-3-methylphenol	7.17	107	661982	4100.35	ng/ml	97
33) 2-Methylnaphthalene	7.46	141	1374978	3959.41	ng/ml	99
34) 1-Methylnaphthalene	7.66	141	1401765	3914.61	ng/ml	99
36) Hexachlorocyclopentadiene	7.74	237	243383	2803.46	ng/ml	100
37) 2,4,6-Trichlorophenol	8.06	196	404252	4005.92	ng/ml	97
38) 2,4,5-Trichlorophenol	8.15	196	436775	4476.34	ng/ml	98
40) 2-Chloronaphthalene	8.58	162	1325477	4059.95	ng/ml	99
41) 2-Nitroaniline	8.87	65	383741	4106.57	ng/ml	93
42) Acenaphthylene	9.50	152	2199574	4608.21	ng/ml	99
43) Dimethyl Phthalate	9.30	163	1529494	4575.10	ng/ml	99

(#) = qualifier out of range (m) = manual integration

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F007.D Vial: 7
Acq On : 26 Oct 2023 05:25 pm Operator: CSD
Sample : KQ2317294-02 LCS Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 09:37:36 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	2,6-Dinitrotoluene	9.43	165	306679	3933.17	ng/ml	88
45)	Acenaphthene	9.84	154	1333627	4167.05	ng/ml	99
47)	2,4-Dinitrophenol	9.96	184	70392	3440.51	ng/ml	90
48)	Dibenzofuran	10.17	168	1975420	4003.83	ng/ml	97
49)	4-Nitrophenol	10.13	109	77491	2799.81	ng/ml	91
50)	2,4-Dinitrotoluene	10.20	165	377308	3945.85	ng/ml	93
51)	2,3,4,6-Tetrachlorophenol	10.39	232	322639	4170.46	ng/ml	93
52)	Fluorene	10.75	166	1520974	4311.88	ng/ml	98
53)	4-Chlorophenyl Phenyl Ethe	10.79	204	674659	3946.11	ng/ml	98
54)	Diethyl Phthalate	10.63	149	1479986	4737.42	ng/ml	99
55)	4-Nitroaniline	10.85	138	121932m	2381.99	ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.86	198	162673	4224.06	ng/ml	98
57)	Diphenylamine	10.98	169	950893	4341.45	ng/ml	100
58)	Azobenzene	11.03	77	1620827	4259.91	ng/ml	95
61)	4-Bromophenyl Phenyl Ether	11.52	248	375204	4078.48	ng/ml	98
62)	Hexachlorobenzene	11.55	284	430122	3900.17	ng/ml	95
63)	Pentachlorophenol	11.85	266	213519	3943.52	ng/ml	100
64)	Phenanthrene	12.13	178	1971068	4001.07	ng/ml	99
65)	Anthracene	12.20	178	1907064	4310.27	ng/ml	99
66)	Carbazole	12.43	167	1500733m	4185.96	ng/ml	
67)	Di-n-butyl Phthalate	12.85	149	1934437	4047.92	ng/ml	99
68)	Fluoranthene	13.54	202	1699973	3931.17	ng/ml	97
70)	Pyrene	13.80	202	1625210	3706.49	ng/ml	100
72)	Butyl Benzyl Phthalate	14.66	149	788816	4083.55	ng/ml	95
73)	3,3'-Dichlorobenzidine	15.59	252	157539	2935.76	ng/ml	97
74)	Benz(a)anthracene	15.60	228	1564902	4487.63	ng/ml	99
75)	Chrysene	15.67	228	1505279	3952.84	ng/ml	99
76)	Bis(2-ethylhexyl) Phthalat	15.64	149	1231304	4307.05	ng/ml	100
78)	Di-n-octyl Phthalate	17.30	149	1676937	4380.38	ng/ml	98
79)	Benzo(b)fluoranthene	18.11	252	1456870	4273.87	ng/ml	99
80)	Benzo(k)fluoranthene	18.16	252	1529967	4690.54	ng/ml	99
81)	Benzo(a)pyrene	18.66	252	1302478	4199.79	ng/ml	100
82)	Indeno(1,2,3-cd)pyrene	20.53	276	926935	4309.88	ng/ml	99
83)	Dibenz(a,h)anthracene	20.59	278	1139627	4441.02	ng/ml	99
84)	Benzo(g,h,i)perylene	21.04	276	940410	3879.18	ng/ml	99

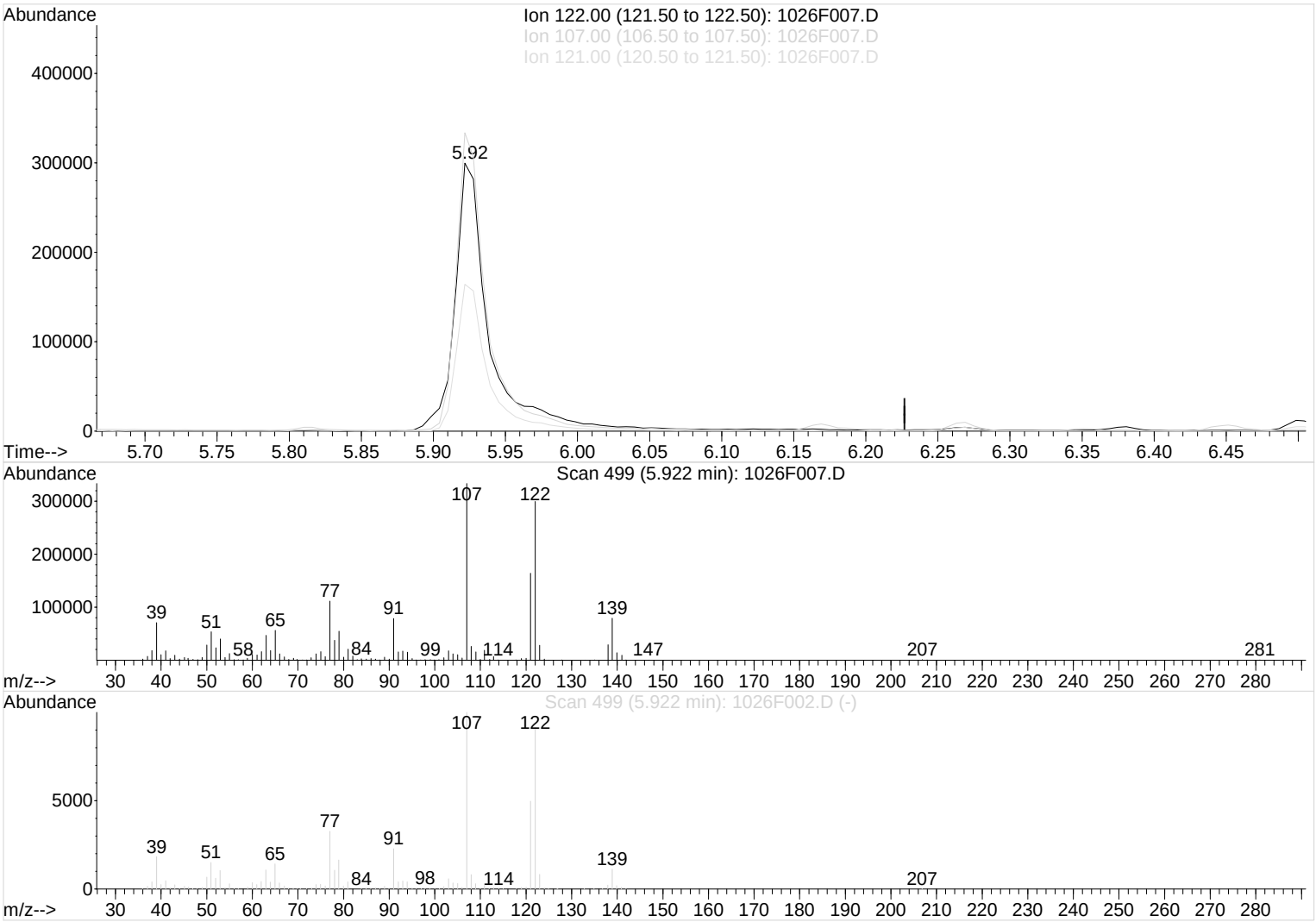
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st CD 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F007.D Vial: 7
Acq On : 26 Oct 2023 05:25 pm Operator: CSD
Sample : KQ2317294-02 LCS Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 10:18 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Multiple Level Calibration



TIC: 1026F007.D

(24) 2,4-Dimethylphenol (T)

5.92min 2970.37ng/ml

response 507552

Ion	Exp%	Act%
122.00	100	100
107.00	107.40	110.94
121.00	55.20	54.81
0.00	0.00	0.00

Manual Integration:

Before

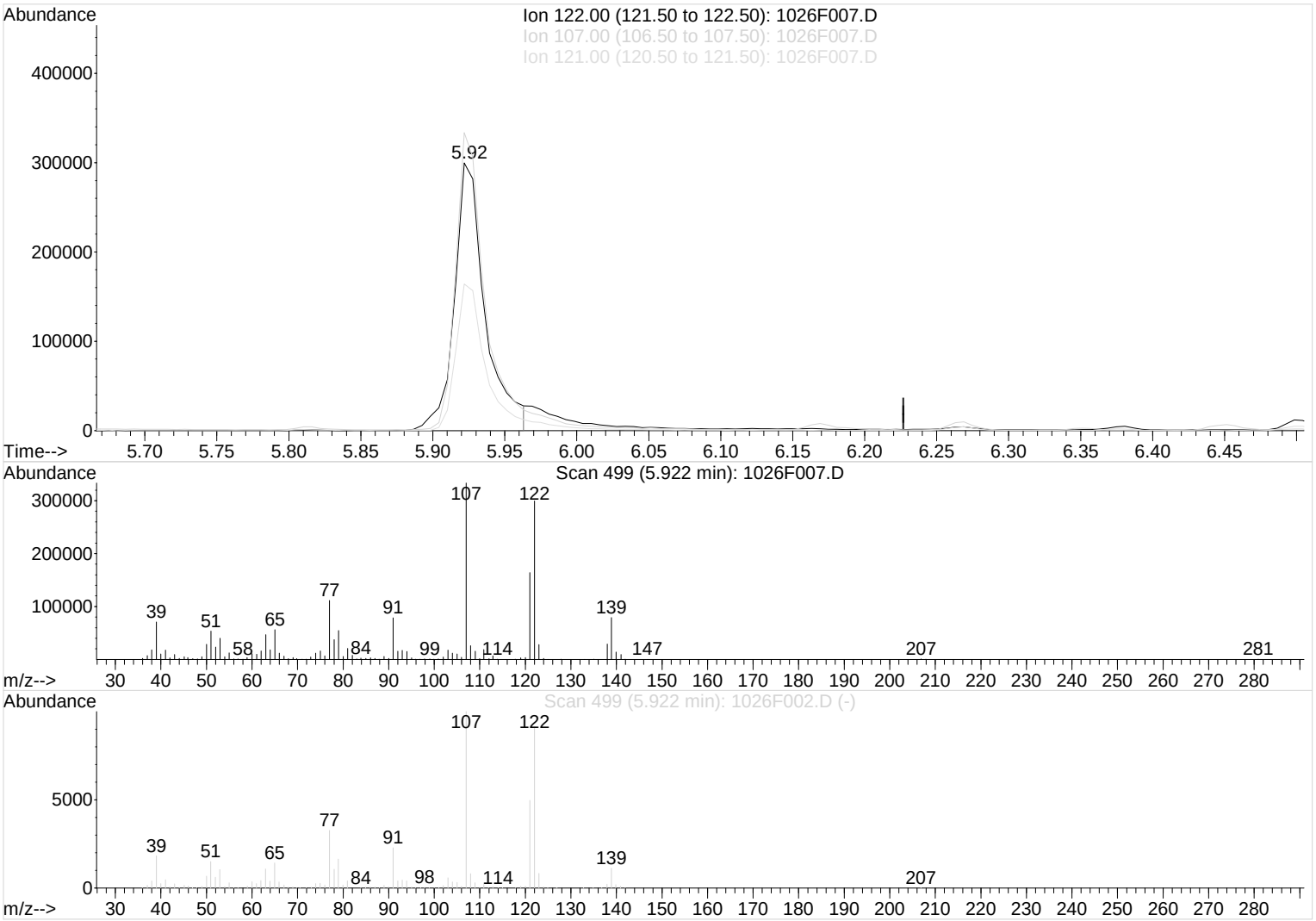
10/30/23

Quantitation Report (Qedit)

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F007.D Vial: 7
Acq On : 26 Oct 2023 05:25 pm Operator: CSD
Sample : KQ2317294-02 LCS Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 10:19 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Multiple Level Calibration



TIC: 1026F007.D

(24) 2,4-Dimethylphenol (T)

5.92min 2614.02ng/ml m

response 446662

Ion	Exp%	Act%
122.00	100	100
107.00	107.40	111.32
121.00	55.20	54.81
0.00	0.00	0.00

Manual Integration:

After

Shoulder

10/30/23

1st CO 10/31/23
2nd [signature] 10/31/23

Validation Report

Data File: J:\MS29\DATA\102623_BENZIDINE\1026F007.D\
Lab ID: KQ2317294-02
RunType: LCS
Matrix: Wastewater

Date Acquired: 10/26/23 17:25:00
Batch ID: 822396
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

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Secondary Review: _____

1st CO 10/31/23
2nd 10/31/23

Quantitation Report

Data File:	J:\MS29\DATA\102623_BENZIDINE\1026F007.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 17:25:00	**Vial:**	5
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2317294-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/26/23	**Receive Date:**	9/28/23

Analysis Lot:	822396	**Prep Lot:**	427467	**Report Group:**	KQ2317294
Analysis	625.1	**Prep Method:**	EPA 3510C		
		Prep Date:	10/3/23		

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300423
		Report List ID:	23062

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chrysene-d12	15.62	-0.01	319287	1000.00	OK

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Benzidine	0.00		0	0.00	0	U	Y

Prep Amount:	250 mL	**Dilution:**	1
Prep Final Amount:	1.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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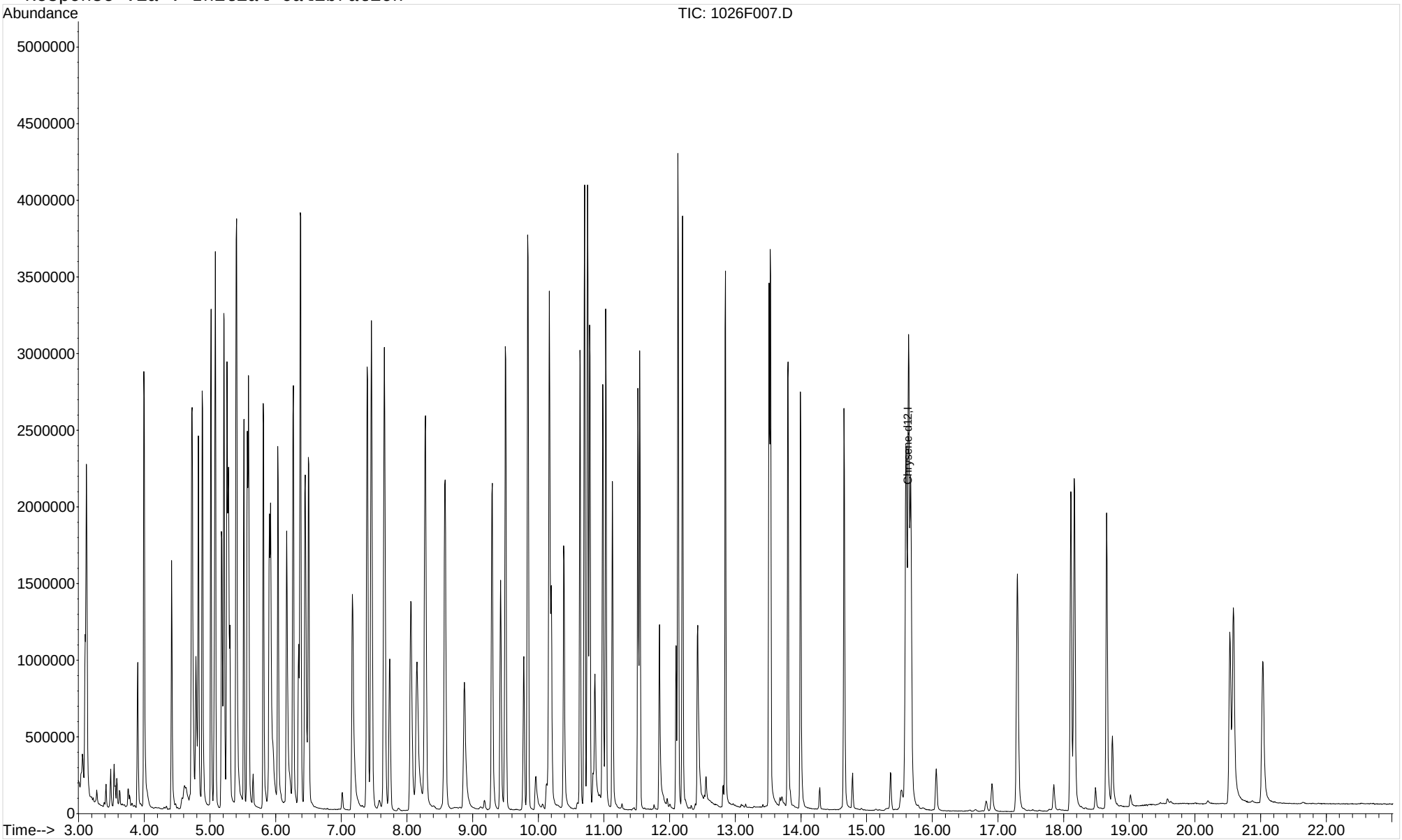
Quantitation Report (QT Reviewed)

1st CO 10/31/23
2nd 10/31/23

Data File : J:\MS29\DATA\102623_BENZIDINE\1026F007.D Vial: 7
Acq On : 26 Oct 2023 05:25 pm Operator: CSD
Sample : KQ2317294-02 LCS Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 12:18 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Oct 31 12:08:02 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st CD 10/31/23
2nd 10/31/23

Data File : J:\MS29\DATA\102623_BENZIDINE\1026F007.D Vial: 7
Acq On : 26 Oct 2023 05:25 pm Operator: CSD
Sample : KQ2317294-02 LCS Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 12:09:05 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Oct 31 12:08:02 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.62	240	319287	1000.00	ng/ml	-0.02

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

1st CO 10/31/23
2nd [signature] 11/06/23

Validation Report

Data File: J:\MS29\DATA\102623\1026F002.D\
Lab ID: KQ2319274-02
RunType: CCV
Matrix: Wastewater

Date Acquired: 10/26/23 14:15:00
Batch ID: 822275
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	

Primary Review: _____

Printed: 10/31/23 11:44
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Secondary Review: _____

1st CO 10/31/23
2nd 11/06/23

Quantitation Report

Data File:	J:\MS29\DATA\102623\1026F002.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 14:15:00	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319274-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/26/23	**Receive Date:**	9/28/23

Analysis Lot:	822275	**Prep Lot:**		**Report Group:**	KQ2319274
Analysis	625.1	**Prep Method:**			
		Prep Date:			

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300422
		Report List ID:	21033

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	9.78		356370	1000.00	OK
Chrysene-d12	15.62		363680	1000.00	OK
1,4-Dichlorobenzene-d4	5.06		186152	1000.00	OK
Naphthalene-d8	6.35		711175	1000.00	OK
Perylene-d12	18.74		342934	1000.00	OK
Phenanthrene-d10	12.10		522893	1000.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
2-Fluorobiphenyl	8.28		1545862	3418.88	Y
2-Fluorophenol	3.99		742223	3384.52	Y
Nitrobenzene-d5	5.57		796185	3597.42	Y
Phenol-d6	4.72		890268	3511.33	Y
p-Terphenyl-d14	13.99		987913	2611.57	Y
2,4,6-Tribromophenol	11.13		173949	3397.27	Y

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Acenaphthene	9.85		1224797	3397.93	Y
Acenaphthylene	9.50		2008372	3735.89	Y
Anthracene	12.20		1720636	3425.71	Y
Benz(a)anthracene	15.60		1387722	3493.77	Y
Benzo(b)fluoranthene	18.12		1314489	3192.18	Y
Benzo(k)fluoranthene	18.17		1409486	3520.97	Y
Benzo(g,h,i)perylene	21.04		908828	3054.68	Y
Benzo(a)pyrene	18.66		1190909	3164.40	Y
Bis(2-ethylhexyl) Phthalate	15.64		1099500	3410.54	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 10/31/23
2nd 11/06/23

Data File:	J:\MS29\DATA\102623\1026F002.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 14:15:00	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319274-02	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Bis(2-chloroethoxy)methane	6.03		886911	3384.46	Y
4-Bromophenyl Phenyl Ether	11.52		350428	3355.46	Y
Butyl Benzyl Phthalate	14.66		682258	3170.37	Y
4-Chloro-3-methylphenol	7.17		603646	3403.53	Y
2-Chloronaphthalene	8.58		1258402	3422.34	Y
2-Chlorophenol	4.88		787923	3419.08	Y
4-Chlorophenyl Phenyl Ether	10.79		637995	3313.28	Y
Chrysene	15.67		1340821	3091.18	Y
Di-n-butyl Phthalate	12.85		1651672	3151.25	Y
Di-n-octyl Phthalate	17.30		1578708	3522.63	Y
Dibenz(a,h)anthracene	20.59		1101273	3496.84	Y
3,3'-Dichlorobenzidine	15.60		128395	1783.23	Y
2,4-Dichlorophenol	6.17		590830	3316.24	Y
Diethyl Phthalate	10.63		1282383	3644.67	Y
Dimethyl Phthalate	9.30		1358234	3607.31	Y
2,4-Dimethylphenol	5.92		639022	3362.09	Y
4,6-Dinitro-2-methylphenol	10.86		133509	3316.29	Y
2,4-Dinitrophenol	9.96		68898	3143.52	Y
2,4-Dinitrotoluene	10.20		343815	3238.69	Y
2,6-Dinitrotoluene	9.43		277489	3227.68	Y
Fluoranthene	13.54		1485714	3026.48	Y
Fluorene	10.75		1413272	3557.35	Y
Hexachlorobenzene	11.55		396892	3170.20	Y
Hexachlorobutadiene	6.50		348112	3048.26	Y
Hexachloroethane	5.52		336741	3208.84	Y
Indeno(1,2,3-cd)pyrene	20.54		914765	3540.15	Y
Isophorone	5.82		1389186	3812.83	Y
Naphthalene	6.38		2266708	3199.79	Y
Nitrobenzene	5.59		829991	3596.69	Y
2-Nitrophenol	5.90		396086	2827.99	Y
4-Nitrophenol	10.13		113228	3471.55	Y
N-Nitrosodi-n-propylamine	5.40		545458	3609.86	Y
2,2'-Oxybis(1-chloropropane)	5.28		1034826	3372.43	Y
Pentachlorophenol (PCP)	11.85		186069	3157.79	Y
Phenanthrene	12.13		1783755	3189.57	Y
Phenol	4.73		979548	3519.24	Y
Pyrene	13.80		1383126	2769.34	Y
1,2,4-Trichlorobenzene	6.27		637362	3053.97	Y
2,4,6-Trichlorophenol	8.06		368980	3298.42	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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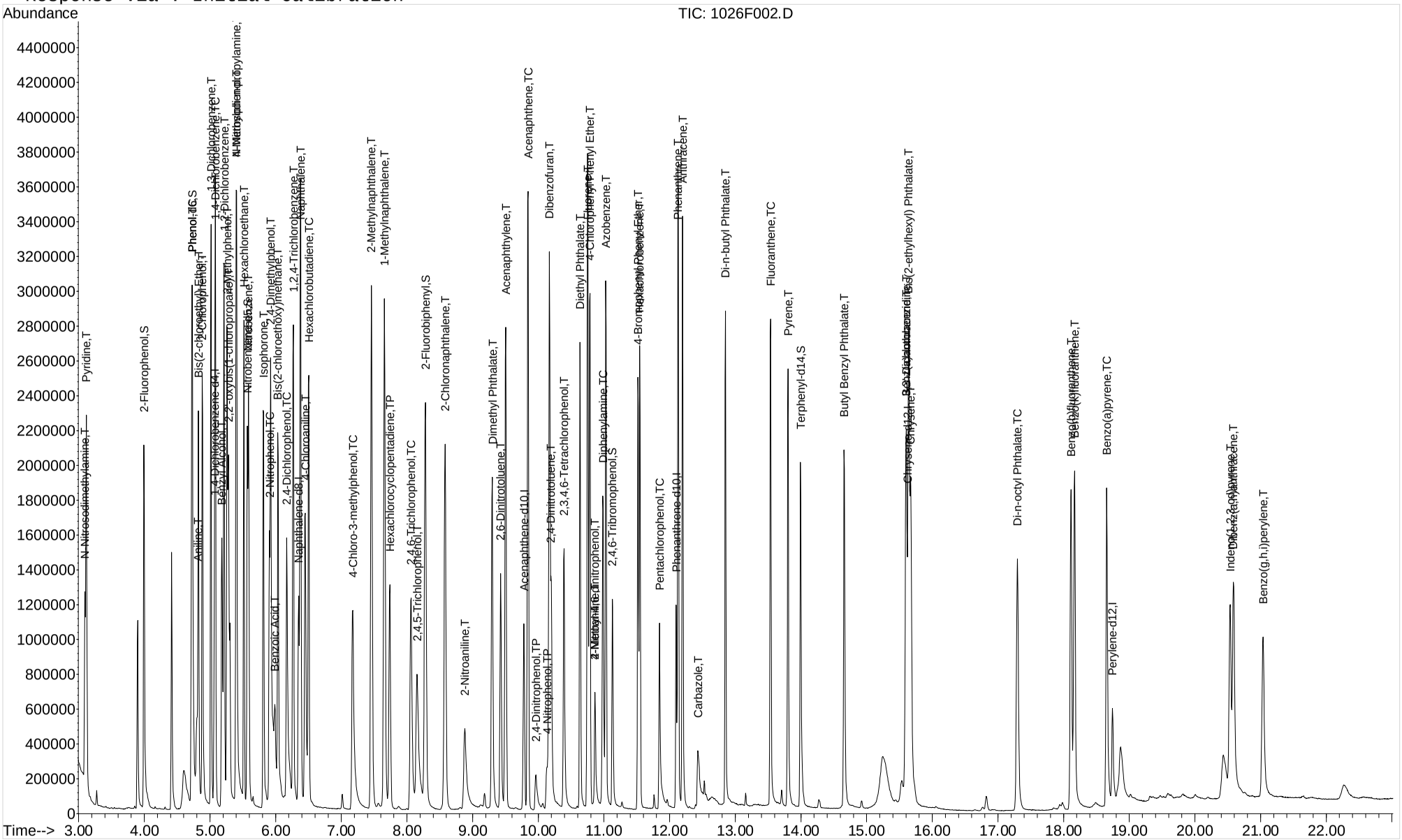
Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\102623\1026F002.D Vial: 2
Acq On : 26 Oct 2023 02:15 pm Operator: CSD
Sample : SVO LL CCV @ 3ppm SVM70-75E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 14:41 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Mon Oct 30 09:53:10 2023
Response via : Initial Calibration

10/31/23 11/06/23 1st 2nd



1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F002.D Vial: 2
Acq On : 26 Oct 2023 02:15 pm Operator: CSD
Sample : SVO LL CCV @ 3ppm SVM70-75E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 14:39:05 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	186152	1000.00	ng/ml	-0.01
21) Naphthalene-d8	6.35	136	711175	1000.00	ng/ml	-0.01
35) Acenaphthene-d10	9.78	164	356370	1000.00	ng/ml	-0.01
59) Phenanthrene-d10	12.10	188	522893	1000.00	ng/ml	-0.01
69) Chrysene-d12	15.62	240	363680	1000.00	ng/ml	-0.02
77) Perylene-d12	18.74	264	342934	1000.00	ng/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	3.99	112	742223	3384.52	ng/ml	-0.01
Spiked Amount 3750.000	Range 38 - 110		Recovery = 90.25%			
6) Phenol-d6	4.72	99	890268	3511.33	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 93.64%			
19) Nitrobenzene-d5	5.57	82	796185	3597.42	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 143.90%#			
39) 2-Fluorobiphenyl	8.28	172	1545862	3418.88	ng/ml	-0.03
Spiked Amount 2500.000	Range 37 - 126		Recovery = 136.76%#			
60) 2,4,6-Tribromophenol	11.13	330	173949	3397.27	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 90.59%			
71) Terphenyl-d14	13.99	244	987913	2611.57	ng/ml	-0.02
Spiked Amount 2500.000	Range 54 - 158		Recovery = 104.46%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.09	42	409549	3441.23	ng/ml	99
3) Pyridine	3.12	79	847256	2972.60	ng/ml	100
5) Bis(2-chloroethyl) Ether	4.82	93	834340m	3299.68	ng/ml	
7) Phenol	4.73	94	979548	3519.24	ng/ml	97
8) Aniline	4.81	93	300981m	1030.38	ng/ml	
9) 2-Chlorophenol	4.88	128	787923	3419.08	ng/ml	95
10) 1,3-Dichlorobenzene	5.02	146	835163	3058.27	ng/ml	100
11) 1,4-Dichlorobenzene	5.08	146	864212	3057.89	ng/ml	99
12) 1,2-Dichlorobenzene	5.22	146	808350	3077.96	ng/ml	99
13) Benzyl Alcohol	5.18	108	387596	2559.29	ng/ml	97
14) 2,2'-oxybis(1-chloropropan	5.28	45	1034826	3372.43	ng/ml	95
15) 2-Methylphenol	5.26	107	601836	3398.01	ng/ml	98
16) Hexachloroethane	5.52	117	336741	3208.84	ng/ml	97
17) N-Nitrosodi-n-propylamine	5.40	70	545458	3609.86	ng/ml	96
18) 4-Methylphenol	5.40	107	860342	3729.85	ng/ml	99
20) Nitrobenzene	5.59	77	829991	3596.69	ng/ml	94
22) Isophorone	5.82	82	1389186	3812.83	ng/ml	99
23) 2-Nitrophenol	5.90	139	396086	2827.99	ng/ml	93
24) 2,4-Dimethylphenol	5.92	122	639022	3362.09	ng/ml	98
25) Bis(2-chloroethoxy)methane	6.03	93	886911	3384.46	ng/ml	99
26) 2,4-Dichlorophenol	6.17	162	590830	3316.24	ng/ml	98
27) Benzoic Acid	5.99	122	193152	2842.71	ng/ml	89
28) 1,2,4-Trichlorobenzene	6.27	180	637362	3053.97	ng/ml	98
29) Naphthalene	6.38	128	2266708	3199.79	ng/ml	100
30) 4-Chloroaniline	6.45	127	34896	233.06	ng/ml#	63
31) Hexachlorobutadiene	6.50	225	348112	3048.26	ng/ml	98
32) 4-Chloro-3-methylphenol	7.17	107	603646	3403.53	ng/ml	96
33) 2-Methylnaphthalene	7.46	141	1312581	3398.00	ng/ml	99
34) 1-Methylnaphthalene	7.66	141	1314612	3300.46	ng/ml	99
36) Hexachlorocyclopentadiene	7.74	237	316591	3188.25	ng/ml	99
37) 2,4,6-Trichlorophenol	8.06	196	368980	3298.42	ng/ml	98
38) 2,4,5-Trichlorophenol	8.16	196	391802	3565.23	ng/ml	99
40) 2-Chloronaphthalene	8.58	162	1258402	3422.34	ng/ml	98
41) 2-Nitroaniline	8.88	65	278511	2680.77	ng/ml	87
42) Acenaphthylene	9.50	152	2008372	3735.89	ng/ml	100
43) Dimethyl Phthalate	9.30	163	1358234	3607.31	ng/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F002.D Vial: 2
Acq On : 26 Oct 2023 02:15 pm Operator: CSD
Sample : SVO LL CCV @ 3ppm SVM70-75E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 14:39:05 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	2,6-Dinitrotoluene	9.43	165	277489	3227.68	ng/ml	90
45)	Acenaphthene	9.85	154	1224797	3397.93	ng/ml	99
47)	2,4-Dinitrophenol	9.96	184	68898	3143.52	ng/ml	86
48)	Dibenzofuran	10.17	168	1871505	3367.93	ng/ml	97
49)	4-Nitrophenol	10.13	109	113228	3471.55	ng/ml	90
50)	2,4-Dinitrotoluene	10.20	165	343815	3238.69	ng/ml	91
51)	2,3,4,6-Tetrachlorophenol	10.39	232	287855	3367.87	ng/ml	98
52)	Fluorene	10.75	166	1413272	3557.35	ng/ml	98
53)	4-Chlorophenyl Phenyl Ethe	10.79	204	637995	3313.28	ng/ml	96
54)	Diethyl Phthalate	10.63	149	1282383	3644.67	ng/ml	99
55)	4-Nitroaniline	10.86	138	57084m	962.35	ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.86	198	133509	3316.29	ng/ml	95
57)	Diphenylamine	10.98	169	732490	2969.35	ng/ml	98
58)	Azobenzene	11.03	77	1507343	3523.41	ng/ml	93
61)	4-Bromophenyl Phenyl Ether	11.52	248	350428	3355.46	ng/ml	97
62)	Hexachlorobenzene	11.55	284	396892	3170.20	ng/ml	93
63)	Pentachlorophenol	11.85	266	186069	3157.79	ng/ml	100
64)	Phenanthrene	12.13	178	1783755	3189.57	ng/ml	100
65)	Anthracene	12.20	178	1720636	3425.71	ng/ml	99
66)	Carbazole	12.43	167	1161776m	2854.54	ng/ml	
67)	Di-n-butyl Phthalate	12.85	149	1651672	3151.25	ng/ml	100
68)	Fluoranthene	13.54	202	1485714	3026.48	ng/ml	98
70)	Pyrene	13.80	202	1383126	2769.34	ng/ml	99
72)	Butyl Benzyl Phthalate	14.66	149	682258	3170.37	ng/ml	96
73)	3,3'-Dichlorobenzidine	15.60	252	128395m	1783.23	ng/ml	
74)	Benz(a)anthracene	15.60	228	1387722	3493.77	ng/ml	99
75)	Chrysene	15.67	228	1340821	3091.18	ng/ml	99
76)	Bis(2-ethylhexyl) Phthalat	15.64	149	1099500	3410.54	ng/ml	99
78)	Di-n-octyl Phthalate	17.30	149	1578708	3522.63	ng/ml	98
79)	Benzo(b)fluoranthene	18.12	252	1314489	3192.18	ng/ml	99
80)	Benzo(k)fluoranthene	18.17	252	1409486	3520.97	ng/ml	99
81)	Benzo(a)pyrene	18.66	252	1190909	3164.40	ng/ml	99
82)	Indeno(1,2,3-cd)pyrene	20.54	276	914765	3540.15	ng/ml	97
83)	Dibenz(a,h)anthracene	20.59	278	1101273	3496.84	ng/ml	98
84)	Benzo(g,h,i)perylene	21.04	276	908828	3054.68	ng/ml	99

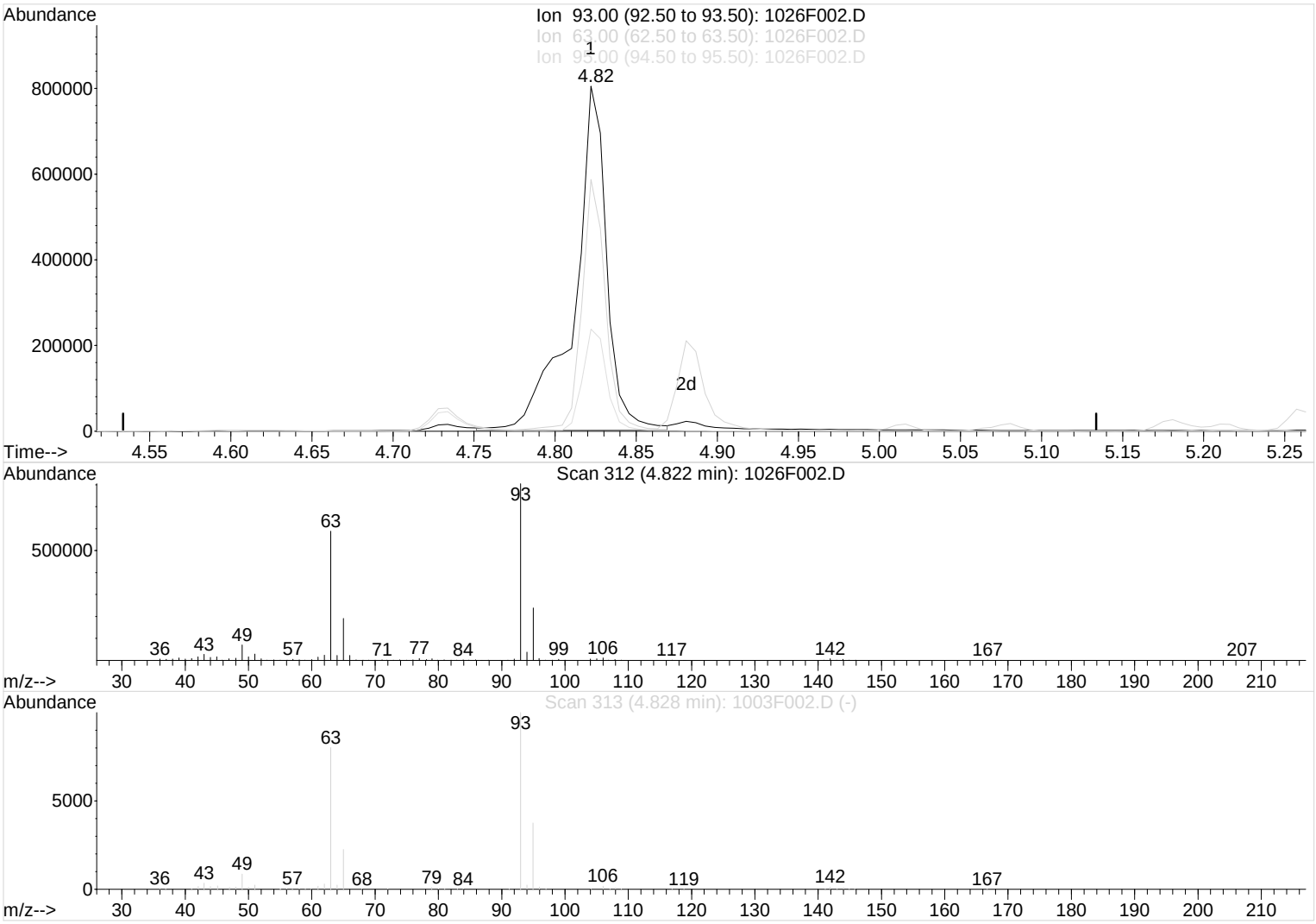
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F002.D Vial: 2
Acq On : 26 Oct 2023 02:15 pm Operator: CSD
Sample : SVO LL CCV @ 3ppm SVM70-75E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 14:39 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Multiple Level Calibration



TIC: 1026F002.D

(5) Bis(2-chloroethyl) Ether (T)

4.82min 4423.56ng/ml

response 1118519

Ion	Exp%	Act%
93.00	100	100
63.00	70.30	72.24
95.00	31.50	29.68
0.00	0.00	0.00

Manual Integration:

Before

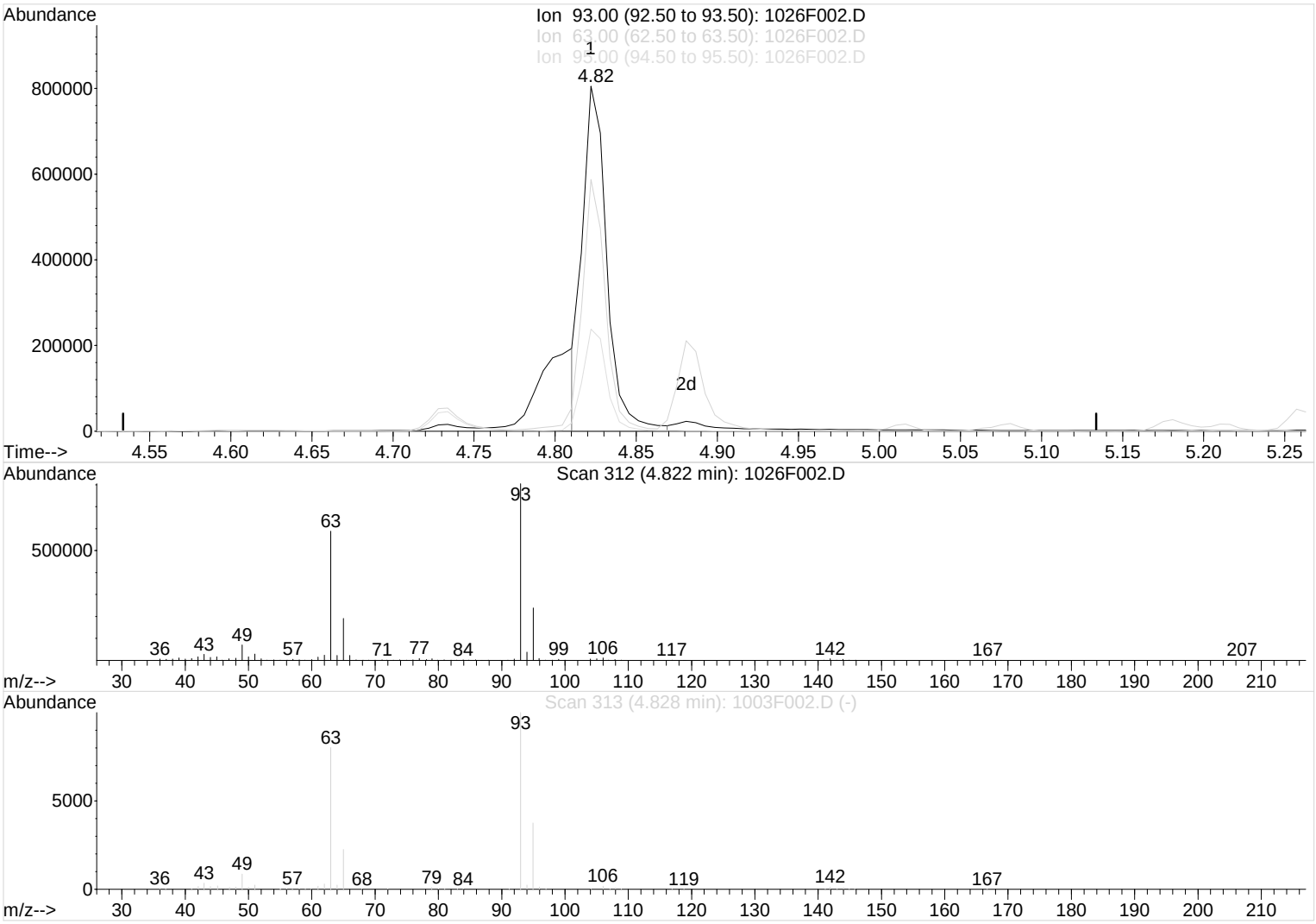
10/26/23

Quantitation Report (Qedit)

1st 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F002.D Vial: 2
Acq On : 26 Oct 2023 02:15 pm Operator: CSD
Sample : SVO LL CCV @ 3ppm SVM70-75E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 14:39 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Multiple Level Calibration



TIC: 1026F002.D

(5) Bis(2-chloroethyl) Ether (T)

4.82min 3299.68ng/ml m

response 834340

Ion	Exp%	Act%
93.00	100	100
63.00	70.30	72.99
95.00	31.50	29.60
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

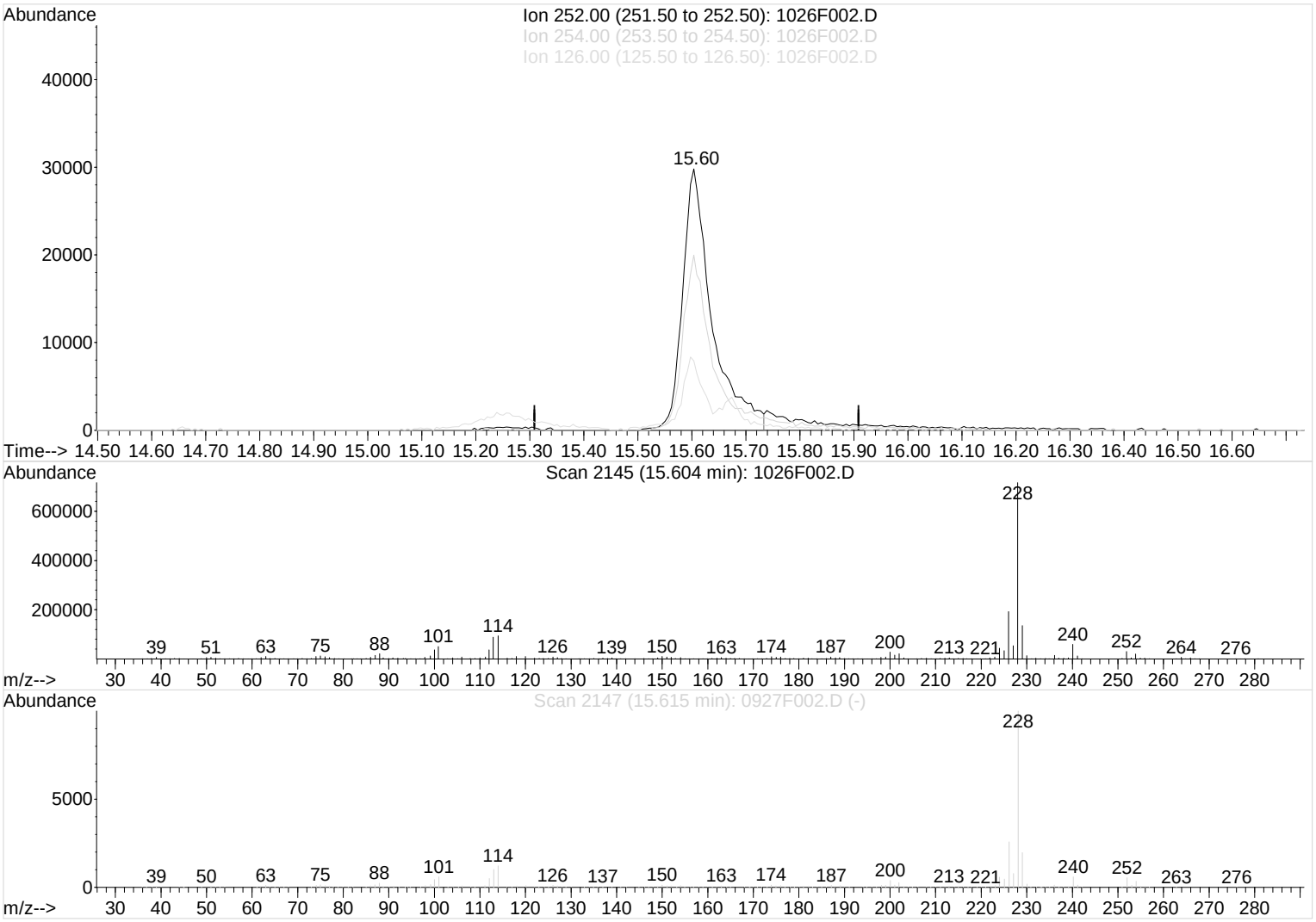
10/26/23

Quantitation Report (Qedit)

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F002.D Vial: 2
Acq On : 26 Oct 2023 02:15 pm Operator: CSD
Sample : SVO LL CCV @ 3ppm SVM70-75E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 14:40 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Multiple Level Calibration



TIC: 1026F002.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 1522.64ng/ml

response 112971

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	67.02
126.00	19.10	25.41
0.00	0.00	0.00

Manual Integration:

Before

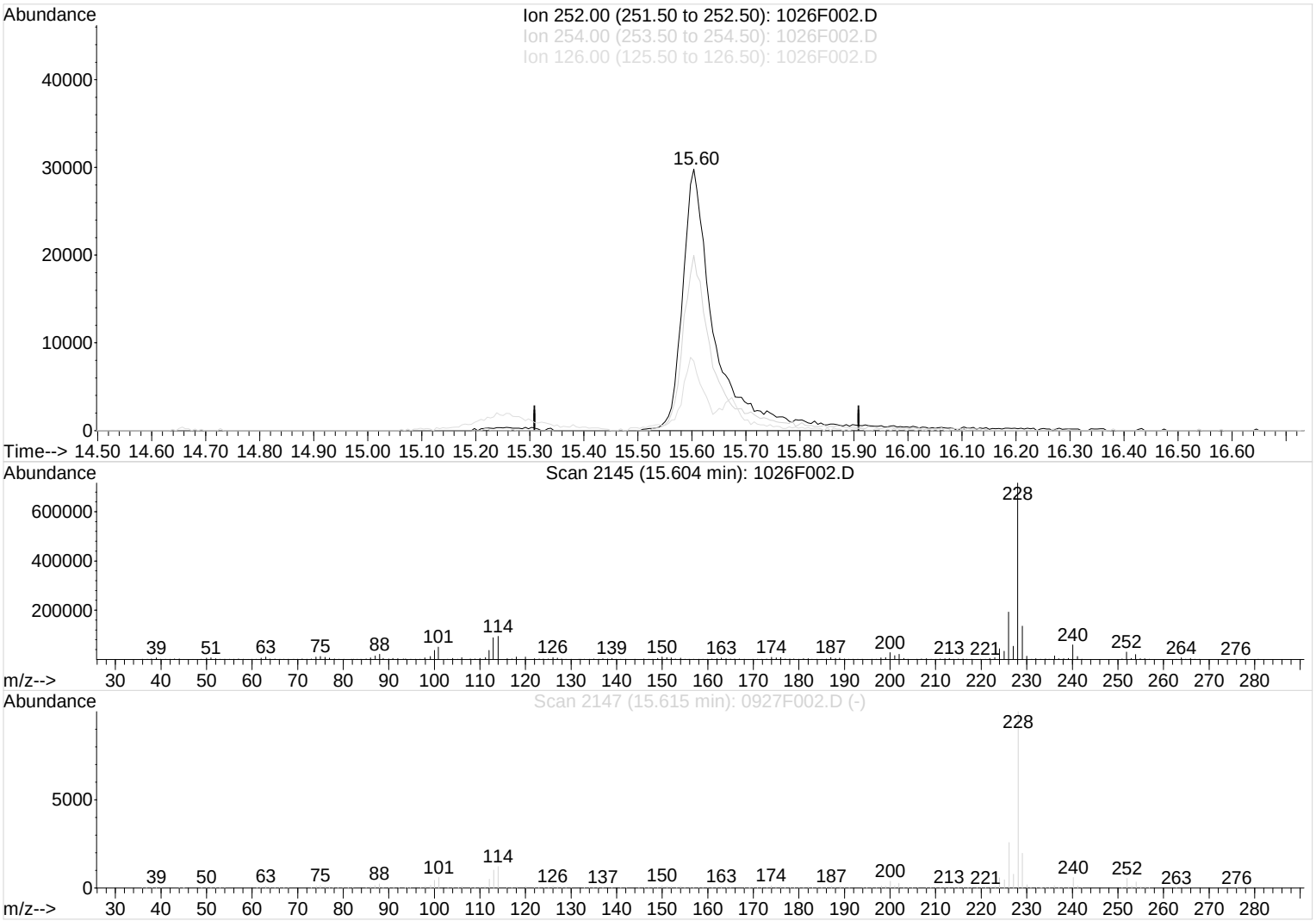
10/26/23

Quantitation Report (Qedit)

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F002.D Vial: 2
Acq On : 26 Oct 2023 02:15 pm Operator: CSD
Sample : SVO LL CCV @ 3ppm SVM70-75E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 14:41 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Multiple Level Calibration



TIC: 1026F002.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 1783.23ng/ml m

response 128395

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	67.02
126.00	19.10	26.50
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

10/26/23

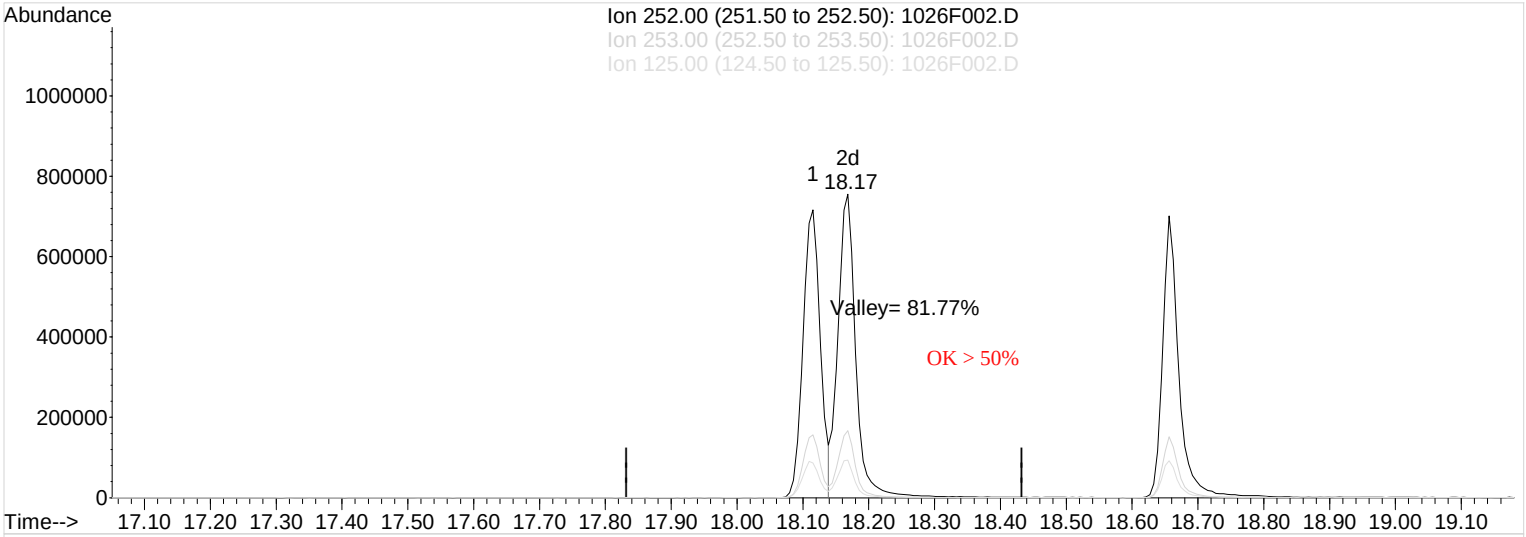
Quantitation Report (Qedit)

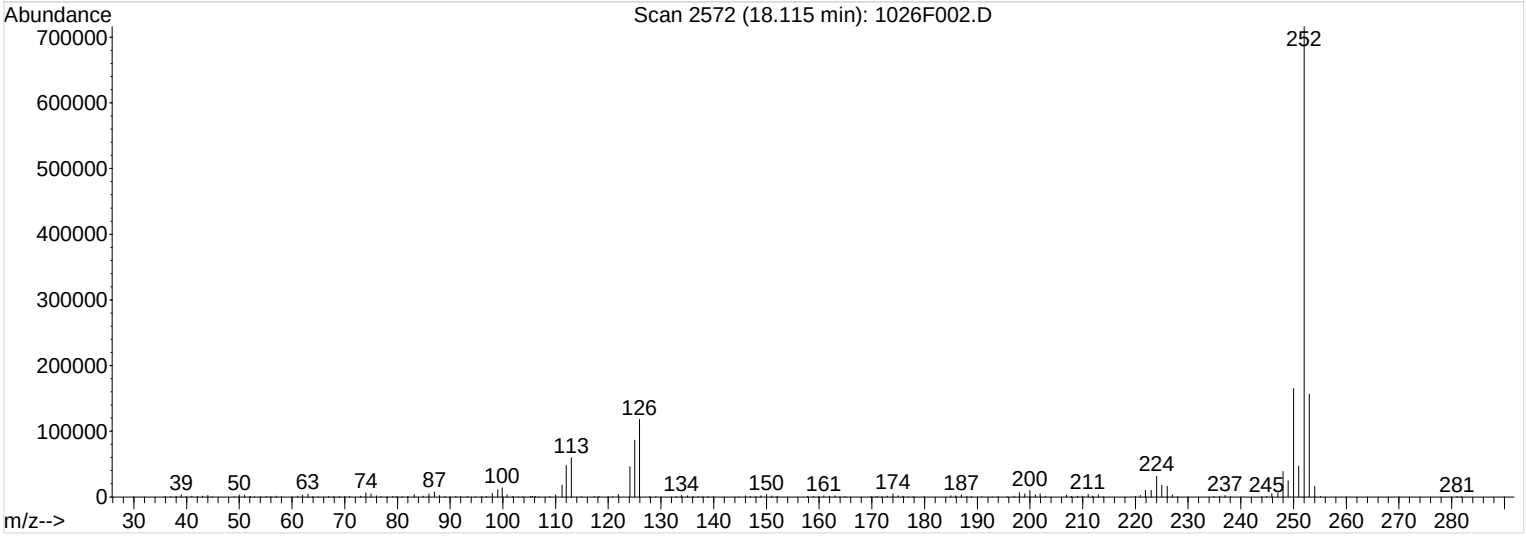
1st 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F002.D Vial: 2
Acq On : 26 Oct 2023 02:15 pm Operator: CSD
Sample : SVO LL CCV @ 3ppm SVM70-75E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 14:41 2023 Quant Results File: temp.res

Signed for CD by JJ

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Mon Oct 30 09:53:10 2023
Response via : Multiple Level Calibration





TIC: 1026F002.D

(79) Benzo(b)fluoranthene (T)

18.12min 3192.18ng/ml

response 1314489

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	21.87
125.00	12.50	12.09
0.00	0.00	0.00

1st CO 10/31/23
2nd [signature] 10/31/23

Validation Report

Data File: J:\MS29\DATA\102623_BENZIDINE\1026F003.D\
Lab ID: KQ2319306-02
RunType: CCV
Matrix: Wastewater

Date Acquired: 10/26/23 14:43:00
Batch ID: 822396
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	

Primary Review: _____

Secondary Review: _____

1st CO 10/31/23
2nd 10/31/23

Quantitation Report

Data File:	J:\MS29\DATA\102623_BENZIDINE\1026F003.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 14:43:00	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2319306-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/26/23	**Receive Date:**	9/28/23

Analysis Lot:	822396	**Prep Lot:**		**Report Group:**	KQ2319306
Analysis	625.1	**Prep Method:**			
		Prep Date:			

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300423
		Report List ID:	21033

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Chrysene-d12	15.63		277619	1000.00	OK

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Benzidine	13.74		123753	2312.08	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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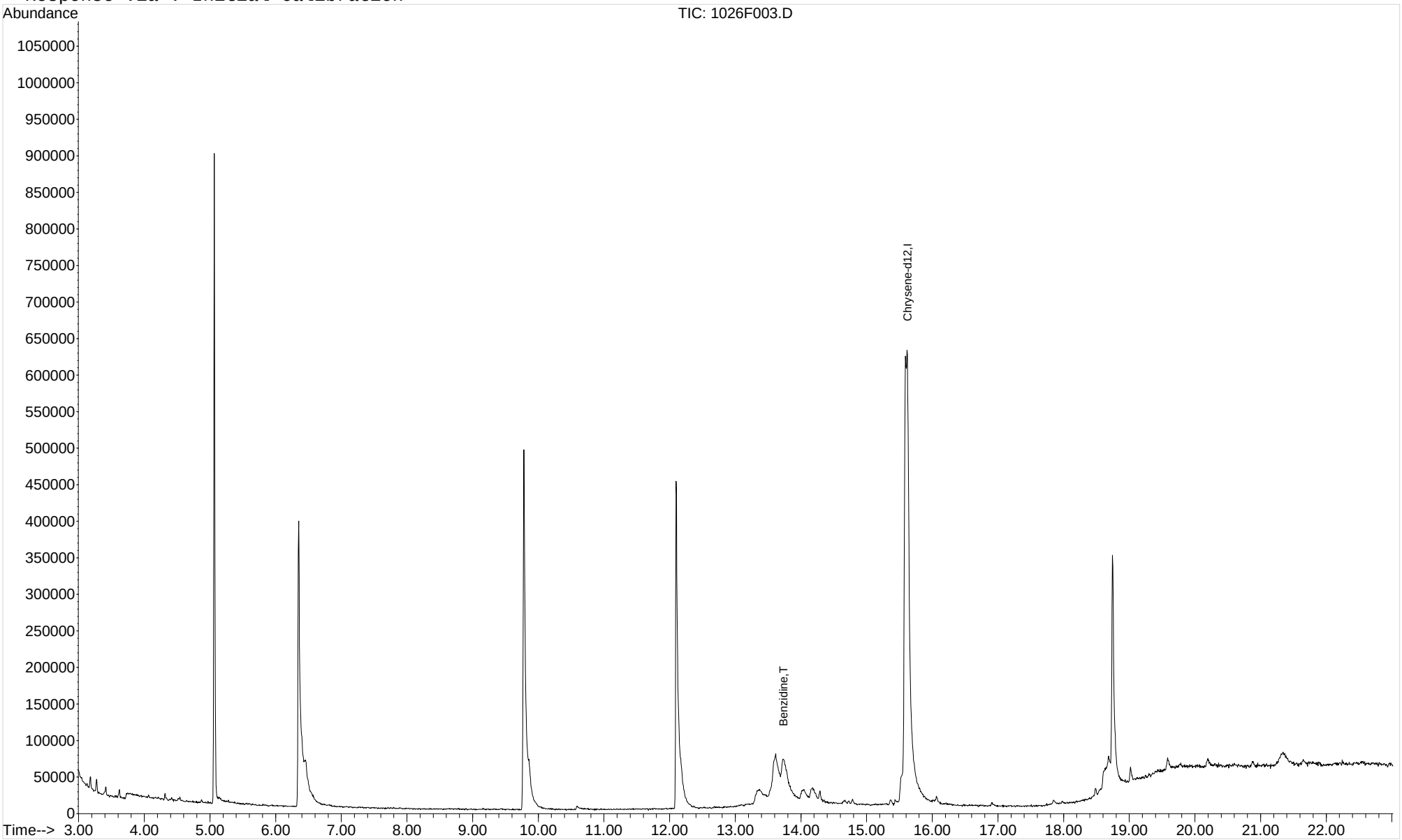
Quantitation Report (QT Reviewed)

1st CO 10/31/23
2nd 10/31/23

Data File : J:\MS29\DATA\102623_BENZIDINE\1026F003.D Vial: 3
Acq On : 26 Oct 2023 02:43 pm Operator: CSD
Sample : BENZIDINE LL CCV @ 3ppm SVM70-77M Inst : MS29
Misc : 5ppm not 3ppm Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 15:06 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 14:10:13 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 10/31/23
2nd 10/31/23

Data File : J:\MS29\DATA\102623_BENZIDINE\1026F003.D Vial: 3
Acq On : 26 Oct 2023 02:43 pm Operator: CSD
Sample : BENZIDINE LL CCV @ 3ppm SVM70-77M Inst : MS29
Misc : Multiplr: 1.00
5ppm not 3ppm
MS Integration Params: RTEINT.P
Quant Time: Oct 26 15:06:42 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 14:10:13 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.63	240	277619	1000.00	ng/ml	-0.01
Target Compounds						Qvalue
2) Benzidine	13.74	184	123753m	2312.08	ng/ml	

(#) = qualifier out of range (m) = manual integration

1st CO 10/31/23
2nd [signature] 11/06/23

Validation Report

Data File: J:\MS29\DATA\102623\1026F001.D\
Lab ID: KQ2319274-01
RunType: TUNE
Matrix: Wastewater

Date Acquired: 10/26/23 13:47:00
Batch ID: 822275
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
Tune Ion Ratio	X	

Primary Review: _____

Printed: 10/31/23 11:44
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Secondary Review: _____

1st CO 10/31/23
2nd 11/06/23

Quantitation Report

Data File:	J:\MS29\DATA\102623\1026F001.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 13:47:00	**Vial:**	1
Run Type:	TUNE	**Dilution:**	1
Lab ID:	KQ2319274-01	**Raw Units:**	

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/26/23	**Receive Date:**	9/28/23

Analysis Lot:	822275	**Prep Lot:**		**Report Group:**	KQ2319274
Analysis	625.1	**Prep Method:**			
		Prep Date:			

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300422
		Report List ID:	21033

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	41.5	1305249	Pass
68	69	0	2	1.5	21714	Pass
69	198	0	100	47.1	1479146	Pass
70	69	0	2	0.5	7164	Pass
127	198	10	80	57.6	1812299	Pass
197	198	0	2	0.6	17368	Pass
198	198	100	100	100.0	3143680	Pass
199	198	5	9	6.6	206848	Pass
275	198	10	60	21.7	681472	Pass
365	198	1	100	2.7	83800	Pass
441	442	0.01	24	15.2	265472	Pass
442	198	50	100	55.5	1745408	Pass
443	442	15	24	20.4	355264	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 10/31/23 11:44
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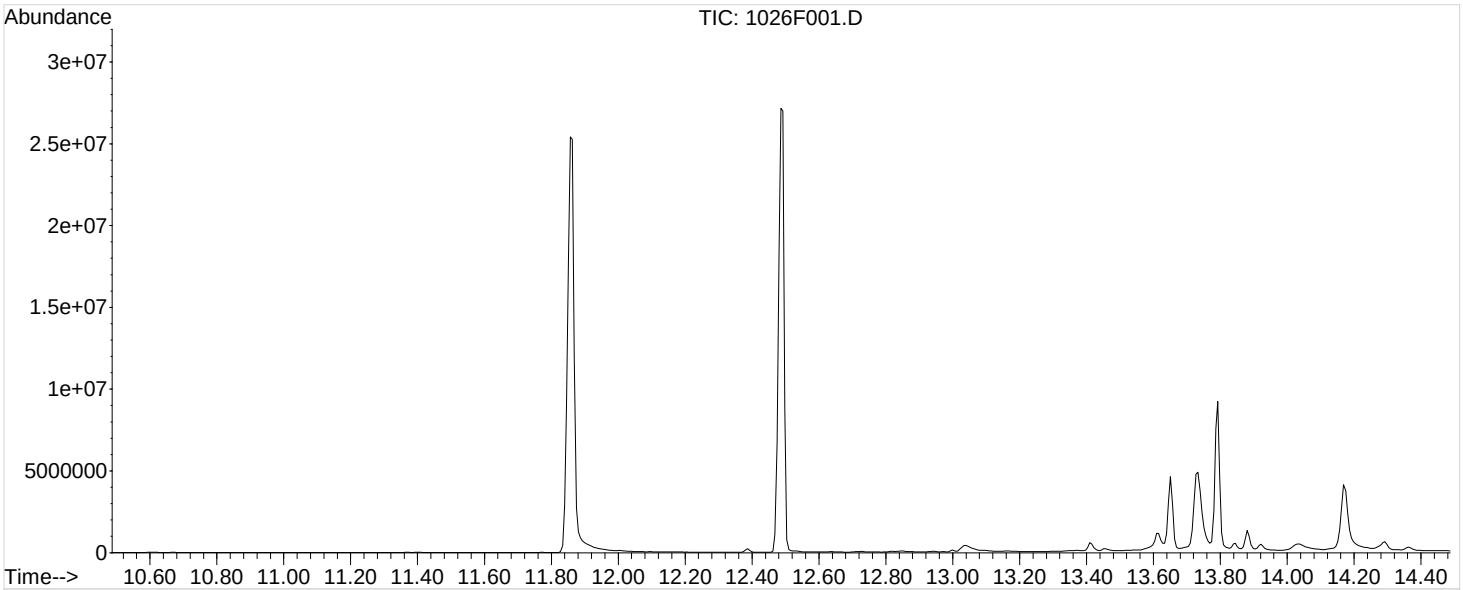
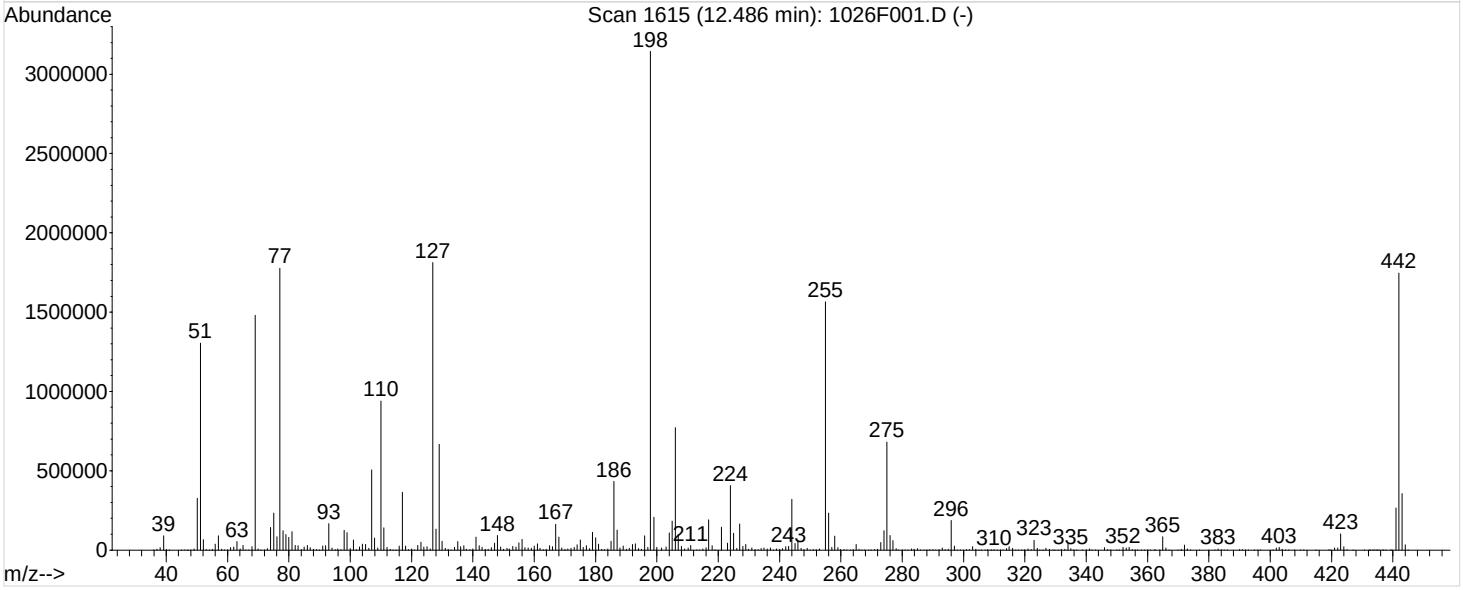
1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F001.D Vial: 1
Acq On : 26 Oct 2023 01:47 pm Operator: CSD
Sample : DFTPP SVM70-34K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL





Spectrum Information: Scan 1615

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.5	1305249	PASS
68	69	0.00	2	1.5	21714	PASS
69	198	0.00	100	47.1	1479146	PASS
70	69	0.00	2	0.5	7164	PASS
127	198	10	80	57.6	1812299	PASS
197	198	0.00	2	0.6	17368	PASS
198	198	30	100	100.0	3143680	PASS
199	198	5	9	6.6	206848	PASS
275	198	10	60	21.7	681472	PASS
365	198	1	50	2.7	83800	PASS
441	443	0.01	100	74.7	265472	PASS
442	198	30	100	55.5	1745408	PASS
443	442	15	24	20.4	355264	PASS

1st CO 10/31/23
2nd 11/06/23

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	503	50.10	326144	61.00	15776	72.00	416
36.95	4923	51.10	1305249	62.00	19232	73.00	9758
38.05	15274	52.10	66632	63.05	54202	74.00	142208
39.10	89237	53.00	2680	64.05	7333	75.00	233600
40.05	3840	54.10	218	65.05	29330	76.10	84784
41.00	2043	55.00	5521	65.95	1131	77.05	1775655
45.00	2131	56.00	36876	66.90	1005	78.10	122352
46.00	180	56.95	89799	67.95	21714	79.00	98201
46.90	44	58.00	4260	68.95	1479146	80.00	79924
48.00	803	59.00	1346	69.95	7164	81.00	115970
49.05	7558	60.00	699	70.90	1131	82.00	28872

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.95	28141	94.00	12781	104.95	36260	116.00	24384
84.10	2894	95.05	2349	106.00	11440	116.95	364110
85.00	19387	95.95	8141	106.95	506006	118.00	25544
86.00	28857	96.95	2890	107.95	76421	118.95	3487
86.95	14994	98.00	124668	109.00	12898	120.00	6427
87.95	5066	98.95	109739	110.00	938624	121.00	1900
89.00	2714	100.00	9247	110.95	140642	122.00	30272
90.00	473	101.00	63784	112.00	17744	123.00	49367
91.00	25025	102.00	3575	113.00	5234	123.95	20073
92.00	27480	103.00	20080	114.00	1105	125.00	21320
93.00	165815	104.00	37512	114.90	1417	126.10	7541

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.95	1812299	137.90	5668	149.00	19000	160.00	24688
128.00	132736	139.00	3375	150.00	5345	161.00	38608
128.95	666961	140.00	7175	151.10	10485	161.90	10619
129.95	55770	140.95	81542	151.80	6639	162.90	2717
130.95	11838	142.00	26504	153.00	24088	163.90	4278
131.95	5166	143.00	18296	154.00	18328	164.95	26719
132.85	1457	144.00	5335	155.00	44784	165.95	22270
134.00	17496	145.00	4735	156.00	68144	166.95	161730
135.00	52728	146.00	14258	157.00	14284	168.00	81484
136.00	20392	147.00	42528	158.00	13740	169.00	12861
137.00	27072	148.00	92488	159.00	11384	170.00	5444

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.90	6497	182.00	5732	193.00	40056	205.00	181824
172.00	12090	182.90	3176	194.00	9729	206.00	771328
173.00	17984	184.00	7816	195.00	4724	207.00	98567
174.00	32664	185.00	56264	196.00	89608	208.00	23888
175.00	62800	186.00	433280	197.00	17368	209.00	7269
176.00	17504	187.00	125944	197.90	3143680	210.20	12506
177.00	26368	188.00	13025	199.00	206848	211.00	29120
178.00	9511	189.00	25104	200.00	17712	213.00	1790
179.00	111328	190.00	4294	201.50	13338	213.90	881
180.00	77480	191.00	11558	202.95	18780	215.00	7513
181.00	37632	192.00	35784	204.00	107552	216.00	16033

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
216.90	191360	229.95	4877	241.00	9326	251.90	2969
218.00	26440	231.00	13876	242.00	21856	253.00	6373
218.90	2365	231.95	2252	243.00	22424	255.00	1564160
221.00	145152	233.00	3187	244.00	320320	256.00	233728
223.00	44048	234.00	9808	245.00	41216	257.00	18232
224.00	406592	234.90	12833	246.00	60368	258.00	87824
225.00	106640	236.00	8055	247.00	11814	259.00	14929
226.00	11552	237.00	12730	248.00	3026	259.90	2804
227.00	164608	238.00	2040	249.00	10255	261.00	2692
228.00	23872	239.00	6629	249.90	2060	261.90	392
229.00	35968	240.00	4998	251.00	2508	263.10	953

Scan 1615 (12.486 min): 1026F001.D

1st CO 10/31/23
2nd 11/06/23

DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
264.00	2818	275.00	681472	285.90	2062	297.00	25896
265.00	35384	276.00	91752	287.10	323	297.90	1621
265.95	4533	277.00	59304	288.00	756	299.00	524
266.90	583	278.00	9972	289.00	2403	301.00	2209
267.80	517	278.90	1888	290.00	2280	301.90	3421
269.00	394	280.00	327	291.00	1326	303.00	21328
269.85	1672	280.90	457	292.00	2567	304.00	5876
271.00	2768	281.90	1421	293.00	12626	305.00	998
272.00	4745	283.00	6801	294.00	3253	305.90	316
273.00	47664	283.90	4360	295.00	4261	307.00	210
274.00	123144	285.00	9649	296.00	186176	307.90	2580

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
309.00	2180	319.90	762	330.80	223	343.00	267
309.90	2845	321.00	6831	331.90	4749	345.90	14216
311.00	684	322.00	3493	333.00	5908	347.00	2430
312.00	515	323.00	60760	334.00	38816	348.00	444
312.90	1456	324.00	10545	335.00	10070	350.00	514
314.00	9606	324.90	1229	335.90	1384	350.90	998
314.90	21824	325.90	1235	336.90	209	352.00	17744
316.00	11977	326.90	11468	338.80	921	353.00	12963
317.00	1940	328.00	5519	340.10	680	354.00	18112
318.00	238	329.10	842	341.00	6676	355.00	3288
319.00	351	329.80	289	341.90	1724	356.00	304

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
356.80	365	369.90	1617	390.00	3656	405.00	844
358.00	366	371.00	4532	390.90	2804	406.10	167
359.00	1207	372.00	31392	392.00	1972	407.90	168
360.00	525	373.00	8164	392.90	399	409.90	413
360.90	474	374.00	1018	394.90	397	411.00	159
362.20	174	376.90	767	395.90	253	414.90	792
362.60	177	381.90	153	396.90	414	419.10	300
364.00	722	383.00	7865	400.90	1942	419.50	278
364.90	83800	384.00	2340	402.00	12486	421.00	13641
366.00	12681	385.00	684	402.90	17248	422.00	13415
367.00	920	386.00	171	403.90	6122	423.00	102840

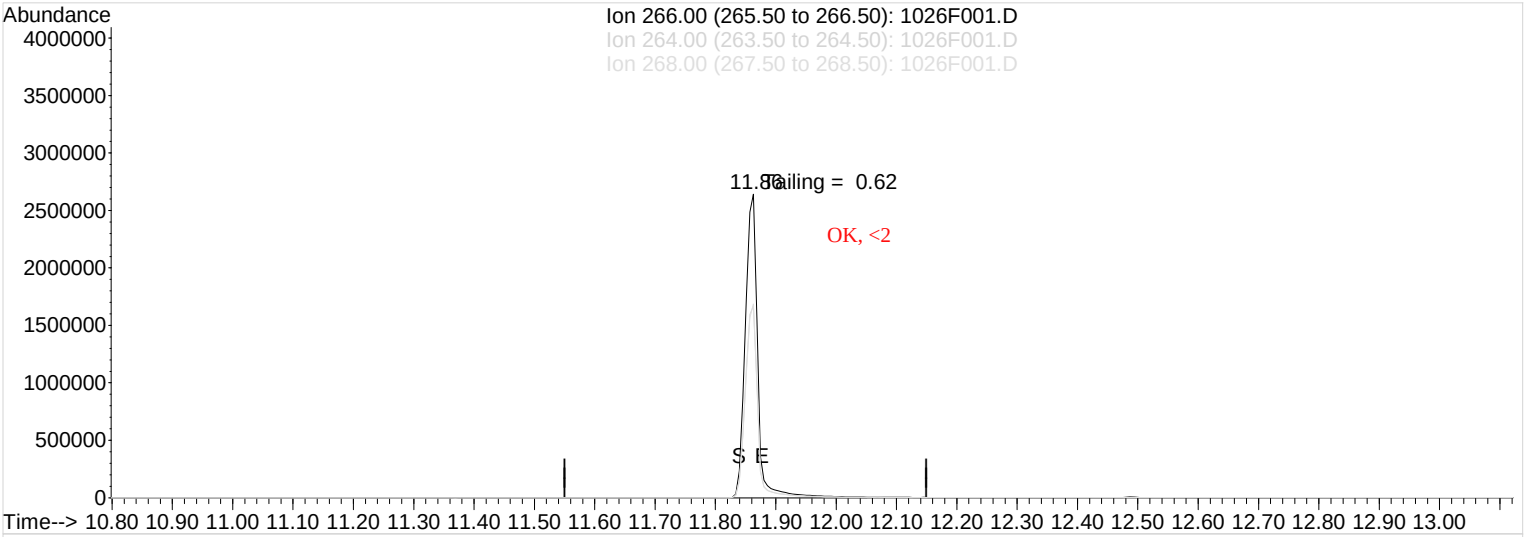
Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

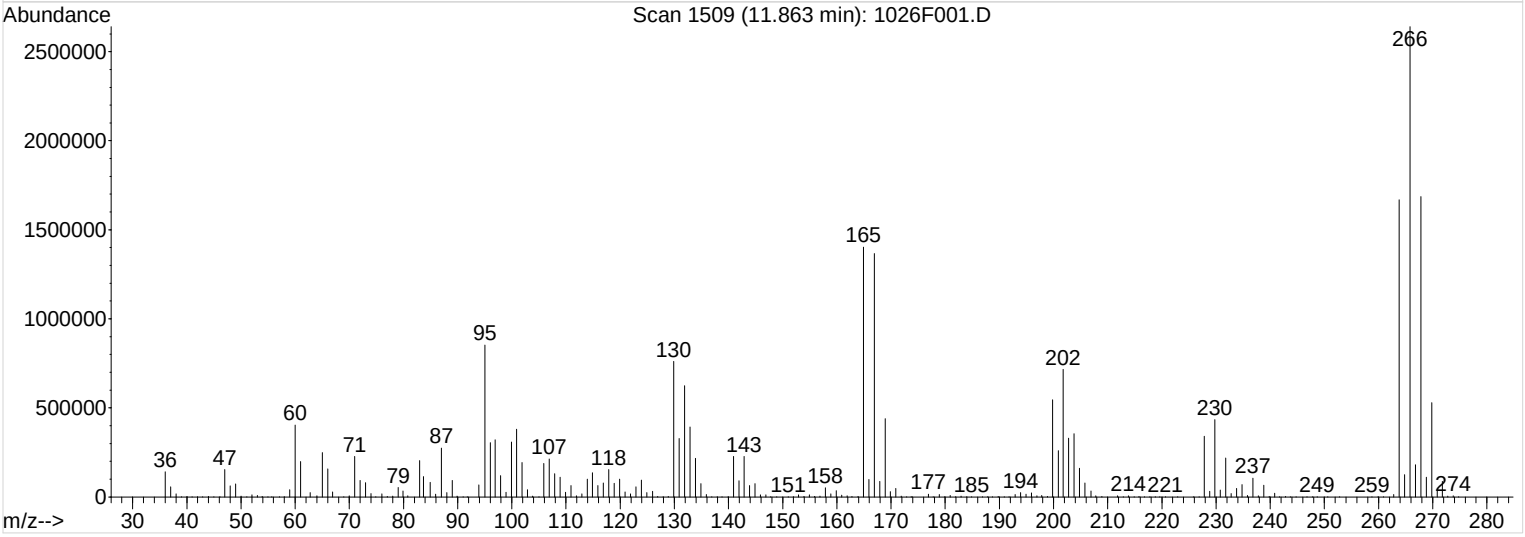
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.00	21384	436.70	701				
425.00	2299	437.10	726				
427.00	152	437.80	1121				
430.80	219	439.20	1577				
432.30	166	439.70	1589				
432.80	270	441.00	265472				
433.50	339	442.00	1745408				
433.90	232	443.00	355264				
434.50	308	444.00	33960				
435.00	273	445.00	1684				
435.50	418						

1st CO 10/31/23
2nd 11/06/23

Data File : J:\MS29\DATA\102623\1026F001.D Vial: 1
Acq On : 26 Oct 2023 01:47 pm Operator: CSD
Sample : DFTPP SVM70-34K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 14:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 13:09:25 2023
Response via : Multiple Level Calibration





TIC: 1026F001.D

(63) Pentachlorophenol (TC)

11.86min 559926.54ng/ml

response 3840029

Ion	Exp%	Act%
266.00	100	100
264.00	62.90	63.17
268.00	62.70	63.83
0.00	0.00	0.00

1st CO 10/31/23
2nd 10/31/23

Validation Report

Data File: J:\MS29\DATA\102623_BENZIDINE\1026F001.D\
Lab ID: KQ2319306-01
RunType: TUNE
Matrix: Wastewater

Date Acquired: 10/26/23 13:47:00
Batch ID: 822396
Analysis Method: 625.1/SVO LL

Validations

Validation Categories	Pass	Fail
Tune Ion Ratio	X	

Primary Review: _____

Printed: 10/31/23 12:28
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st CO 10/31/23
2nd 10/31/23

Quantitation Report

Data File:	J:\MS29\DATA\102623_BENZIDINE\1026F001.D\	**Instrument:**	K-MS-29
Acqu Date:	10/26/23 13:47:00	**Vial:**	1
Run Type:	TUNE	**Dilution:**	1
Lab ID:	KQ2319306-01	**Raw Units:**	

Bottle ID:		**Tier:**	II	**Matrix:**	Wastewater
Prod Code:	SVO LL	**Collect Date:**	9/26/23	**Receive Date:**	9/28/23

Analysis Lot:	822396	**Prep Lot:**		**Report Group:**	KQ2319306
Analysis	625.1	**Prep Method:**			
		Prep Date:			

Title:	Semivolatile Organic Compounds by GC/MS	**Calibration ID:**	KC2300423
		Report List ID:	21033

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	41.5	1305249	Pass
68	69	0	2	1.5	21714	Pass
69	198	0	100	47.1	1479146	Pass
70	69	0	2	0.5	7164	Pass
127	198	10	80	57.6	1812299	Pass
197	198	0	2	0.6	17368	Pass
198	198	100	100	100.0	3143680	Pass
199	198	5	9	6.6	206848	Pass
275	198	10	60	21.7	681472	Pass
365	198	1	100	2.7	83800	Pass
441	442	0.01	24	15.2	265472	Pass
442	198	50	100	55.5	1745408	Pass
443	442	15	24	20.4	355264	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

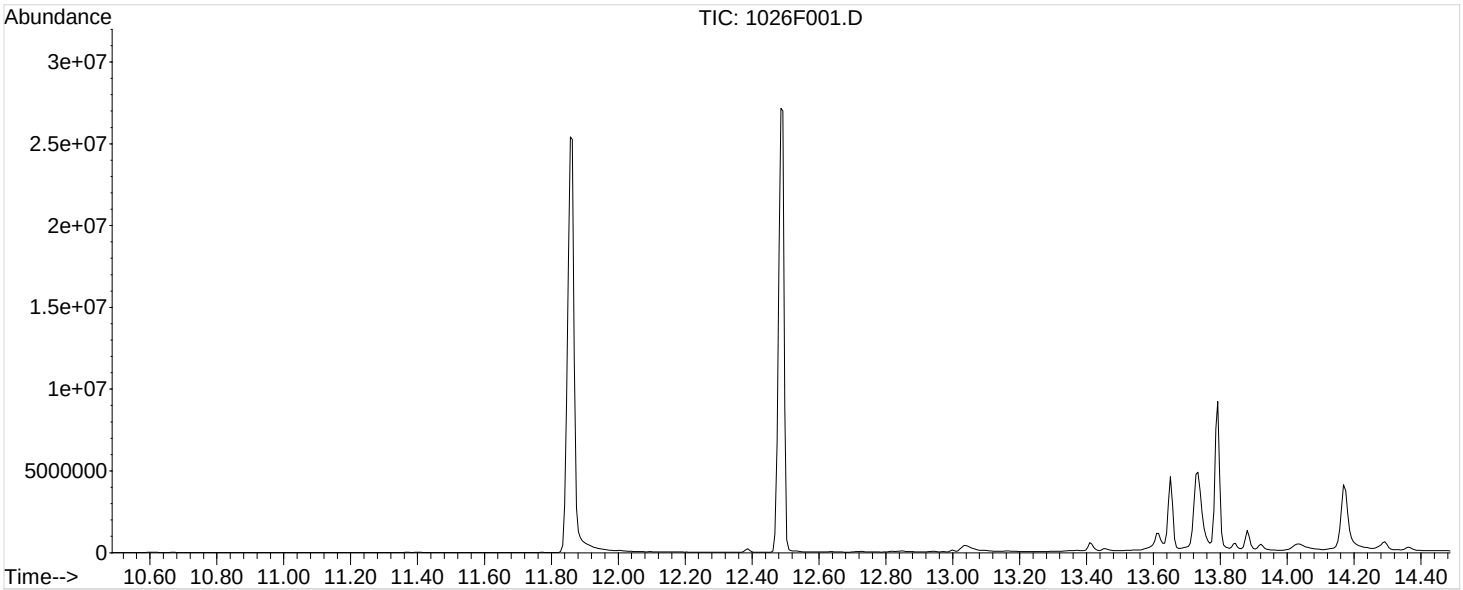
D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

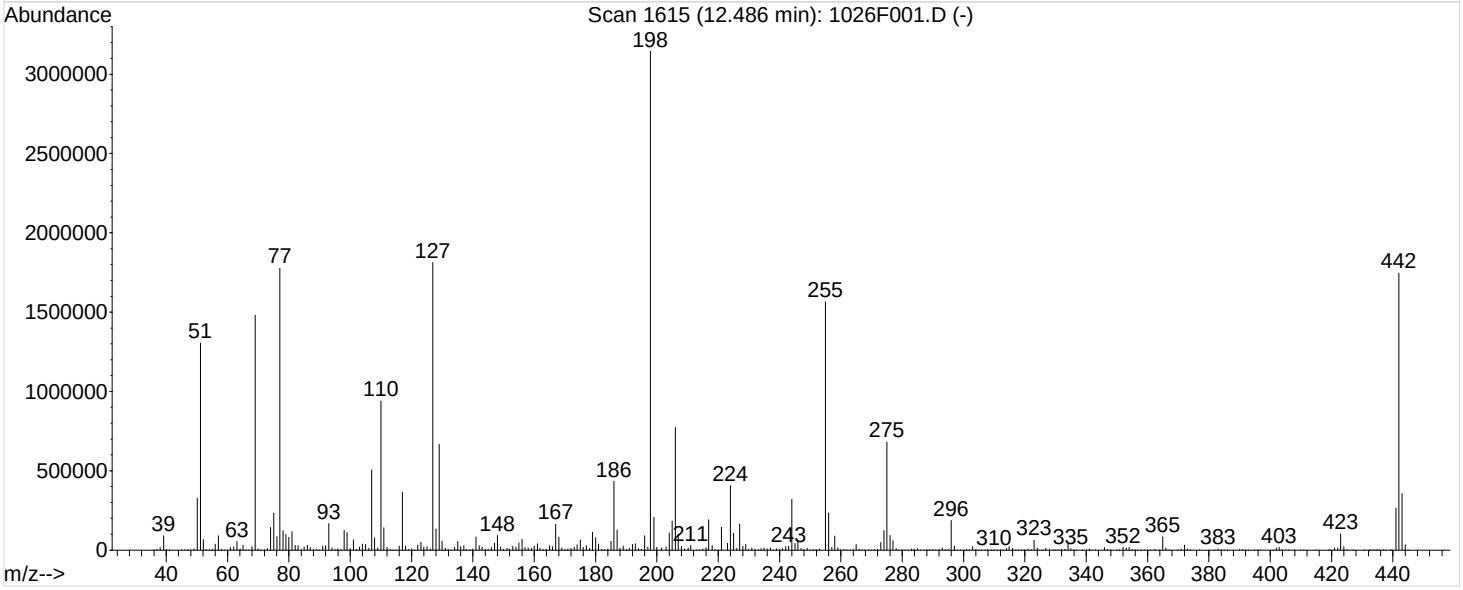
*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 10/31/23 12:28
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st CO 10/31/23
2nd 10/31/23

Data File : J:\MS29\DATA\102623_BENZIDINE\1026F001.D Vial: 1
Acq On : 26 Oct 2023 01:47 pm Operator: CSD
Sample : DFTPP SVM70-34K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL





Spectrum Information: Scan 1615

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.5	1305249	PASS
68	69	0.00	2	1.5	21714	PASS
69	198	0.00	100	47.1	1479146	PASS
70	69	0.00	2	0.5	7164	PASS
127	198	10	80	57.6	1812299	PASS
197	198	0.00	2	0.6	17368	PASS
198	198	30	100	100.0	3143680	PASS
199	198	5	9	6.6	206848	PASS
275	198	10	60	21.7	681472	PASS
365	198	1	50	2.7	83800	PASS
441	443	0.01	100	74.7	265472	PASS
442	198	30	100	55.5	1745408	PASS
443	442	15	24	20.4	355264	PASS

1st CO 10/31/23
2nd 10/31/23

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	503	50.10	326144	61.00	15776	72.00	416
36.95	4923	51.10	1305249	62.00	19232	73.00	9758
38.05	15274	52.10	66632	63.05	54202	74.00	142208
39.10	89237	53.00	2680	64.05	7333	75.00	233600
40.05	3840	54.10	218	65.05	29330	76.10	84784
41.00	2043	55.00	5521	65.95	1131	77.05	1775655
45.00	2131	56.00	36876	66.90	1005	78.10	122352
46.00	180	56.95	89799	67.95	21714	79.00	98201
46.90	44	58.00	4260	68.95	1479146	80.00	79924
48.00	803	59.00	1346	69.95	7164	81.00	115970
49.05	7558	60.00	699	70.90	1131	82.00	28872

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.95	28141	94.00	12781	104.95	36260	116.00	24384
84.10	2894	95.05	2349	106.00	11440	116.95	364110
85.00	19387	95.95	8141	106.95	506006	118.00	25544
86.00	28857	96.95	2890	107.95	76421	118.95	3487
86.95	14994	98.00	124668	109.00	12898	120.00	6427
87.95	5066	98.95	109739	110.00	938624	121.00	1900
89.00	2714	100.00	9247	110.95	140642	122.00	30272
90.00	473	101.00	63784	112.00	17744	123.00	49367
91.00	25025	102.00	3575	113.00	5234	123.95	20073
92.00	27480	103.00	20080	114.00	1105	125.00	21320
93.00	165815	104.00	37512	114.90	1417	126.10	7541

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.95	1812299	137.90	5668	149.00	19000	160.00	24688
128.00	132736	139.00	3375	150.00	5345	161.00	38608
128.95	666961	140.00	7175	151.10	10485	161.90	10619
129.95	55770	140.95	81542	151.80	6639	162.90	2717
130.95	11838	142.00	26504	153.00	24088	163.90	4278
131.95	5166	143.00	18296	154.00	18328	164.95	26719
132.85	1457	144.00	5335	155.00	44784	165.95	22270
134.00	17496	145.00	4735	156.00	68144	166.95	161730
135.00	52728	146.00	14258	157.00	14284	168.00	81484
136.00	20392	147.00	42528	158.00	13740	169.00	12861
137.00	27072	148.00	92488	159.00	11384	170.00	5444

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.90	6497	182.00	5732	193.00	40056	205.00	181824
172.00	12090	182.90	3176	194.00	9729	206.00	771328
173.00	17984	184.00	7816	195.00	4724	207.00	98567
174.00	32664	185.00	56264	196.00	89608	208.00	23888
175.00	62800	186.00	433280	197.00	17368	209.00	7269
176.00	17504	187.00	125944	197.90	3143680	210.20	12506
177.00	26368	188.00	13025	199.00	206848	211.00	29120
178.00	9511	189.00	25104	200.00	17712	213.00	1790
179.00	111328	190.00	4294	201.50	13338	213.90	881
180.00	77480	191.00	11558	202.95	18780	215.00	7513
181.00	37632	192.00	35784	204.00	107552	216.00	16033

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
216.90	191360	229.95	4877	241.00	9326	251.90	2969
218.00	26440	231.00	13876	242.00	21856	253.00	6373
218.90	2365	231.95	2252	243.00	22424	255.00	1564160
221.00	145152	233.00	3187	244.00	320320	256.00	233728
223.00	44048	234.00	9808	245.00	41216	257.00	18232
224.00	406592	234.90	12833	246.00	60368	258.00	87824
225.00	106640	236.00	8055	247.00	11814	259.00	14929
226.00	11552	237.00	12730	248.00	3026	259.90	2804
227.00	164608	238.00	2040	249.00	10255	261.00	2692
228.00	23872	239.00	6629	249.90	2060	261.90	392
229.00	35968	240.00	4998	251.00	2508	263.10	953

Scan 1615 (12.486 min): 1026F001.D

DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
264.00	2818	275.00	681472	285.90	2062	297.00	25896
265.00	35384	276.00	91752	287.10	323	297.90	1621
265.95	4533	277.00	59304	288.00	756	299.00	524
266.90	583	278.00	9972	289.00	2403	301.00	2209
267.80	517	278.90	1888	290.00	2280	301.90	3421
269.00	394	280.00	327	291.00	1326	303.00	21328
269.85	1672	280.90	457	292.00	2567	304.00	5876
271.00	2768	281.90	1421	293.00	12626	305.00	998
272.00	4745	283.00	6801	294.00	3253	305.90	316
273.00	47664	283.90	4360	295.00	4261	307.00	210
274.00	123144	285.00	9649	296.00	186176	307.90	2580

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
309.00	2180	319.90	762	330.80	223	343.00	267
309.90	2845	321.00	6831	331.90	4749	345.90	14216
311.00	684	322.00	3493	333.00	5908	347.00	2430
312.00	515	323.00	60760	334.00	38816	348.00	444
312.90	1456	324.00	10545	335.00	10070	350.00	514
314.00	9606	324.90	1229	335.90	1384	350.90	998
314.90	21824	325.90	1235	336.90	209	352.00	17744
316.00	11977	326.90	11468	338.80	921	353.00	12963
317.00	1940	328.00	5519	340.10	680	354.00	18112
318.00	238	329.10	842	341.00	6676	355.00	3288
319.00	351	329.80	289	341.90	1724	356.00	304

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
356.80	365	369.90	1617	390.00	3656	405.00	844
358.00	366	371.00	4532	390.90	2804	406.10	167
359.00	1207	372.00	31392	392.00	1972	407.90	168
360.00	525	373.00	8164	392.90	399	409.90	413
360.90	474	374.00	1018	394.90	397	411.00	159
362.20	174	376.90	767	395.90	253	414.90	792
362.60	177	381.90	153	396.90	414	419.10	300
364.00	722	383.00	7865	400.90	1942	419.50	278
364.90	83800	384.00	2340	402.00	12486	421.00	13641
366.00	12681	385.00	684	402.90	17248	422.00	13415
367.00	920	386.00	171	403.90	6122	423.00	102840

Scan 1615 (12.486 min): 1026F001.D
DFTPP SVM70-34K
Modified:subtracted

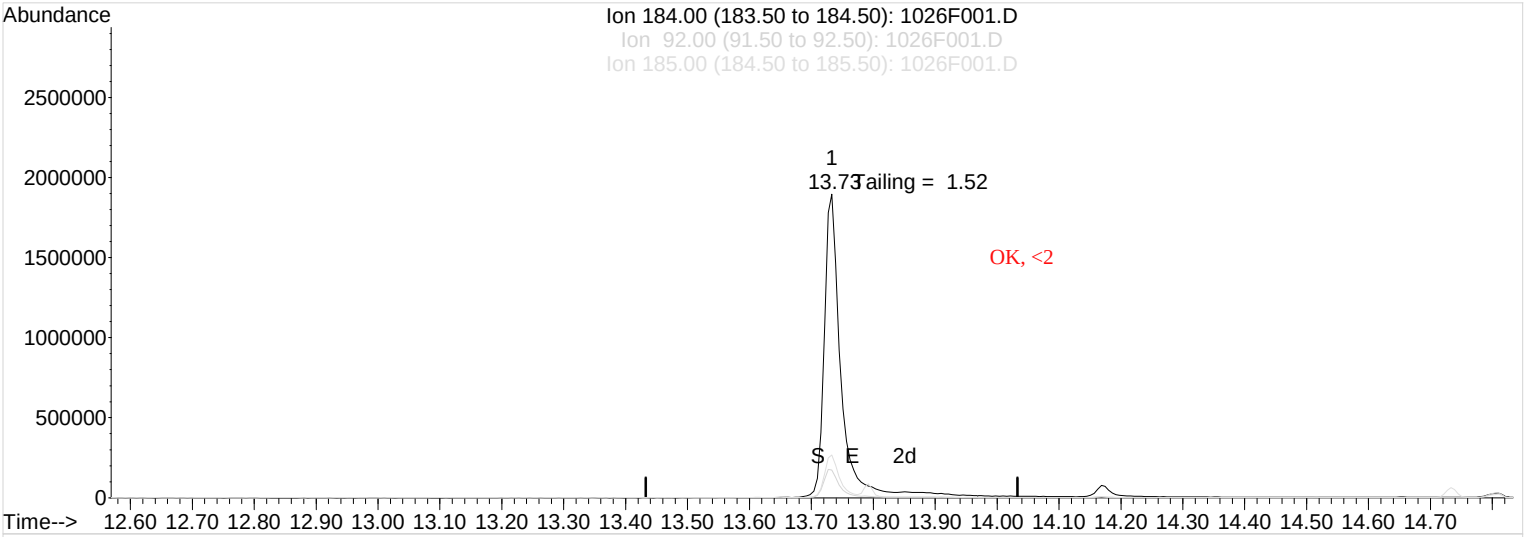
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.00	21384	436.70	701				
425.00	2299	437.10	726				
427.00	152	437.80	1121				
430.80	219	439.20	1577				
432.30	166	439.70	1589				
432.80	270	441.00	265472				
433.50	339	442.00	1745408				
433.90	232	443.00	355264				
434.50	308	444.00	33960				
435.00	273	445.00	1684				
435.50	418						

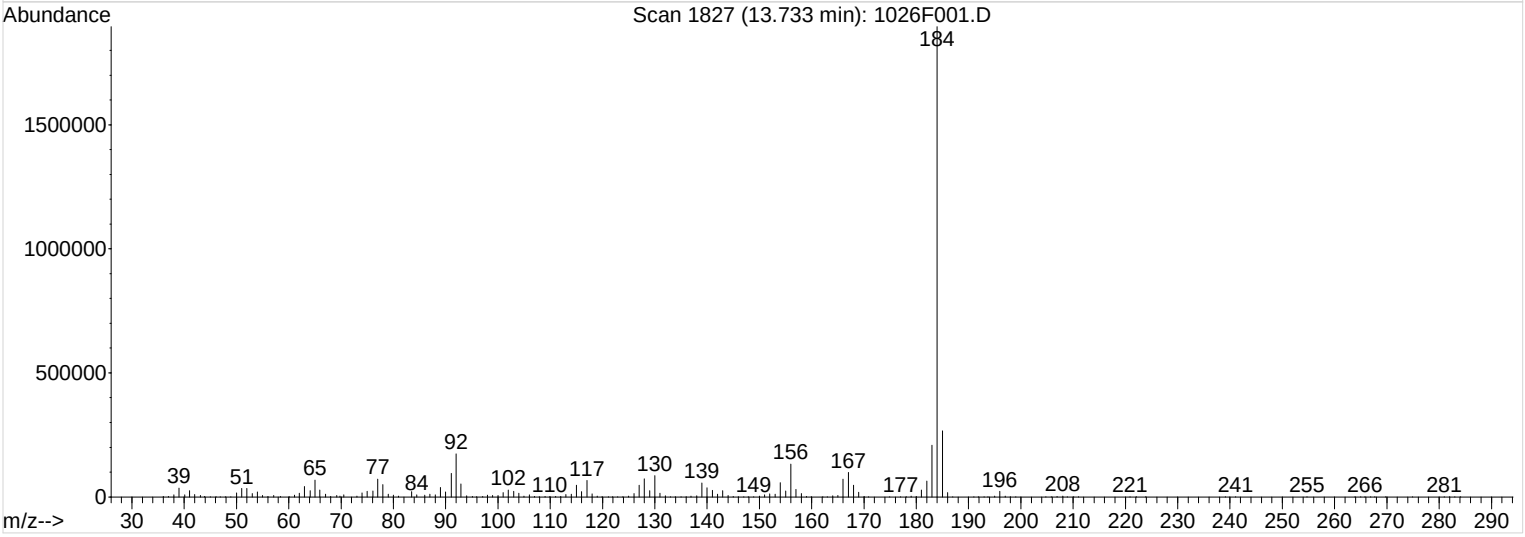
Quantitation Report (Qedit)

1st 10/31/23
2nd 10/31/23

Data File : J:\MS29\DATA\102623_BENZIDINE\1026F001.D Vial: 1
Acq On : 26 Oct 2023 01:47 pm Operator: CSD
Sample : DFTPP SVM70-34K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 12:05 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 14:10:13 2023
Response via : Multiple Level Calibration





TIC: 1026F001.D

(2) Benzidine (T)

13.73min 0.00ng/ml

response 3450558

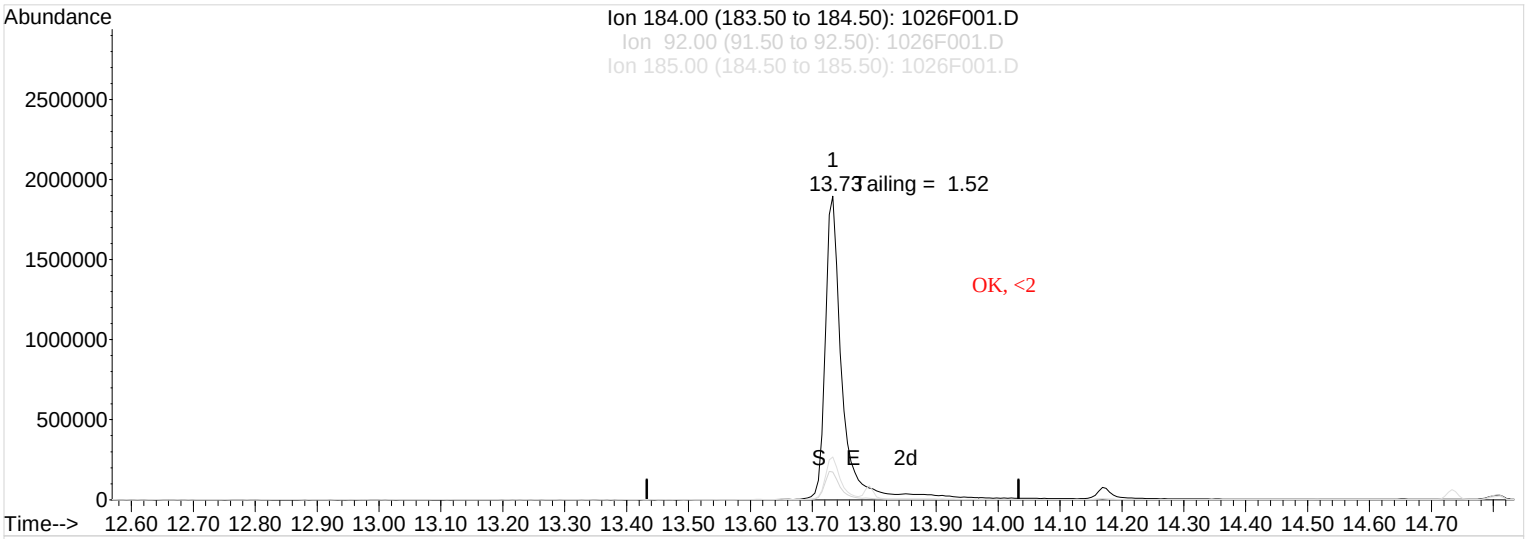
Ion	Exp%	Act%
184.00	100	100
92.00	9.40	9.17
185.00	14.50	14.05
0.00	0.00	0.00

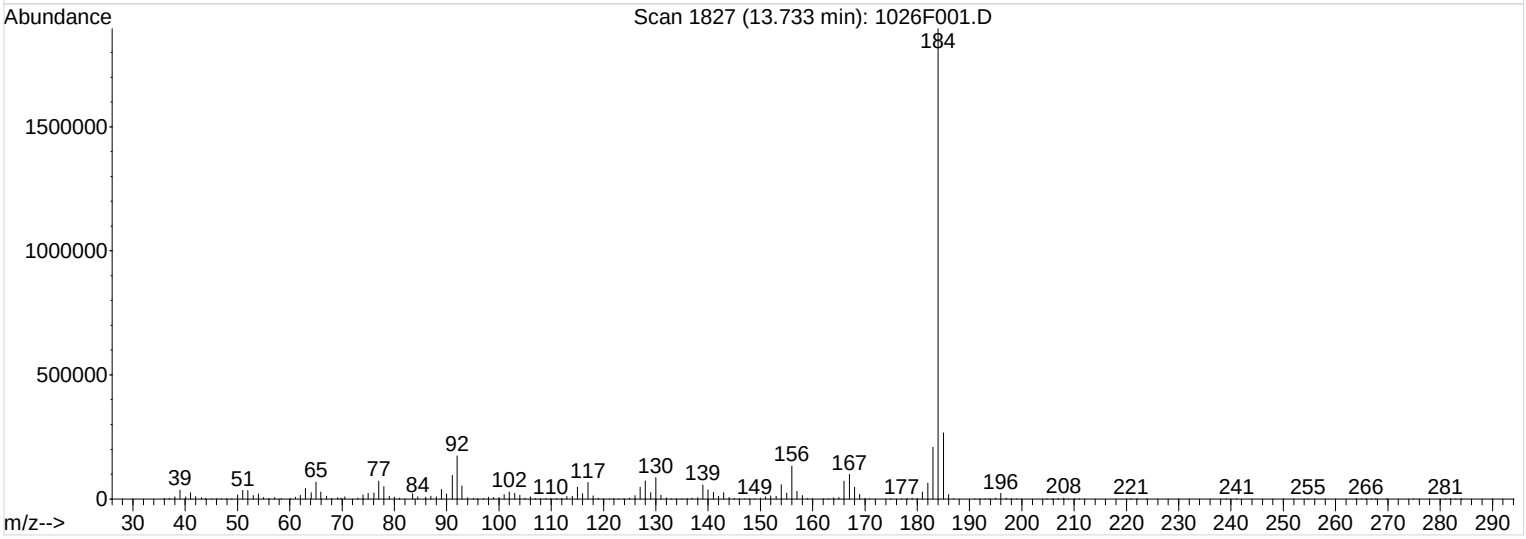
1st CO 10/31/23
2nd 10/31/23

Quantitation Report (Qedit)

Data File : J:\MS29\DATA\102623_BENZIDINE\1026F001.D Vial: 1
Acq On : 26 Oct 2023 01:47 pm Operator: CSD
Sample : DFTPP SVM70-34K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 12:05 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Oct 19 14:10:13 2023
Response via : Multiple Level Calibration





TIC: 1026F001.D

(2) Benzidine (T)

13.73min 0.00ng/ml

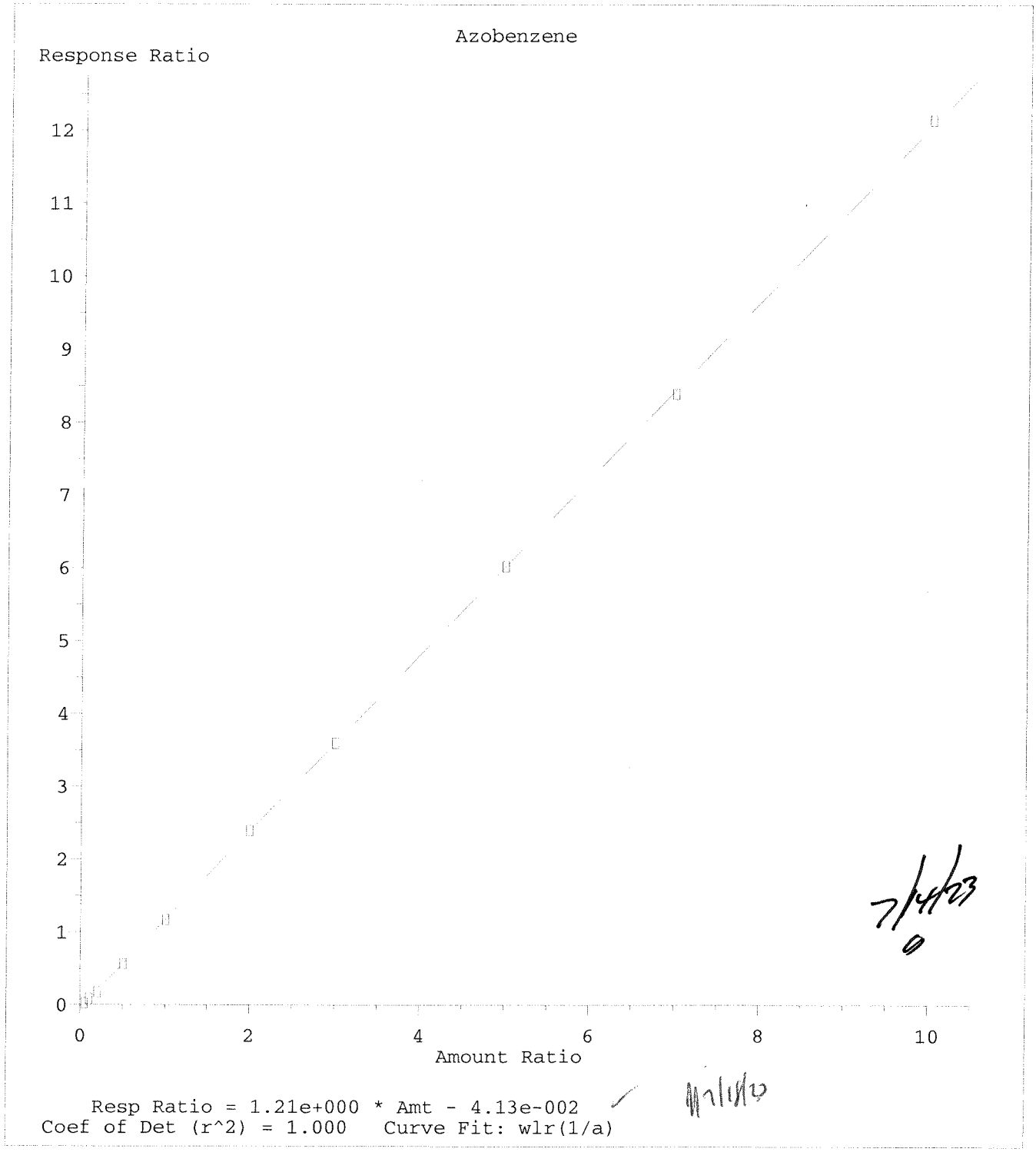
response 3450558

Ion	Exp%	Act%
184.00	100	100
92.00	9.40	9.17
185.00	14.50	14.05
0.00	0.00	0.00

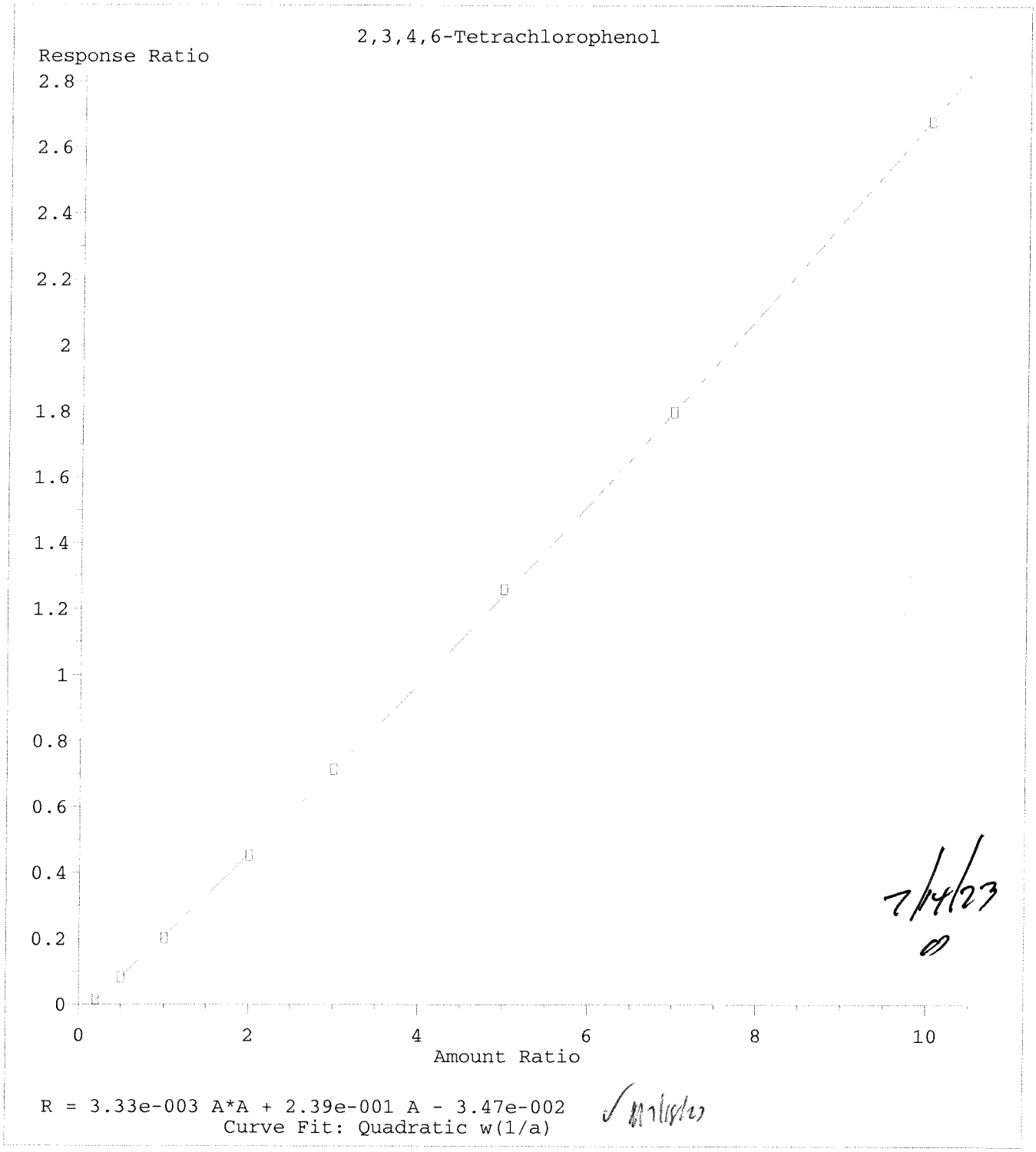
Injection Log

Directory: J:\MS29\DATA\070623

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0706f001.d	1.	TUNE SVM70-19C		6 Jul 2023 10:53
2	141	0706f002.d	1.	IB		6 Jul 2023 11:20
3	2	0706f003.d	1.	SVO_LL ICAL 0.05ppm SVM70-38C	KC230422	6 Jul 2023 11:48
4	3	0706f004.d	1.	SVO_LL ICAL 0.1ppm SVM70...		6 Jul 2023 12:17
5	4	0706f005.d	1.	SVO_LL ICAL 0.2ppm SVM70...		6 Jul 2023 12:45
6	5	0706f006.d	1.	SVO_LL ICAL 0.5ppm SVM70...		6 Jul 2023 13:13
7	6	0706f007.d	1.	SVO_LL ICAL 1.0ppm SVM70...	7/14/23	6 Jul 2023 13:41
8	7	0706f008.d	1.	SVO_LL ICAL 2.0ppm SVM70...		6 Jul 2023 14:10
9	8	0706f009.d	1.	SVO_LL ICAL 3.0ppm SVM70...		6 Jul 2023 14:38
10	9	0706f010.d	1.	SVO_LL ICAL 5.0ppm SVM70...	S	6 Jul 2023 15:06
11	10	0706f011.d	1.	SVO_LL ICAL 7.0ppm SVM70...	7/18/23	6 Jul 2023 15:35
12	11	0706f012.d	1.	SVO_LL ICAL 10ppm SVM70...		6 Jul 2023 16:03
13	12	0706f013.d	1.	SVO_LL ICV 3.0ppm SVM7...		6 Jul 2023 16:32
14	141	0706f014.d	1.	IB		6 Jul 2023 17:00
15	21	0706f015.d	1.	Benzidine LL ICAL 0.20ppm ...		6 Jul 2023 17:29
16	22	0706f016.d	1.	Benzidine LL ICAL 0.50ppm ...		6 Jul 2023 17:57
17	23	0706f017.d	1.	Benzidine LL ICAL 1.0ppm ...		6 Jul 2023 18:25
18	24	0706f018.d	1.	Benzidine LL ICAL 2.0ppm ...		6 Jul 2023 18:54
19	25	0706f019.d	1.	Benzidine LL ICAL 3.0ppm ...		6 Jul 2023 19:22
20	26	0706f020.d	1.	Benzidine LL ICAL 5.0ppm ...		6 Jul 2023 19:51
21	27	0706f021.d	1.	Benzidine LL ICAL 7.0ppm ...		6 Jul 2023 20:19
22	28	0706f022.d	1.	Benzidine LL ICAL 10ppm ...		6 Jul 2023 20:47
23	29	0706f023.d	1.	Benzidine LL ICV 5.0ppm ...		6 Jul 2023 21:15
24	1	0706f024.d	1.	TUNE SVM70-19C		6 Jul 2023 22:12
25	141	0706f025.d	1.	IB		6 Jul 2023 22:40
26	31	0706f026.d	1.	CLP LL ICAL 0.10ppm SVM68-85A		6 Jul 2023 23:08
27	32	0706f027.d	1.	CLP LL ICAL 0.20ppm SVM68-85B		6 Jul 2023 23:36
28	33	0706f028.d	1.	CLP LL ICAL 0.50ppm SVM68-85C		7 Jul 2023 00:04
29	34	0706f029.d	1.	CLP LL ICAL 1.0ppm SVM68...		7 Jul 2023 00:32
30	35	0706f030.d	1.	CLP LL ICAL 2.0ppm SVM68...		7 Jul 2023 01:00
31	36	0706f031.d	1.	CLP LL ICAL 3.0ppm SVM68...		7 Jul 2023 01:28
32	37	0706f032.d	1.	CLP LL ICAL 5.0ppm SVM68...		7 Jul 2023 01:56
33	38	0706f033.d	1.	CLP LL ICAL 7.0ppm SVM68...		7 Jul 2023 02:24
34	39	0706f034.d	1.	CLP LL ICV 3.0ppm SVM6...		7 Jul 2023 02:52
35	131	0706f090.d	1.	DCM		6 Jul 2023 21:44

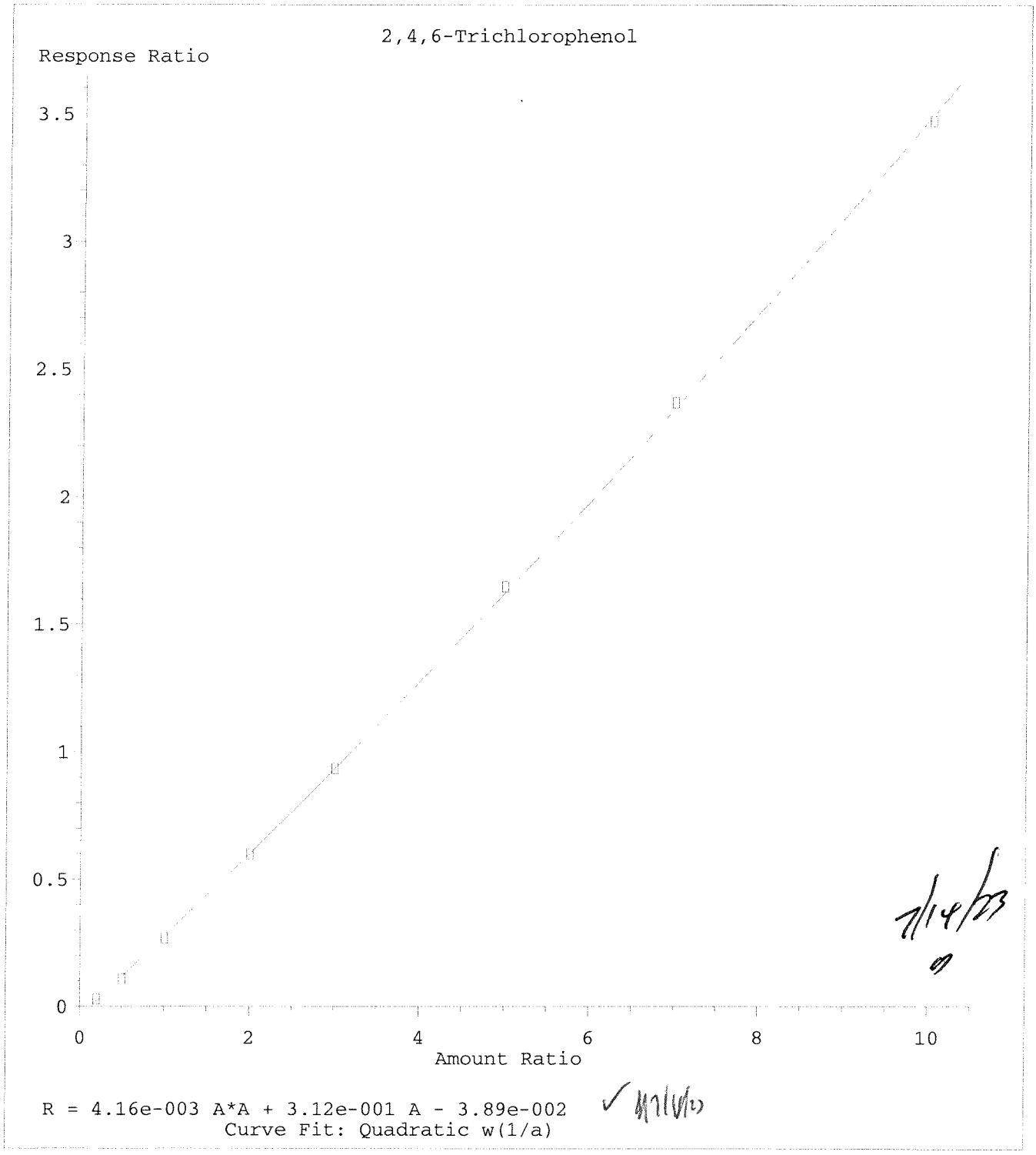


Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023

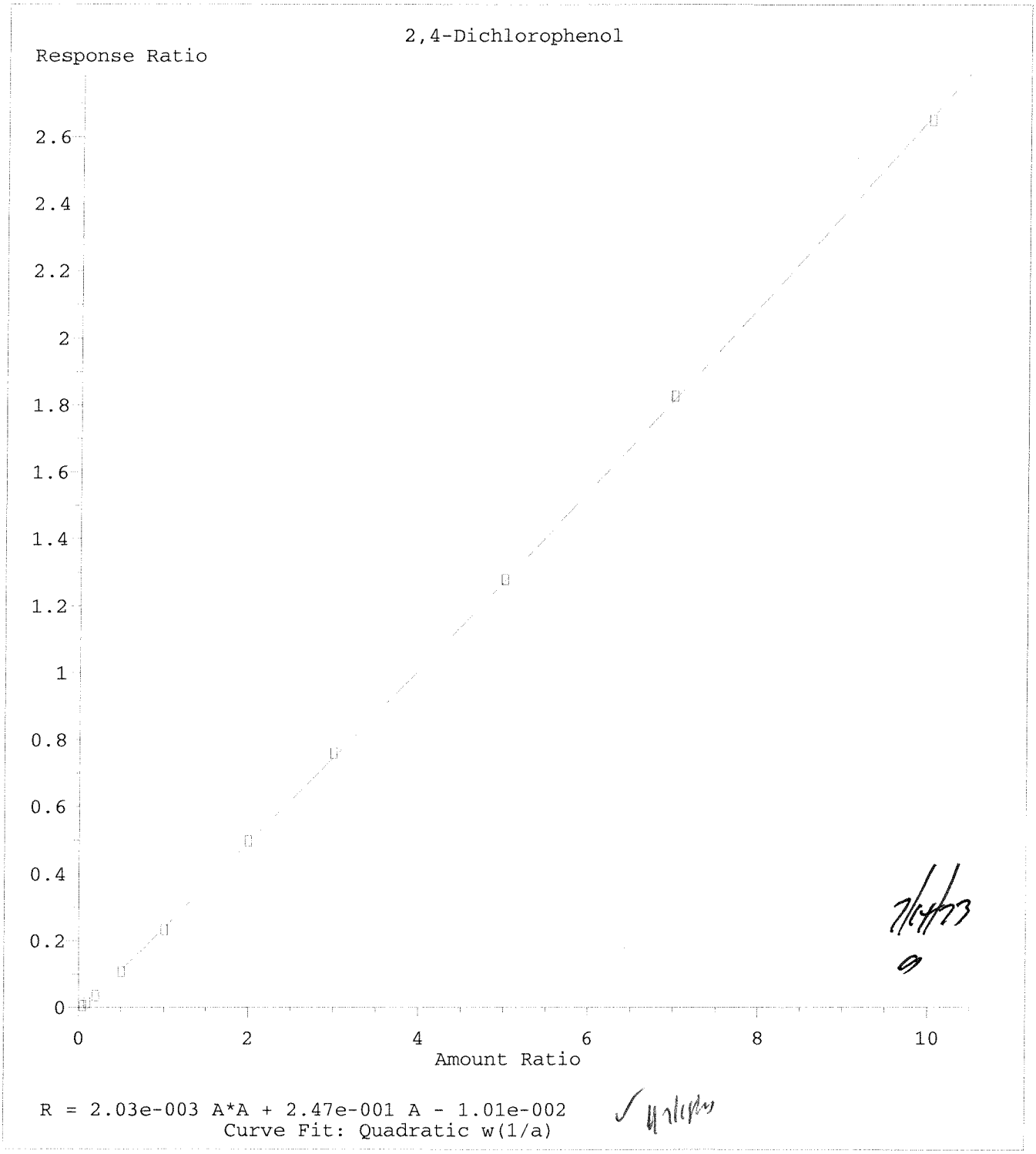


7/14/23

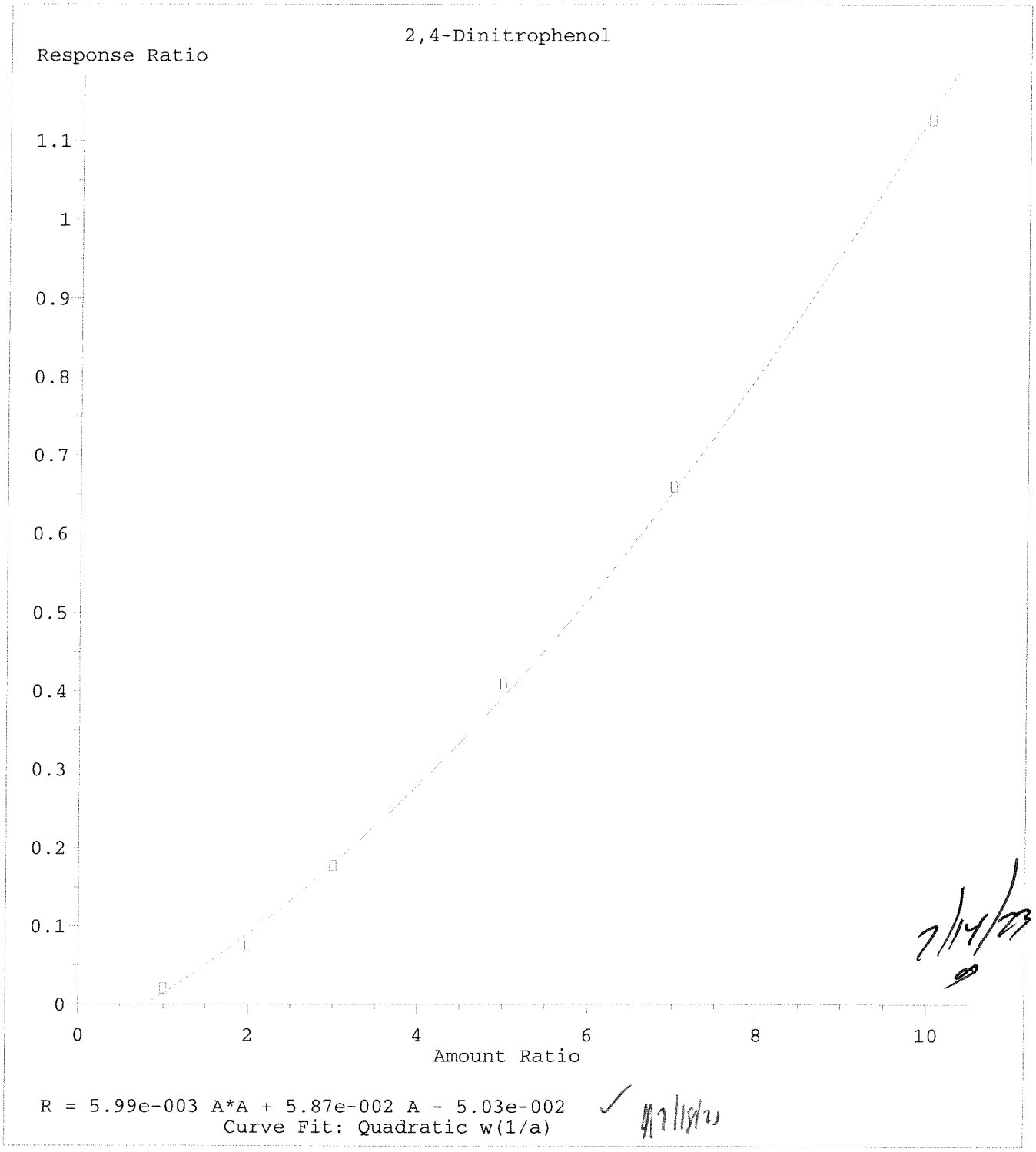
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



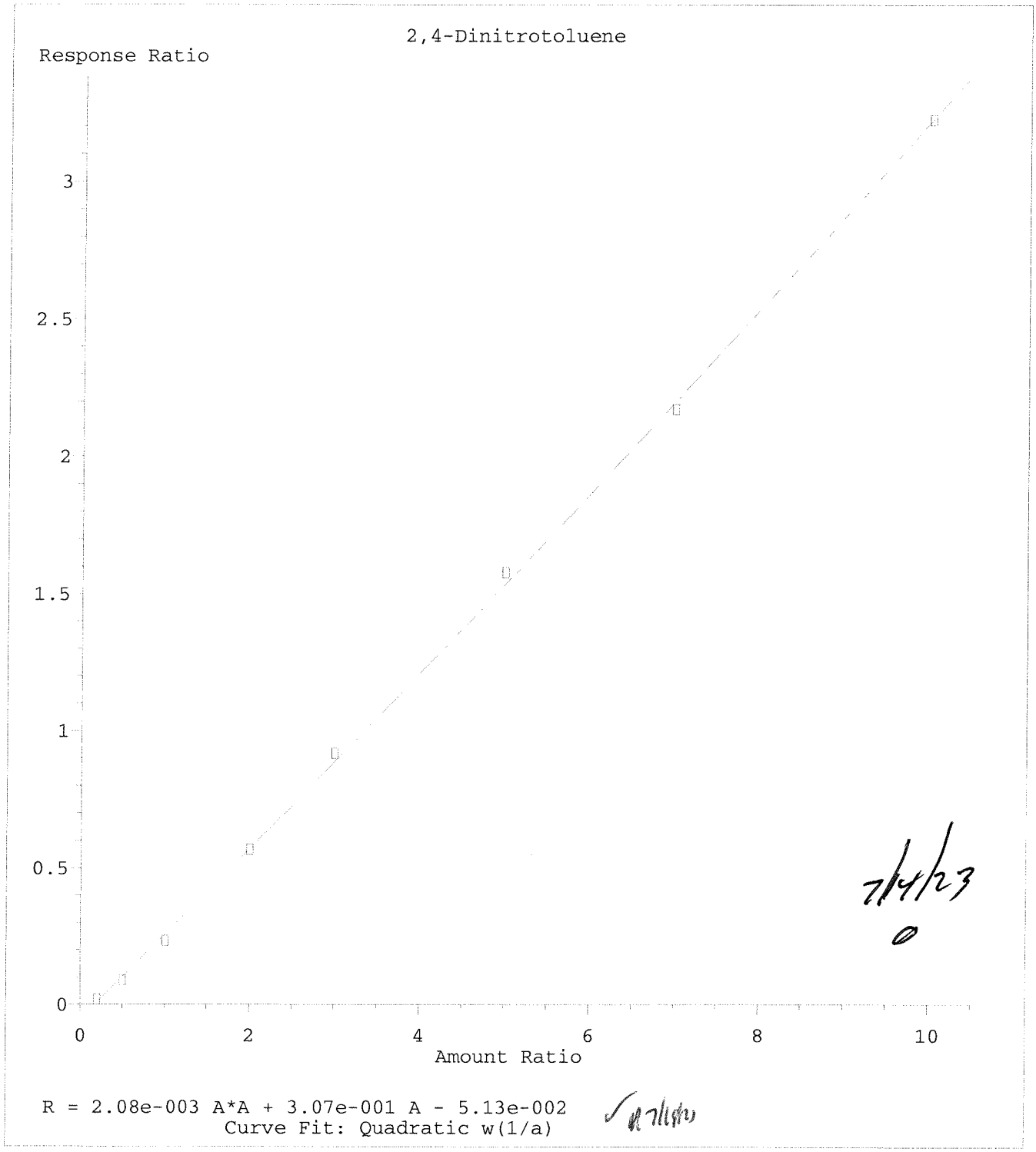
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



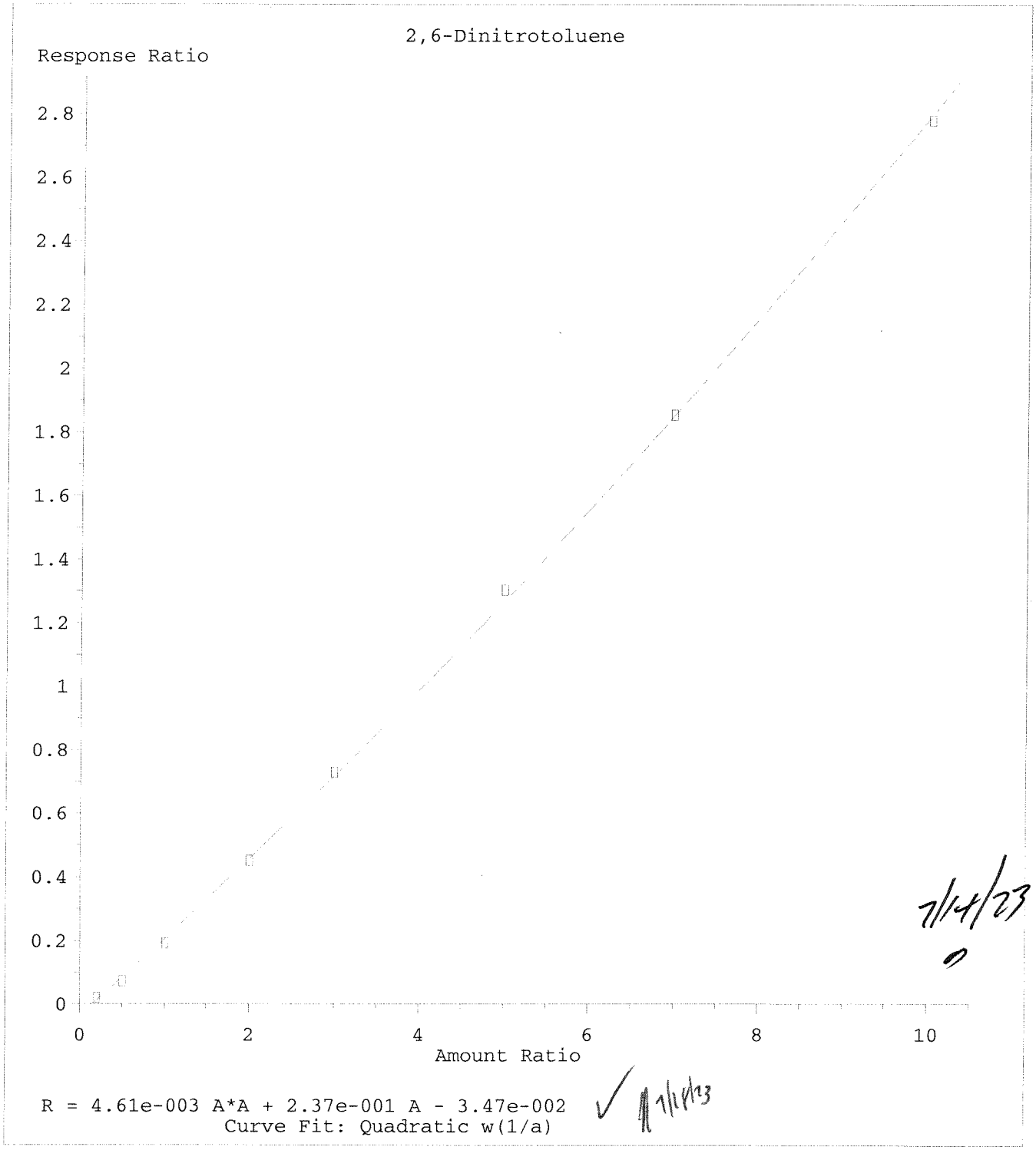
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



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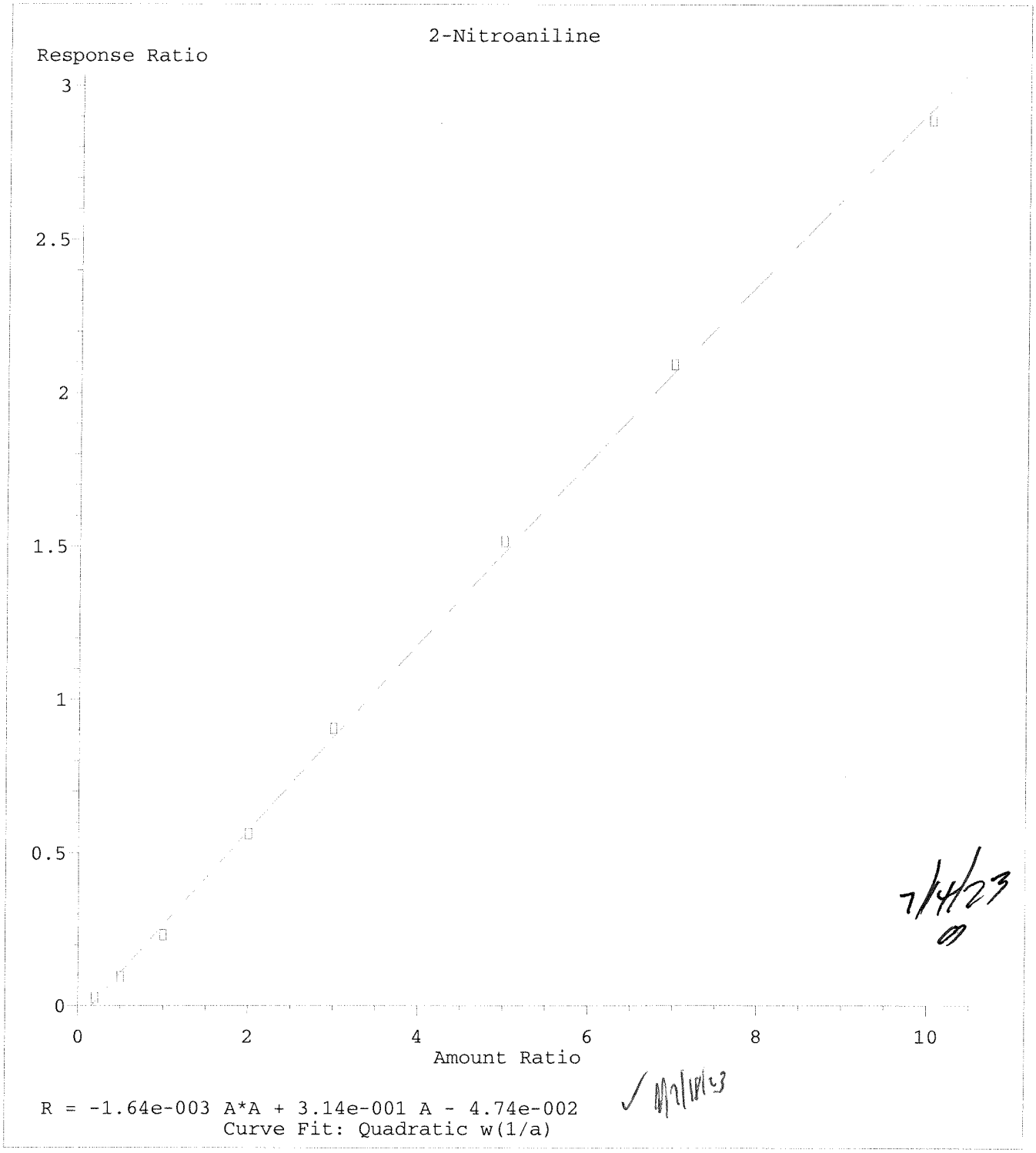
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



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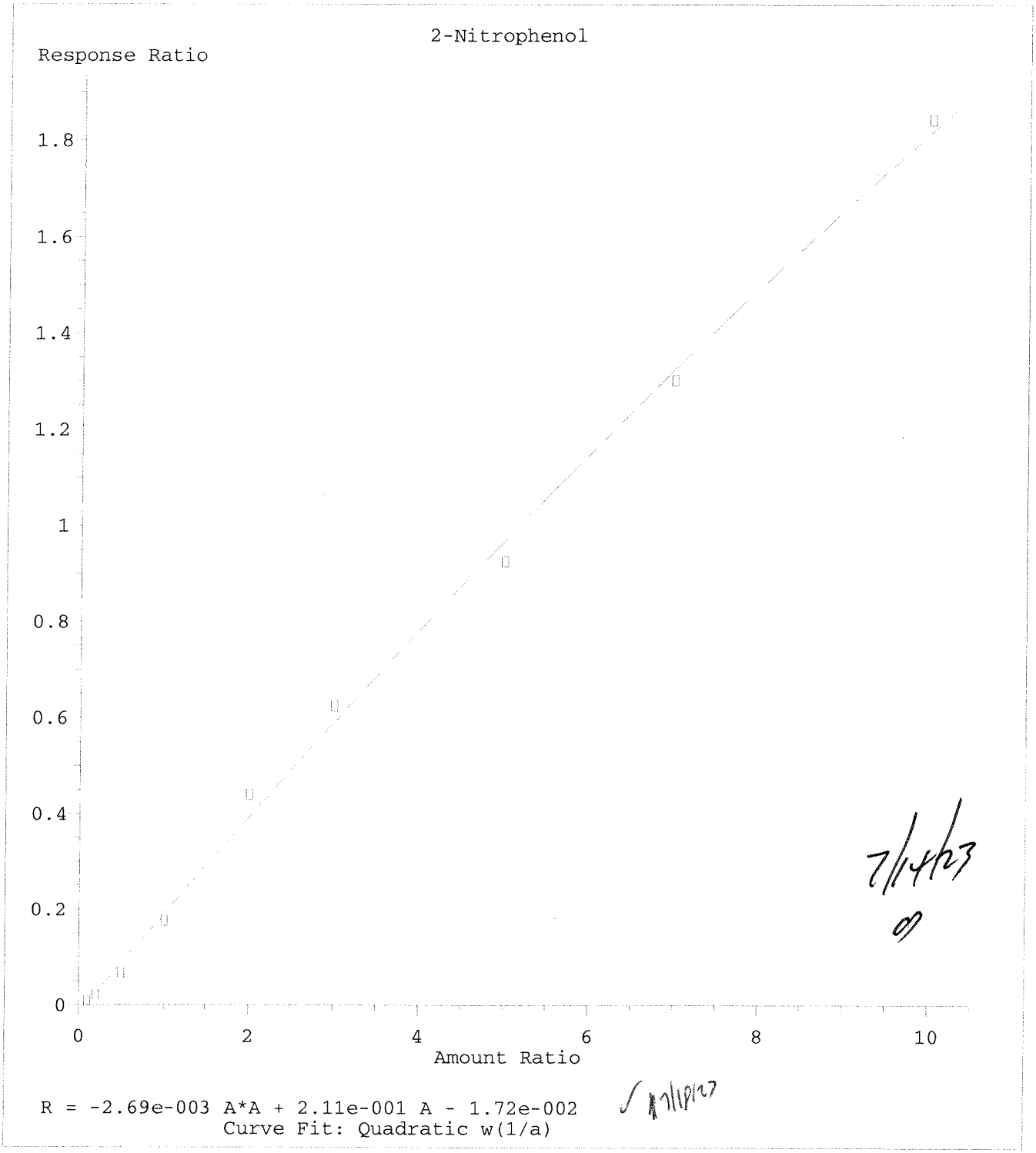
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



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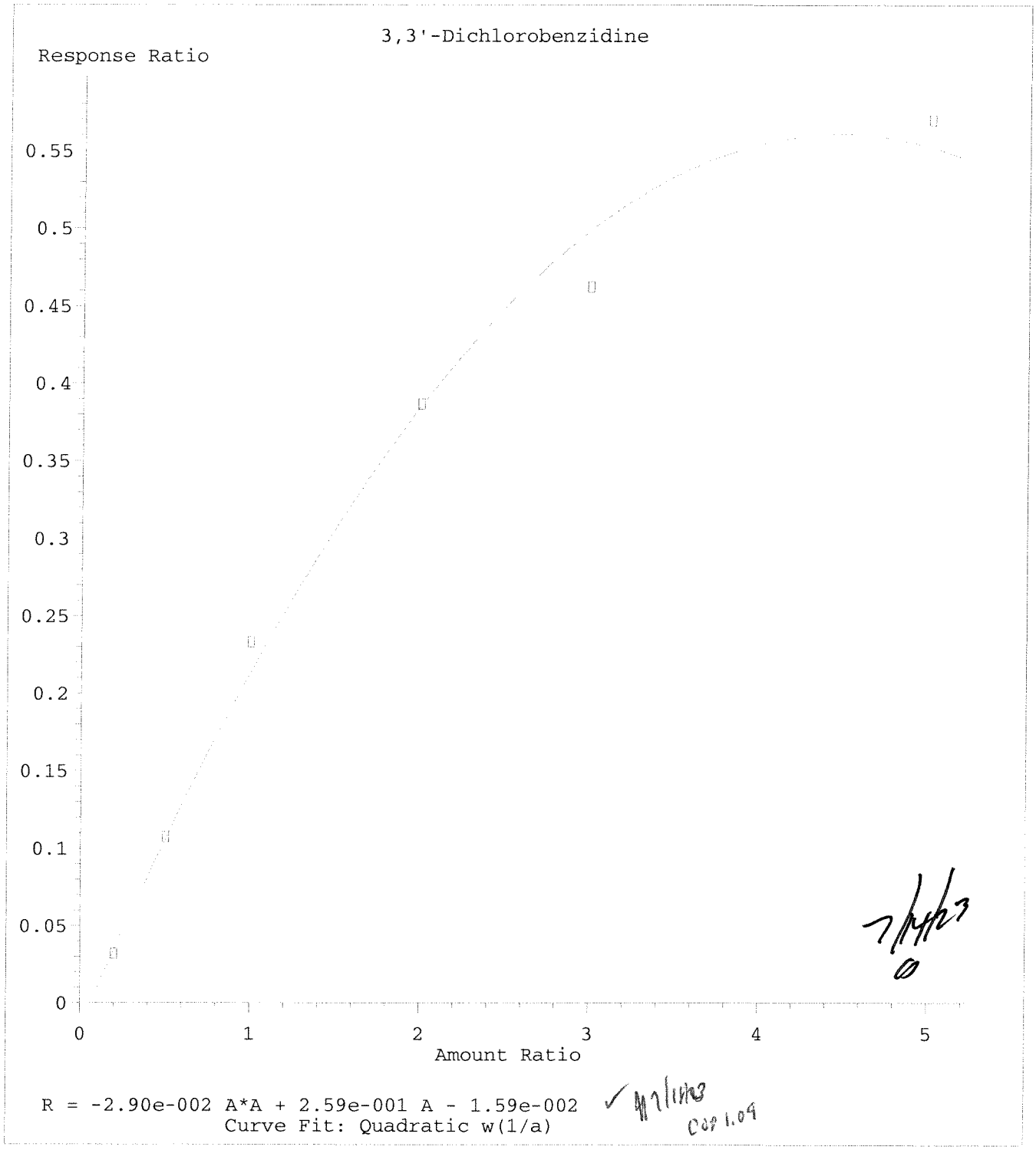

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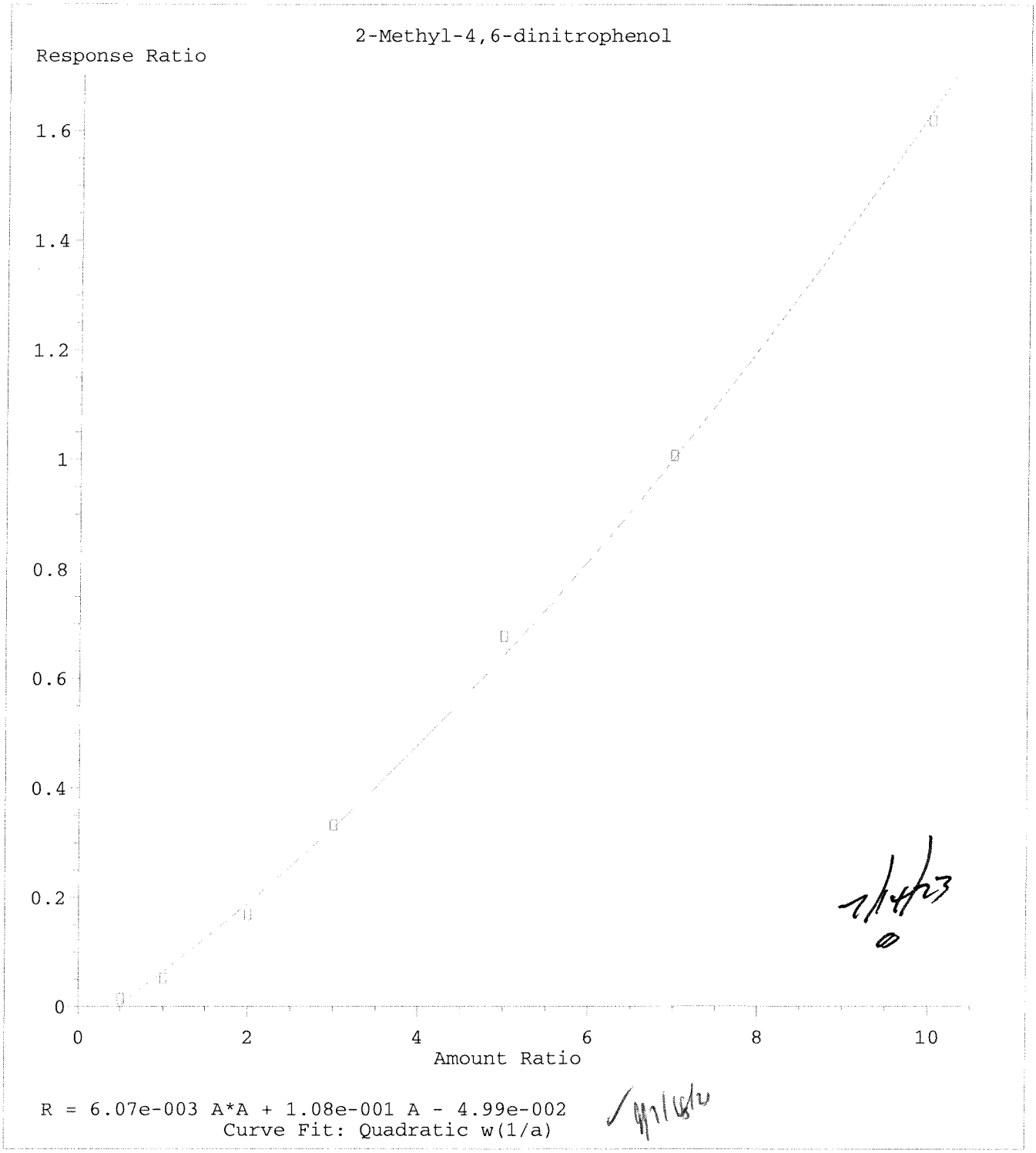
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



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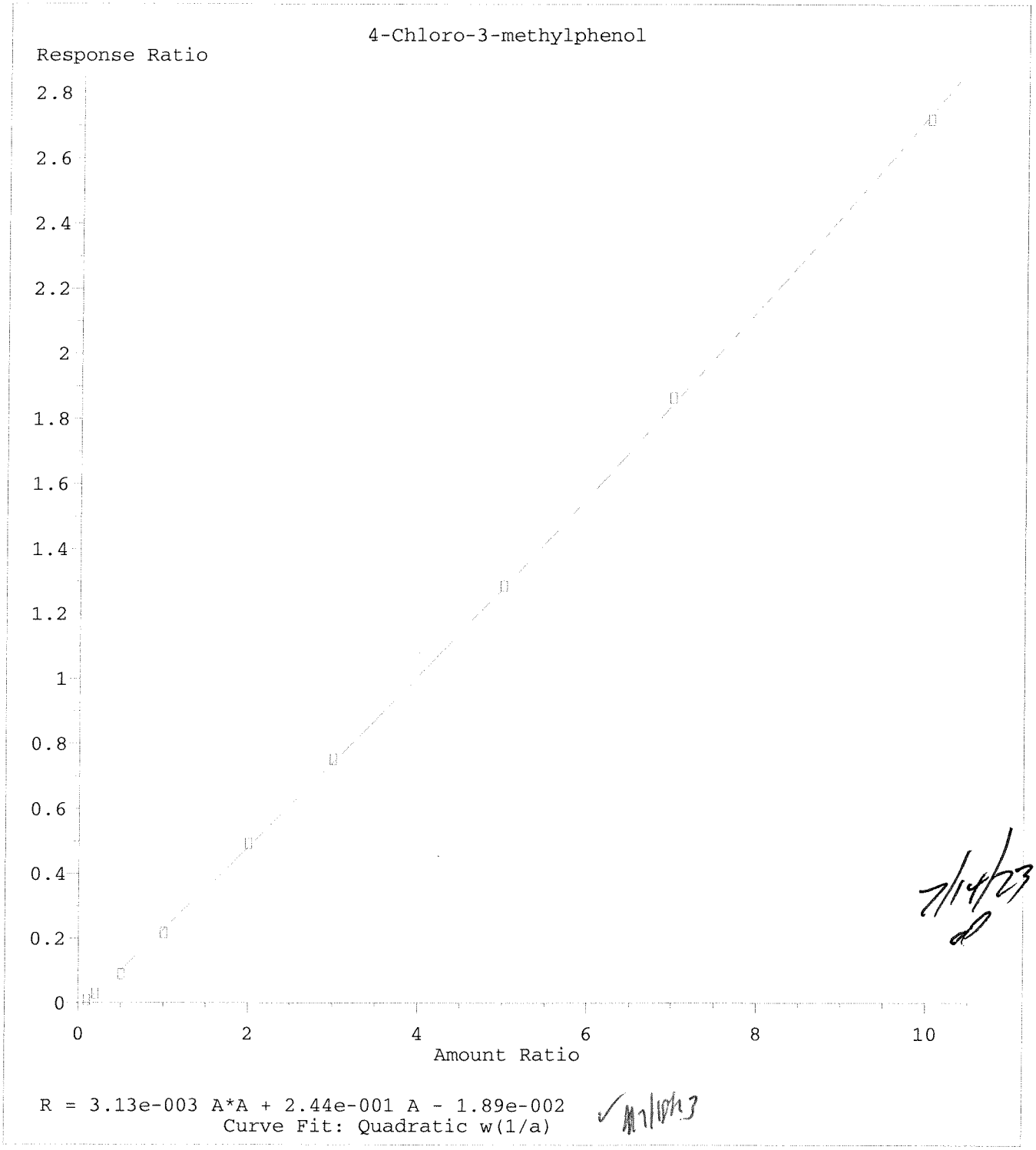
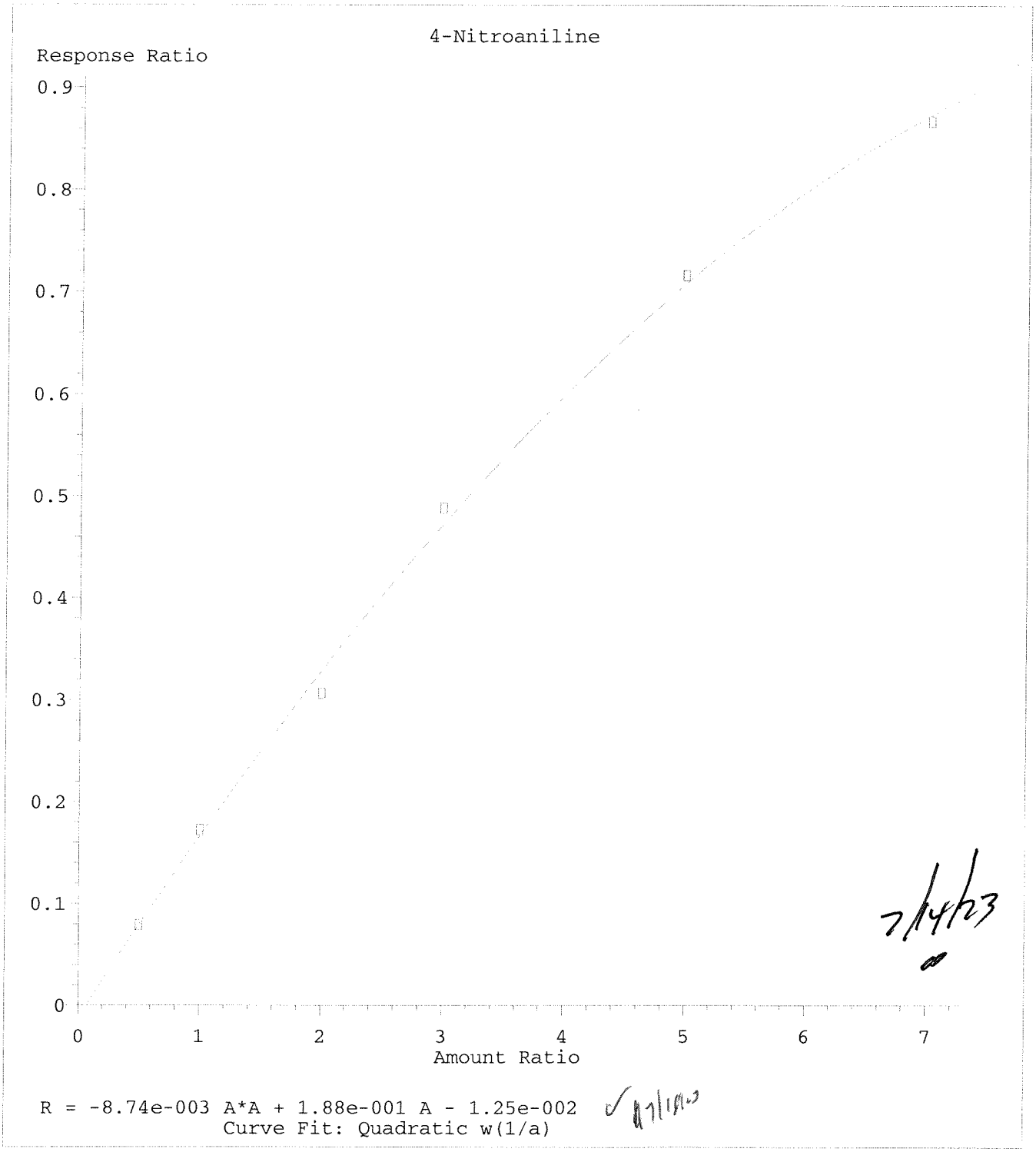
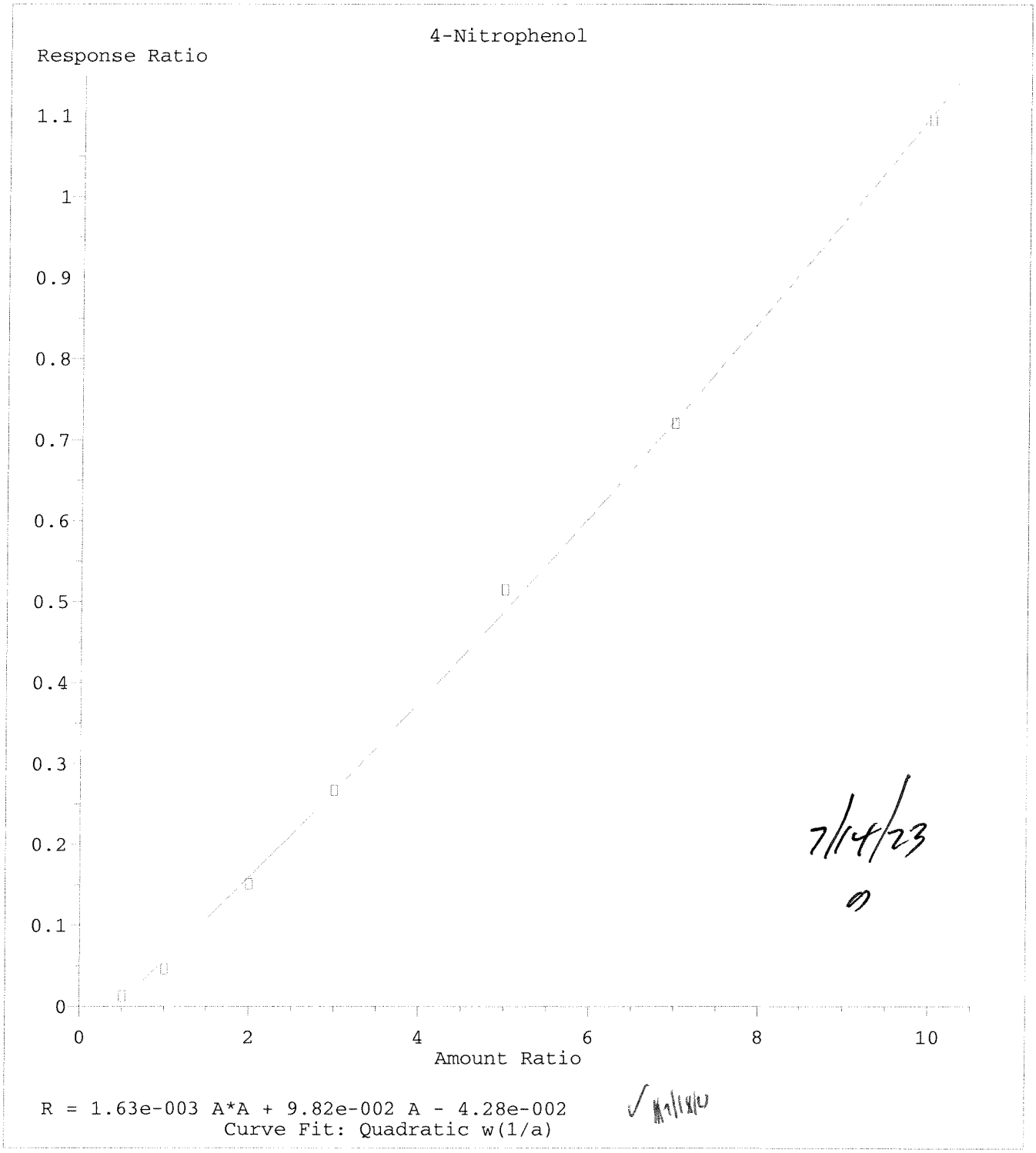
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



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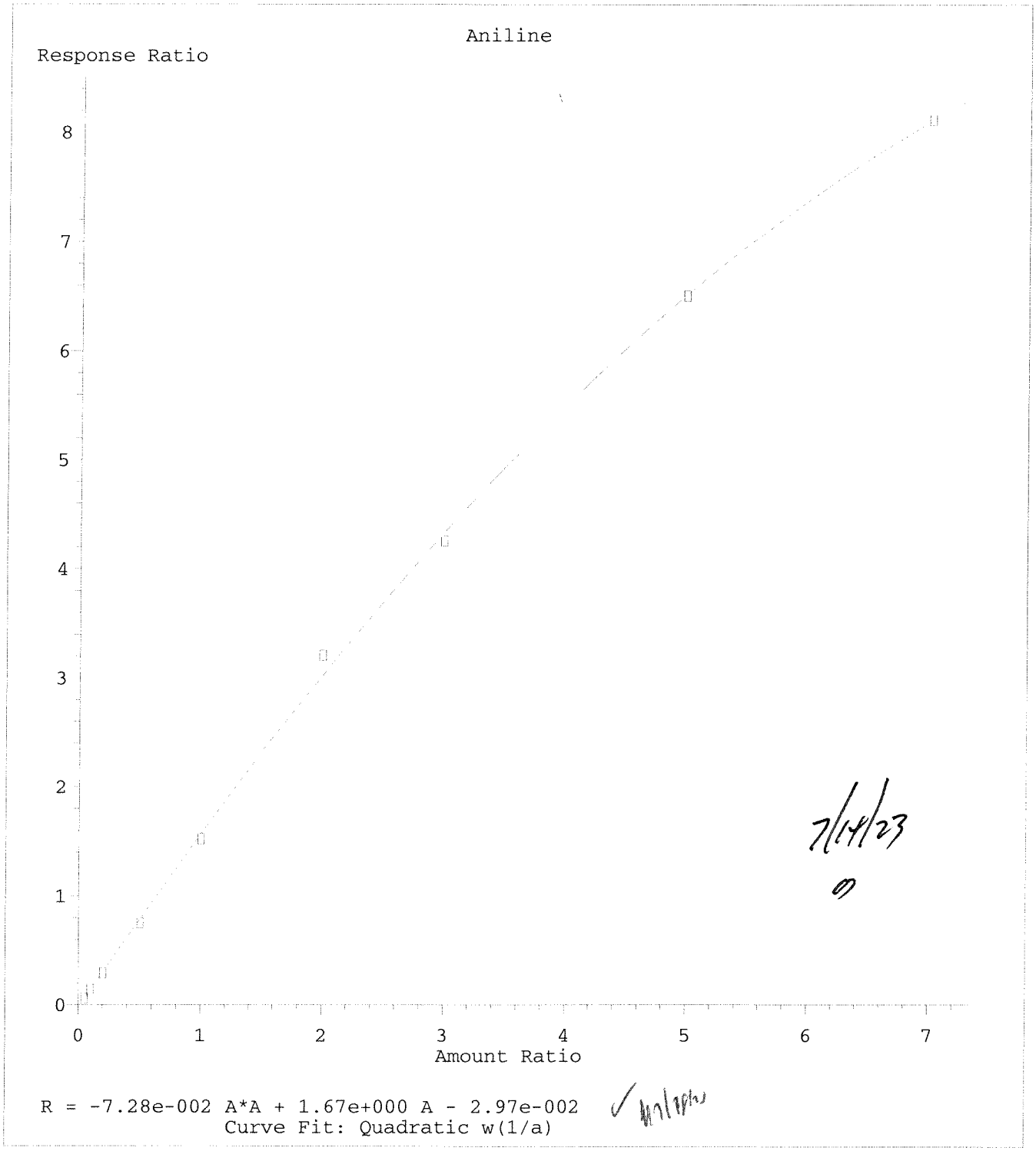
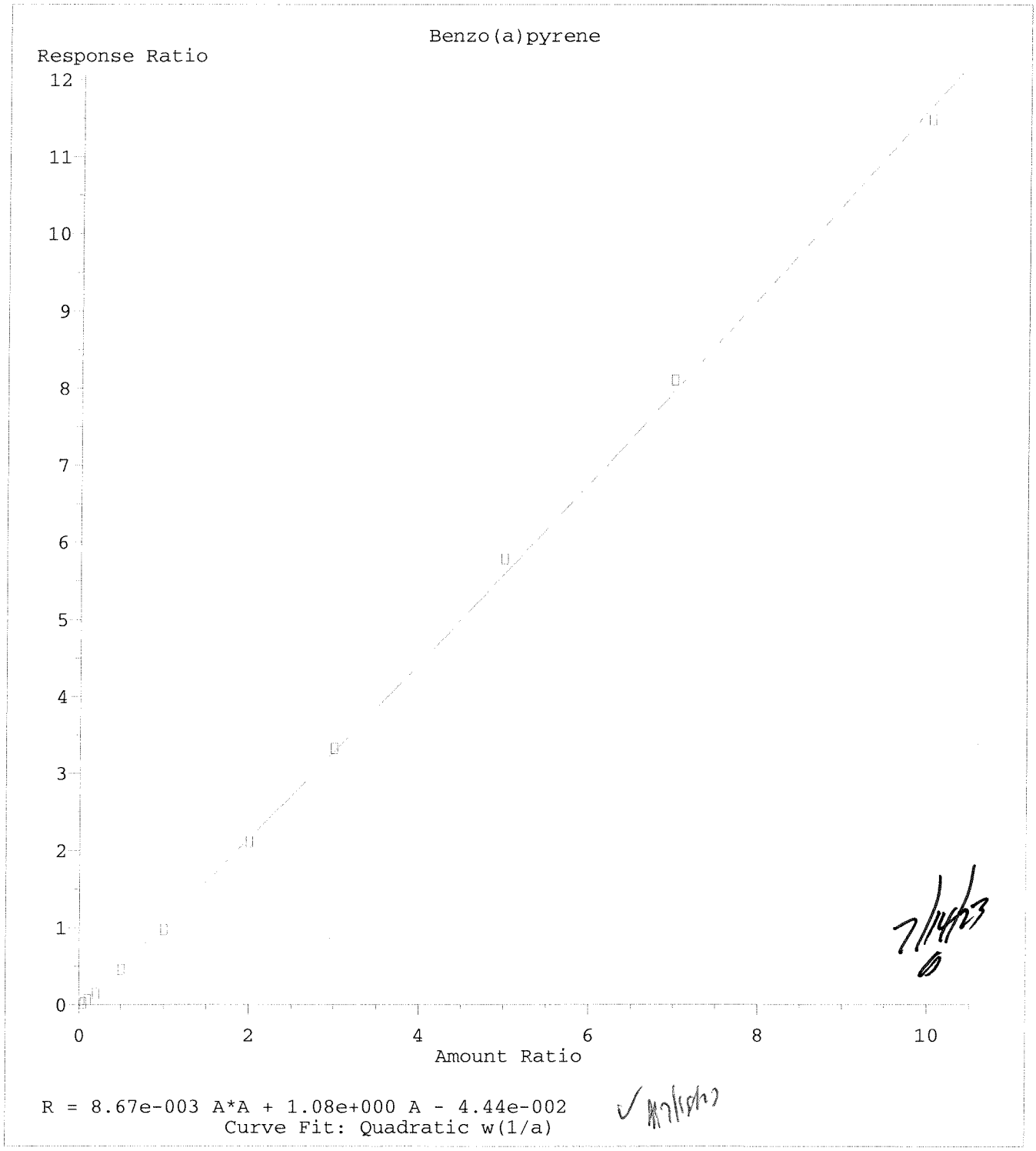
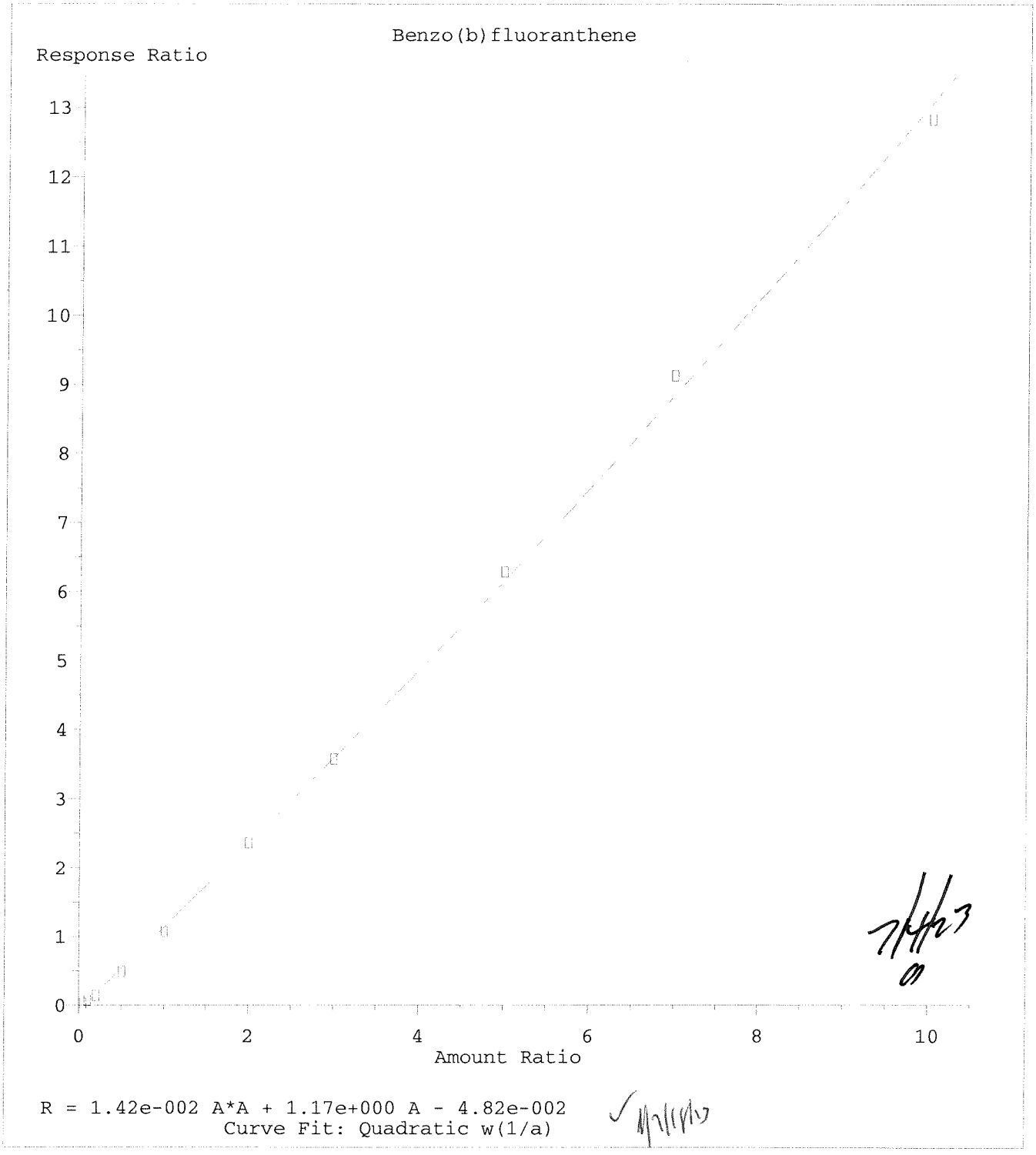
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



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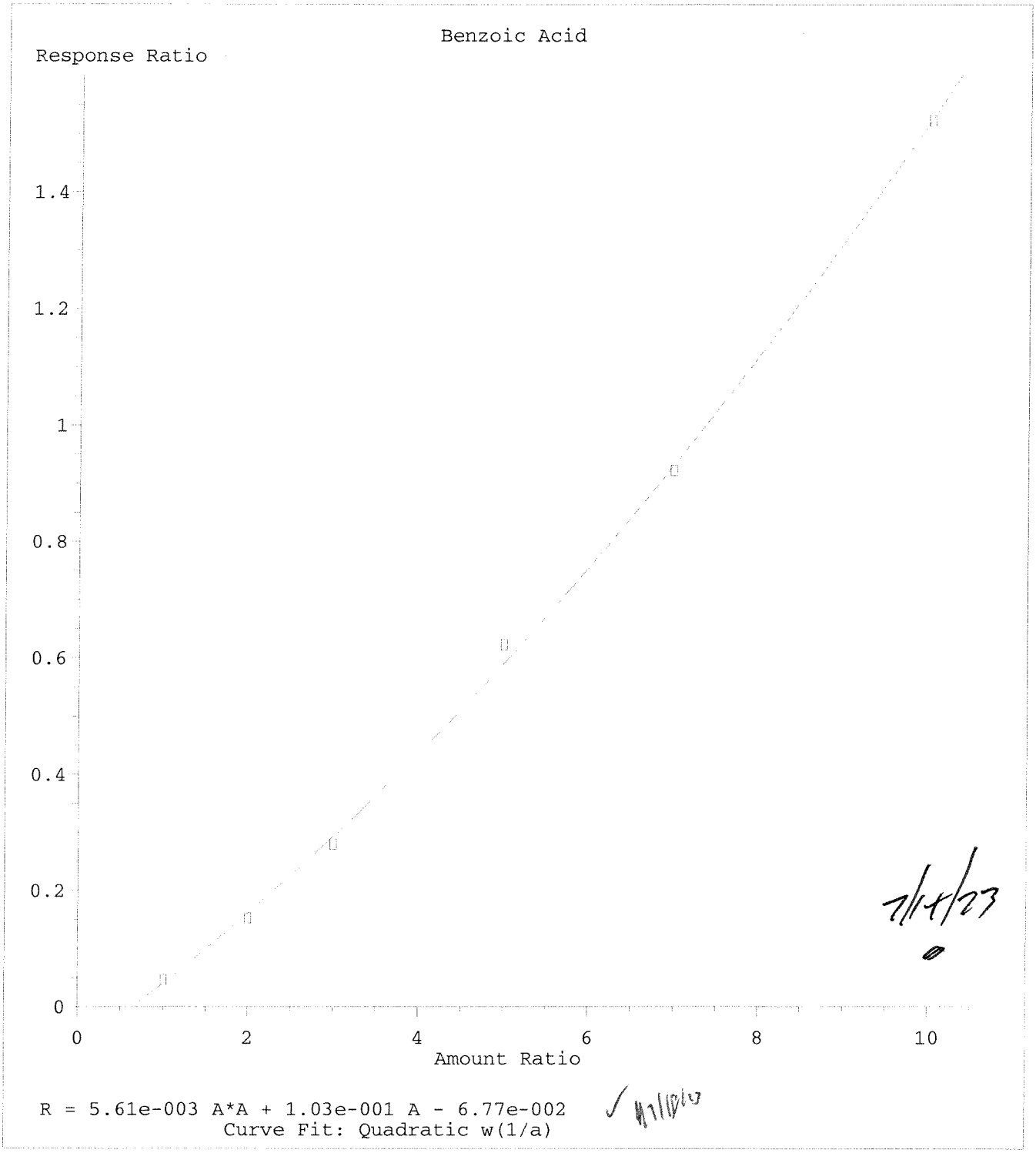
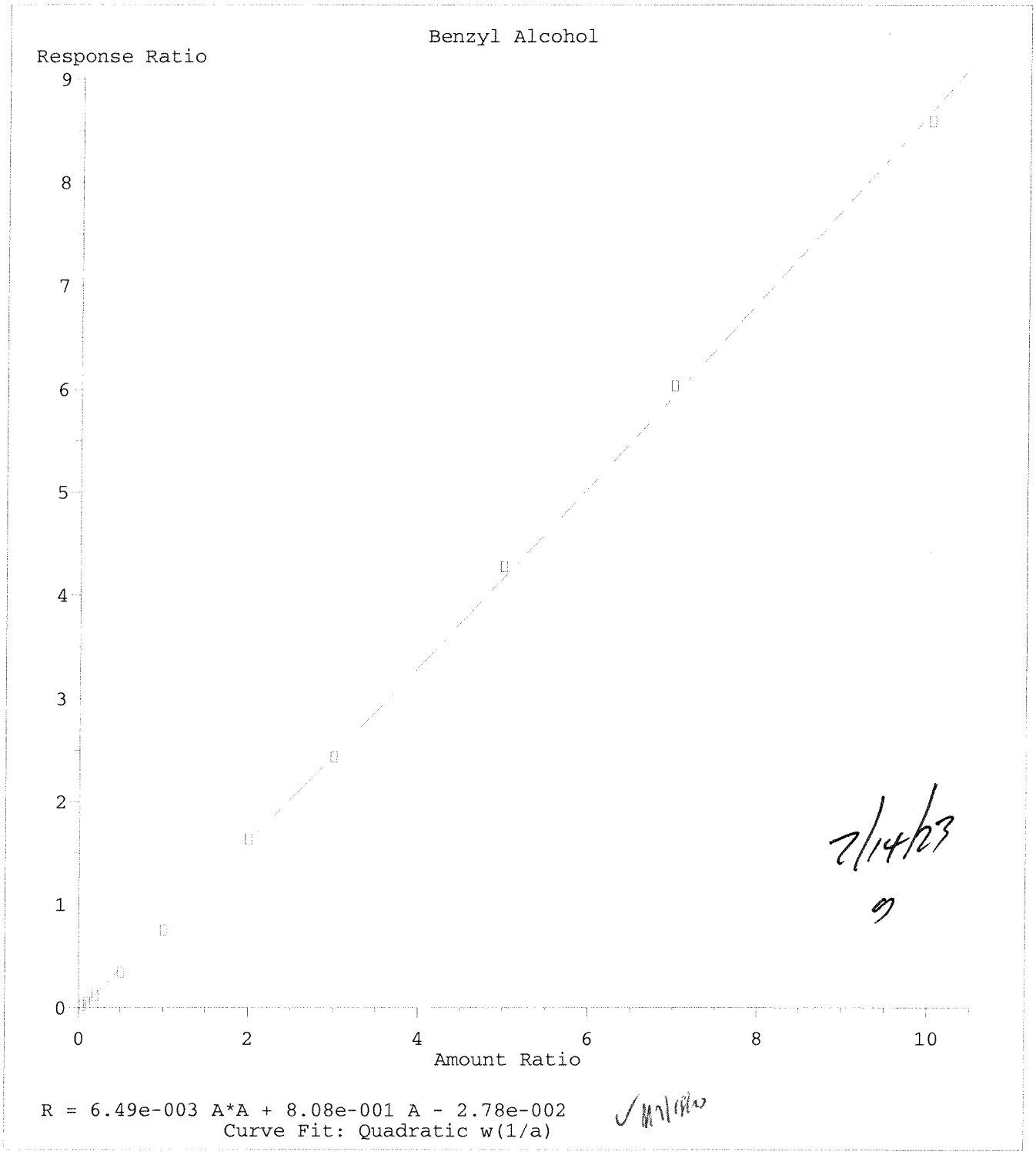
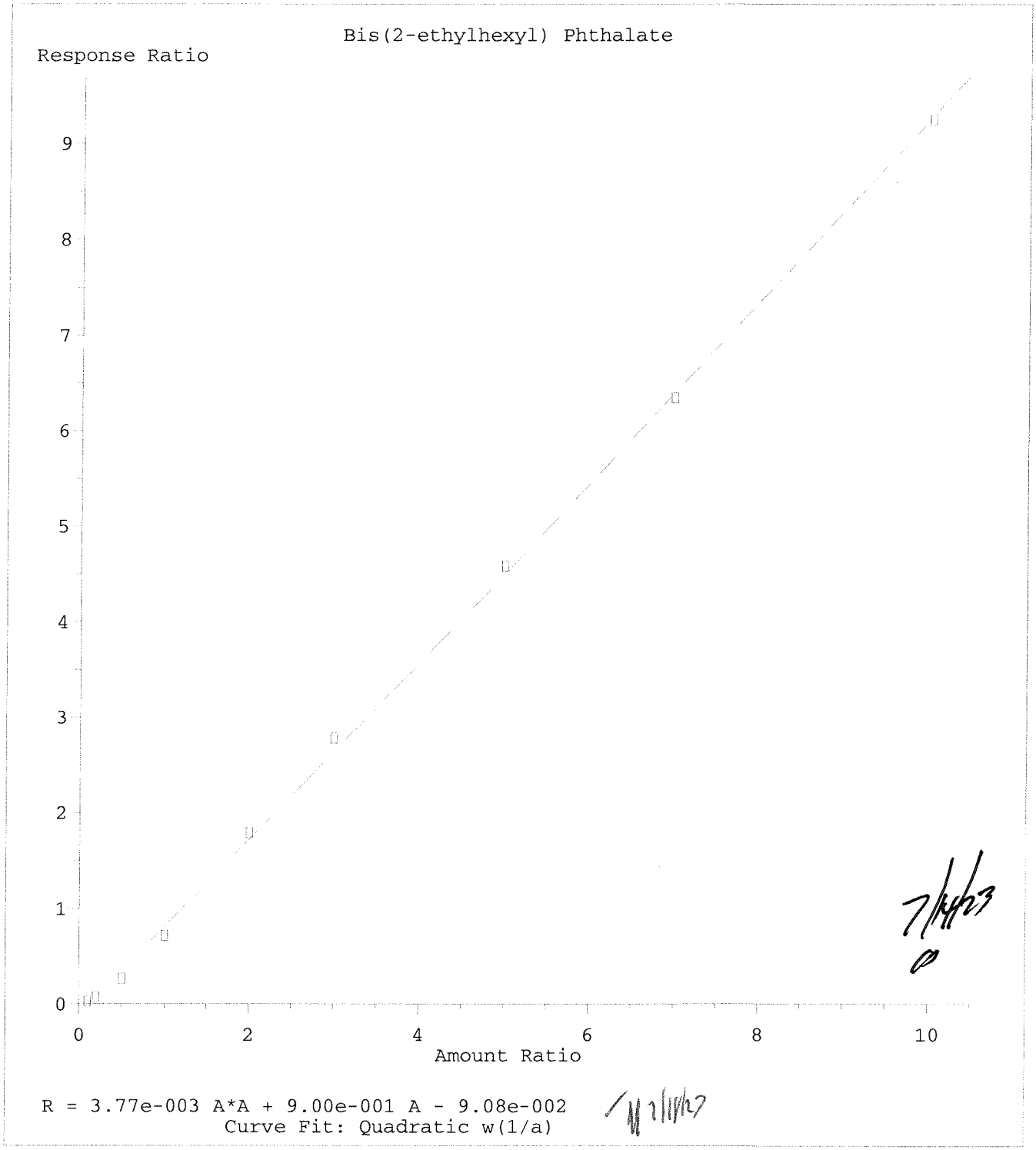


Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



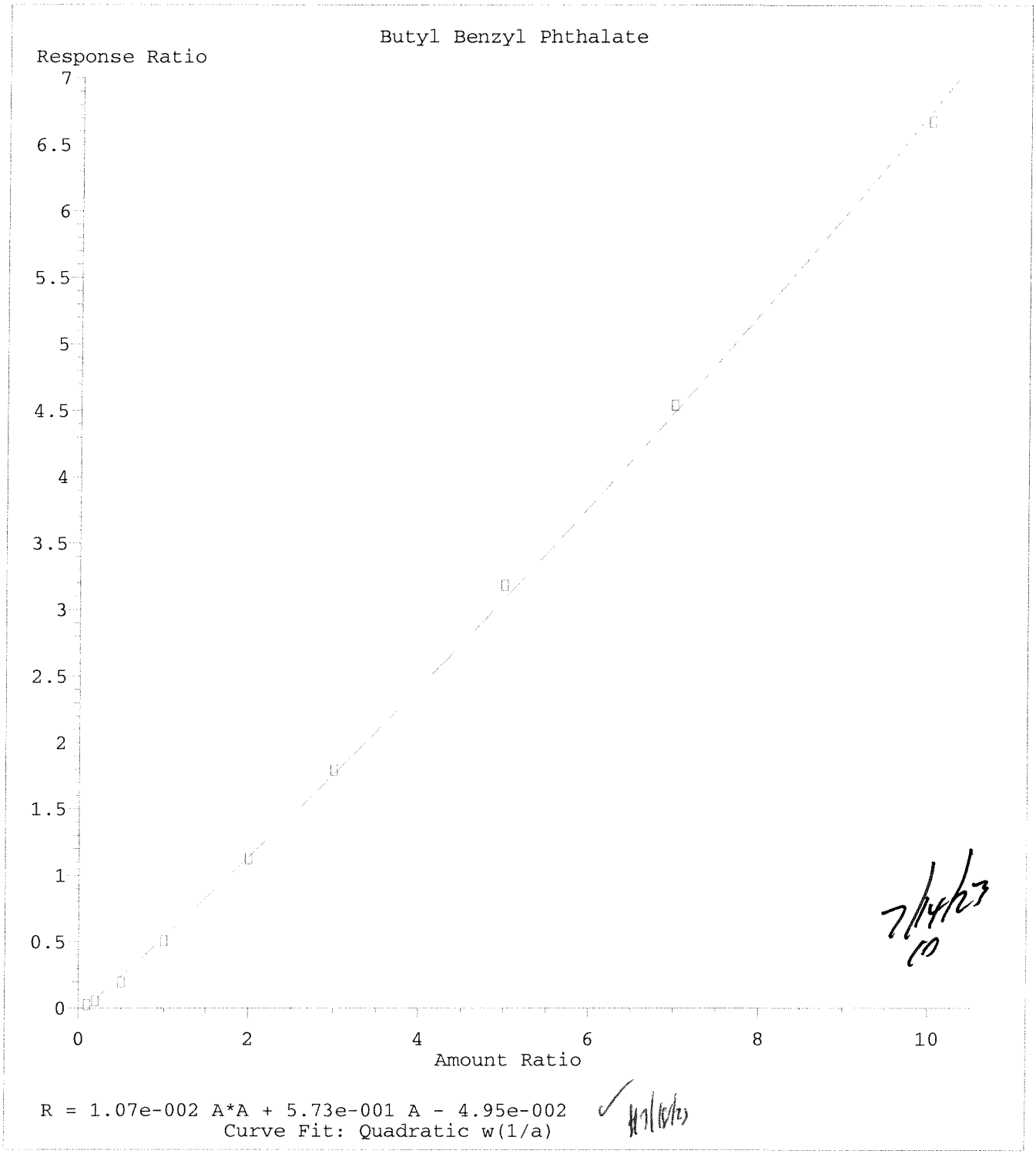
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



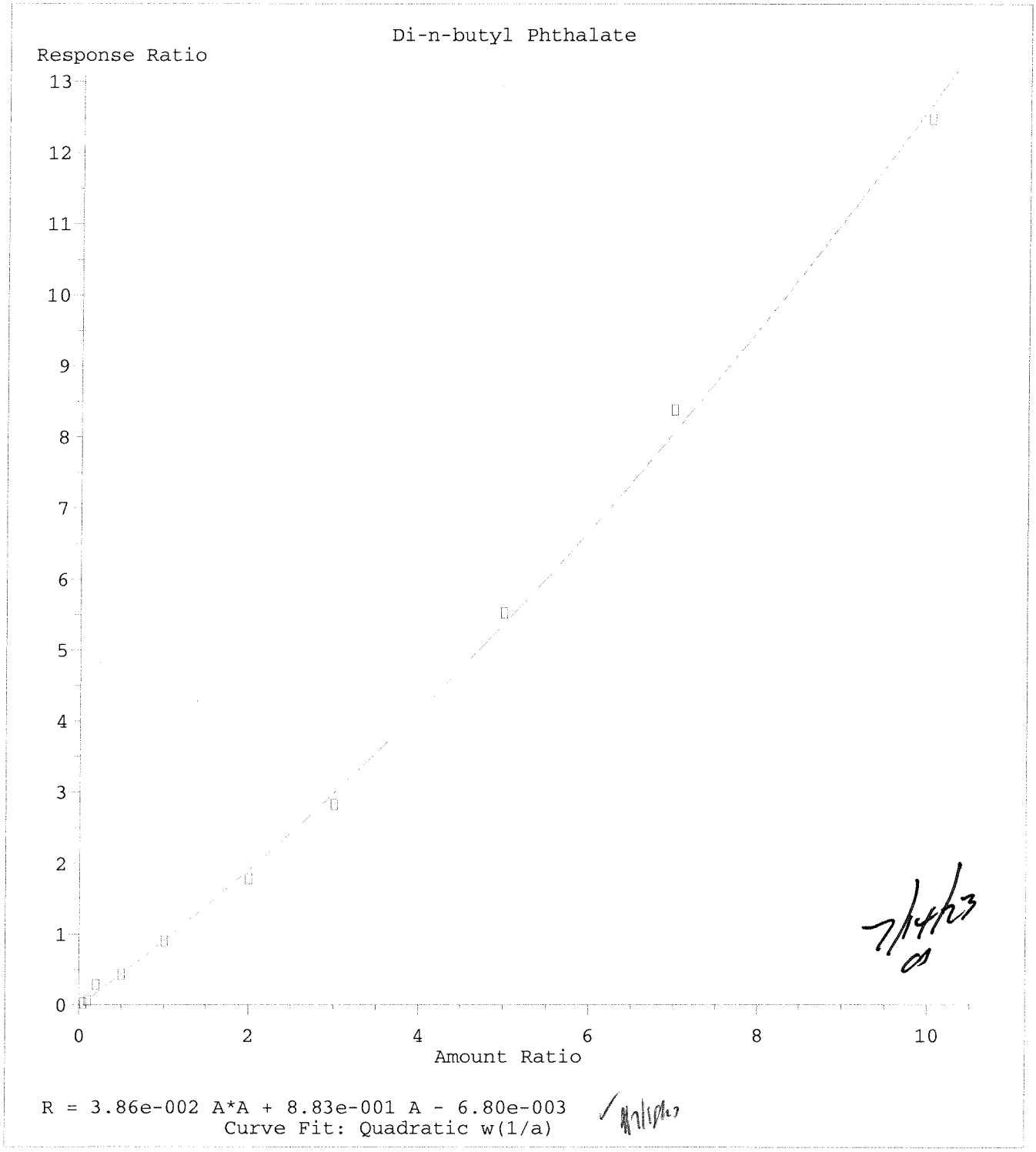
R = 3.77e-003 A*A + 9.00e-001 A - 9.08e-002
Curve Fit: Quadratic w(1/a)

7/14/23

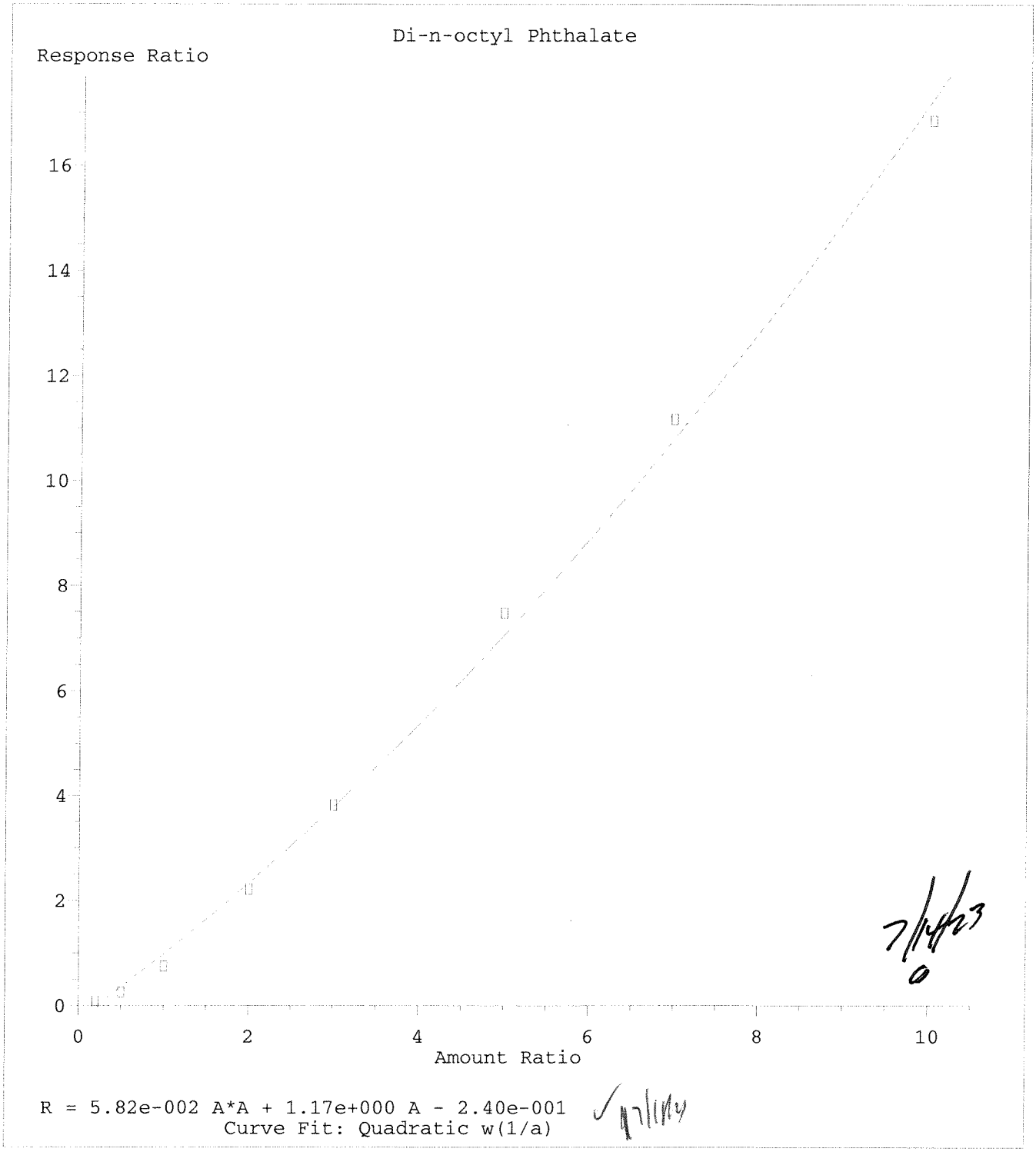
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



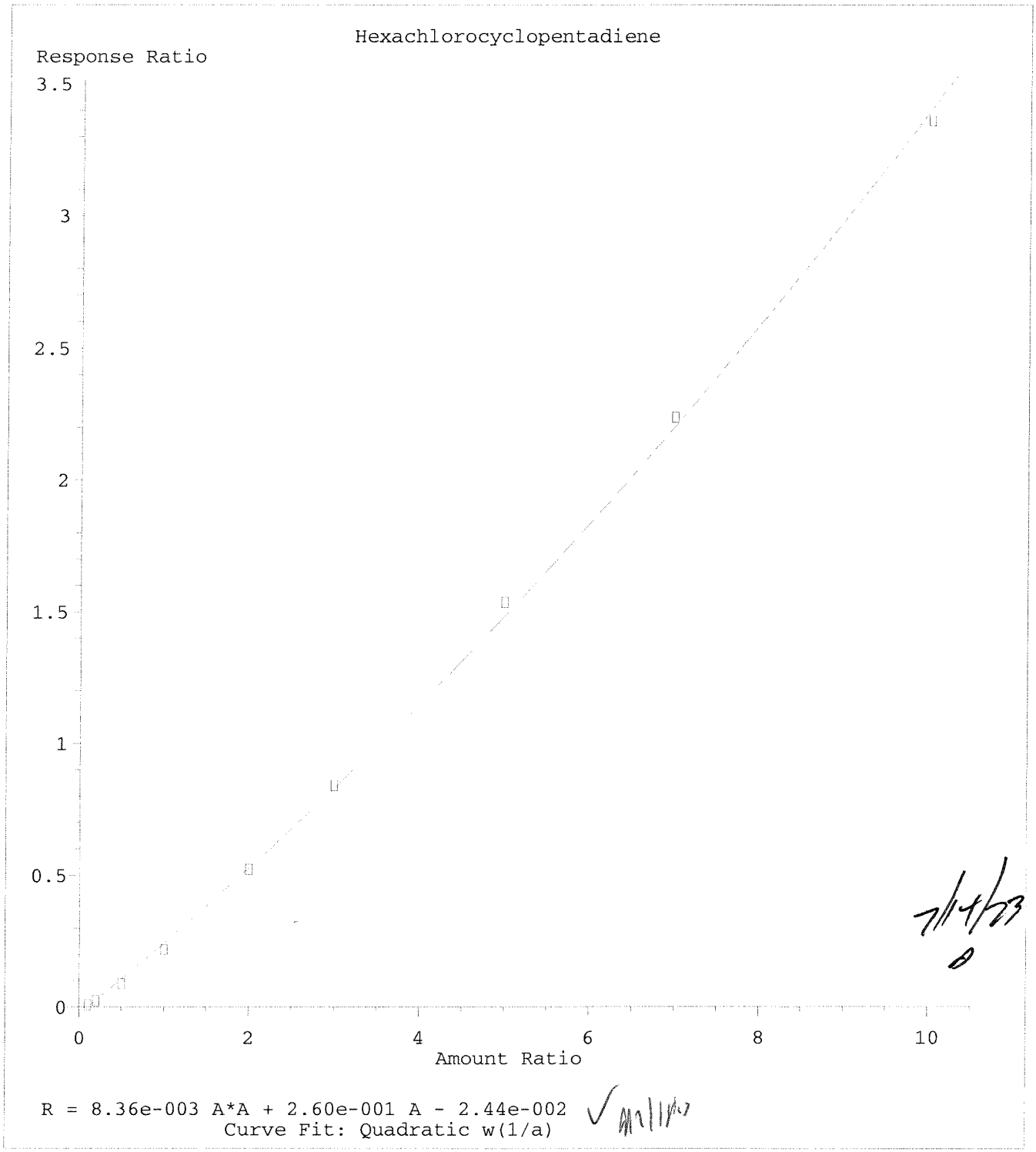
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



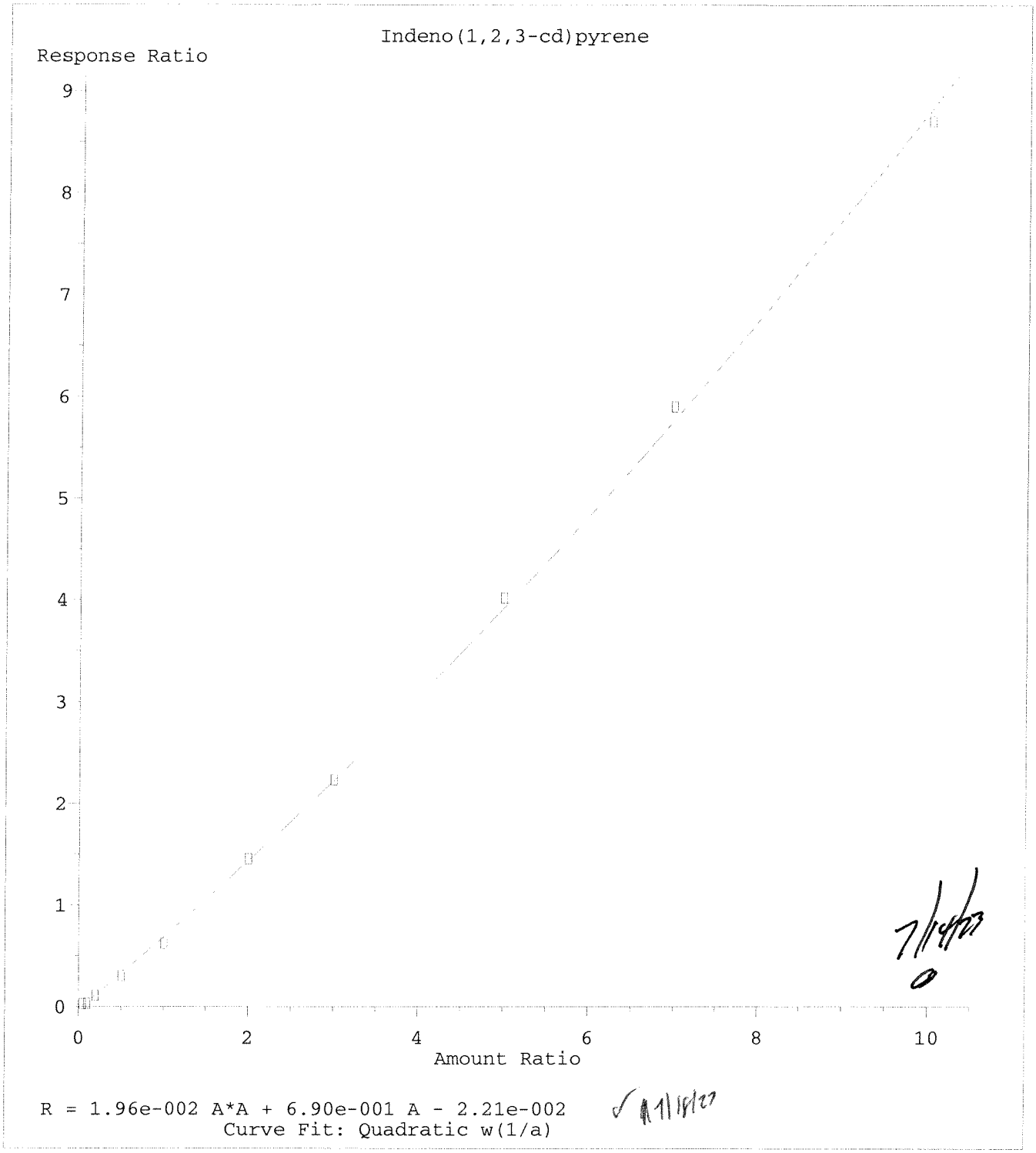
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



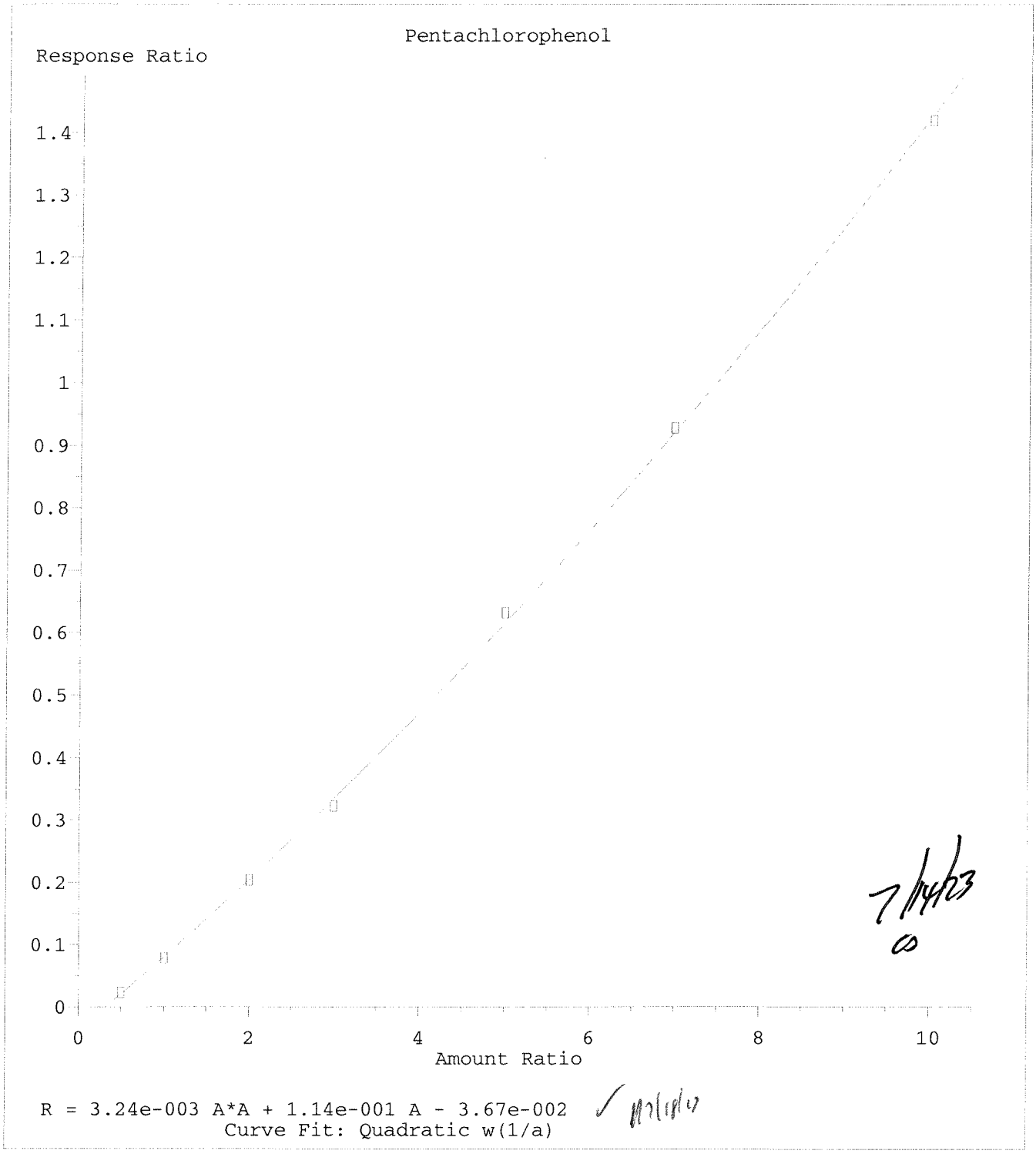
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



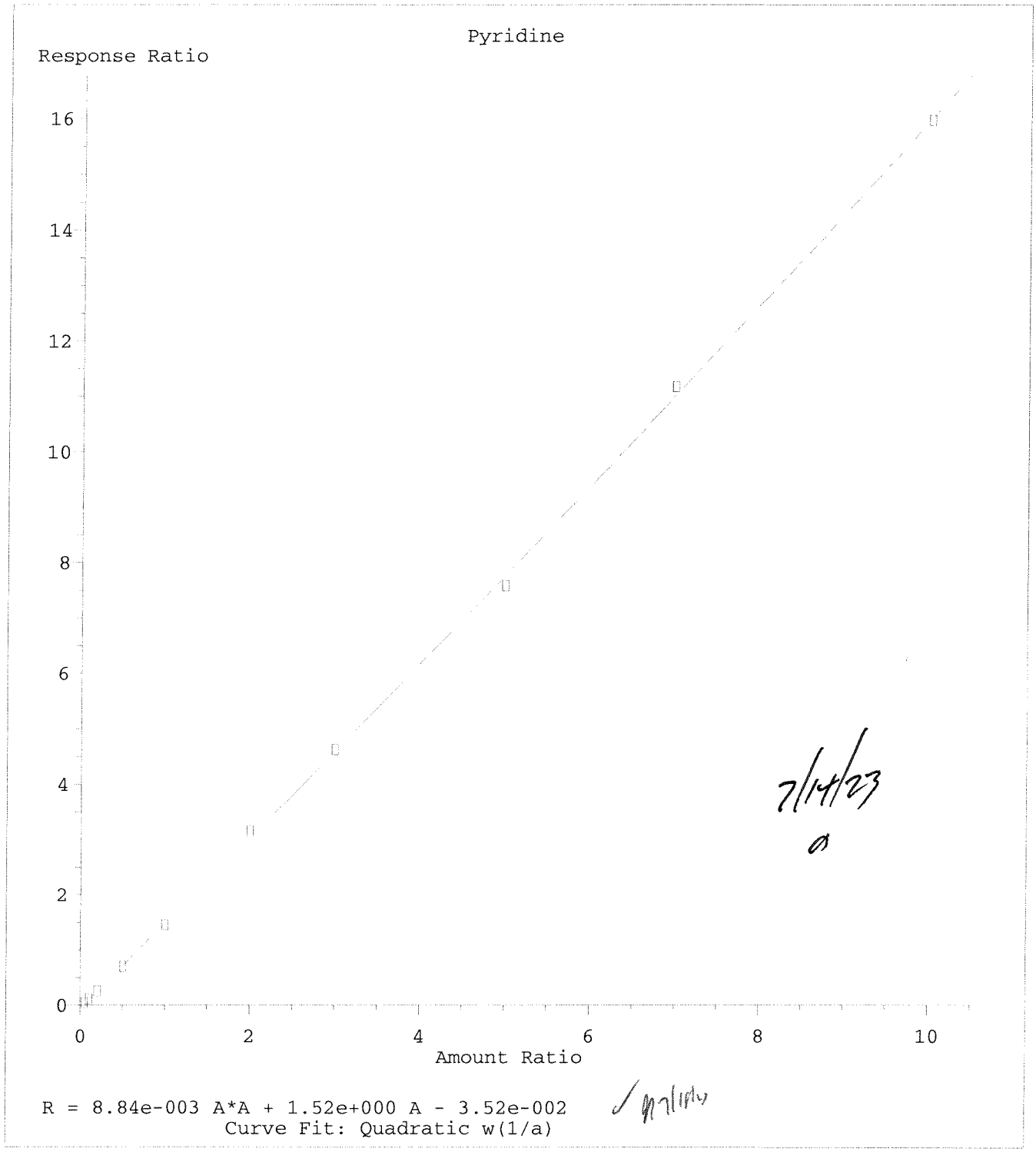
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023



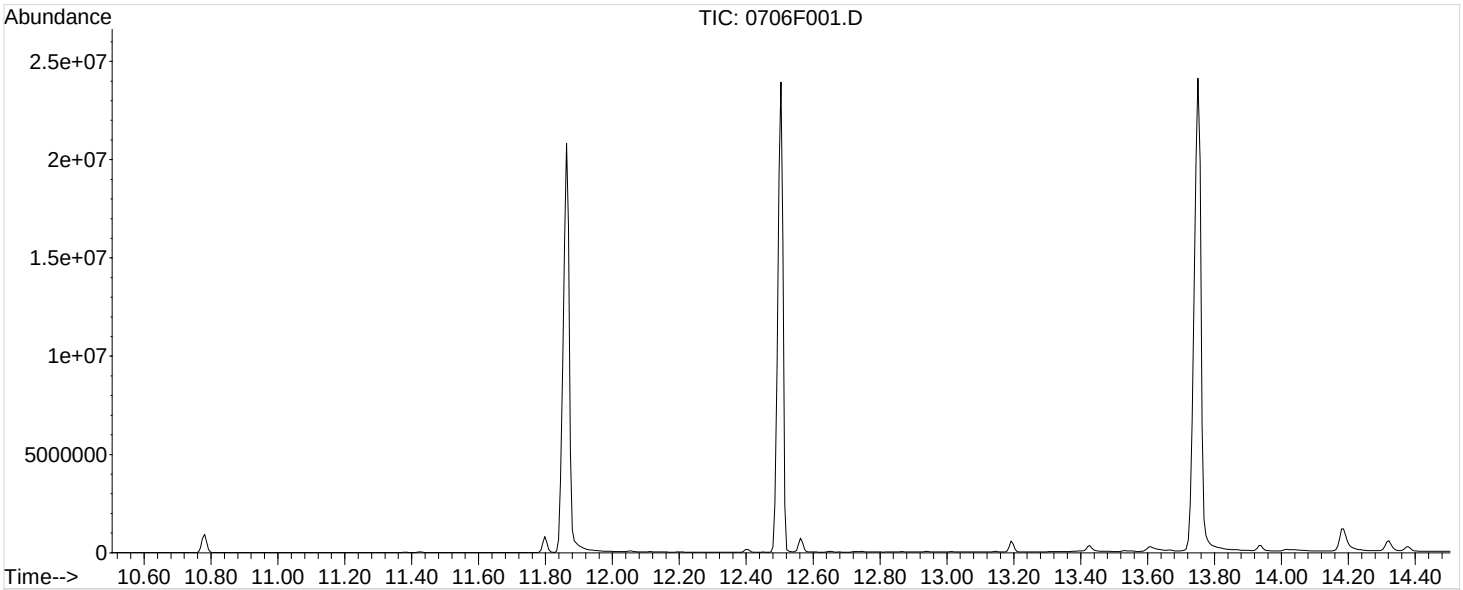
Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023

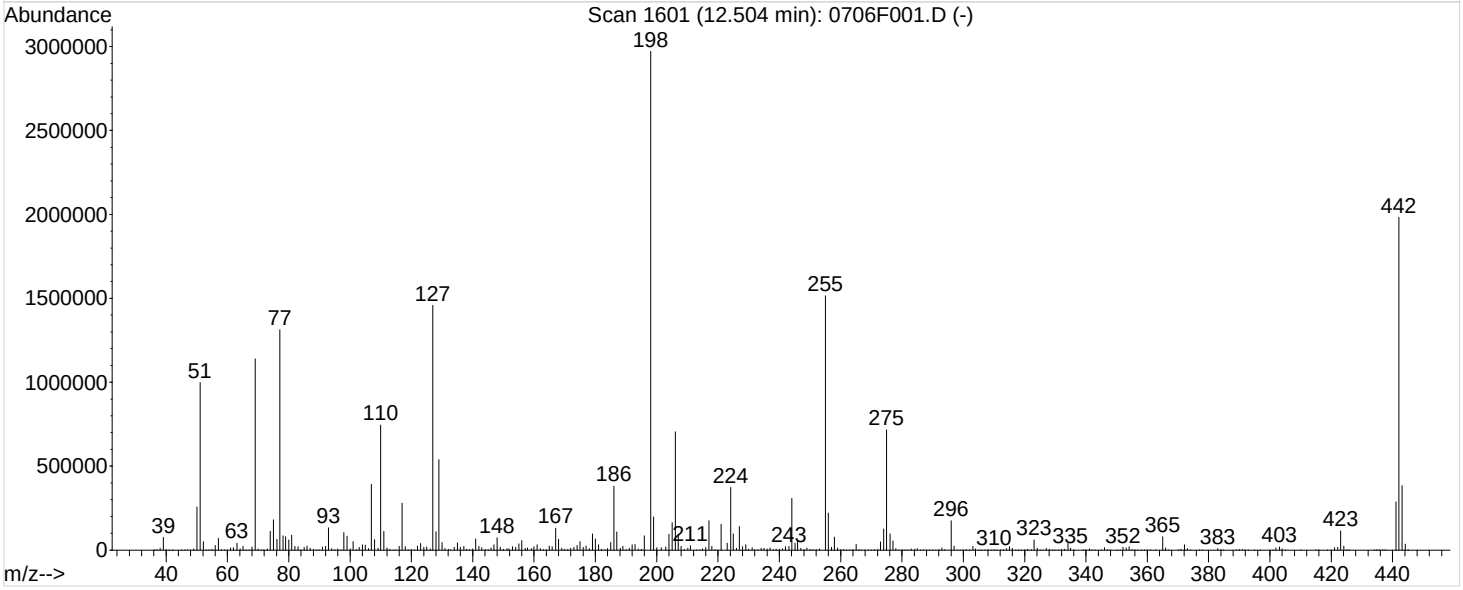


Method Name: J:\MS29\METHODS\SCAN\070623_BNALL.M
Calibration Table Last Updated: Fri Jul 14 11:41:30 2023

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F001.D Vial: 1
Acq On : 6 Jul 2023 10:53 am Operator: CSD
Sample : TUNE SVM70-19C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : J:\MS29\METHODS\SCAN\060723_BNALL.M (RTE Integrator)
Title : 8270LL ICAL





Spectrum Information: Scan 1601

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.6	999203	PASS
68	69	0.00	2	1.6	17796	PASS
69	198	0.00	100	38.4	1140230	PASS
70	69	0.00	2	0.5	6098	PASS
127	198	10	80	49.1	1458688	PASS
197	198	0.00	2	0.0	0	PASS
198	198	30	100	100.0	2971136	PASS
199	198	5	9	6.6	197248	PASS
275	198	10	60	24.1	715648	PASS
365	198	1	50	2.7	79936	PASS
441	443	0.01	100	75.0	287680	PASS
442	198	30	100	66.7	1981440	PASS
443	442	15	24	19.3	383360	PASS

1st CO 07/14/23
2nd 07/18/23

Scan 1601 (12.504 min): 0706F001.D
TUNE SVM70-19C
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	127	49.05	6610	59.95	505	71.00	693
37.05	3946	50.10	256000	61.05	12415	71.90	511
38.05	11435	51.05	999203	62.00	14394	73.05	7640
39.05	75315	52.10	51216	63.05	41802	74.00	112552
40.05	2755	53.05	1956	64.10	5960	75.00	179456
41.10	1534	53.90	209	65.05	21662	76.10	63184
42.00	103	55.00	4269	66.05	1063	77.10	1313017
45.00	1697	56.00	28484	67.05	1121	78.10	85642
46.10	156	57.00	69827	68.05	17796	79.00	78462
47.00	203	58.00	3179	69.00	1140230	80.00	60936
48.00	511	59.00	823	69.95	6098	80.95	89651

Scan 1601 (12.504 min): 0706F001.D
TUNE SVM70-19C
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.00	21374	93.00	132397	104.00	30736	114.95	1256
83.00	20795	94.00	9459	105.00	28775	116.00	21160
83.95	1809	95.00	2197	105.95	9412	116.95	279993
85.00	15960	96.00	6227	106.95	392643	118.00	19976
86.00	23106	97.05	1838	108.00	61361	118.95	2696
87.00	11143	98.00	103648	109.10	10160	119.95	4577
88.00	4380	99.00	83749	110.00	743909	121.00	1576
89.10	1830	100.00	7783	111.00	110863	122.00	24856
89.90	398	101.00	51016	112.00	13043	123.00	38644
90.95	18888	102.00	2435	112.95	4539	124.00	16085
92.00	22080	103.00	16456	114.20	975	125.00	17317

Scan 1601 (12.504 min): 0706F001.D
TUNE SVM70-19C
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.10	6816	137.10	22016	148.00	72632	159.10	9419
127.00	1458688	138.00	4574	149.00	15407	160.00	20760
128.00	108928	138.95	2270	150.00	4285	161.00	30960
128.95	539261	139.95	6205	151.20	8774	162.00	8992
130.00	44462	141.00	65003	151.80	6139	163.10	2124
130.95	8794	142.00	22152	153.00	20440	164.00	3539
132.05	4253	142.95	15166	154.00	16768	165.00	23540
132.85	1862	144.10	3958	155.00	37624	165.95	19348
134.00	15403	145.00	3274	156.00	57064	167.00	131444
135.00	42918	146.00	12388	157.10	11455	168.00	64181
136.00	17256	146.95	32169	157.90	12016	169.00	11308

Scan 1601 (12.504 min): 0706F001.D
TUNE SVM70-19C
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.00	4919	181.00	30784	192.00	31048	205.00	163712
171.00	4988	182.00	4945	192.95	33089	206.10	703936
172.00	11055	183.10	2762	194.00	6950	207.05	90286
173.00	15599	184.00	8385	195.00	4420	208.00	21928
174.00	27264	185.00	45576	196.00	84616	209.00	5674
175.00	50960	186.00	381184	198.00	2971136	210.20	11347
176.00	16159	187.00	107376	199.00	197248	211.00	25728
177.00	23792	188.10	10862	200.00	15087	213.00	1672
178.00	7916	189.00	21968	201.50	14471	214.10	701
179.00	95929	190.00	3457	203.00	17400	215.00	7164
180.00	66280	191.10	10410	204.00	93704	216.00	14176

Scan 1601 (12.504 min): 0706F001.D
TUNE SVM70-19C
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
217.00	174720	229.95	4838	241.00	8216	252.00	2674
218.00	22704	231.10	13578	242.00	19744	253.00	6052
219.00	2419	232.00	2301	243.10	21592	255.00	1515520
221.05	154244	233.00	2570	244.10	308736	256.00	220864
223.00	40200	234.00	10015	245.10	40448	257.00	17272
224.10	373248	235.00	10889	246.00	54464	258.00	76904
225.00	96768	236.00	7348	247.00	11090	259.00	13052
226.00	9905	237.00	11803	248.00	2757	260.00	2481
227.00	141056	238.00	2219	249.00	11660	261.00	2590
228.00	20960	239.00	5758	250.00	2458	261.90	434
229.00	31992	240.00	4665	251.00	2670	263.00	630

Scan 1601 (12.504 min): 0706F001.D

1st CO 07/14/23
2nd 07/18/23

TUNE SVM70-19C
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
264.00	2553	275.00	715648	286.00	1666	298.00	1697
265.00	32824	276.10	95632	287.00	235	299.00	452
265.95	3824	277.00	55160	288.00	580	299.90	268
266.90	309	278.00	8408	289.00	1994	301.00	2544
267.90	345	279.00	1728	290.00	2045	302.10	3109
269.00	307	280.10	366	291.00	1323	303.10	21144
270.00	1958	281.00	339	292.10	2727	304.00	6111
271.10	2843	282.00	1457	293.00	13255	305.10	786
272.10	3975	283.00	6247	294.00	3341	306.00	267
273.00	48136	284.10	4535	296.00	174976	307.00	312
274.00	124296	285.00	9478	297.00	24776	308.00	2426

Scan 1601 (12.504 min): 0706F001.D
TUNE SVM70-19C
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
309.10	1702	320.00	843	331.10	337	345.00	230
310.00	2459	321.00	5484	332.00	4609	346.00	13654
311.00	573	322.10	3515	333.00	5811	347.00	2419
312.10	629	323.10	60440	334.10	38784	347.90	398
313.10	2127	324.10	11434	335.00	10627	350.10	455
314.10	8344	325.10	1068	336.10	1347	351.10	1479
315.00	19432	326.00	1274	339.10	920	352.10	16736
316.00	10975	327.00	11150	340.00	865	353.10	12177
317.10	1802	328.10	5585	341.10	6801	354.10	19752
318.00	193	329.00	934	342.00	2005	355.00	3490
318.90	405	329.90	307	343.00	327	356.00	275

Scan 1601 (12.504 min): 0706F001.D
TUNE SVM70-19C
Modified:subtracted

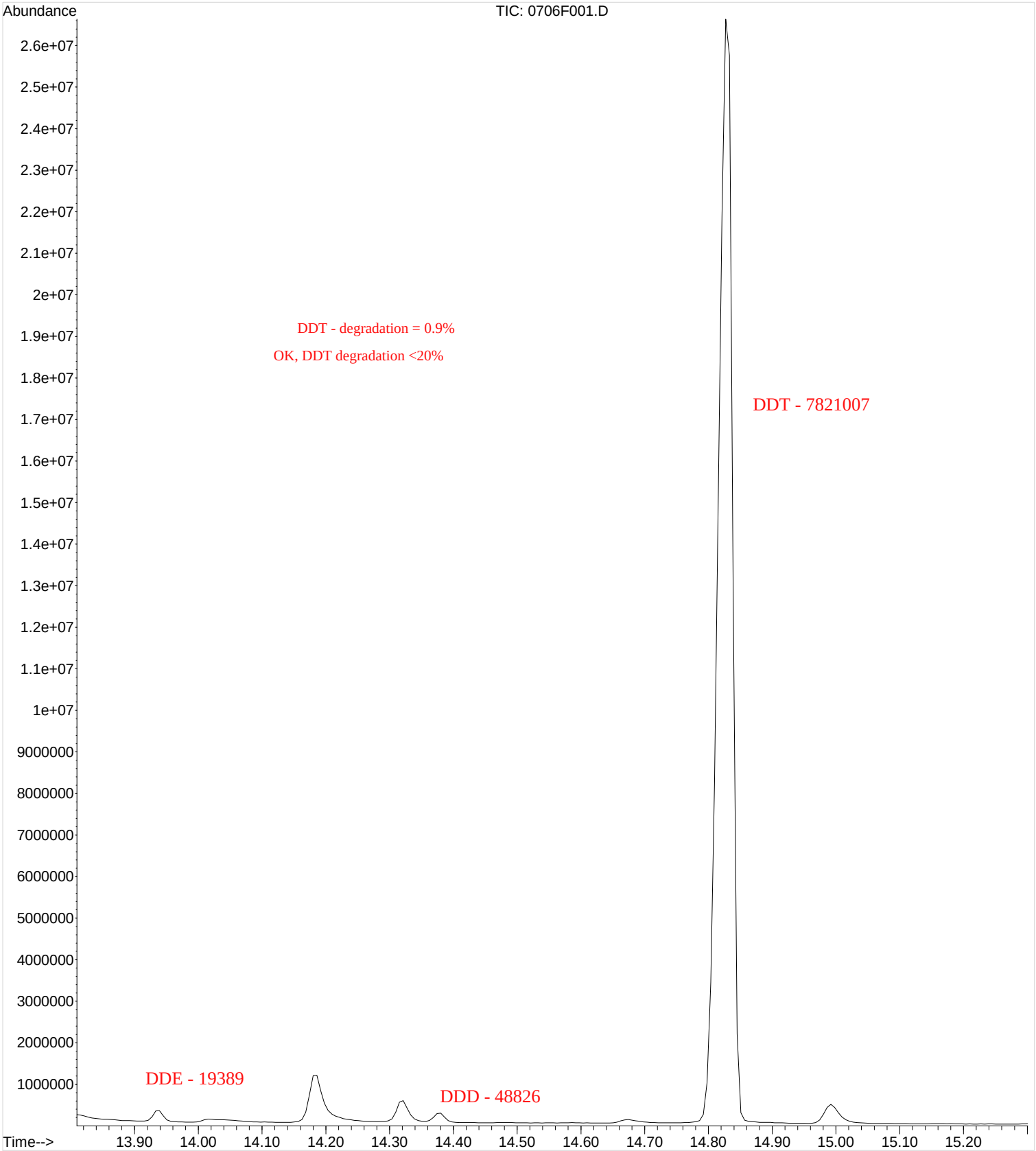
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
356.90	292	372.10	32360	392.00	2046	416.10	307
358.00	386	373.10	8405	393.00	497	418.80	209
359.10	1254	374.10	1001	395.00	339	419.90	377
360.00	443	377.00	983	397.00	452	421.10	15338
361.10	519	377.90	151	401.00	1973	422.10	16090
362.70	222	383.00	7808	402.00	13063	423.10	114184
365.00	79936	384.00	2549	403.10	17304	424.10	24496
366.00	11632	384.90	793	404.00	6376	425.10	2363
367.00	847	389.00	227	405.00	1031	426.00	200
370.10	1720	390.10	3872	410.10	427	434.00	165
371.00	4925	391.00	3235	415.00	797	434.70	240

Scan 1601 (12.504 min): 0706F001.D
TUNE SVM70-19C
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
435.20	258						
435.80	339						
436.70	633						
437.30	911						
437.90	1093						
441.10	287680						
442.10	1981440						
443.10	383360						
444.10	35752						
445.10	2139						

1st CO 07/14/23
2nd 07/18/23

File : J:\MS29\DATA\070623\0706F001.D
Operator : CSD
Acquired : 6 Jul 2023 10:53 am using AcqMethod 625_SVOLL_ZB5
Instrument : MS29
Sample Name: TUNE SVM70-19C
Misc Info :
Vial Number: 1

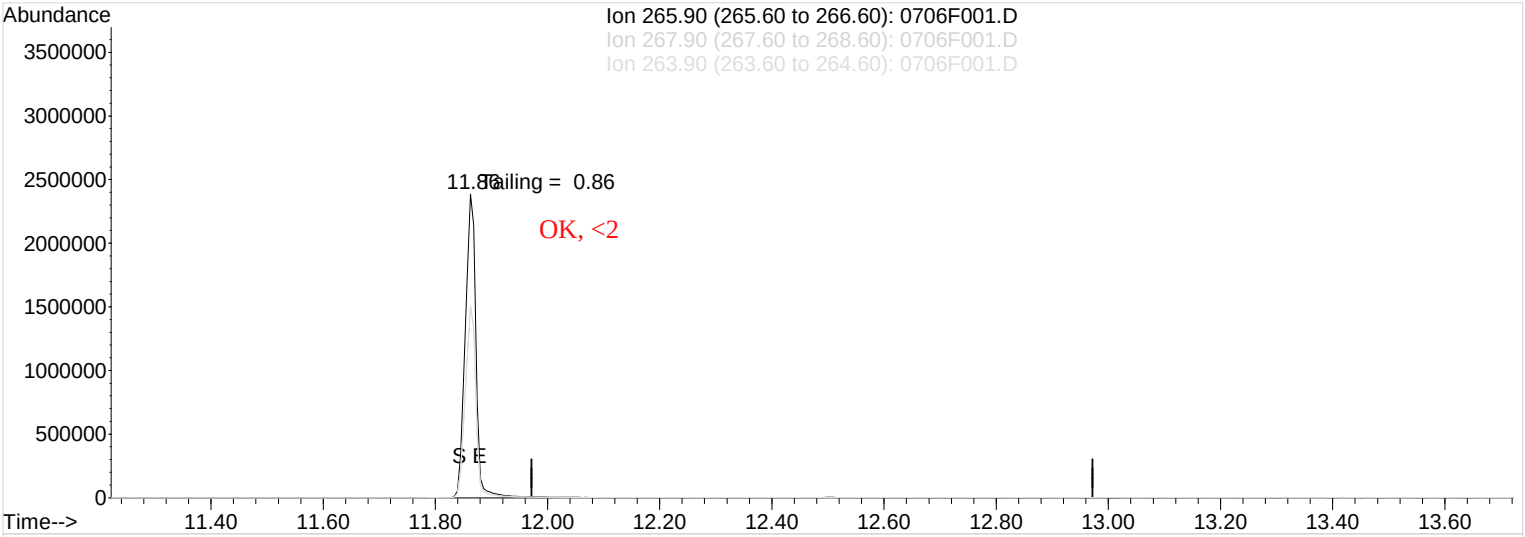


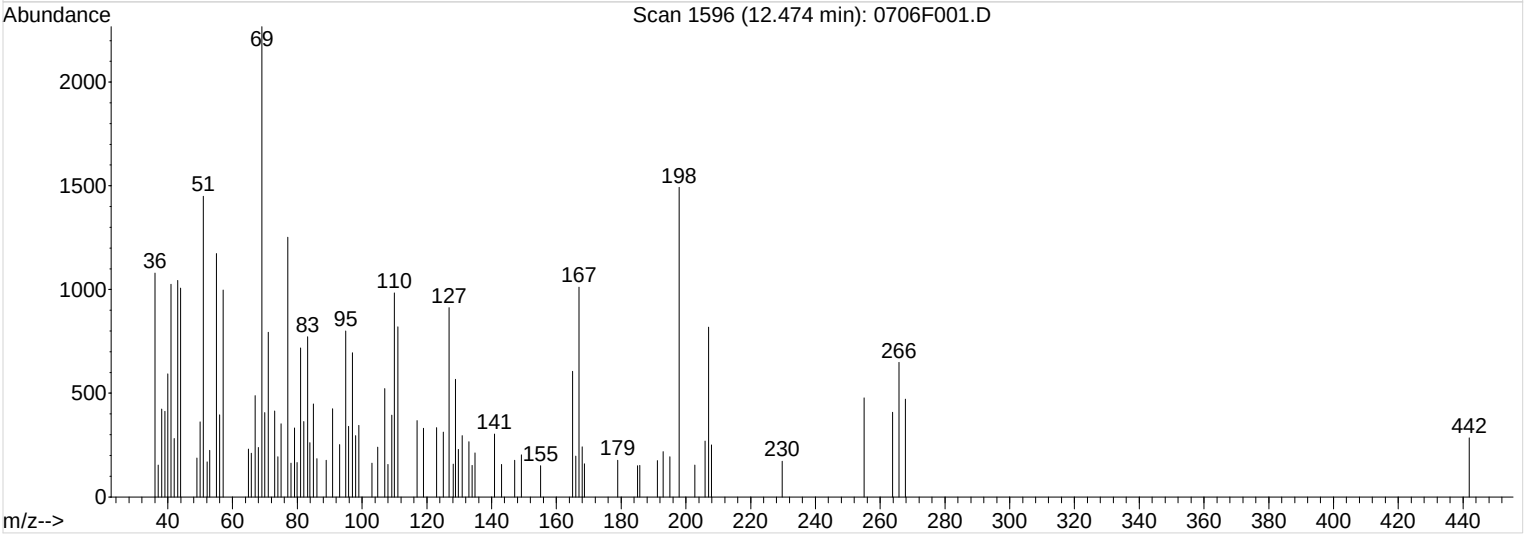
Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F001.D Vial: 1
Acq On : 6 Jul 2023 10:53 am Operator: CSD
Sample : TUNE SVM70-19C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 11:24 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\A_DFTPP.M (RTE Integrator)
Title : dftpp tune mix
Last Update : Tue Apr 18 11:45:14 2023
Response via : Single Level Calibration





TIC: 0706F001.D

(1) Pentachlorophenol (T)

12.47min 0.00ug/ml

response 0

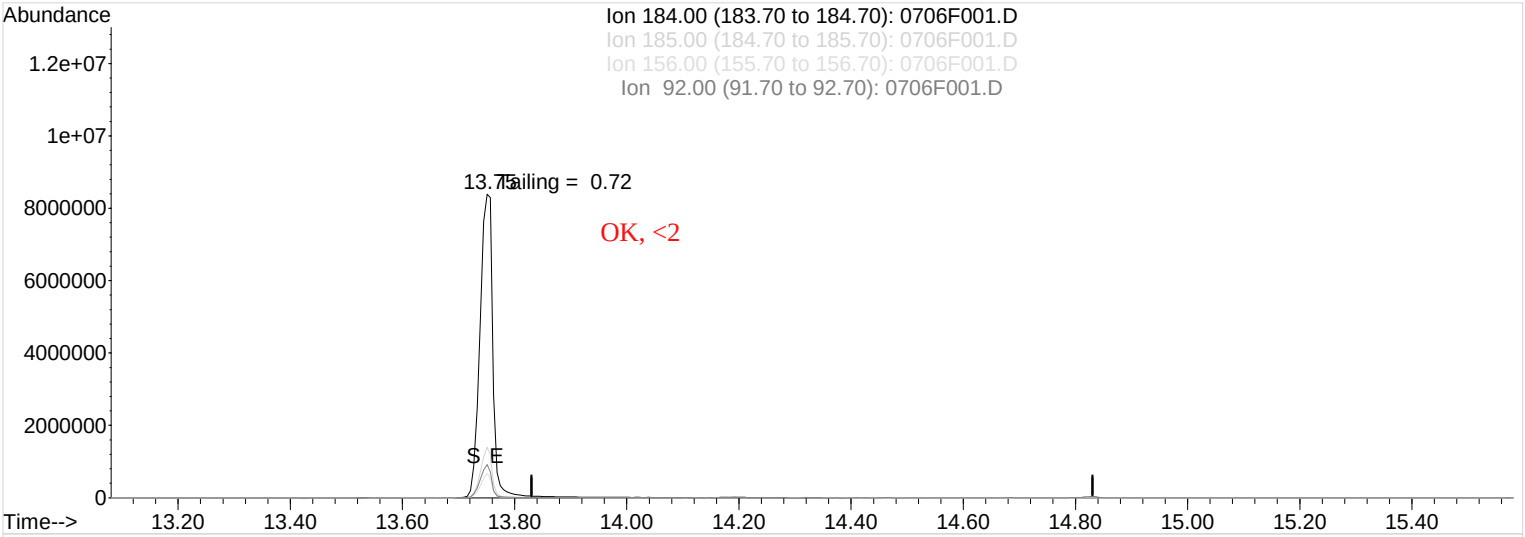
Ion	Exp%	Act%
265.90	100	0.00
267.90	62.70	0.00#
263.90	63.80	0.00#
0.00	0.00	0.00

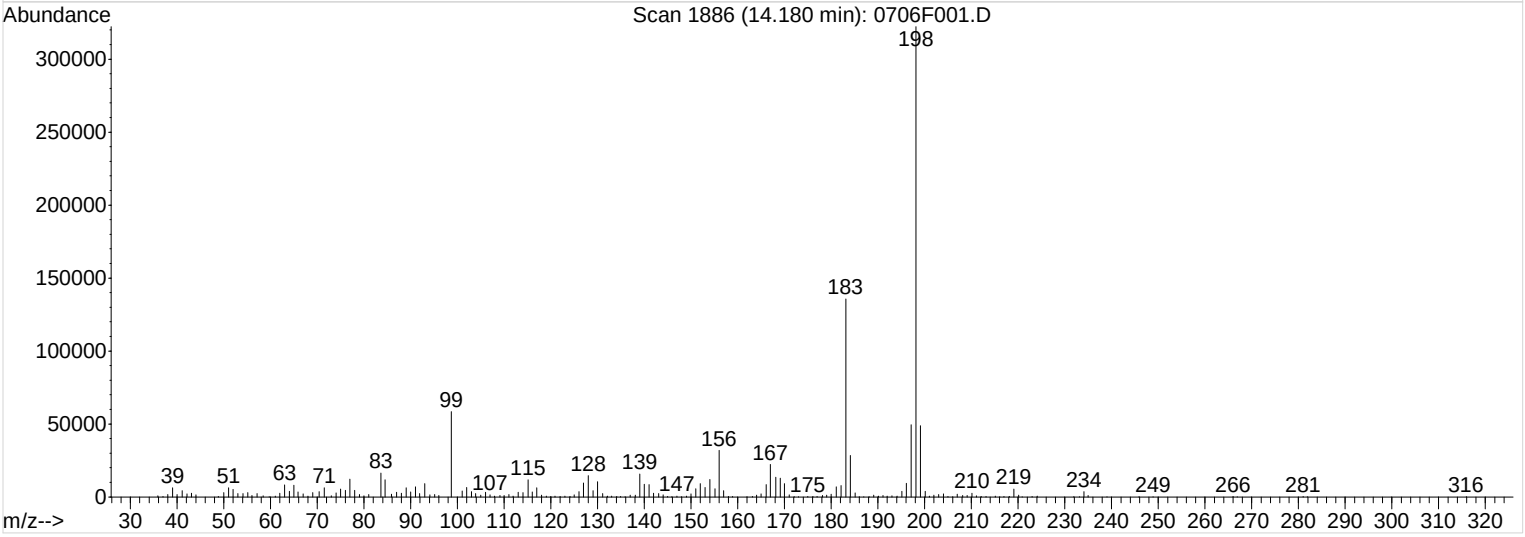
Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F001.D Vial: 1
Acq On : 6 Jul 2023 10:53 am Operator: CSD
Sample : TUNE SVM70-19C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 11:26 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\A_DFTPP.M (RTE Integrator)
Title : dftpp tune mix
Last Update : Tue Apr 18 11:45:14 2023
Response via : Single Level Calibration





TIC: 0706F001.D

(3) Benzidine (T)

14.18min 0.18ug/ml

response 45608

Ion	Exp%	Act%
184.00	100	100
185.00	15.10	8.38
156.00	7.50	129.02#
92.00	11.00	7.92

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 10:35:47 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	147770	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.36	136	560512	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.79	164	279620	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	438824	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	241411	1000.00	ng/ml	0.00
77) Perylene-d12	18.76	264	207502	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	6616	37.02	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 0.99%#			
6) Phenol-d6	4.71	99	7449	35.97	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 0.96%#			
19) Nitrobenzene-d5	5.57	82	6466	35.76	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 1.43%#			
39) 2-Fluorobiphenyl	8.30	172	14927	41.35	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 1.65%#			
60) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng/ml	
Spiked Amount 3750.000	Range 38 - 157		Recovery = 0.00%#			
71) Terphenyl-d14	14.02	244	11996	47.54	ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 1.90%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.15	42	4017	41.82	ng/ml	83
3) Pyridine	3.18	79	6800	31.57	ng/ml	91
5) Bis(2-chloroethyl) Ether	4.83	93	9073	44.73	ng/ml	97
7) Phenol	4.72	94	8336	36.73	ng/ml	99
8) Aniline	4.79	93	8571	56.32	ng/ml	99
9) 2-Chlorophenol	4.89	128	6779	36.02	ng/ml	95
10) 1,3-Dichlorobenzene	5.03	146	10303	47.27	ng/ml	96
11) 1,4-Dichlorobenzene	5.09	146	10512	46.53	ng/ml	96
12) 1,2-Dichlorobenzene	5.22	146	9342	44.30	ng/ml	91
13) Benzyl Alcohol	5.18	108	3397	79.98	ng/ml	95
14) 2,2'-oxybis(1-chloropropan	5.29	45	11669	47.68	ng/ml	97
15) 2-Methylphenol	5.26	107	5133	35.45	ng/ml	97
16) Hexachloroethane	5.53	117	3514	41.46	ng/ml	98
17) N-Nitrosodi-n-propylamine	5.41	70	3981	31.99	ng/ml	97
18) 4-Methylphenol	5.39	107	6164	63.73	ng/ml	93
20) Nitrobenzene	5.59	77	7029	37.40	ng/ml	93
22) Isophorone	5.82	82	8798	29.37	ng/ml	97
24) 2,4-Dimethylphenol	5.92	122	4734	30.36	ng/ml	96
25) Bis(2-chloroethoxy)methane	6.05	93	7919	37.37	ng/ml	99
26) 2,4-Dichlorophenol	6.17	162	2697m	74.22	ng/ml	
27) Benzoic Acid	5.92	122	4734	708.99	ng/ml#	19
28) 1,2,4-Trichlorobenzene	6.28	180	7437	44.74	ng/ml	97
29) Naphthalene	6.39	128	26133	46.48	ng/ml	98
30) 4-Chloroaniline	6.46	127	3826	37.17	ng/ml	91
31) Hexachlorobutadiene	6.52	225	4065	44.68	ng/ml	95
33) 2-Methylnaphthalene	7.47	141	12027	38.60	ng/ml	94
34) 1-Methylnaphthalene	7.67	141	14030	44.17	ng/ml	98
40) 2-Chloronaphthalene	8.60	162	11678	39.64	ng/ml	98
42) Acenaphthylene	9.52	152	14205	32.50	ng/ml	98
43) Dimethyl Phthalate	9.32	163	9287	30.19	ng/ml	99
45) Acenaphthene	9.86	154	12962	45.41	ng/ml	99
48) Dibenzofuran	10.19	168	18805	42.48	ng/ml	97
52) Fluorene	10.76	166	11941	37.34	ng/ml	96
53) 4-Chlorophenyl Phenyl Ethe	10.80	204	6114	39.63	ng/ml	90
54) Diethyl Phthalate	10.65	149	10222m	35.99	ng/ml	
57) Diphenylamine	10.99	169	6342	31.56	ng/ml	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 10:35:47 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
58) Azobenzene	11.05	77	6583	21.12	ng/ml	97
62) Hexachlorobenzene	11.56	284	4308	40.20	ng/ml	85
64) Phenanthrene	12.14	178	21231	44.76	ng/ml	99
65) Anthracene	12.21	178	16024m	37.03	ng/ml	
66) Carbazole	12.44	167	13206	36.42	ng/ml	94
67) Di-n-butyl Phthalate	12.87	149	10876	15.38	ng/ml	97
68) Fluoranthene	13.55	202	16240	38.51	ng/ml	95
70) Pyrene	13.82	202	16196	48.73	ng/ml	93
74) Benz(a)anthracene	15.63	228	8838	72.94	ng/ml	98
75) Chrysene	15.70	228	12844	44.08	ng/ml	98
76) Bis(2-ethylhexyl) Phthalat	15.68	149	4036	119.40	ng/ml	98
78) Di-n-octyl Phthalate	17.36	149	3361	134.36	ng/ml	81
79) Benzo(b)fluoranthene	18.13	252	5883	85.79	ng/ml	93
80) Benzo(k)fluoranthene	18.19	252	7927m	31.52	ng/ml	
81) Benzo(a)pyrene	18.67	252	4531	76.05	ng/ml	82
82) Indeno(1,2,3-cd)pyrene	20.57	276	5452	96.27	ng/ml	96
83) Dibenz(a,h)anthracene	20.63	278	5419	44.00	ng/ml	83
84) Benzo(g,h,i)perylene	21.08	276	7227m	39.28	ng/ml	

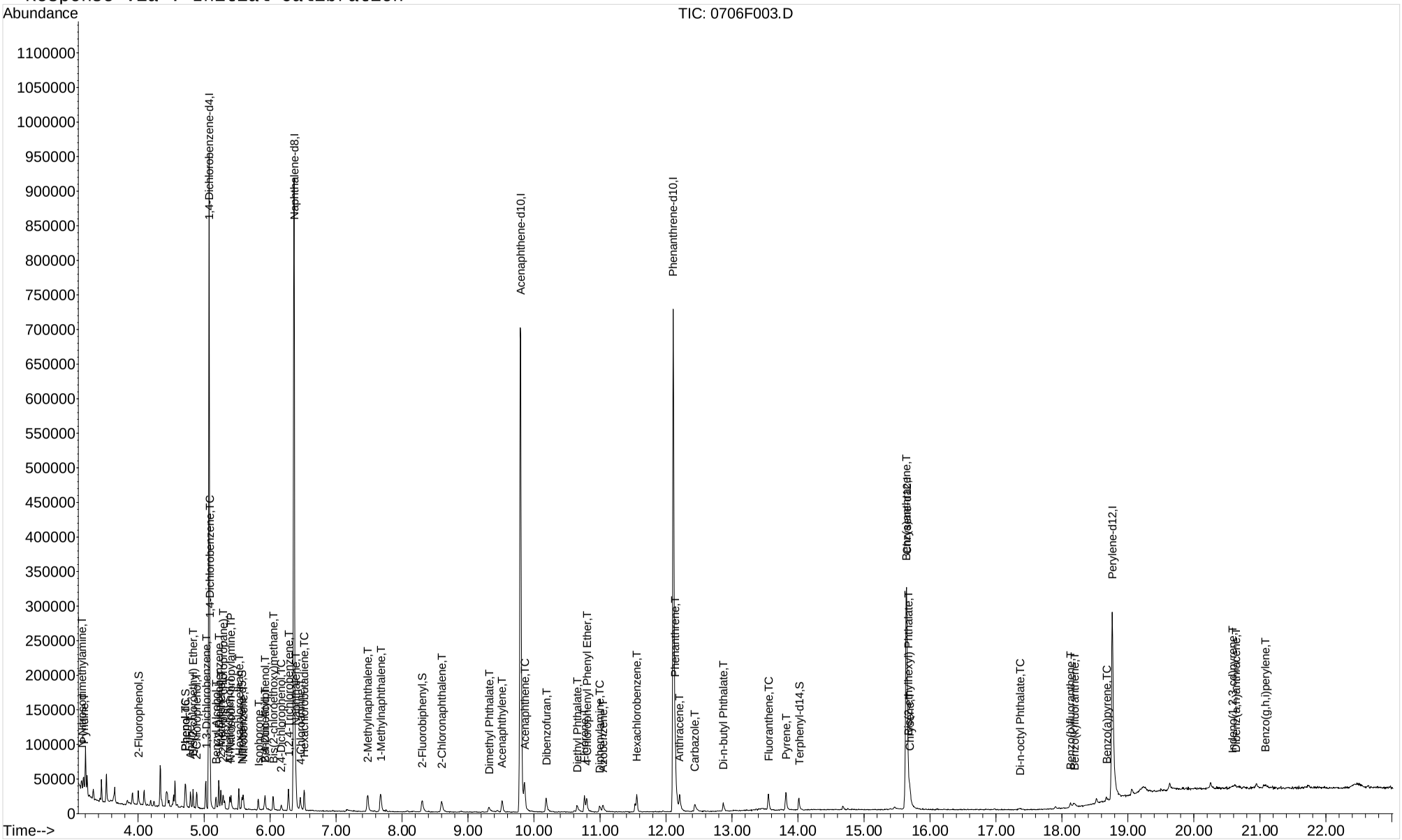
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 12:01 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

07/14/23 1st
07/18/23 2nd

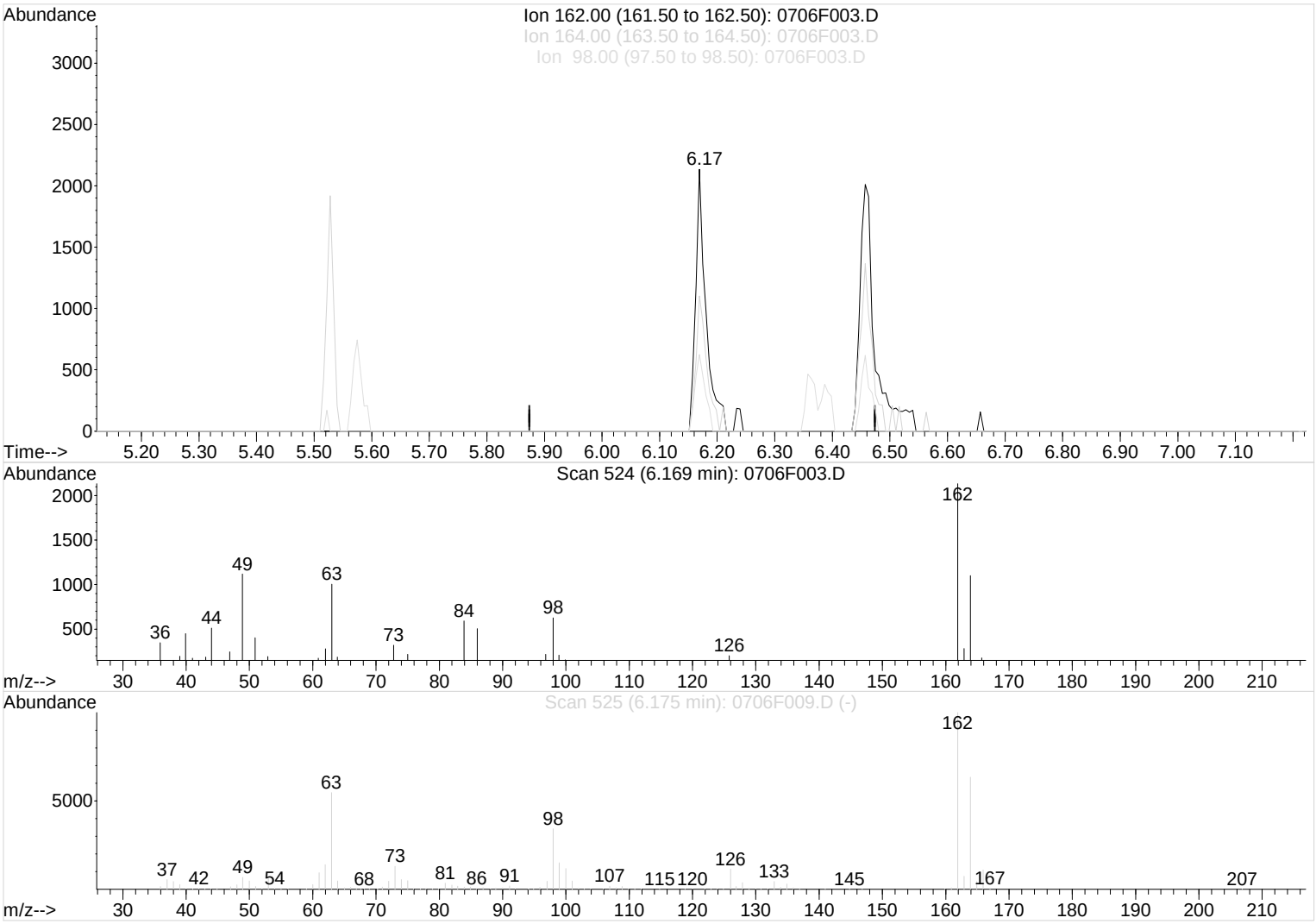


Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 10:46 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Multiple Level Calibration



TIC: 0706F003.D

(26) 2,4-Dichlorophenol (TC)

6.17min 74.22ng/ml m

response 2697

Ion	Exp%	Act%
162.00	100	100
164.00	63.40	51.57
98.00	34.20	29.27
0.00	0.00	0.00

Manual Integration:

After

Missed peak

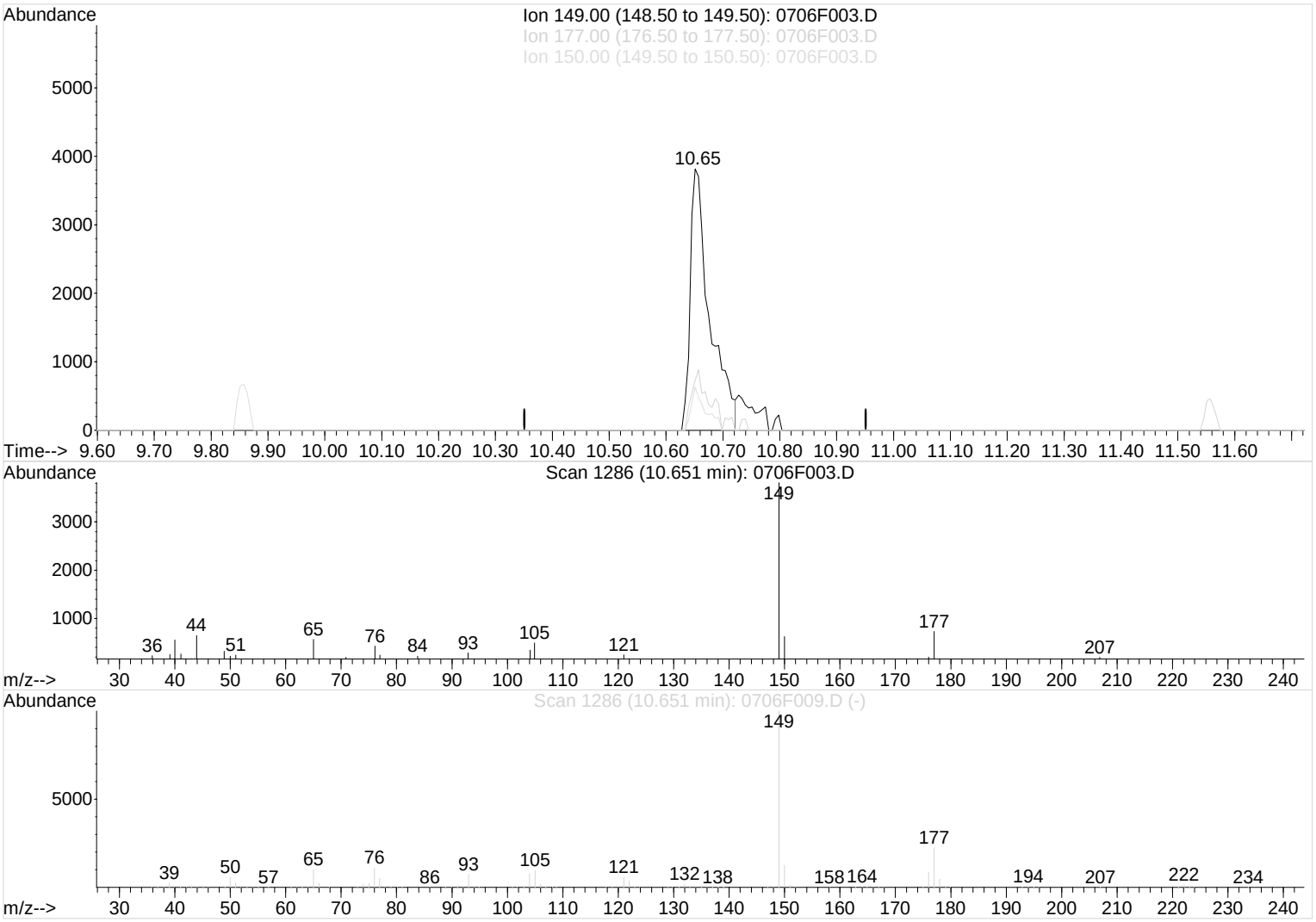
07/12/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 10:46 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Multiple Level Calibration



TIC: 0706F003.D

(54) Diethyl Phthalate (T)

10.65min 32.07ng/ml

response 9110

Ion	Exp%	Act%
149.00	100	100
177.00	22.50	19.13
150.00	12.50	16.35
0.00	0.00	0.00

Manual Integration:

Before

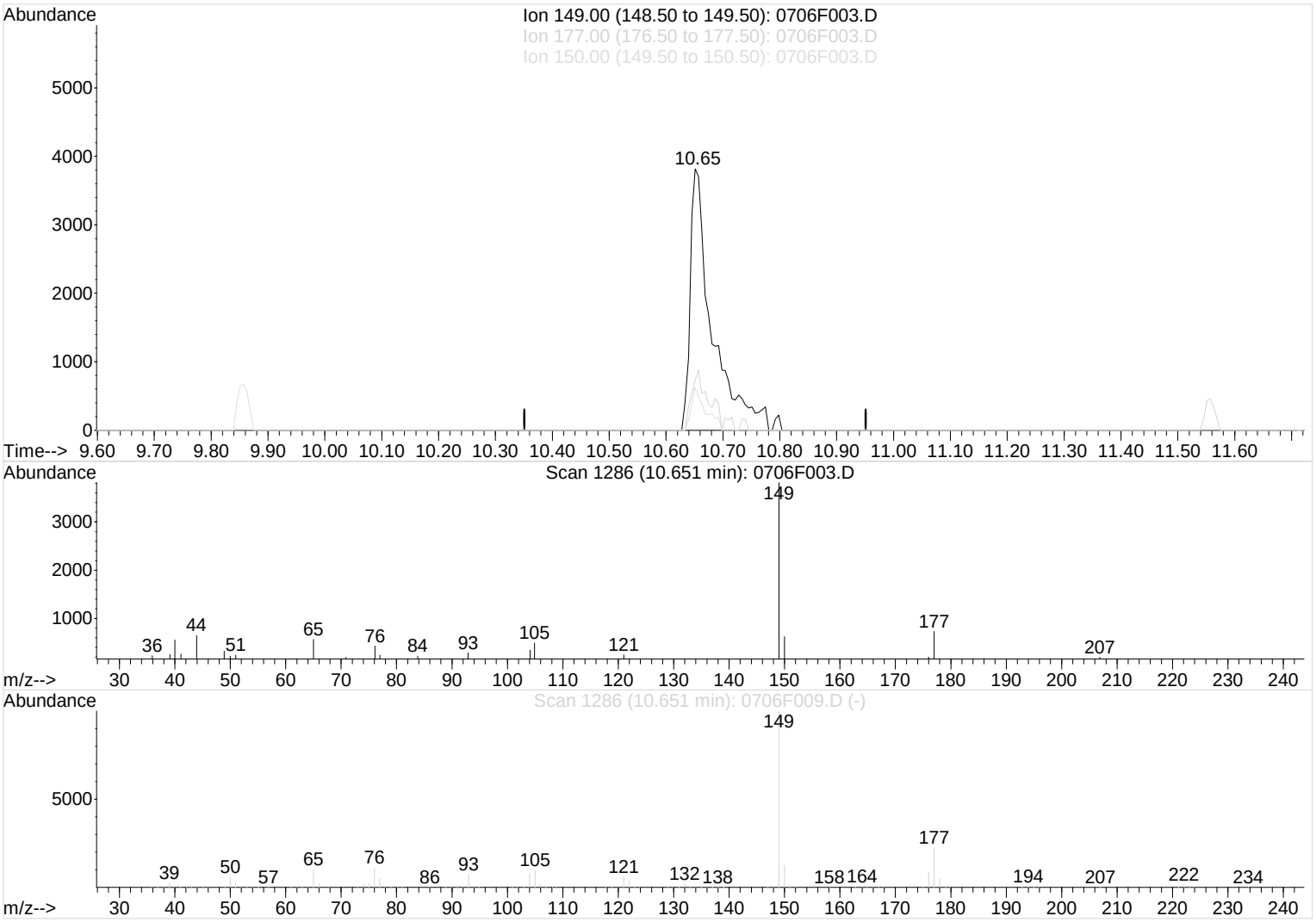
07/12/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 12:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Multiple Level Calibration



TIC: 0706F003.D

(54) Diethyl Phthalate (T)

10.65min 35.99ng/ml m

response 10222

Ion	Exp%	Act%
149.00	100	100
177.00	22.50	19.13
150.00	12.50	16.35
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

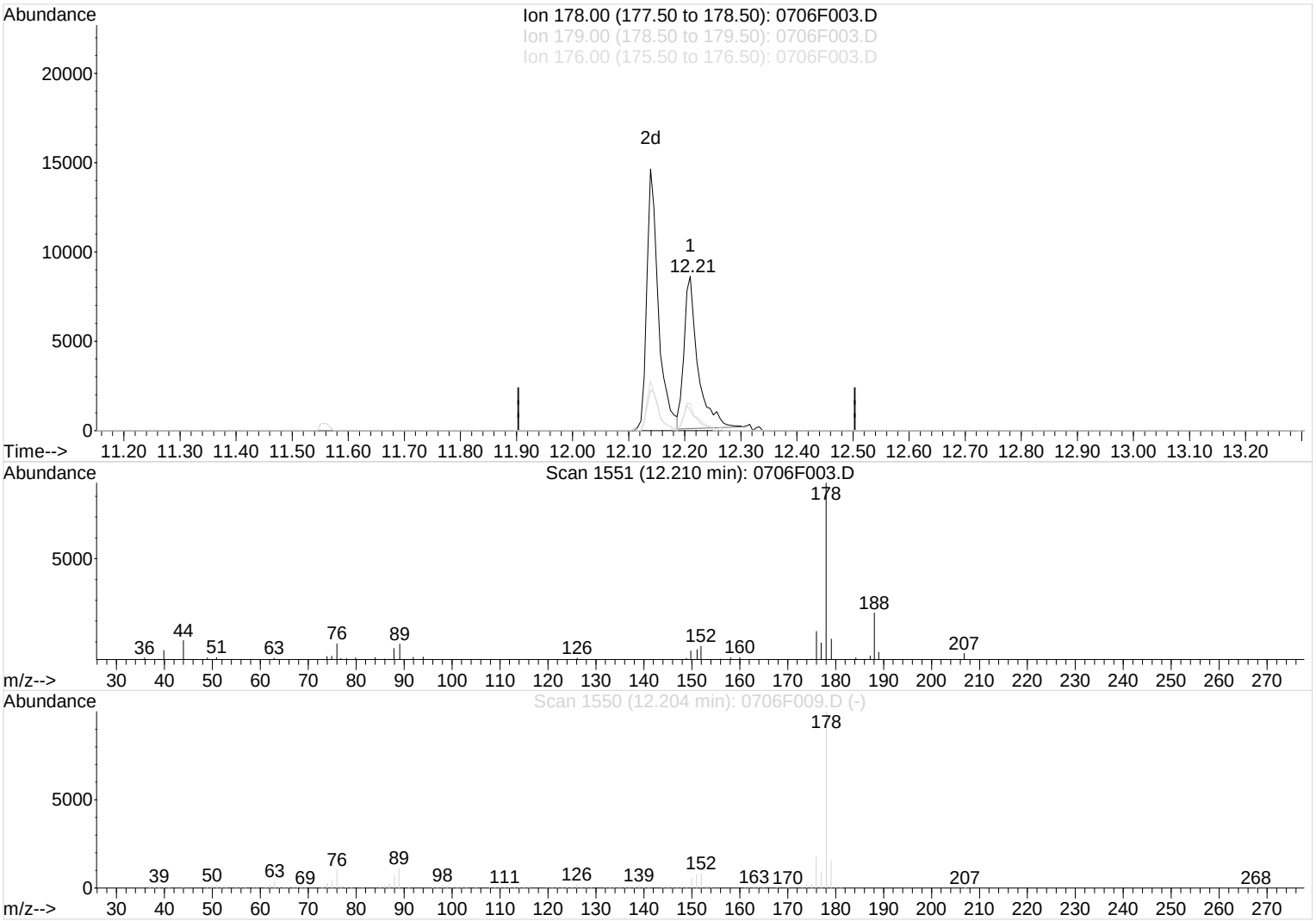
07/12/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 12:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Multiple Level Calibration



TIC: 0706F003.D

(65) Anthracene (T)

12.21min 33.48ng/ml

response 14490

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	13.38
176.00	18.00	17.84
0.00	0.00	0.00

Manual Integration:

Before

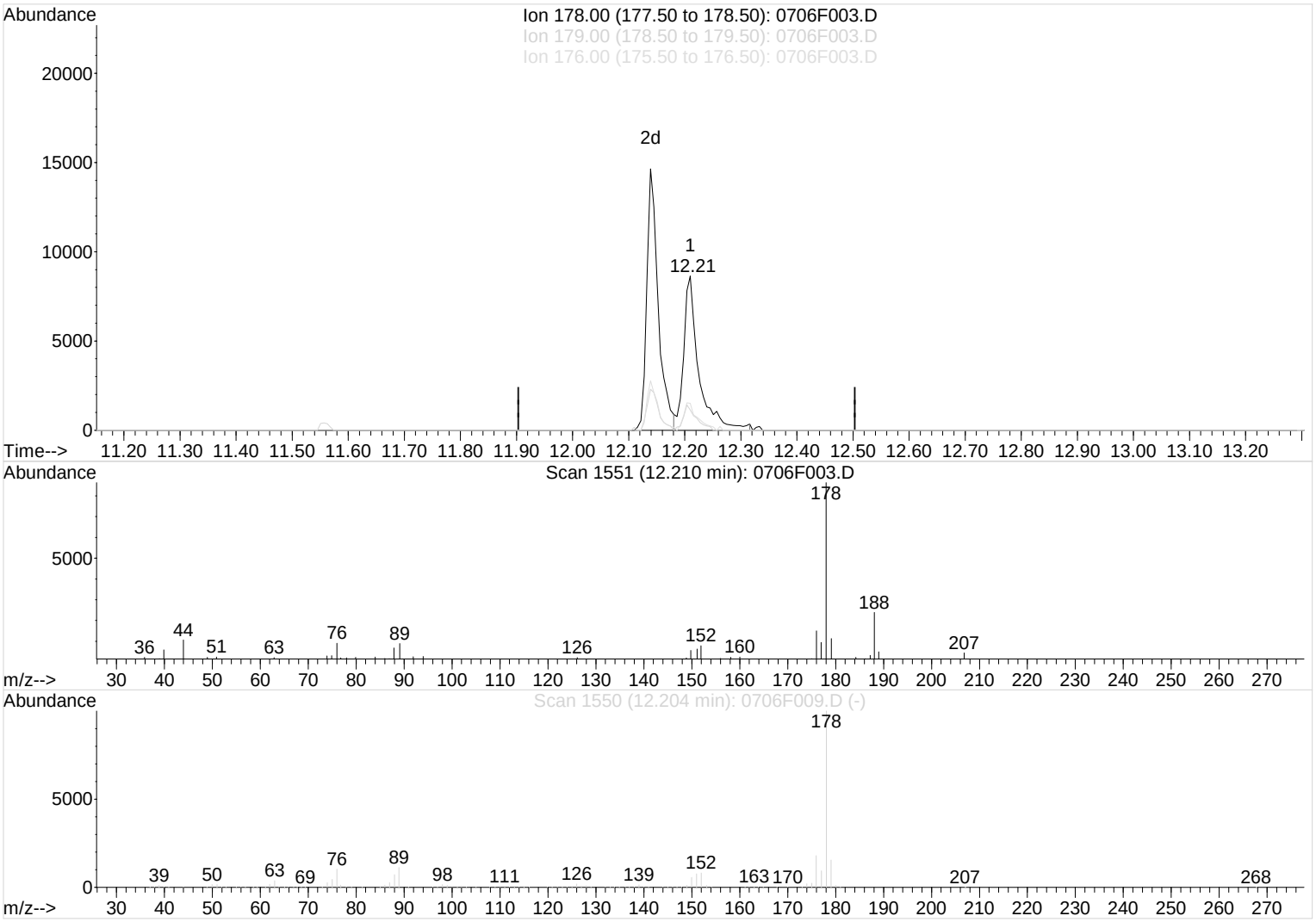
07/12/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 12:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Multiple Level Calibration



TIC: 0706F003.D

(65) Anthracene (T)

12.21min 37.03ng/ml m

response 16024

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	13.05
176.00	18.00	17.41
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

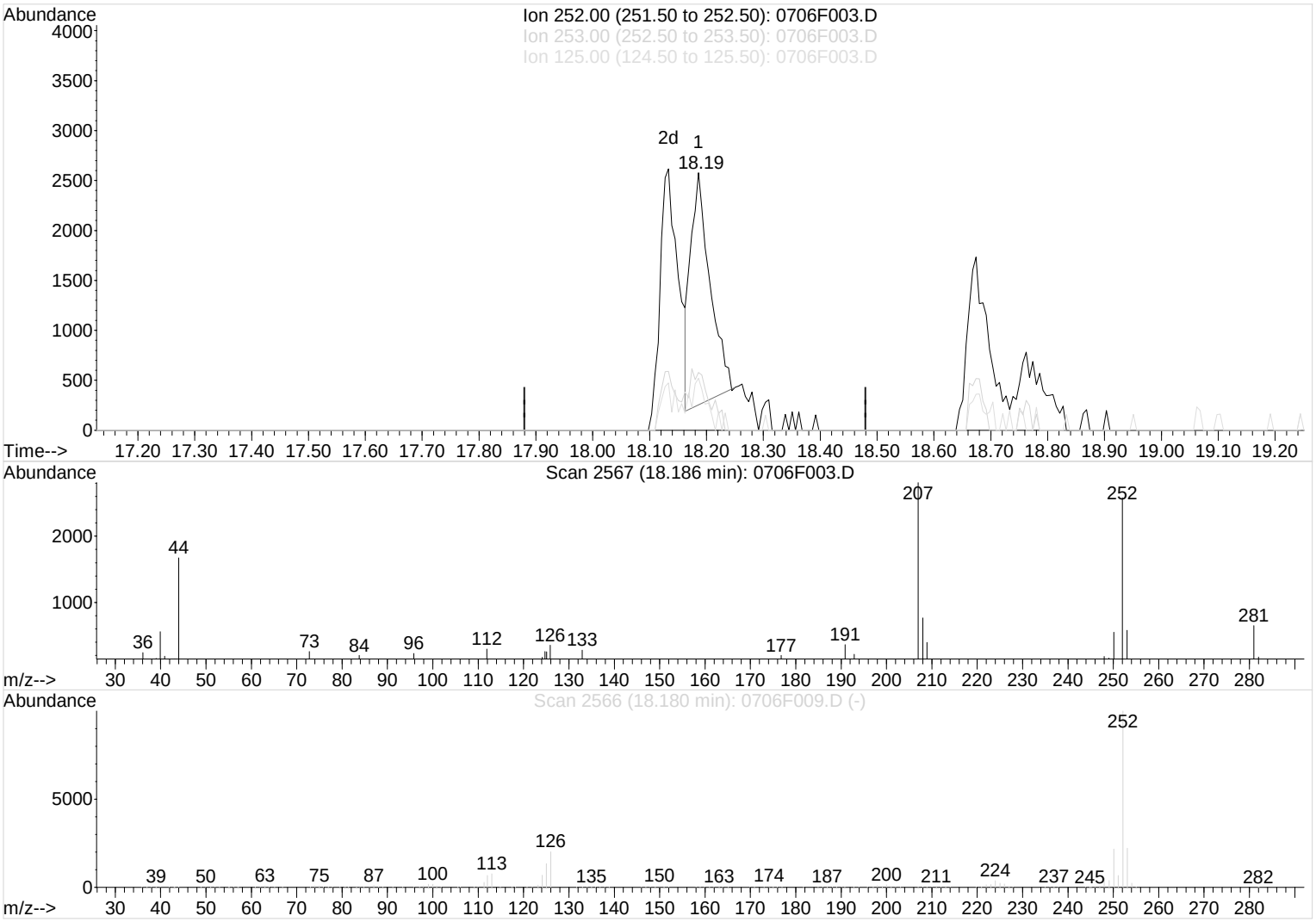
07/12/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 12:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Multiple Level Calibration



TIC: 0706F003.D

(80) Benzo(k)fluoranthene (T)

18.19min 22.07ng/ml

response 5552

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	26.92
125.00	13.20	24.13
0.00	0.00	0.00

Manual Integration:

Before

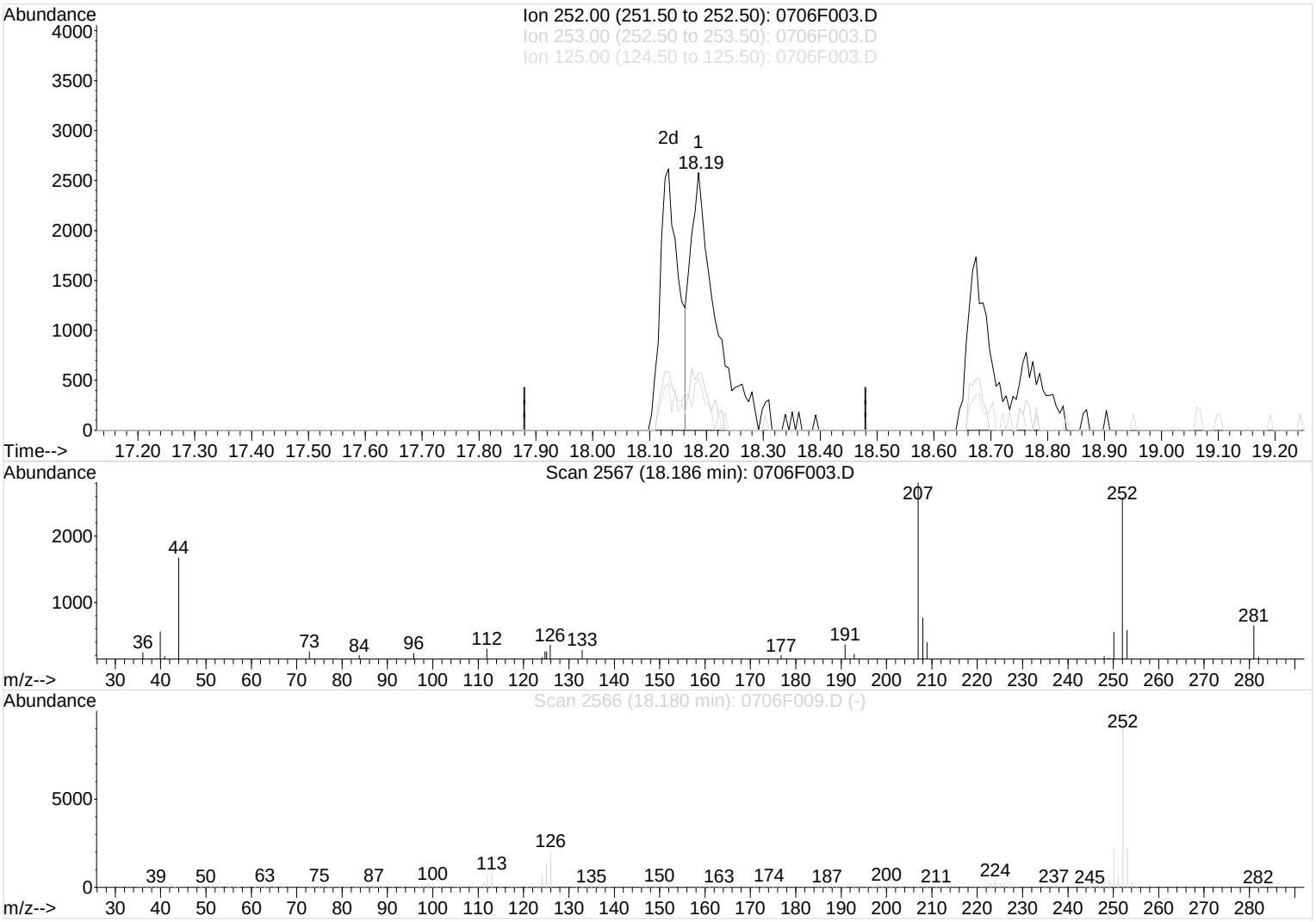
07/12/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 12:01 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Multiple Level Calibration



TIC: 0706F003.D

(80) Benzo(k)fluoranthene (T)

18.19min 31.52ng/ml m

response 7927

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.45
125.00	13.20	10.16
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

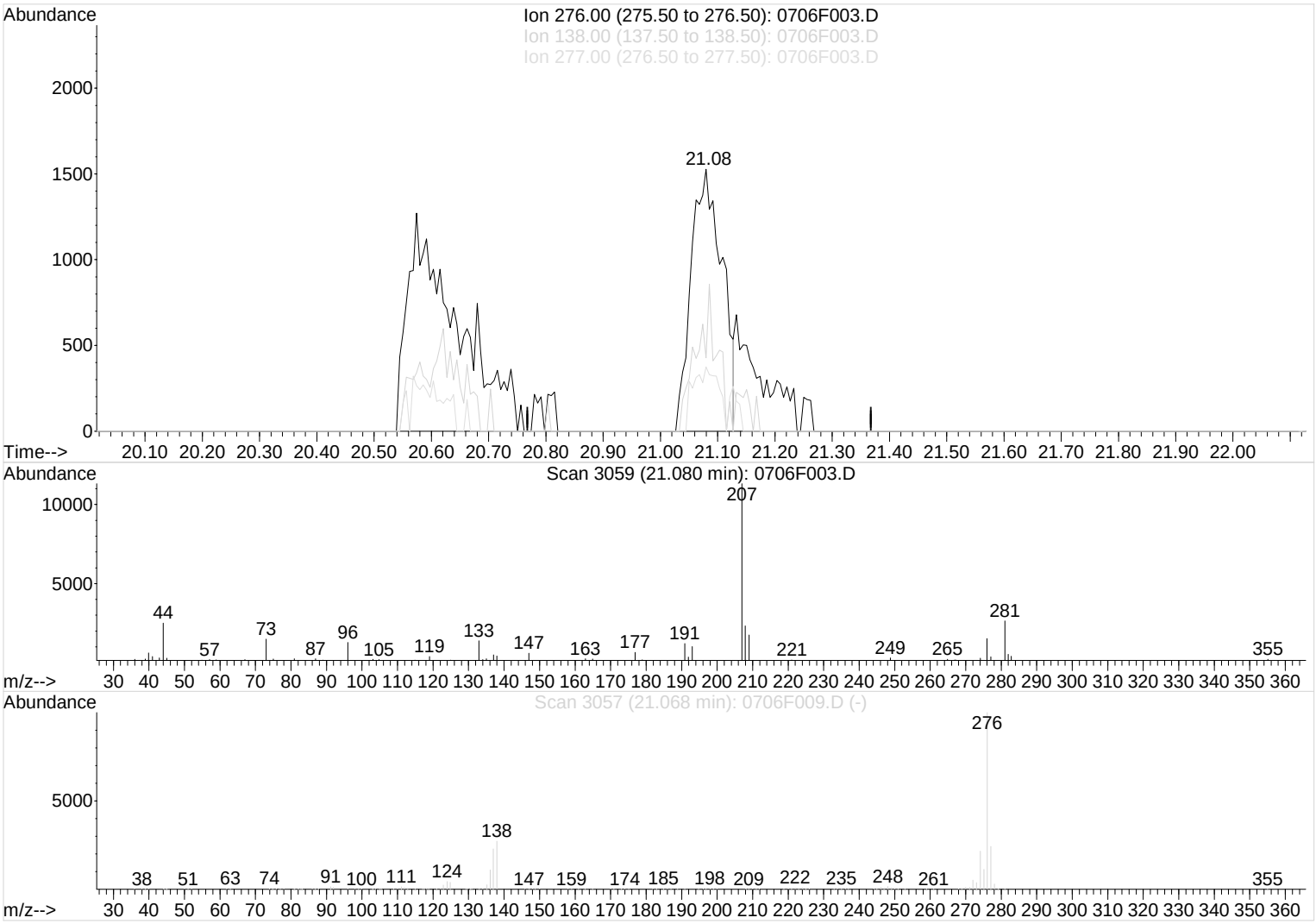
07/12/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 12:01 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Multiple Level Calibration



TIC: 0706F003.D

(84) Benzo(g,h,i)perylene (T)

21.08min 31.11ng/ml

response 5723

Ion	Exp%	Act%
276.00	100	100
138.00	27.10	28.03
277.00	24.10	24.56
0.00	0.00	0.00

Manual Integration:

Before

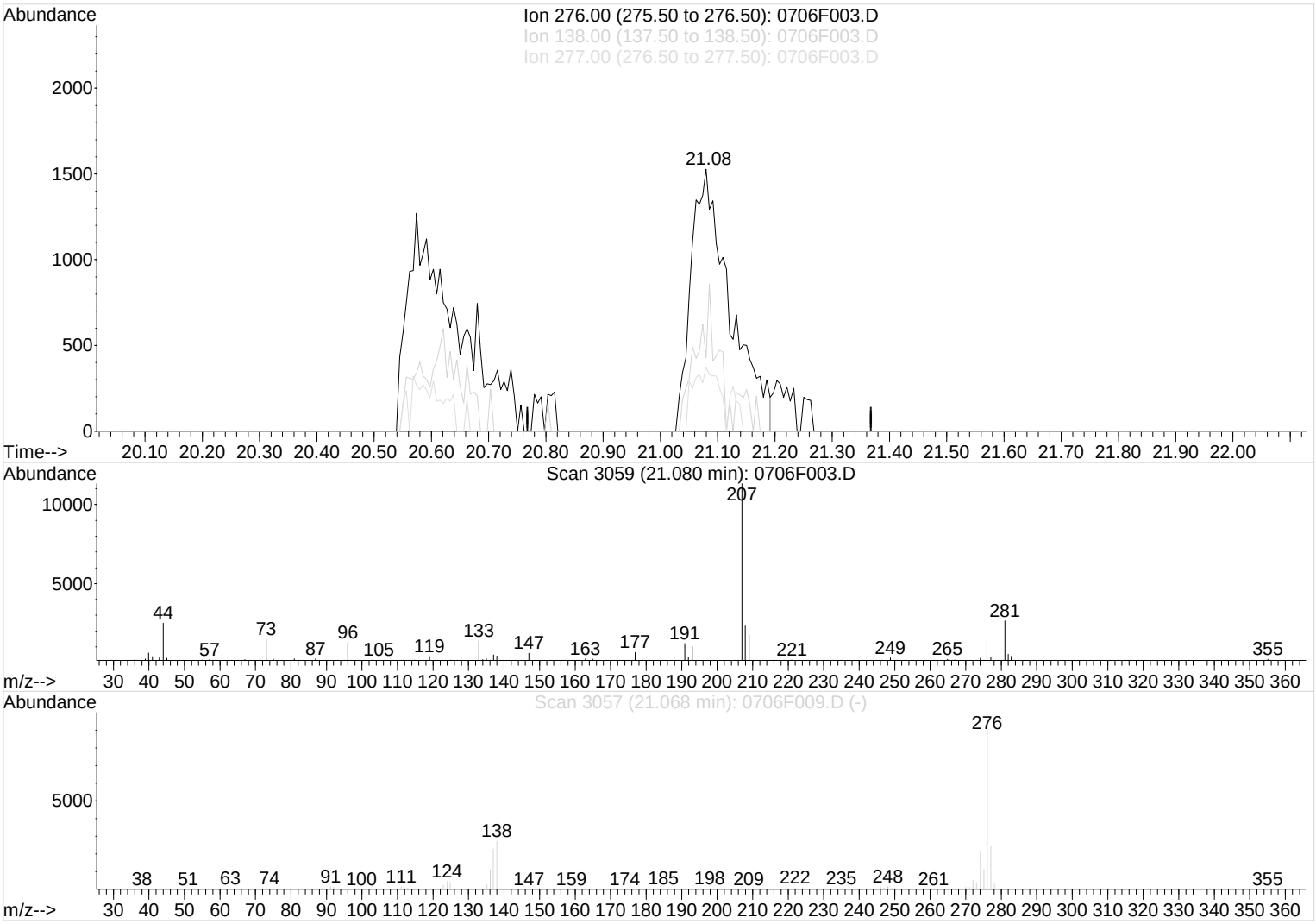
07/12/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F003.D Vial: 2
Acq On : 6 Jul 2023 11:48 am Operator: CSD
Sample : SVO_LL ICAL 0.05ppm SVM70-38C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 12:01 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:27:25 2023
Response via : Multiple Level Calibration



TIC: 0706F003.D

(84) Benzo(g,h,i)perylene (T)

21.08min 39.28ng/ml m

response 7227

Ion	Exp%	Act%
276.00	100	100
138.00	27.10	28.03
277.00	24.10	24.56
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/12/23

1st CO 07/14/23
2nd 07/18/23

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:48:33 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	139883	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.36	136	535021	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.79	164	264645	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	413177	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	223145	1000.00	ng/ml	0.00
77) Perylene-d12	18.76	264	209489	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	14555	84.55	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 2.25%#			
6) Phenol-d6	4.71	99	16636	83.29	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 2.22%#			
19) Nitrobenzene-d5	5.57	82	13724	78.23	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 3.13%#			
39) 2-Fluorobiphenyl	8.30	172	33004	96.18	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 3.85%#			
60) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng/ml	
Spiked Amount 3750.000	Range 38 - 157		Recovery = 0.00%#			
71) Terphenyl-d14	14.02	244	26772	116.94	ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 4.68%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.15	42	8212	89.24	ng/ml	88
3) Pyridine	3.18	79	16356	78.28	ng/ml	91
5) Bis(2-chloroethyl) Ether	4.83	93	18972	98.65	ng/ml	97
7) Phenol	4.72	94	17665	80.43	ng/ml	97
8) Aniline	4.79	93	19621	103.77	ng/ml	98
9) 2-Chlorophenol	4.89	128	15235	84.00	ng/ml	96
10) 1,3-Dichlorobenzene	5.03	146	20944	101.70	ng/ml	96
11) 1,4-Dichlorobenzene	5.09	146	21827	102.33	ng/ml	96
12) 1,2-Dichlorobenzene	5.22	146	20688	104.11	ng/ml	97
13) Benzyl Alcohol	5.18	108	7038	135.21	ng/ml	83
14) 2,2'-oxybis(1-chloropropan	5.29	45	23365	100.97	ng/ml	98
15) 2-Methylphenol	5.26	107	11725m	84.01	ng/ml	
16) Hexachloroethane	5.53	117	7475	92.38	ng/ml	91
17) N-Nitrosodi-n-propylamine	5.41	70	9206	76.08	ng/ml	97
18) 4-Methylphenol	5.39	107	13996	117.60	ng/ml	94
20) Nitrobenzene	5.59	77	15510	85.82	ng/ml	86
22) Isophorone	5.82	82	22541m	76.81	ng/ml	
23) 2-Nitrophenol	5.91	139	4440	155.63	ng/ml	94
24) 2,4-Dimethylphenol	5.93	122	11853m	77.66	ng/ml	
25) Bis(2-chloroethoxy)methane	6.05	93	18174	88.73	ng/ml	99
26) 2,4-Dichlorophenol	6.17	162	7007	55.04	ng/ml	94
28) 1,2,4-Trichlorobenzene	6.28	180	15959	100.65	ng/ml	96
29) Naphthalene	6.39	128	55185	103.18	ng/ml	99
30) 4-Chloroaniline	6.46	127	10125m	103.52	ng/ml	
31) Hexachlorobutadiene	6.52	225	8810	101.64	ng/ml	96
32) 4-Chloro-3-methylphenol	7.17	107	4906	139.54	ng/ml	94
33) 2-Methylnaphthalene	7.48	141	27061	89.99	ng/ml	96
34) 1-Methylnaphthalene	7.68	141	28114	91.89	ng/ml	94
36) Hexachlorocyclopentadiene	7.76	237	2281m	170.09	ng/ml	
40) 2-Chloronaphthalene	8.60	162	25829	91.79	ng/ml	97
42) Acenaphthylene	9.52	152	32276	75.93	ng/ml	97
43) Dimethyl Phthalate	9.32	163	23593	79.16	ng/ml	97
45) Acenaphthene	9.86	154	26086	96.14	ng/ml	98
48) Dibenzofuran	10.18	168	39800	94.41	ng/ml	99
52) Fluorene	10.77	166	26538	86.34	ng/ml	100
53) 4-Chlorophenyl Phenyl Ethe	10.80	204	13889	94.54	ng/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:48:33 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54) Diethyl Phthalate	10.65	149	22939	83.79	ng/ml	98
57) Diphenylamine	11.00	169	15386	79.00	ng/ml	98
58) Azobenzene	11.05	77	22404m	73.74	ng/ml	
61) 4-Bromophenyl Phenyl Ether	11.53	248	6542	116.20	ng/ml	97
62) Hexachlorobenzene	11.56	284	9504	93.51	ng/ml	90
64) Phenanthrene	12.14	178	43754	97.73	ng/ml	99
65) Anthracene	12.21	178	33963m	81.66	ng/ml	
66) Carbazole	12.43	167	28274	81.07	ng/ml	98
67) Di-n-butyl Phthalate	12.87	149	24277	Below Cal		98
68) Fluoranthene	13.55	202	36185	90.14	ng/ml	98
70) Pyrene	13.82	202	37070	123.86	ng/ml	98
72) Butyl Benzyl Phthalate	14.68	149	5382	173.51	ng/ml	92
74) Benz(a)anthracene	15.63	228	19187	134.12	ng/ml	98
75) Chrysene	15.70	228	28659m	107.27	ng/ml	
76) Bis(2-ethylhexyl) Phthalat	15.68	149	6440	185.36	ng/ml	87
78) Di-n-octyl Phthalate	17.36	149	7705	233.46	ng/ml	81
79) Benzo(b)fluoranthene	18.13	252	14308	150.70	ng/ml	98
80) Benzo(k)fluoranthene	18.19	252	18726m	71.40	ng/ml	
81) Benzo(a)pyrene	18.67	252	14018	145.05	ng/ml	98
82) Indeno(1,2,3-cd)pyrene	20.56	276	6726m	112.04	ng/ml	
83) Dibenz(a,h)anthracene	20.64	278	16179m	91.20	ng/ml	
84) Benzo(g,h,i)perylene	21.08	276	19510	105.71	ng/ml	97

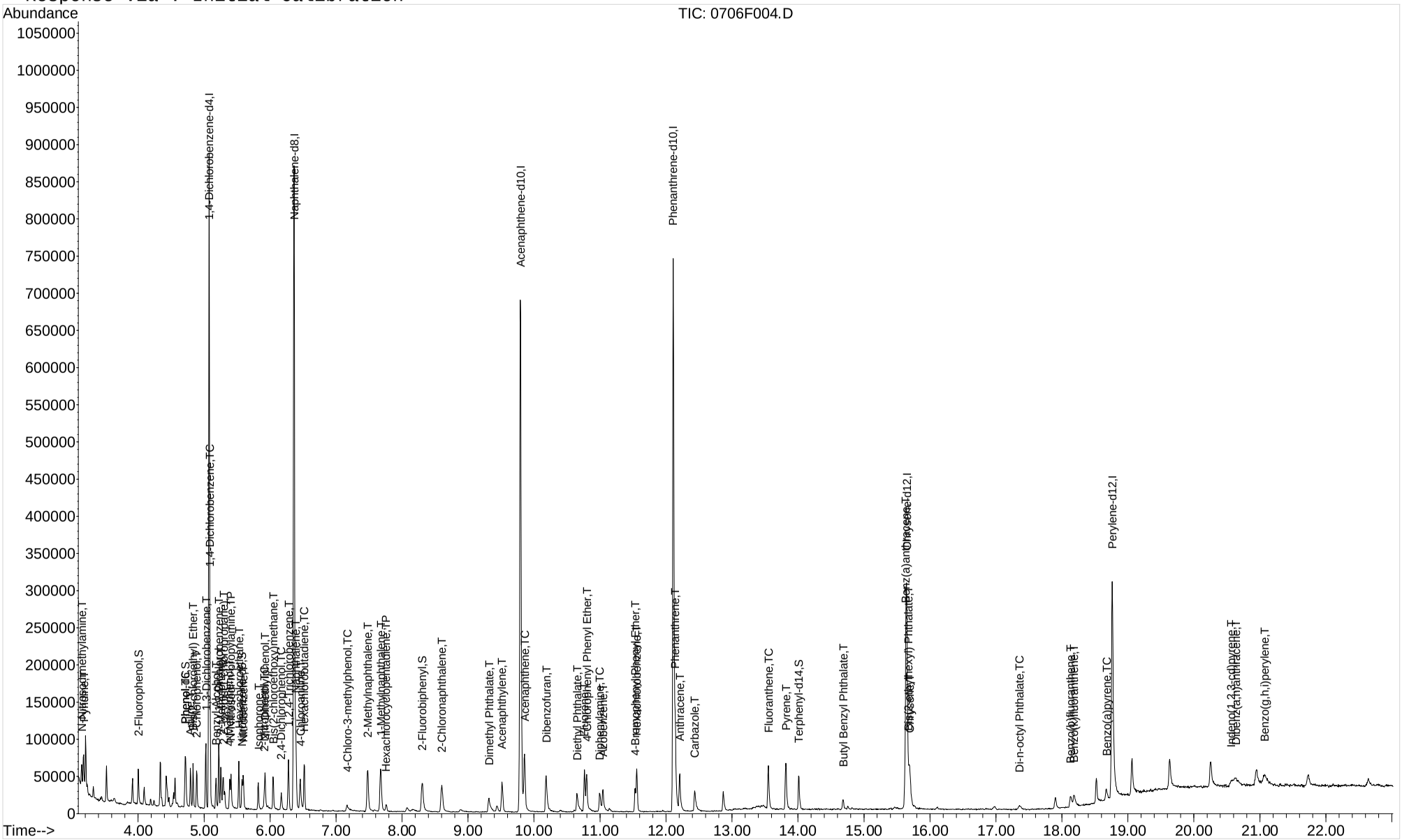
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:18 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

07/14/23 07/18/23 1st 2nd

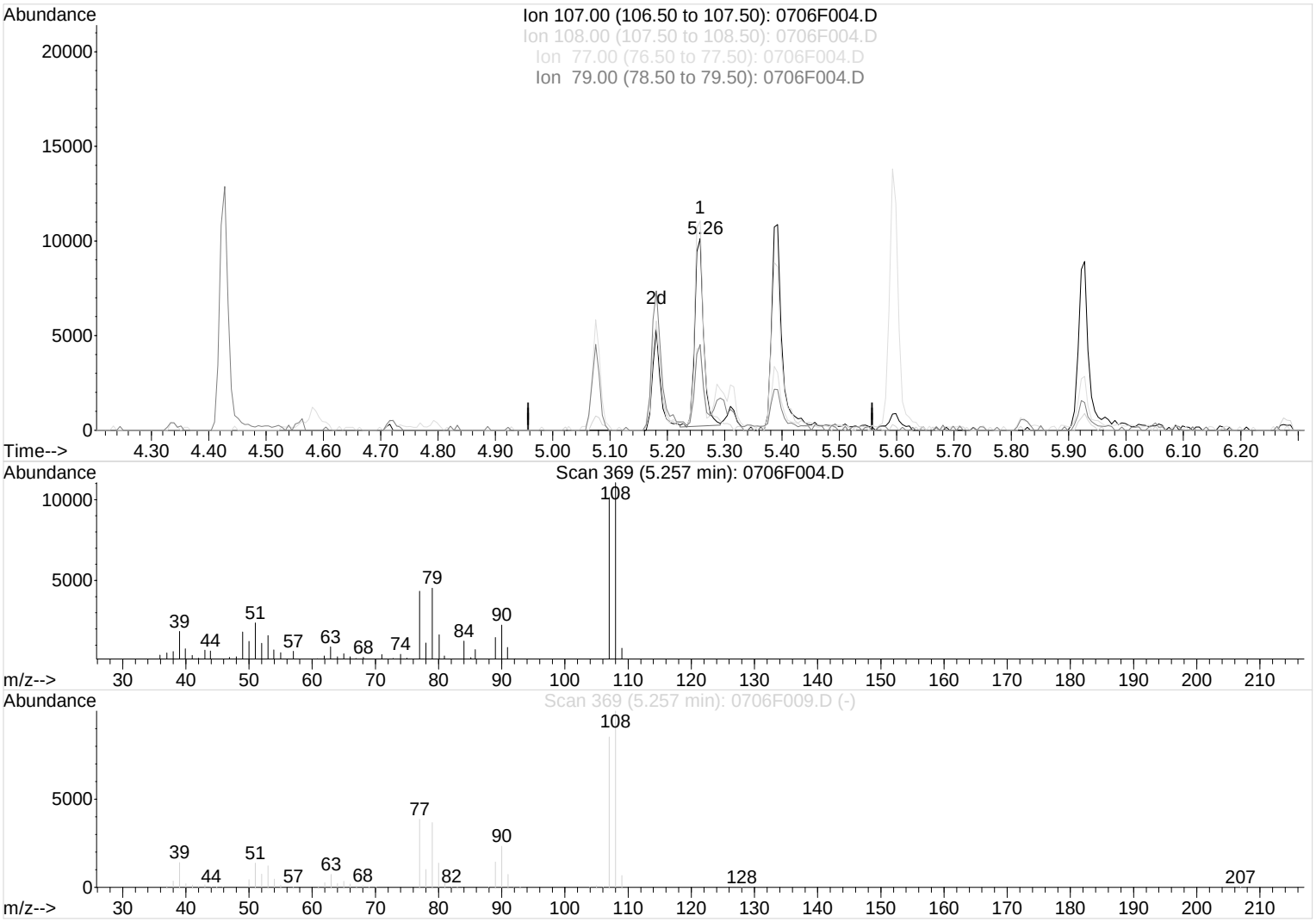


Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:48 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(15) 2-Methylphenol (T)

5.26min 78.20ng/ml

response 10913

Ion	Exp%	Act%
107.00	100	100
108.00	117.40	107.54
77.00	45.20	39.27
79.00	43.00	41.44

Manual Integration:

Before

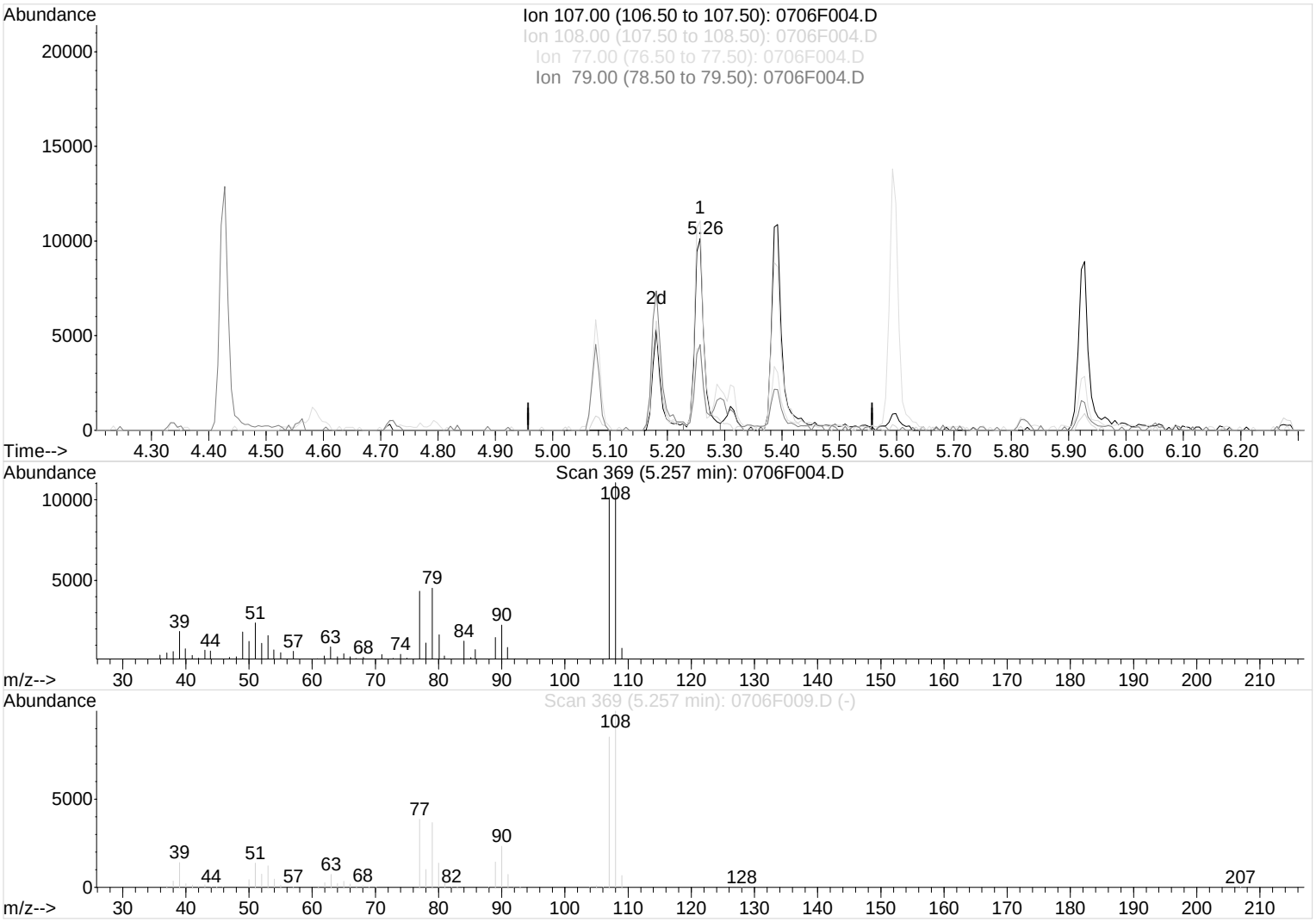
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:49 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(15) 2-Methylphenol (T)

5.26min 84.01ng/ml m

response 11725

Ion	Exp%	Act%
107.00	100	100
108.00	117.40	109.18
77.00	45.20	42.80
79.00	43.00	44.60

Manual Integration:

After

Baseline correction

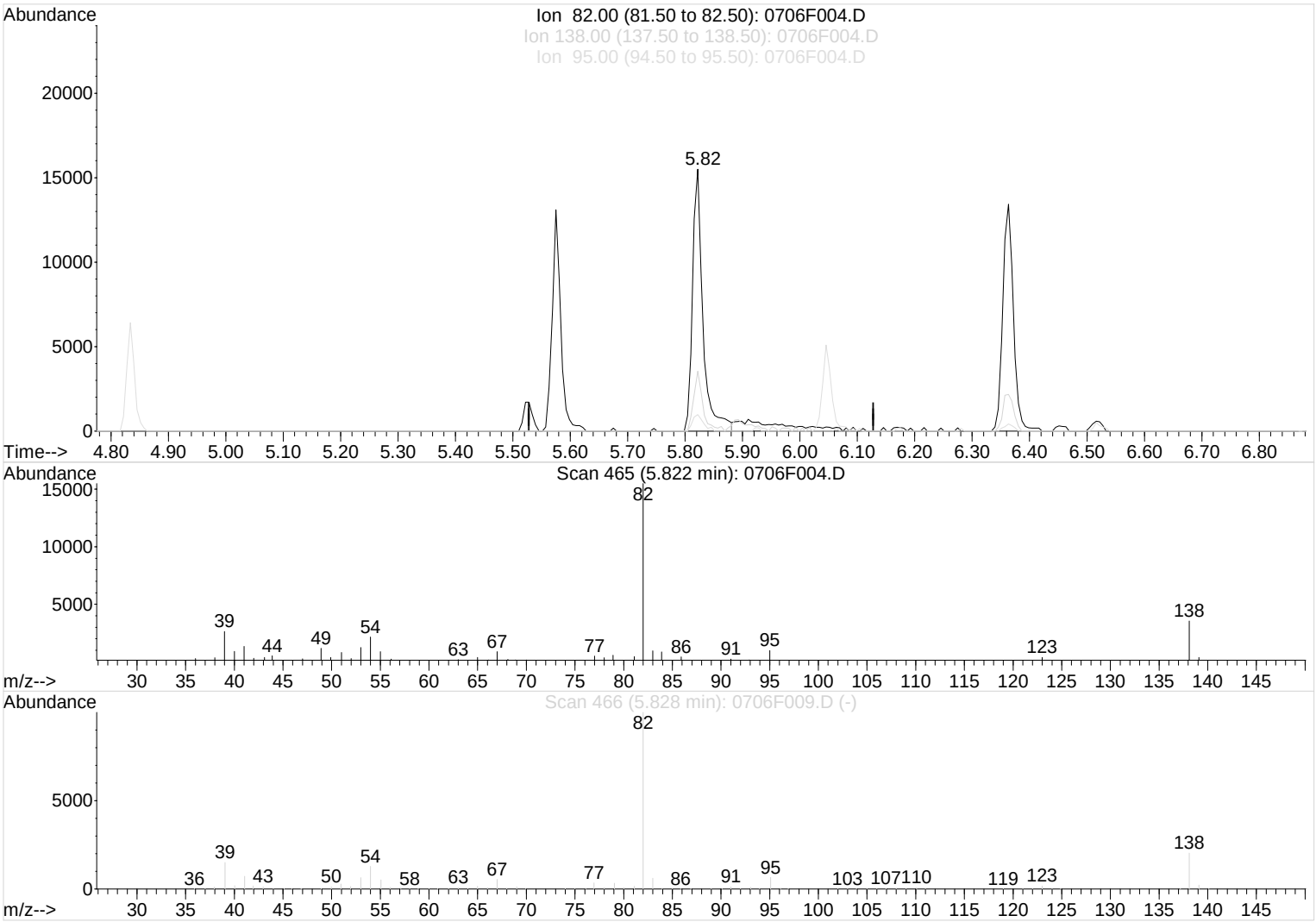
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:49 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(22) Isophorone (T)

5.82min 66.19ng/ml

response 19423

Ion	Exp%	Act%
82.00	100	100
138.00	20.20	22.83
95.00	6.50	6.31
0.00	0.00	0.00

Manual Integration:

Before

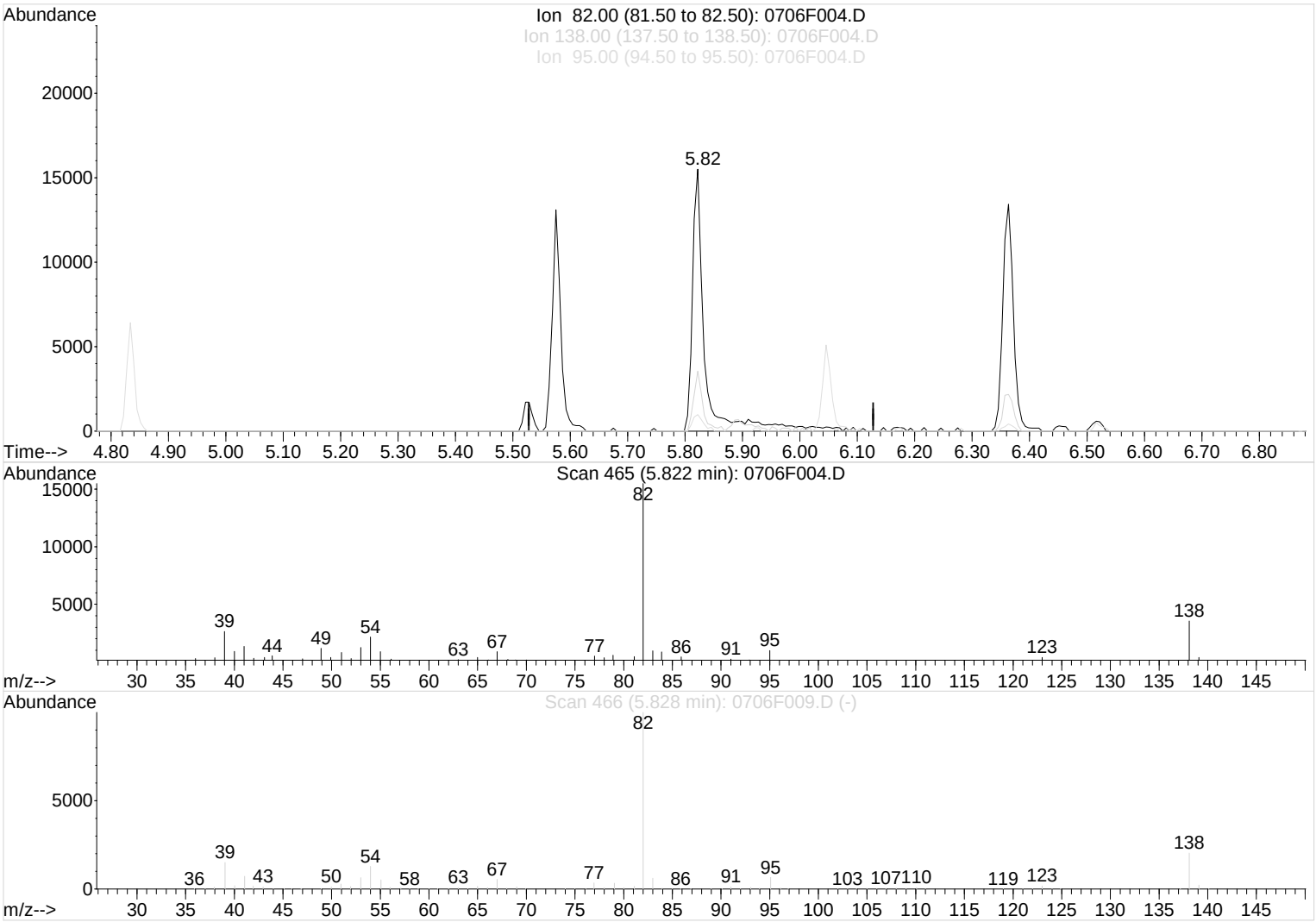
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:49 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(22) Isophorone (T)

5.82min 76.81ng/ml m

response 22541

Ion	Exp%	Act%
82.00	100	100
138.00	20.20	22.83
95.00	6.50	6.31
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

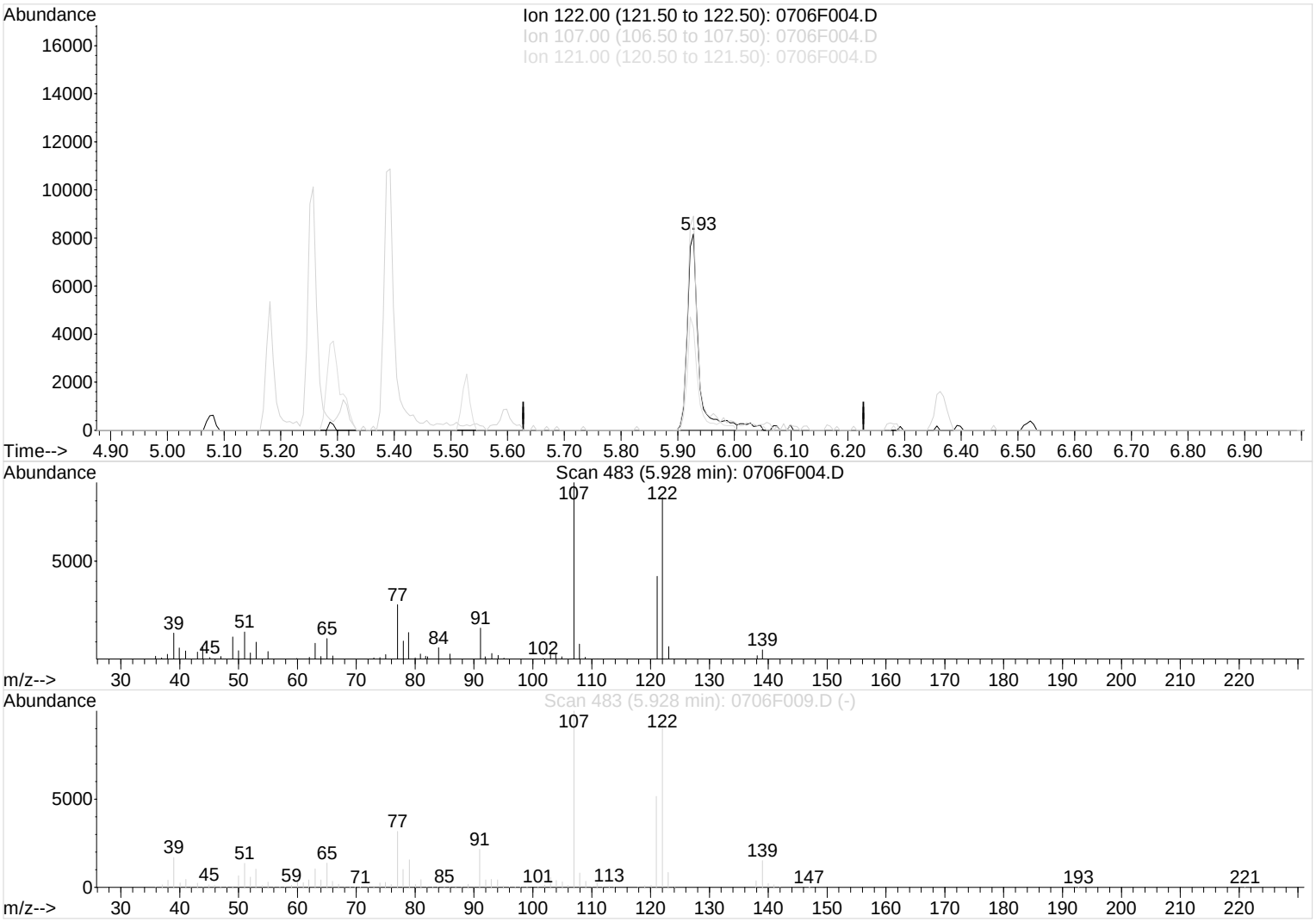
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:49 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(24) 2,4-Dimethylphenol (T)

5.93min 73.93ng/ml

response 11283

Ion	Exp%	Act%
122.00	100	100
107.00	107.40	109.17
121.00	55.20	52.05
0.00	0.00	0.00

Manual Integration:

Before

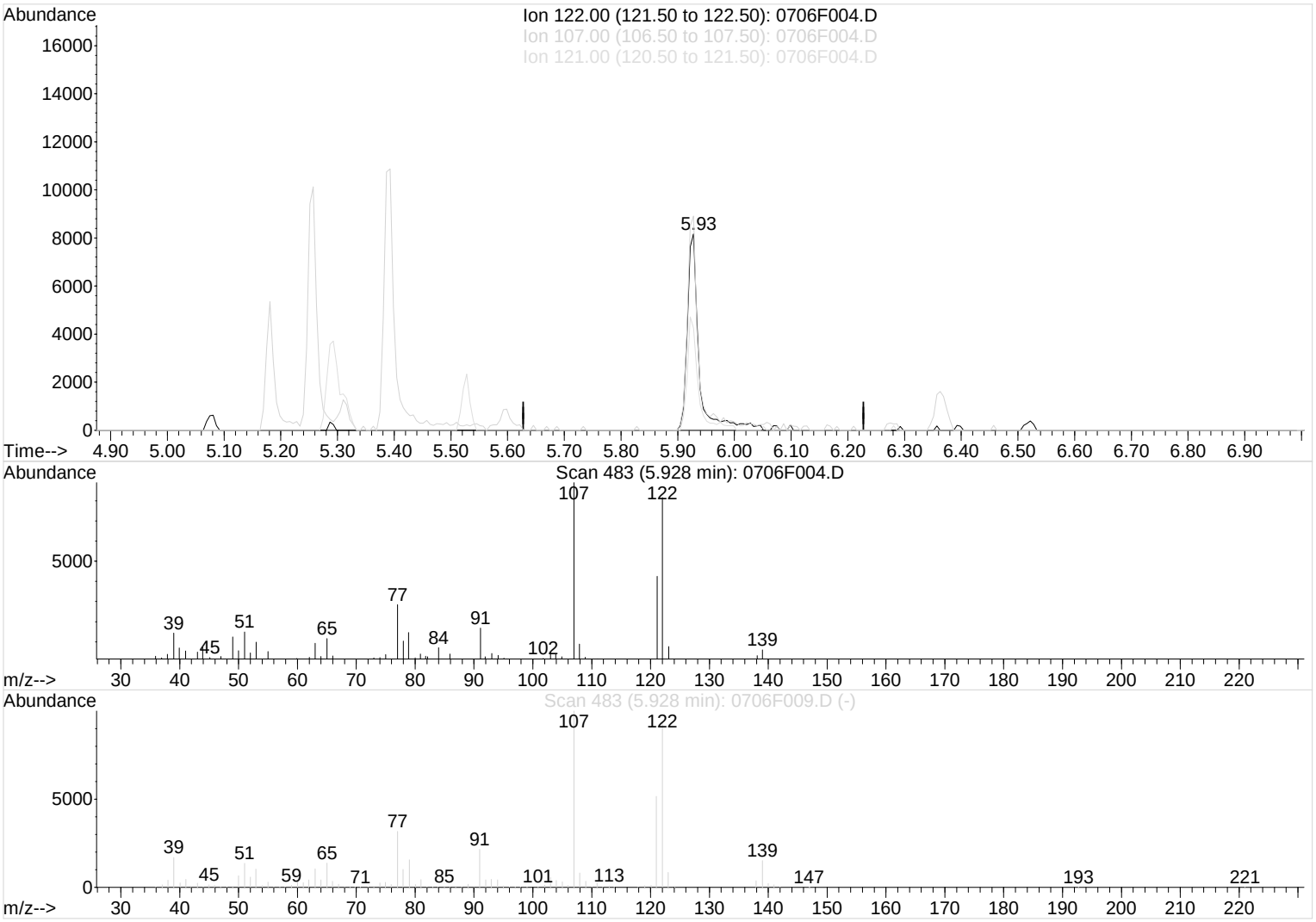
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:50 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(24) 2,4-Dimethylphenol (T)

5.93min 77.66ng/ml m

response 11853

Ion	Exp%	Act%
122.00	100	100
107.00	107.40	109.17
121.00	55.20	52.05
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

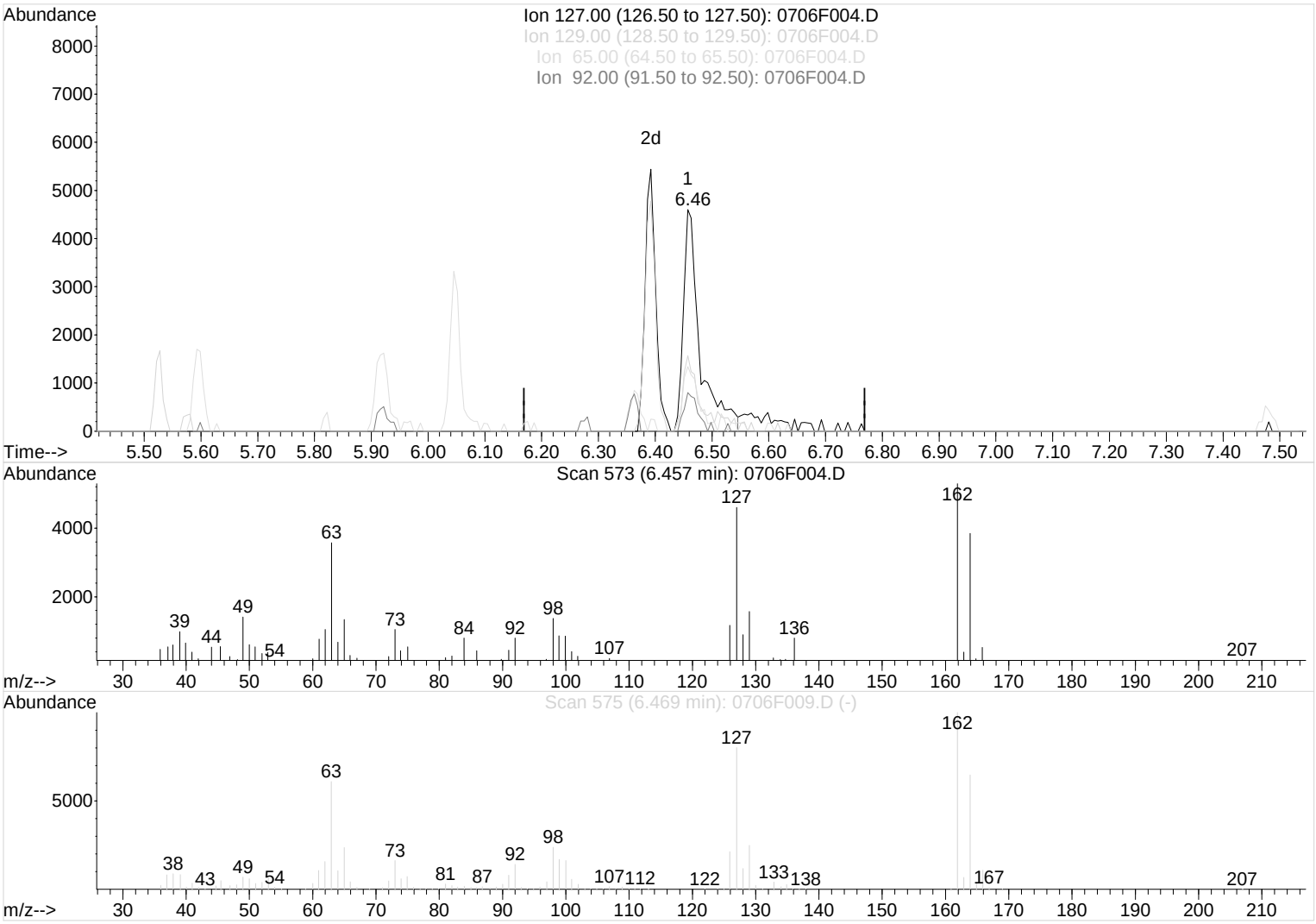
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:08 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(30) 4-Chloroaniline (T)

6.46min 95.81ng/ml

response 9371

Ion	Exp%	Act%
127.00	100	100
129.00	31.30	34.13
65.00	29.50	29.13
92.00	17.30	17.39

Manual Integration:

Before

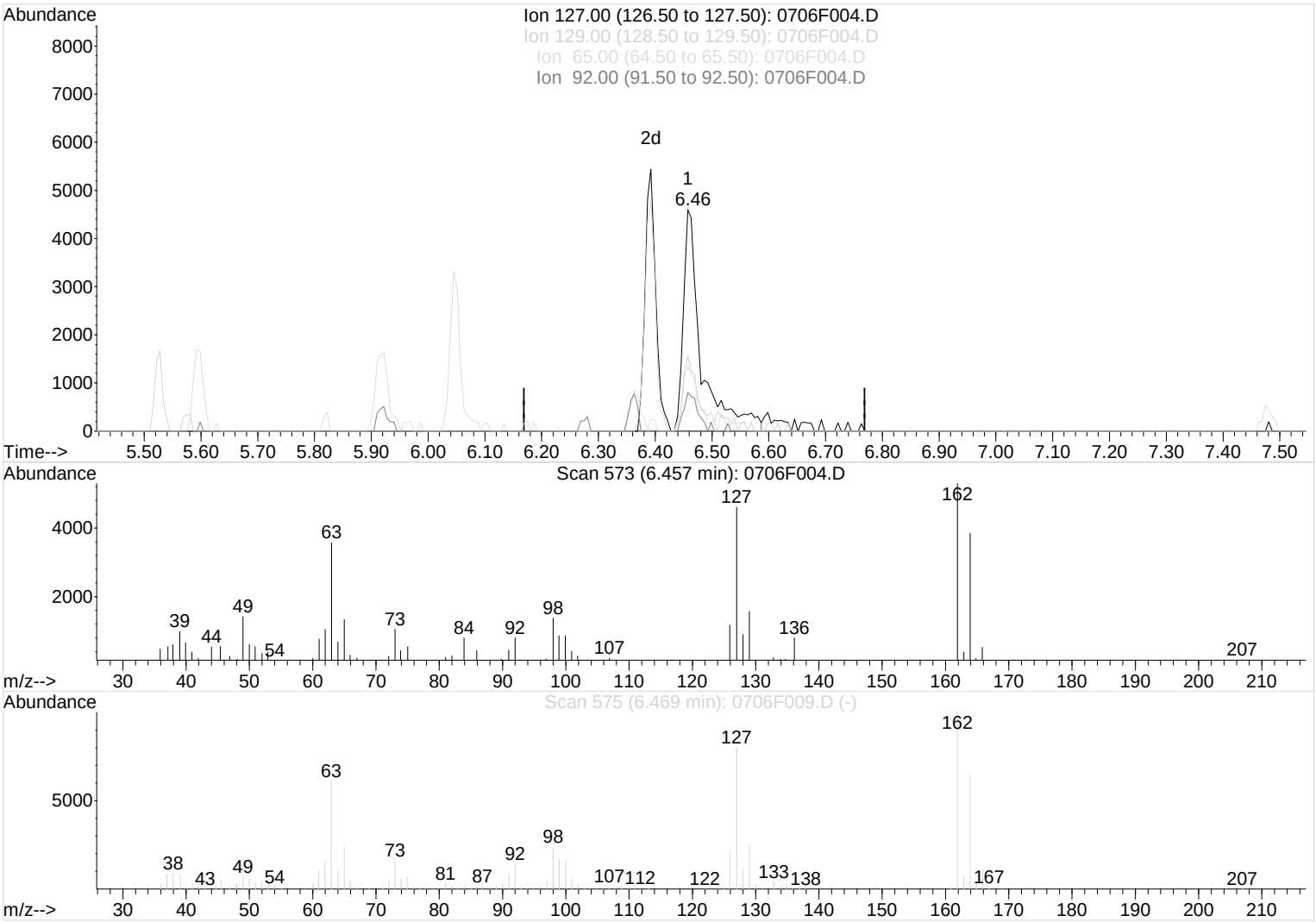
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:08 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(30) 4-Chloroaniline (T)

6.46min 103.52ng/ml m

response 10125

Ion	Exp%	Act%
127.00	100	100
129.00	31.30	34.13
65.00	29.50	29.13
92.00	17.30	17.39

Manual Integration:

After

Baseline correction

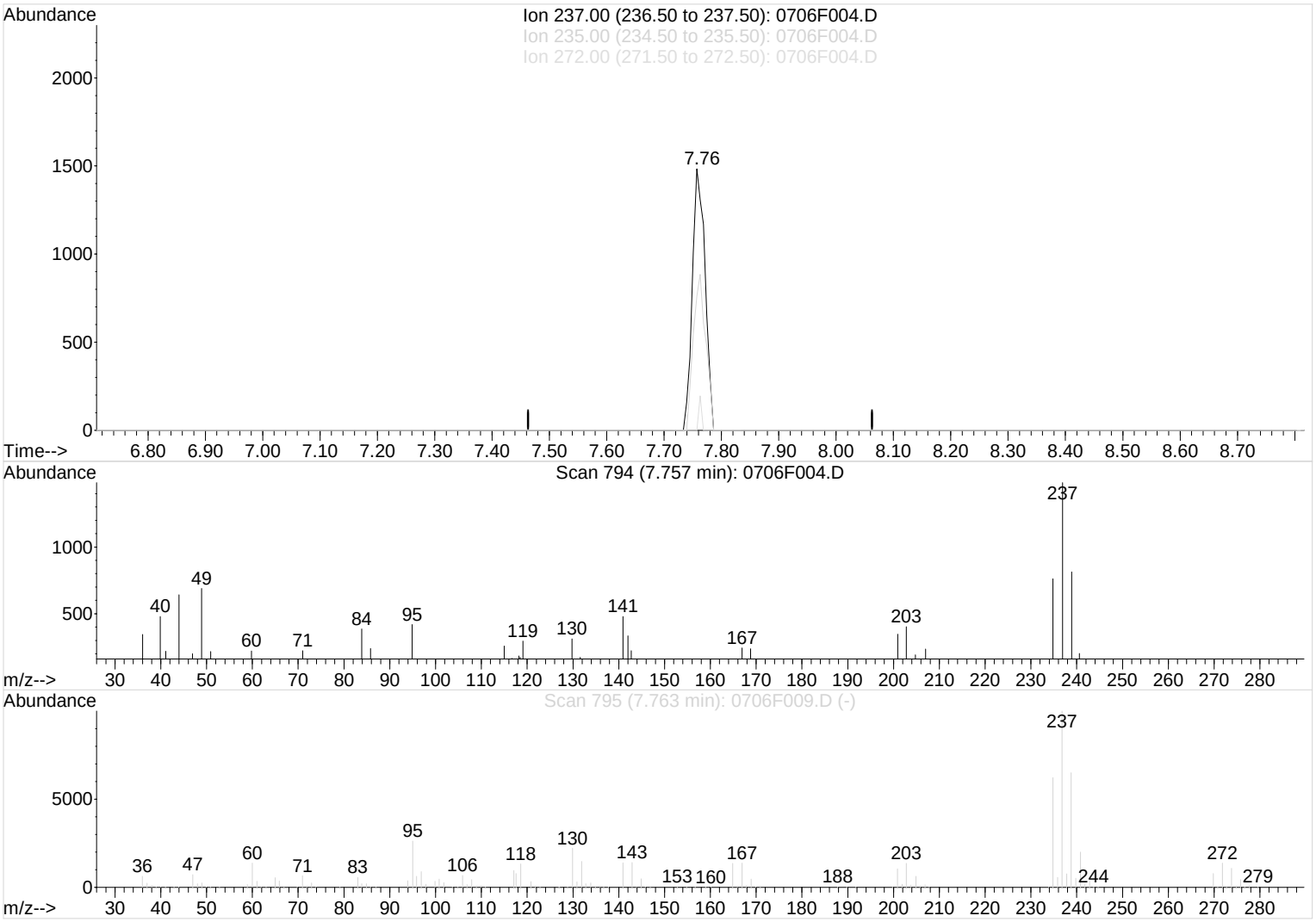
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:16 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(36) Hexachlorocyclopentadiene (TP)

7.76min 170.09ng/ml m

response 2281

Ion	Exp%	Act%
237.00	100	100
235.00	62.20	51.31
272.00	13.70	0.00
0.00	0.00	0.00

Manual Integration:

After

Missed peak

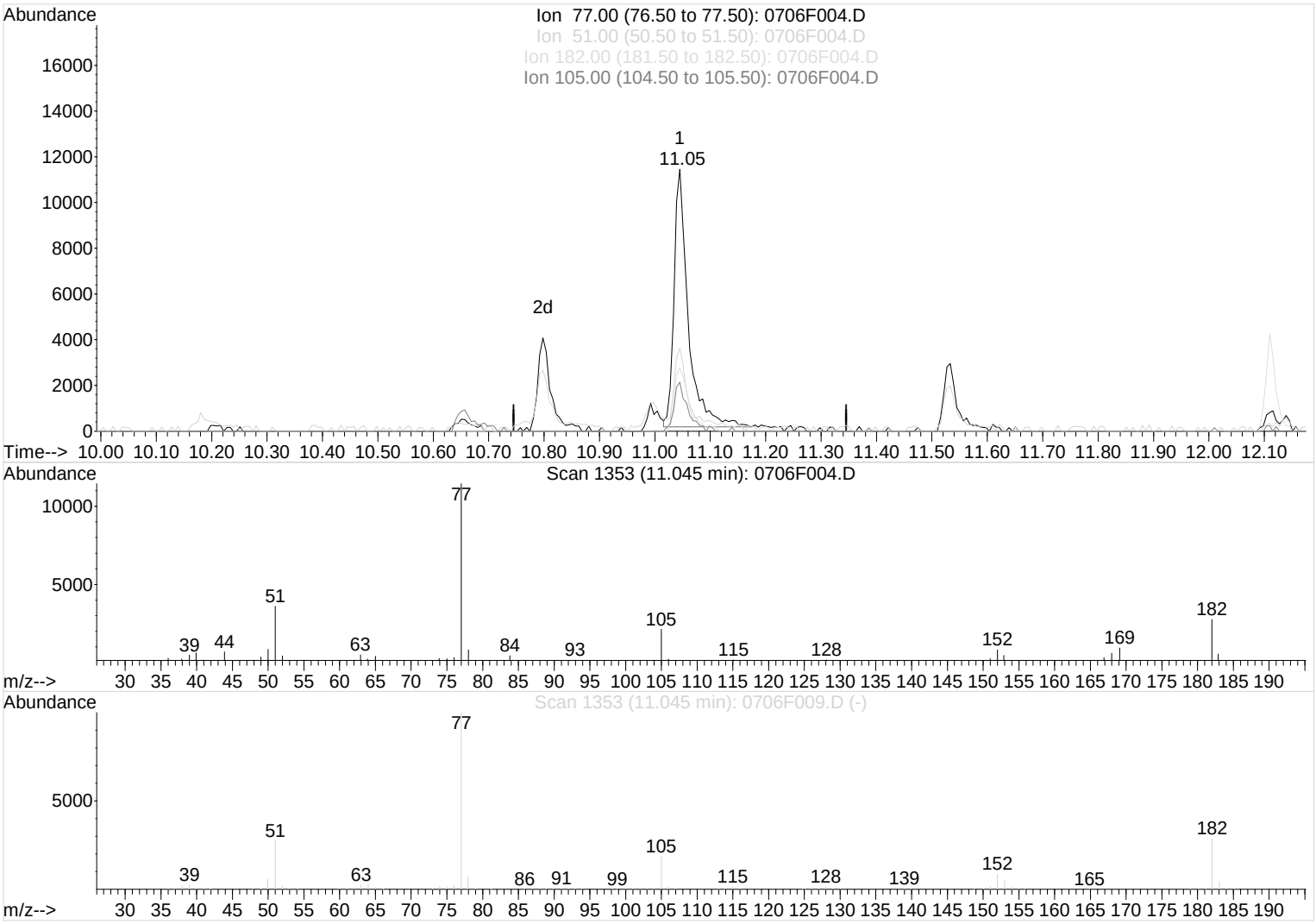
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:16 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(58) Azobenzene (T)

11.05min 66.21ng/ml

response 20115

Ion	Exp%	Act%
77.00	100	100
51.00	27.60	30.19
182.00	28.50	24.51
105.00	18.30	19.01

Manual Integration:

Before

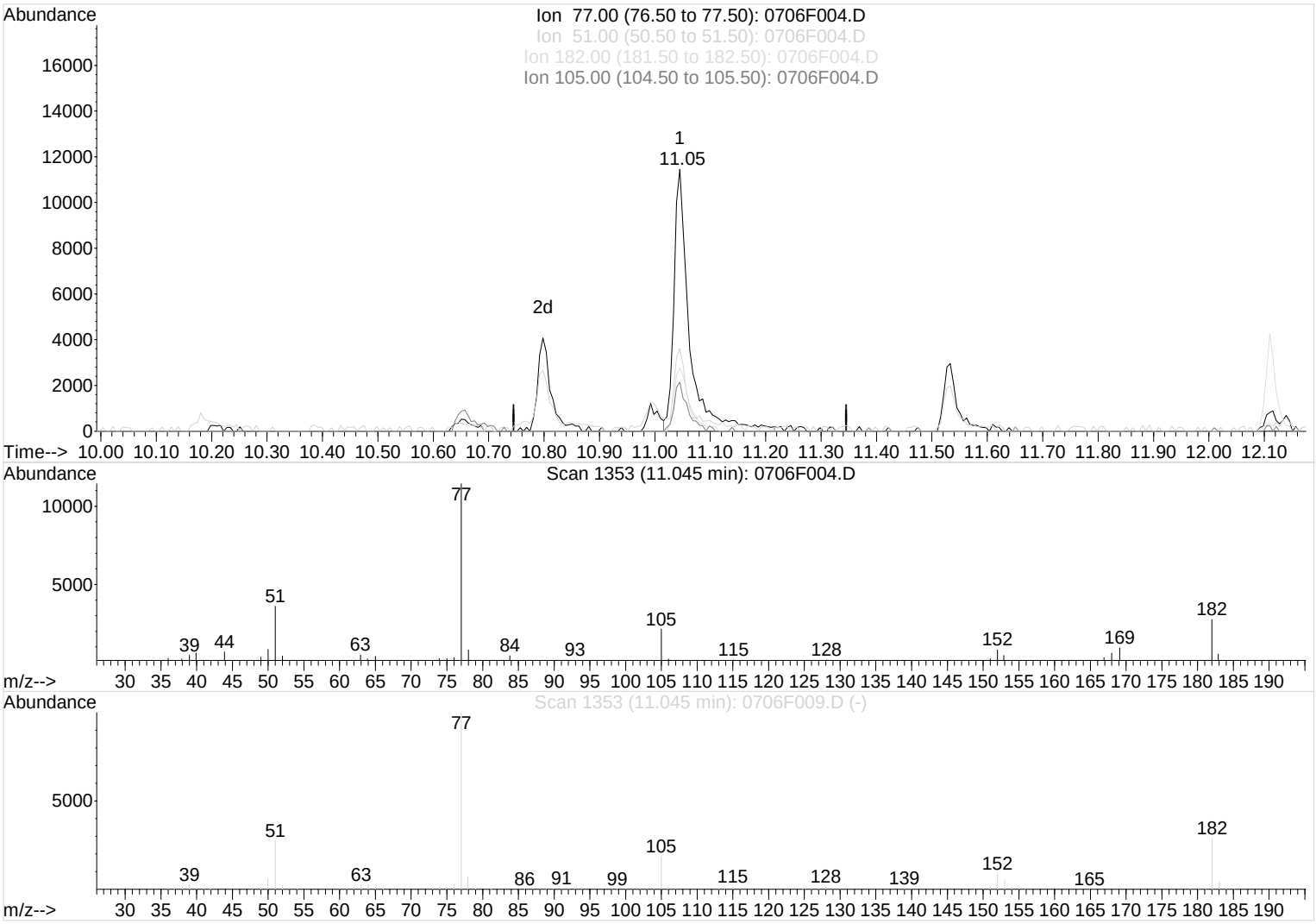
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(58) Azobenzene (T)

11.05min 73.74ng/ml m

response 22404

Ion	Exp%	Act%
77.00	100	100
51.00	27.60	31.54
182.00	28.50	24.12
105.00	18.30	18.70

Manual Integration:

After

Baseline correction

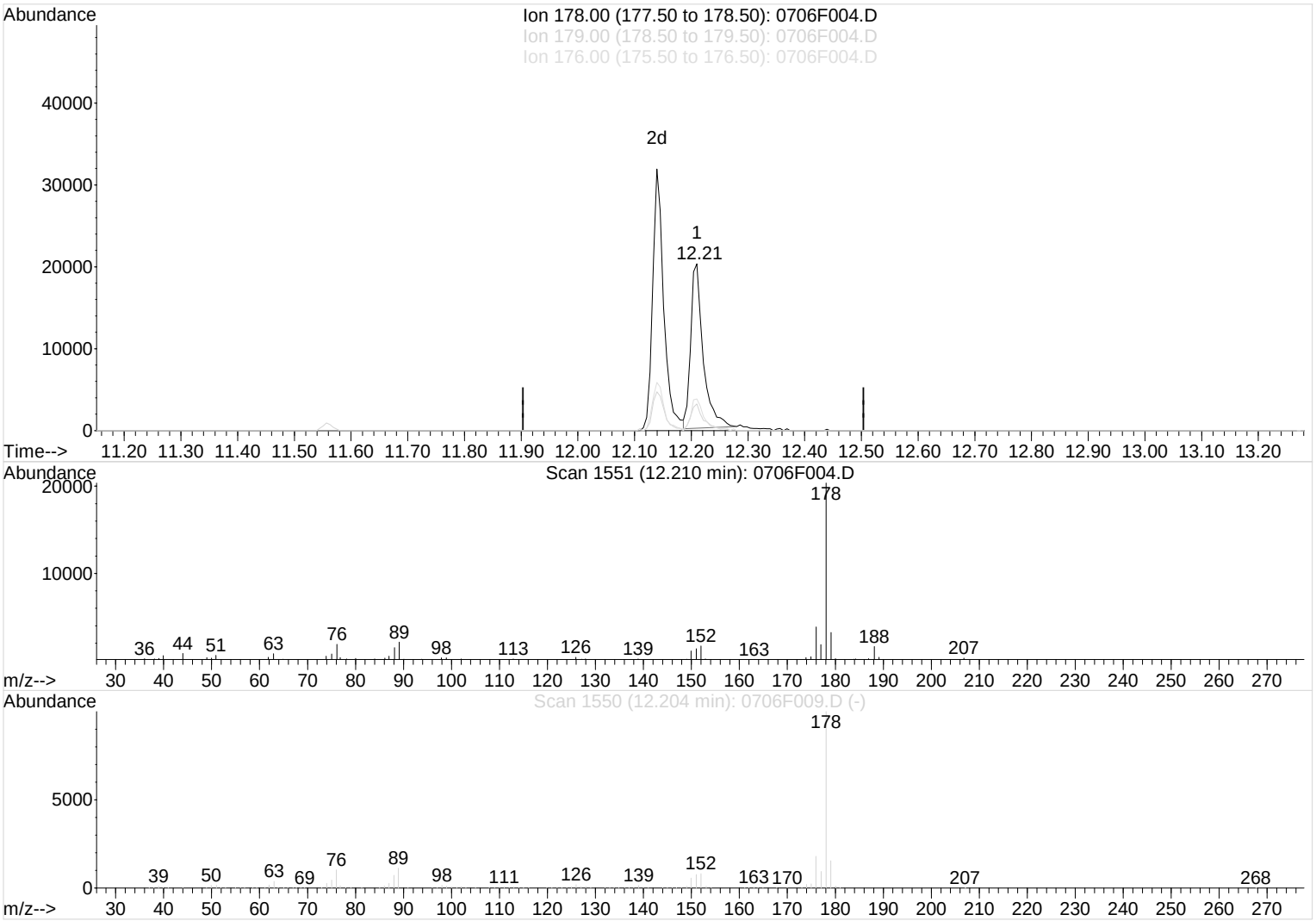
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(65) Anthracene (T)

12.21min 73.97ng/ml

response 30766

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	16.31
176.00	18.00	19.38
0.00	0.00	0.00

Manual Integration:

Before

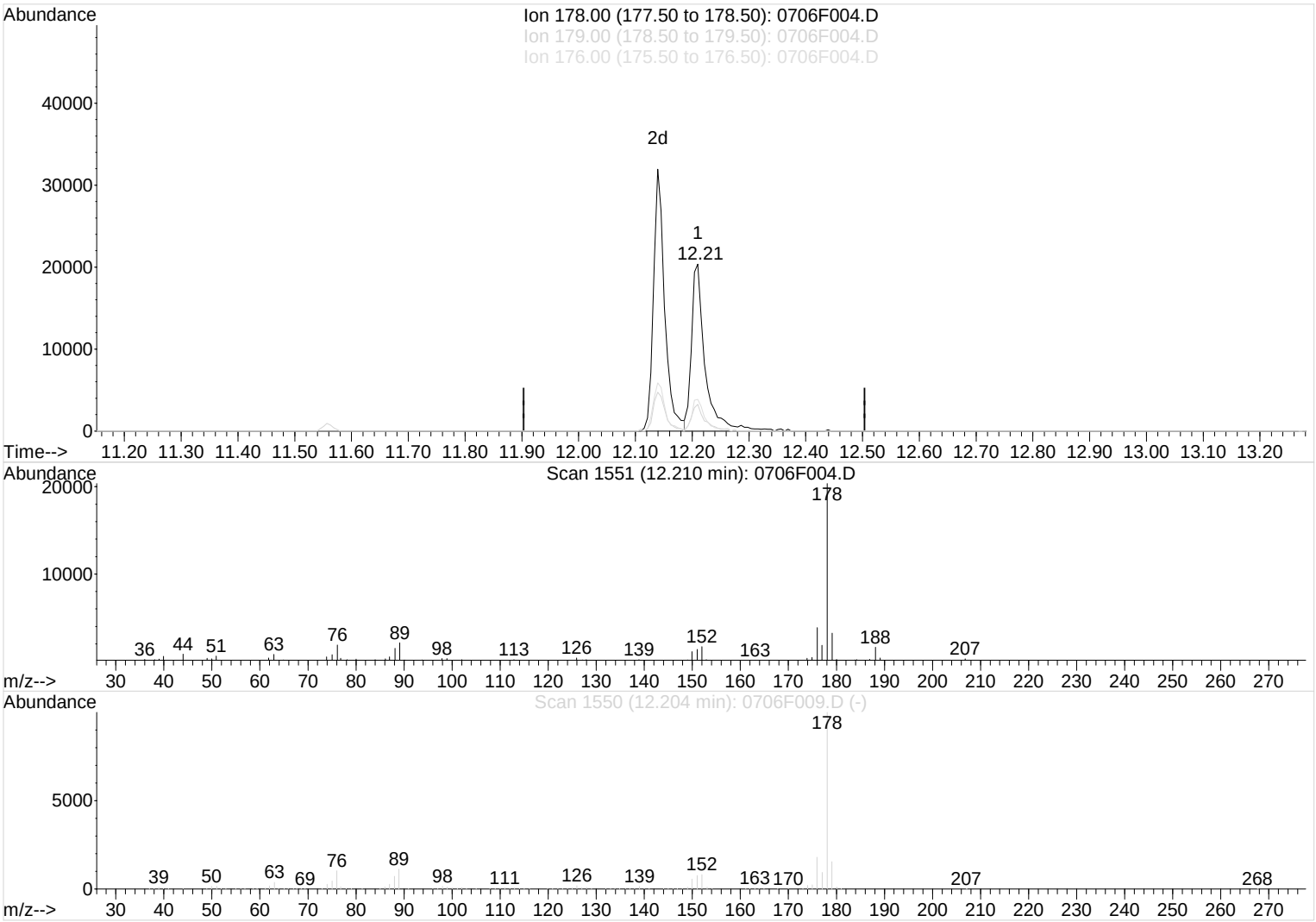
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(65) Anthracene (T)

12.21min 81.66ng/ml m

response 33963

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	15.92
176.00	18.00	18.91
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

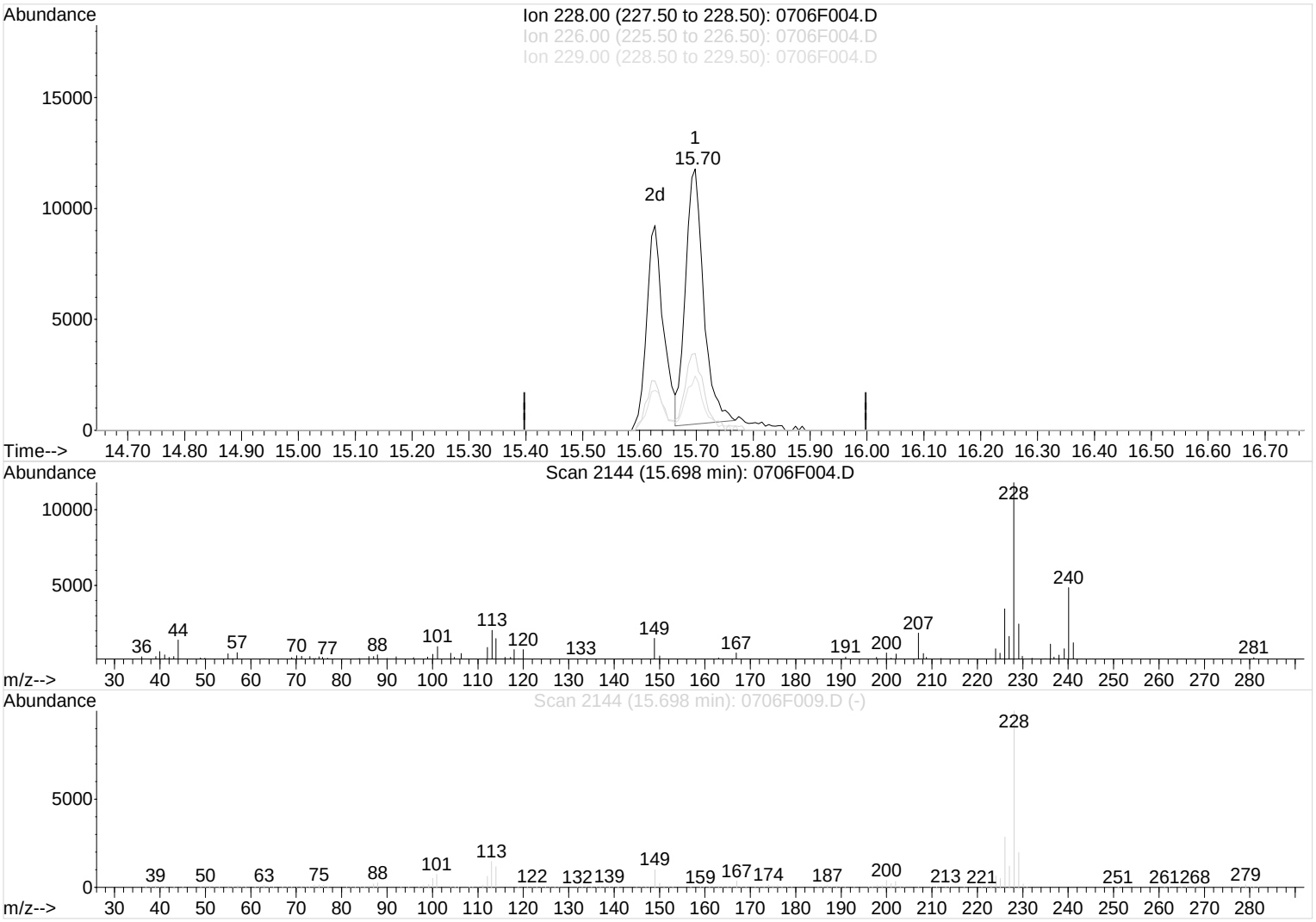
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(75) Chrysene (T)

15.70min 94.99ng/ml

response 25378

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	28.77
229.00	19.60	19.81
0.00	0.00	0.00

Manual Integration:

Before

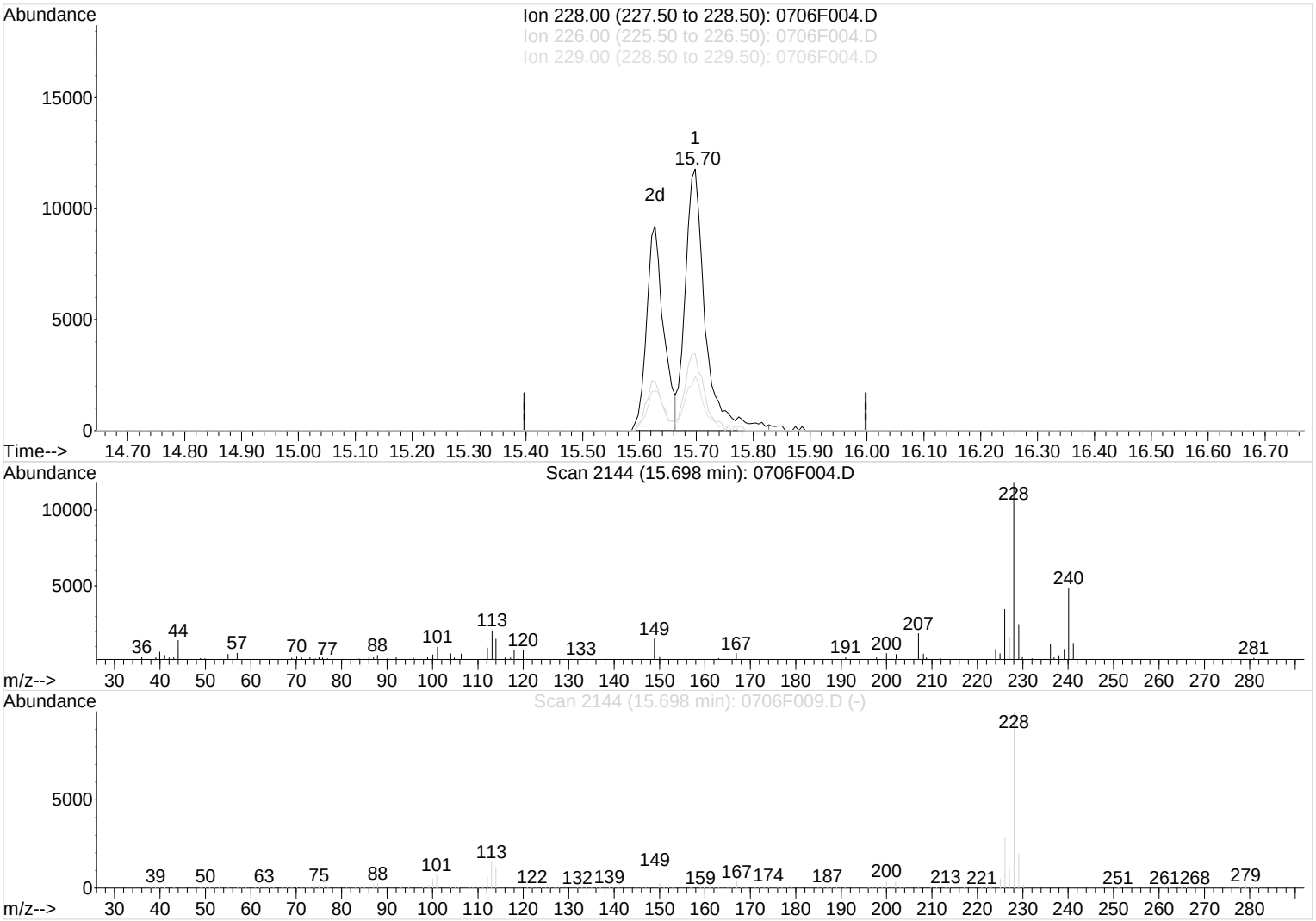
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(75) Chrysene (T)

15.70min 107.27ng/ml m

response 28659

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	29.33
229.00	19.60	20.73
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

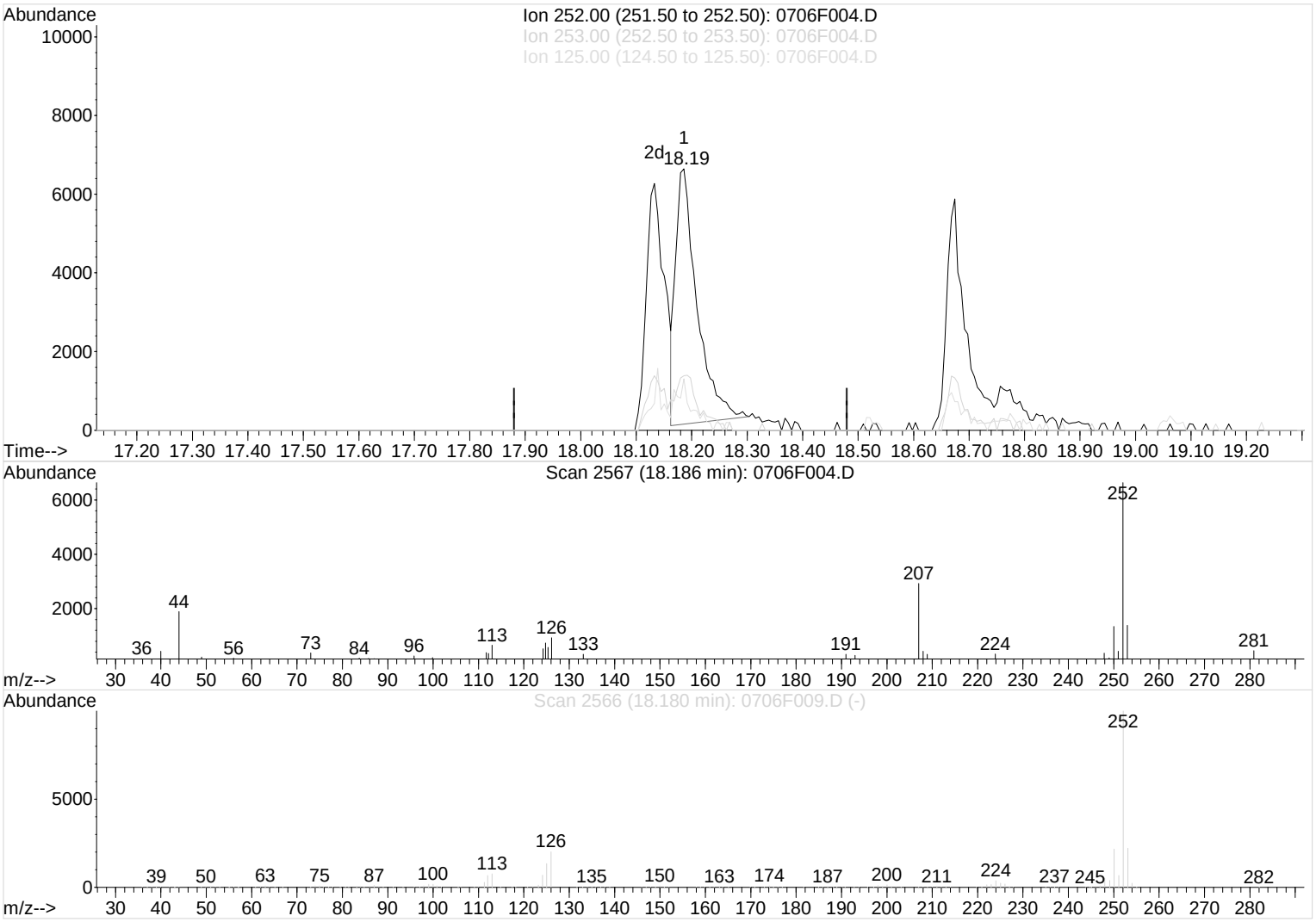
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(80) Benzo(k)fluoranthene (T)

18.19min 66.15ng/ml

response 17349

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	21.99
125.00	13.20	20.75
0.00	0.00	0.00

Manual Integration:

Before

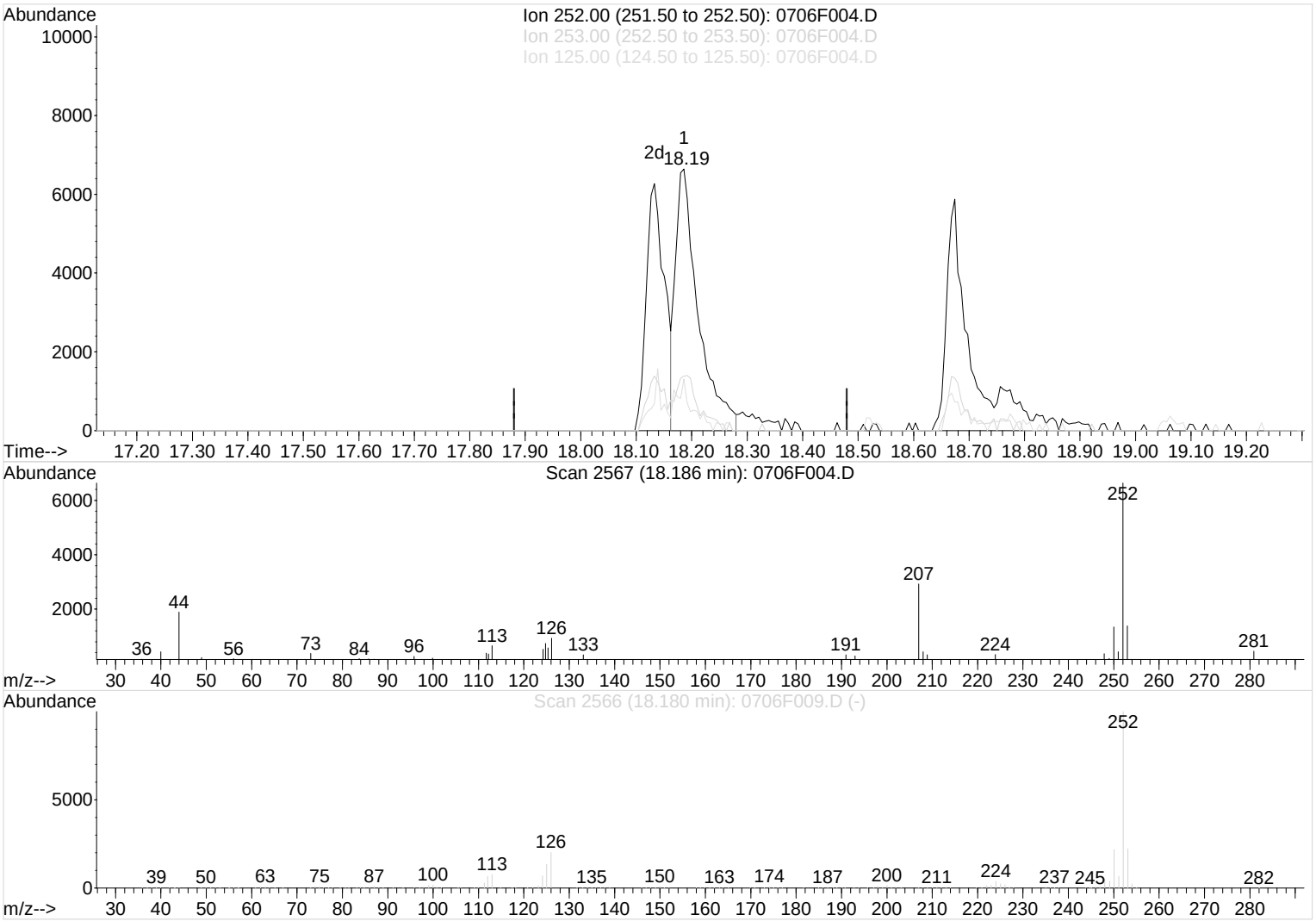
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(80) Benzo(k)fluoranthene (T)

18.19min 71.40ng/ml m

response 18726

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	20.85
125.00	13.20	11.03
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

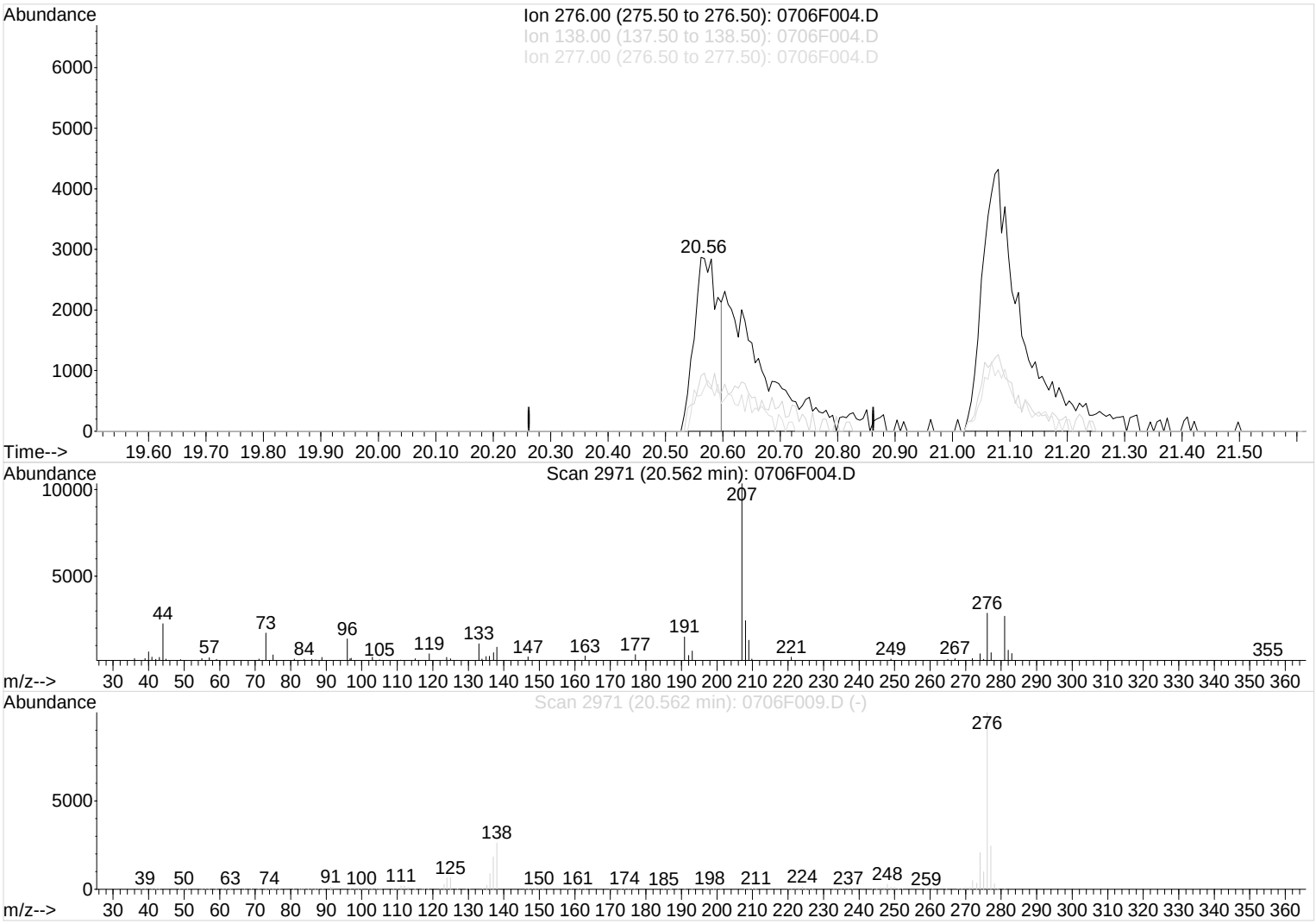
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(82) Indeno(1,2,3-cd)pyrene (T)

20.56min 122.22ng/ml

response 8255

Ion	Exp%	Act%
276.00	100	100
138.00	26.10	31.80
277.00	24.50	20.65
0.00	0.00	0.00

Manual Integration:

Before

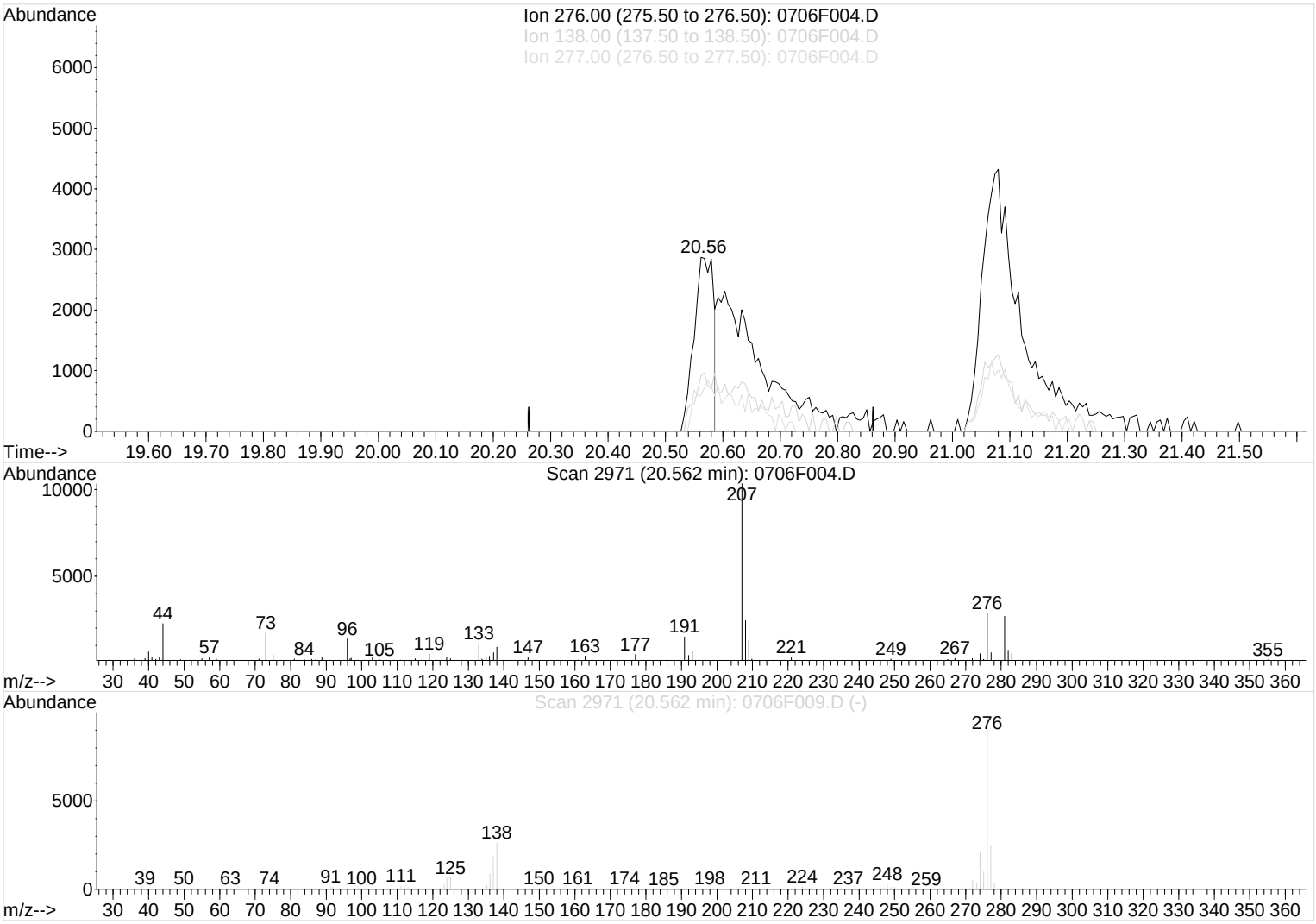
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:18 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(82) Indeno(1,2,3-cd)pyrene (T)

20.56min 112.04ng/ml m

response 6726

Ion	Exp%	Act%
276.00	100	100
138.00	26.10	31.80
277.00	24.50	20.65
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

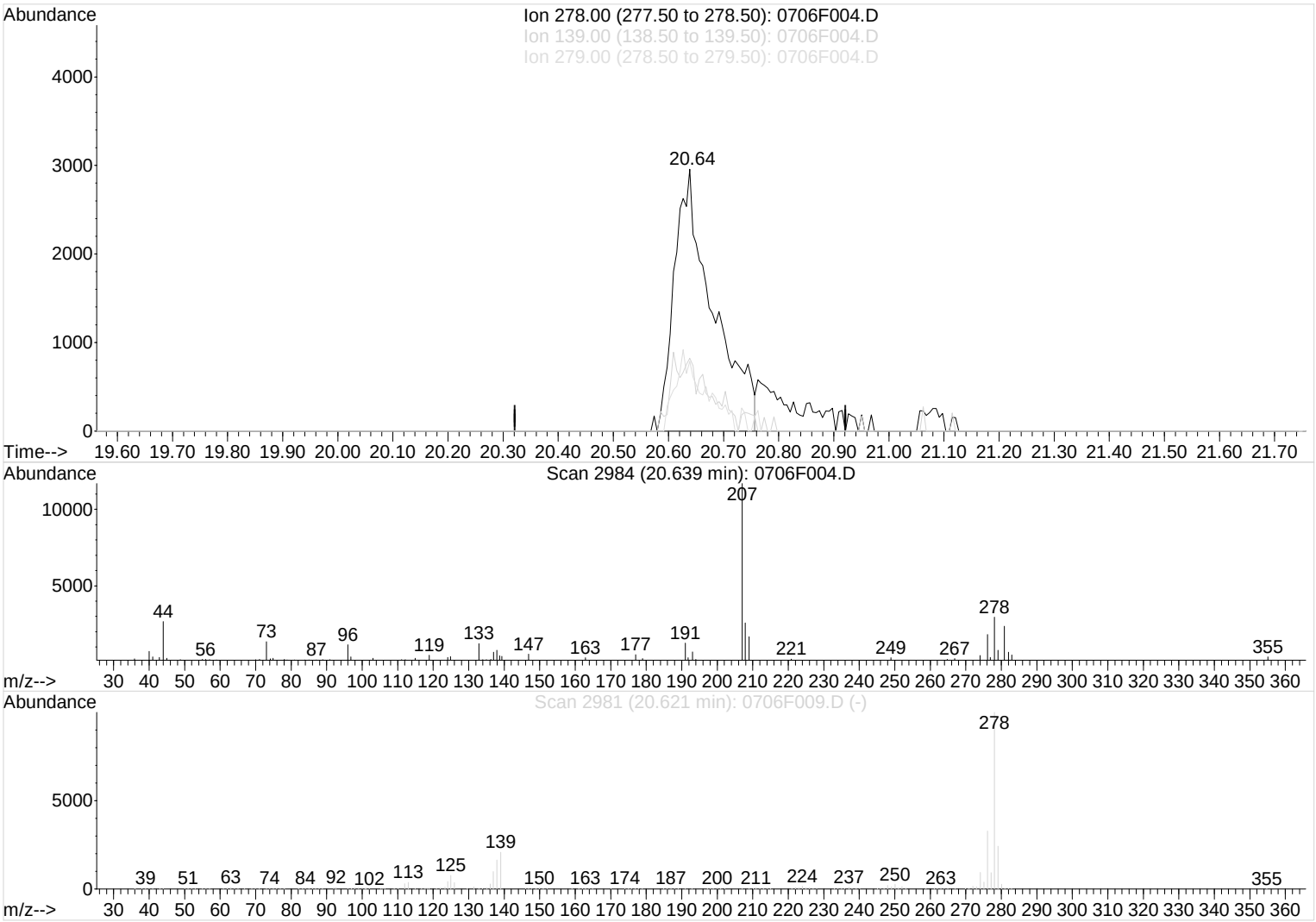
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:18 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(83) Dibenz(a,h)anthracene (T)

20.64min 82.04ng/ml

response 14327

Ion	Exp%	Act%
278.00	100	100
139.00	20.70	27.76
279.00	24.20	26.61
0.00	0.00	0.00

Manual Integration:

Before

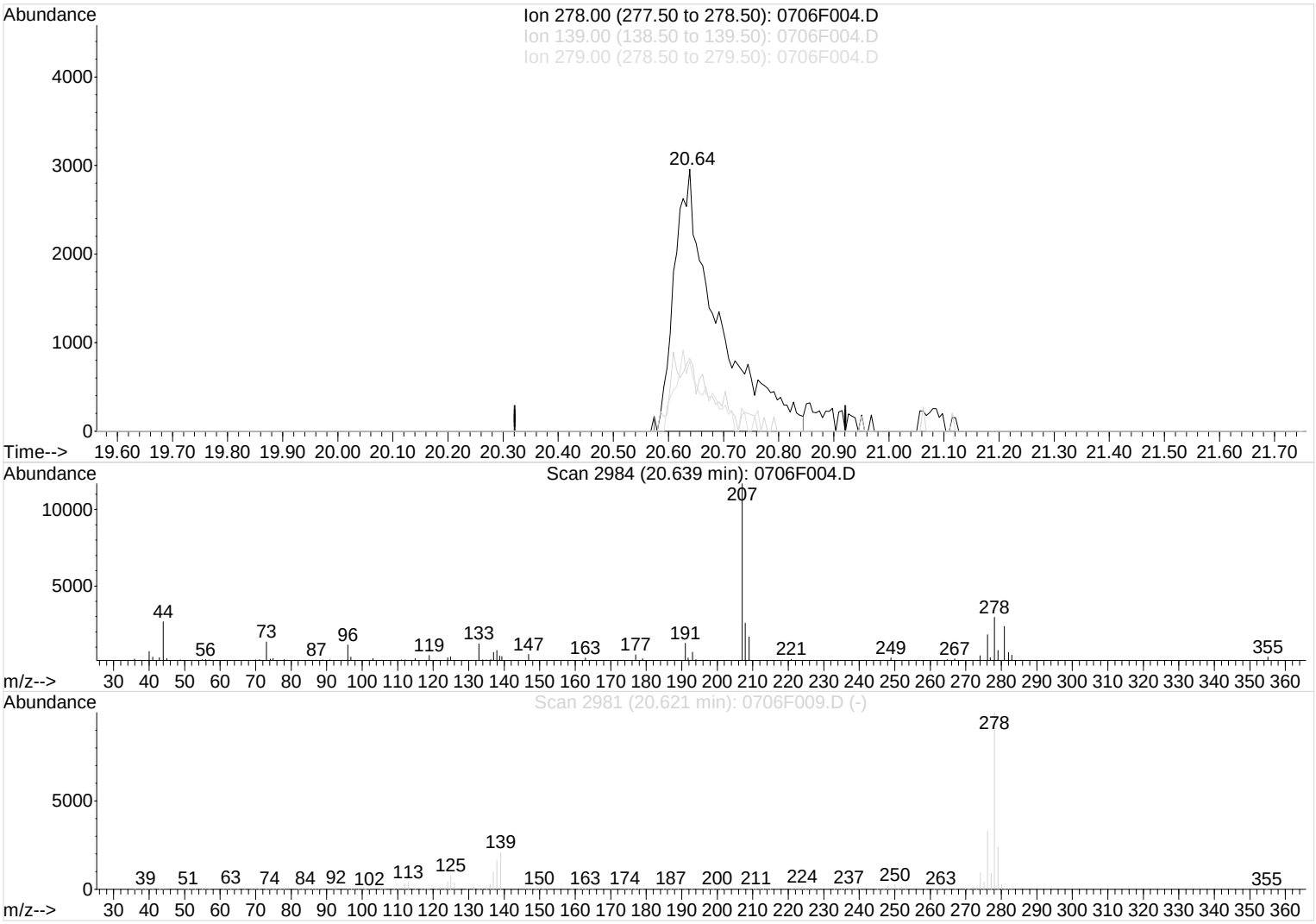
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F004.D Vial: 3
Acq On : 6 Jul 2023 12:17 pm Operator: CSD
Sample : SVO_LL ICAL 0.1ppm SVM70-29D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:18 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 16:06:30 2023
Response via : Multiple Level Calibration



TIC: 0706F004.D

(83) Dibenz(a,h)anthracene (T)

20.64min 91.20ng/ml m

response 16179

Ion	Exp%	Act%
278.00	100	100
139.00	20.70	14.31
279.00	24.20	26.61
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/11/23

1st CO 07/14/23
2nd 07/18/23

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:41:21 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	139265	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.36	136	525414	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.79	164	262293	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	405897	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	220699	1000.00	ng/ml	0.00
77) Perylene-d12	18.76	264	208051	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	29880	171.21	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 4.57%#			
6) Phenol-d6	4.71	99	33579	165.19	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 4.41%#			
19) Nitrobenzene-d5	5.58	82	28517	159.10	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 6.36%#			
39) 2-Fluorobiphenyl	8.30	172	66030	193.34	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 7.73%#			
60) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng/ml	
Spiked Amount 3750.000	Range 38 - 157		Recovery = 0.00%#			
71) Terphenyl-d14	14.01	244	54996	250.55	ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 10.02%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.15	42	17401	188.59	ng/ml	100
3) Pyridine	3.17	79	35328	166.25	ng/ml	100
5) Bis(2-chloroethyl) Ether	4.83	93	37382	194.57	ng/ml	94
7) Phenol	4.72	94	38346	172.33	ng/ml	96
8) Aniline	4.79	93	40431	217.06	ng/ml	97
9) 2-Chlorophenol	4.89	128	30952	167.98	ng/ml	93
10) 1,3-Dichlorobenzene	5.03	146	40926	199.55	ng/ml	98
11) 1,4-Dichlorobenzene	5.09	146	43117	203.48	ng/ml	99
12) 1,2-Dichlorobenzene	5.22	146	39657	200.52	ng/ml	98
13) Benzyl Alcohol	5.18	108	15899	242.49	ng/ml	97
14) 2,2'-oxybis(1-chloropropan	5.29	45	46021	199.73	ng/ml	97
15) 2-Methylphenol	5.26	107	23562	165.97	ng/ml	99
16) Hexachloroethane	5.53	117	15491	191.25	ng/ml	97
17) N-Nitrosodi-n-propylamine	5.41	70	19642	158.85	ng/ml	99
18) 4-Methylphenol	5.39	107	30720	219.60	ng/ml	96
20) Nitrobenzene	5.59	77	30313	164.75	ng/ml	94
22) Isophorone	5.82	82	44517	149.61	ng/ml	98
23) 2-Nitrophenol	5.91	139	11814	278.32	ng/ml	99
24) 2,4-Dimethylphenol	5.92	122	26220m	171.86	ng/ml	
25) Bis(2-chloroethoxy)methane	6.05	93	37027	182.02	ng/ml	98
26) 2,4-Dichlorophenol	6.17	162	18288m	140.88	ng/ml	
28) 1,2,4-Trichlorobenzene	6.28	180	30924	198.40	ng/ml	96
29) Naphthalene	6.39	128	106488	203.15	ng/ml	100
30) 4-Chloroaniline	6.46	127	22545m	241.71	ng/ml	
31) Hexachlorobutadiene	6.52	225	17752	209.83	ng/ml	97
32) 4-Chloro-3-methylphenol	7.17	107	15246m	269.00	ng/ml	
33) 2-Methylnaphthalene	7.48	141	53606	179.15	ng/ml	95
34) 1-Methylnaphthalene	7.67	141	55959	184.44	ng/ml	95
36) Hexachlorocyclopentadiene	7.76	237	6327	297.40	ng/ml	96
37) 2,4,6-Trichlorophenol	8.08	196	7672	265.43	ng/ml	89
38) 2,4,5-Trichlorophenol	8.16	196	11521m	212.09	ng/ml	
40) 2-Chloronaphthalene	8.60	162	53500	190.71	ng/ml	99
41) 2-Nitroaniline	8.89	65	6721m	318.12	ng/ml	
42) Acenaphthylene	9.52	152	69786	161.68	ng/ml	98
43) Dimethyl Phthalate	9.32	163	50552	167.67	ng/ml	100
44) 2,6-Dinitrotoluene	9.45	165	5226	305.09	ng/ml	93

(#) = qualifier out of range (m) = manual integration

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:41:21 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Acenaphthene	9.86	154	52785	195.77	ng/ml	97
48)	Dibenzofuran	10.18	168	82008	195.75	ng/ml	99
50)	2,4-Dinitrotoluene	10.21	165	4932	301.18	ng/ml	85
51)	2,3,4,6-Tetrachlorophenol	10.40	232	4007	232.63	ng/ml	78
52)	Fluorene	10.76	166	55965	181.61	ng/ml	98
53)	4-Chlorophenyl Phenyl Ethe	10.80	204	28666	196.43	ng/ml	96
54)	Diethyl Phthalate	10.65	149	49272	179.25	ng/ml	98
57)	Diphenylamine	11.00	169	33734	171.68	ng/ml	99
58)	Azobenzene	11.05	77	46117	148.20	ng/ml	97
61)	4-Bromophenyl Phenyl Ether	11.53	248	13652	209.40	ng/ml	95
62)	Hexachlorobenzene	11.56	284	19403	193.55	ng/ml	98
64)	Phenanthrene	12.14	178	86226	195.50	ng/ml	99
65)	Anthracene	12.21	178	69188	165.70	ng/ml	99
66)	Carbazole	12.43	167	62465	180.04	ng/ml	100
67)	Di-n-butyl Phthalate	12.87	149	117367	367.05	ng/ml	99
68)	Fluoranthene	13.55	202	76060	191.90	ng/ml	98
70)	Pyrene	13.82	202	77160	272.47	ng/ml	98
72)	Butyl Benzyl Phthalate	14.69	149	11885	284.04	ng/ml	94
73)	3,3'-Dichlorobenzidine	15.60	252	7050m	205.40	ng/ml	
74)	Benz(a)anthracene	15.63	228	39457	228.94	ng/ml	99
75)	Chrysene	15.69	228	56944m	217.91	ng/ml	
76)	Bis(2-ethylhexyl) Phthalat	15.68	149	15932	312.49	ng/ml	98
78)	Di-n-octyl Phthalate	17.35	149	16152	425.90	ng/ml	93
79)	Benzo(b)fluoranthene	18.13	252	29855	244.11	ng/ml	98
80)	Benzo(k)fluoranthene	18.19	252	44073m	165.57	ng/ml	
81)	Benzo(a)pyrene	18.67	252	30399	256.45	ng/ml	94
82)	Indeno(1,2,3-cd)pyrene	20.57	276	22897	274.93	ng/ml	98
83)	Dibenz(a,h)anthracene	20.62	278	35801m	158.90	ng/ml	
84)	Benzo(g,h,i)perylene	21.07	276	42282m	235.85	ng/ml	

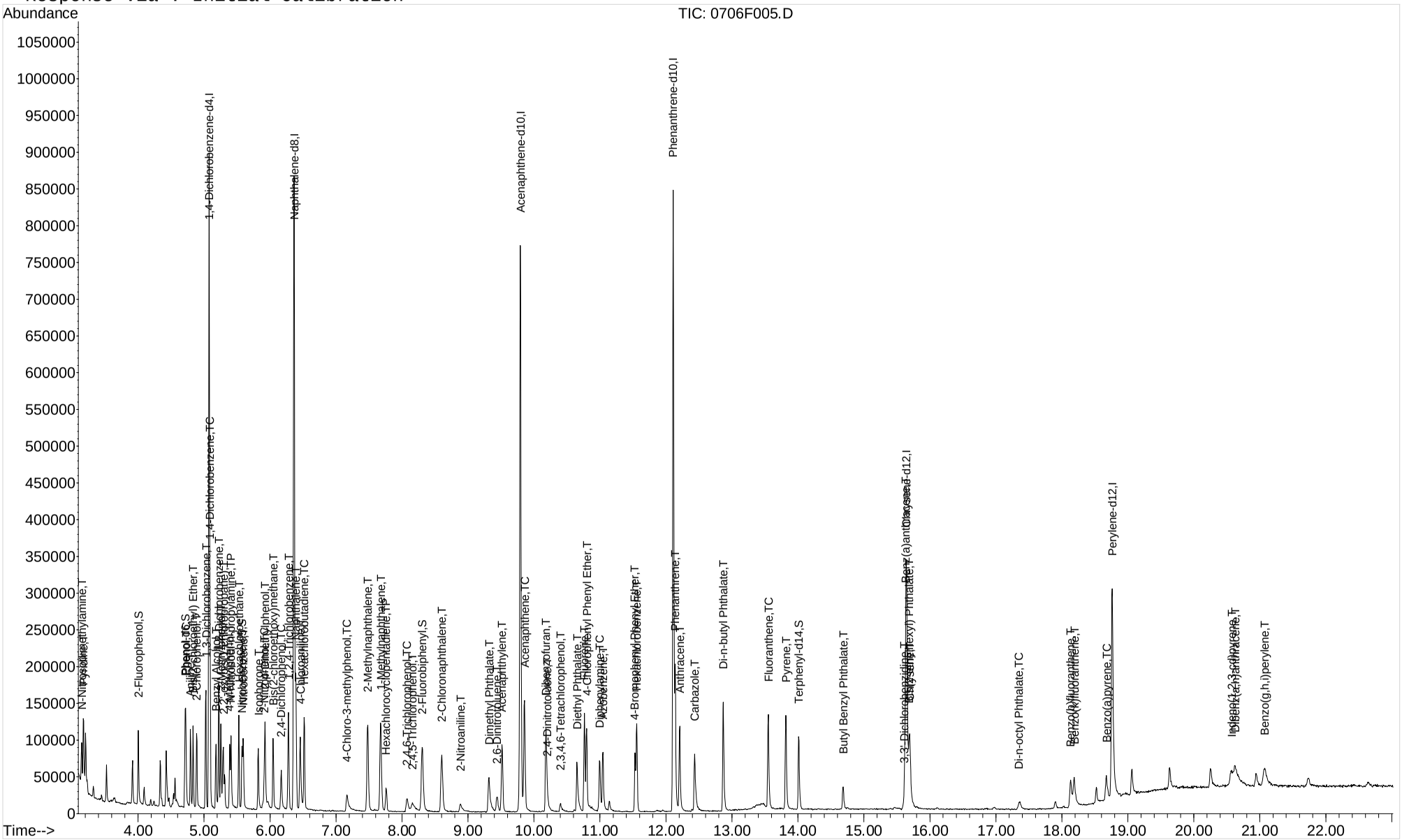
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:06 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

07/14/23
07/18/23
1st
2nd

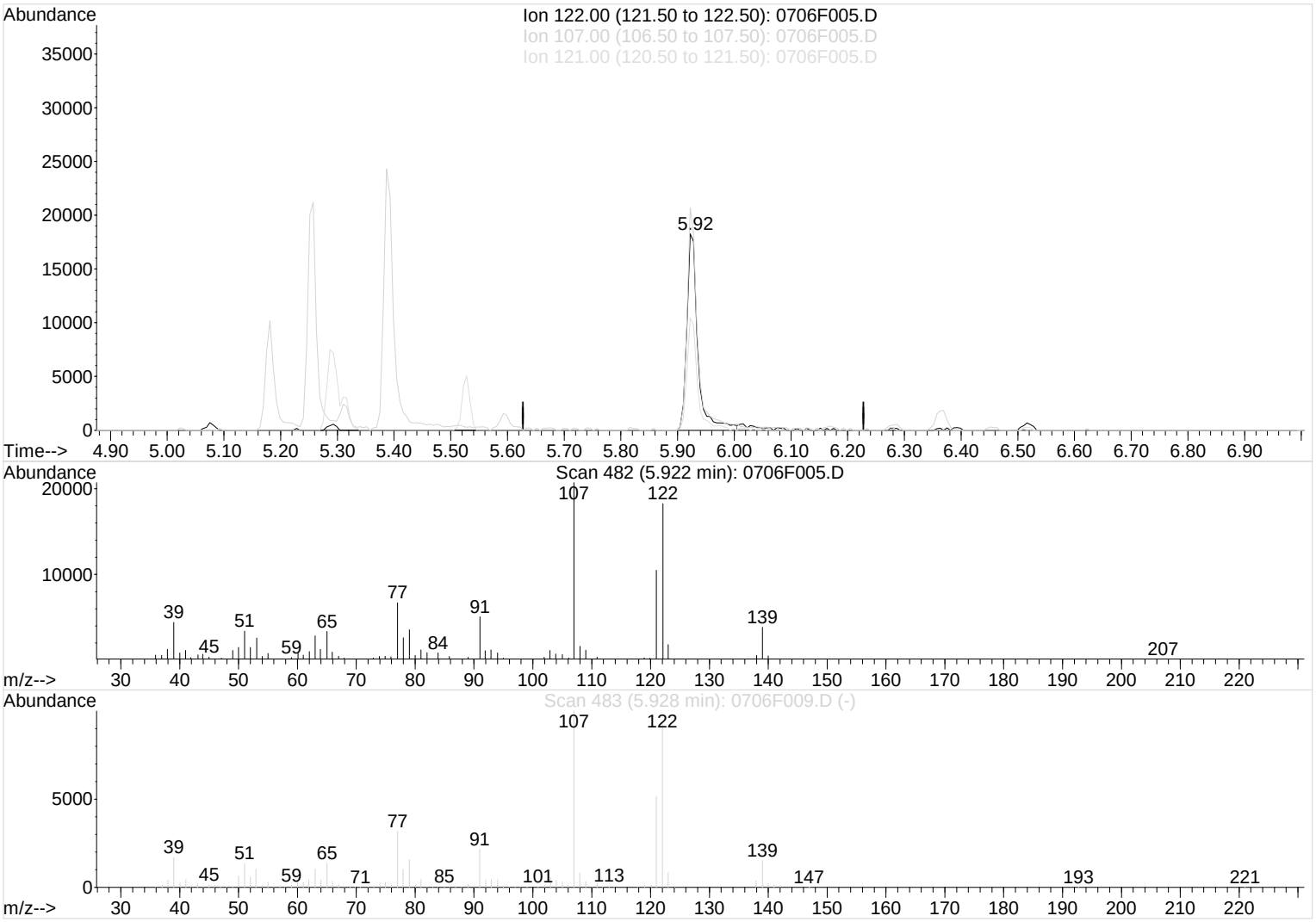


Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:41 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(24) 2,4-Dimethylphenol (T)

5.92min 162.82ng/ml

response 24841

Ion	Exp%	Act%
122.00	100	100
107.00	107.40	113.45
121.00	55.20	57.39
0.00	0.00	0.00

Manual Integration:

Before

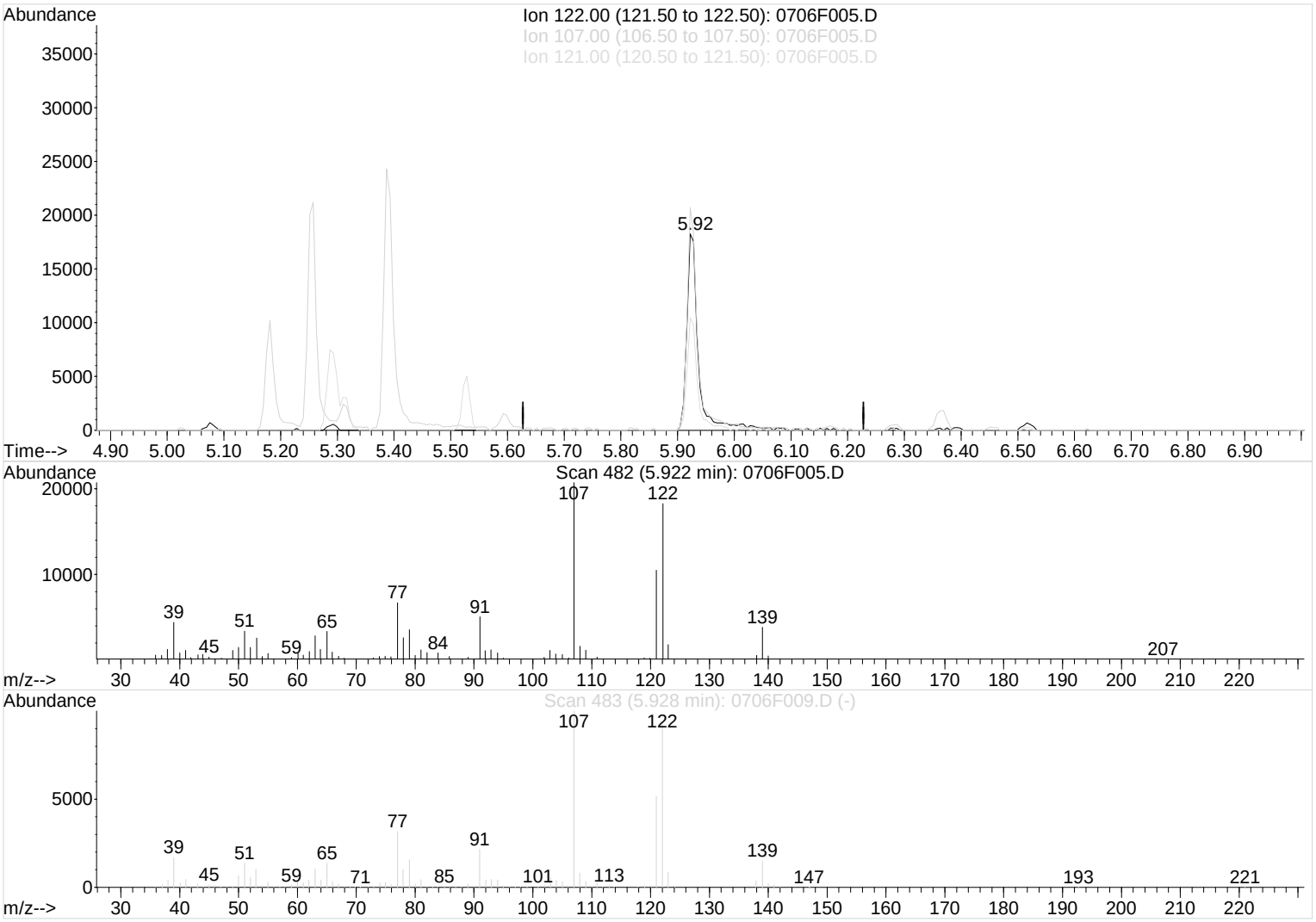
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:02 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(24) 2,4-Dimethylphenol (T)

5.92min 171.86ng/ml m

response 26220

Ion	Exp%	Act%
122.00	100	100
107.00	107.40	113.45
121.00	55.20	57.39
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

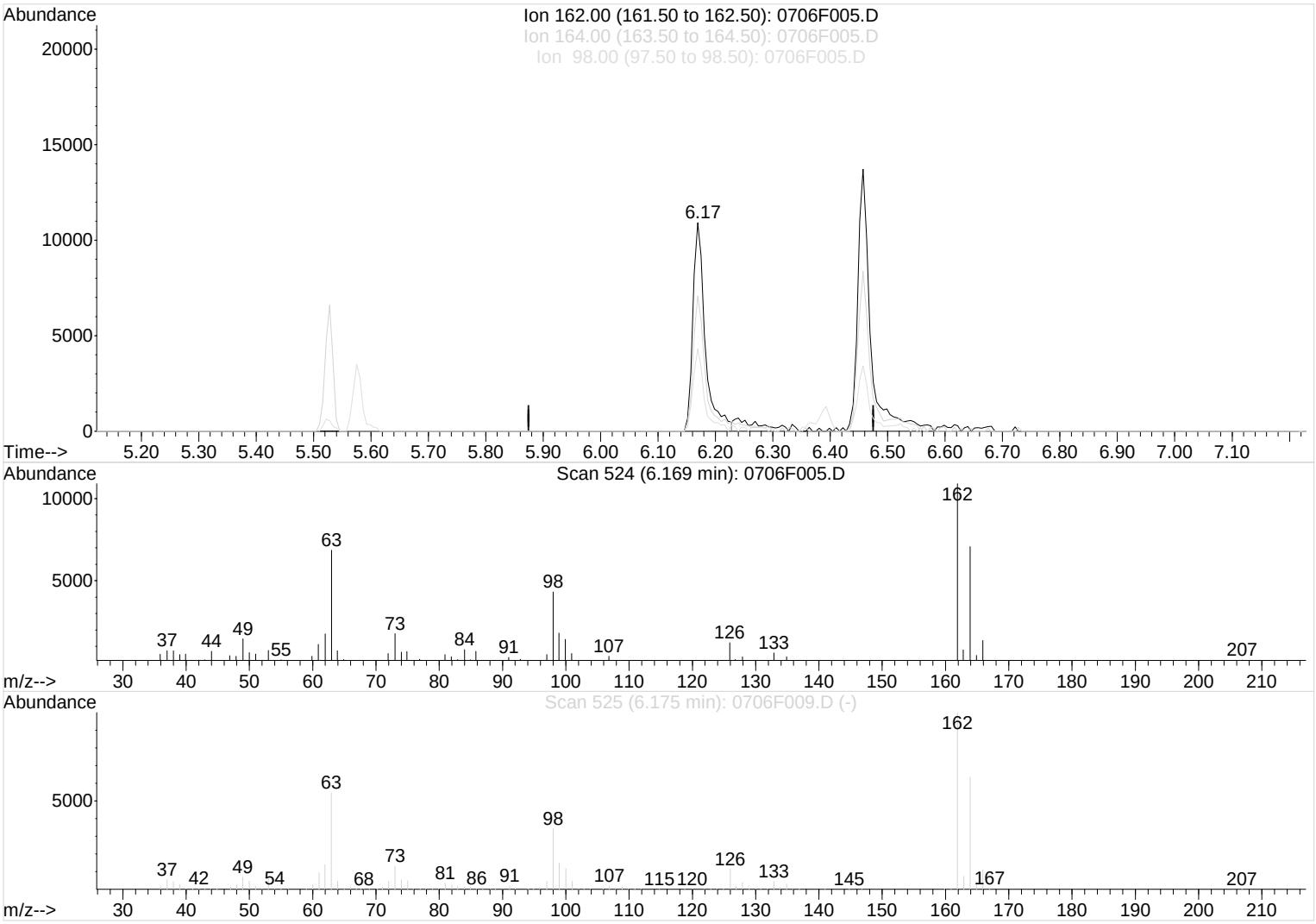
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:02 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(26) 2,4-Dichlorophenol (TC)

6.17min 125.46ng/ml

response 16287

Ion	Exp%	Act%
162.00	100	100
164.00	63.40	64.87
98.00	34.20	39.48
0.00	0.00	0.00

Manual Integration:

Before

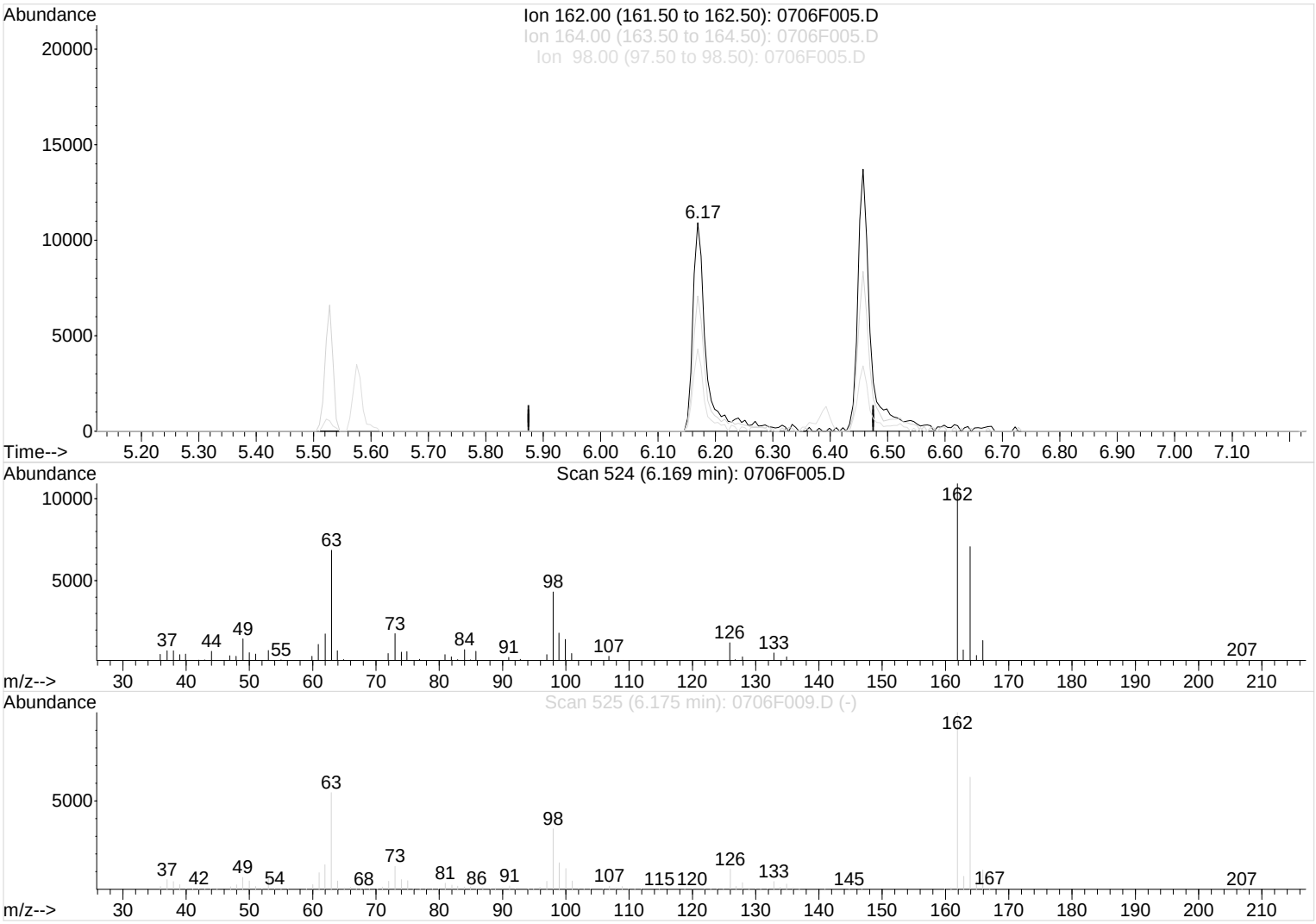
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:03 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(26) 2,4-Dichlorophenol (TC)

6.17min 140.88ng/ml m

response 18288

Ion	Exp%	Act%
162.00	100	100
164.00	63.40	64.87
98.00	34.20	39.48
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

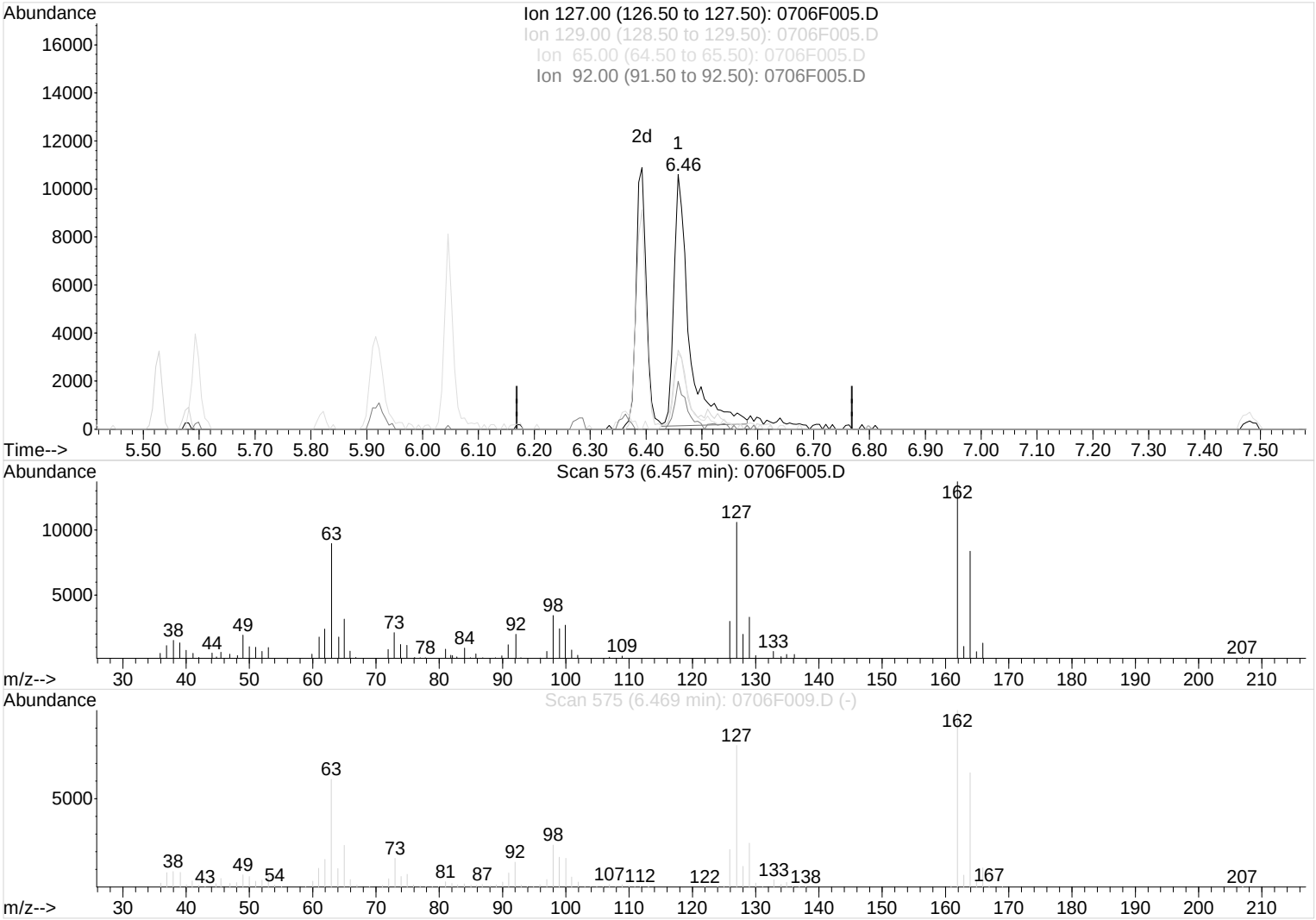
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:03 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(30) 4-Chloroaniline (T)

6.46min 213.90ng/ml

response 19951

Ion	Exp%	Act%
127.00	100	100
129.00	31.30	30.16
65.00	29.50	28.68
92.00	17.30	19.24

Manual Integration:

Before

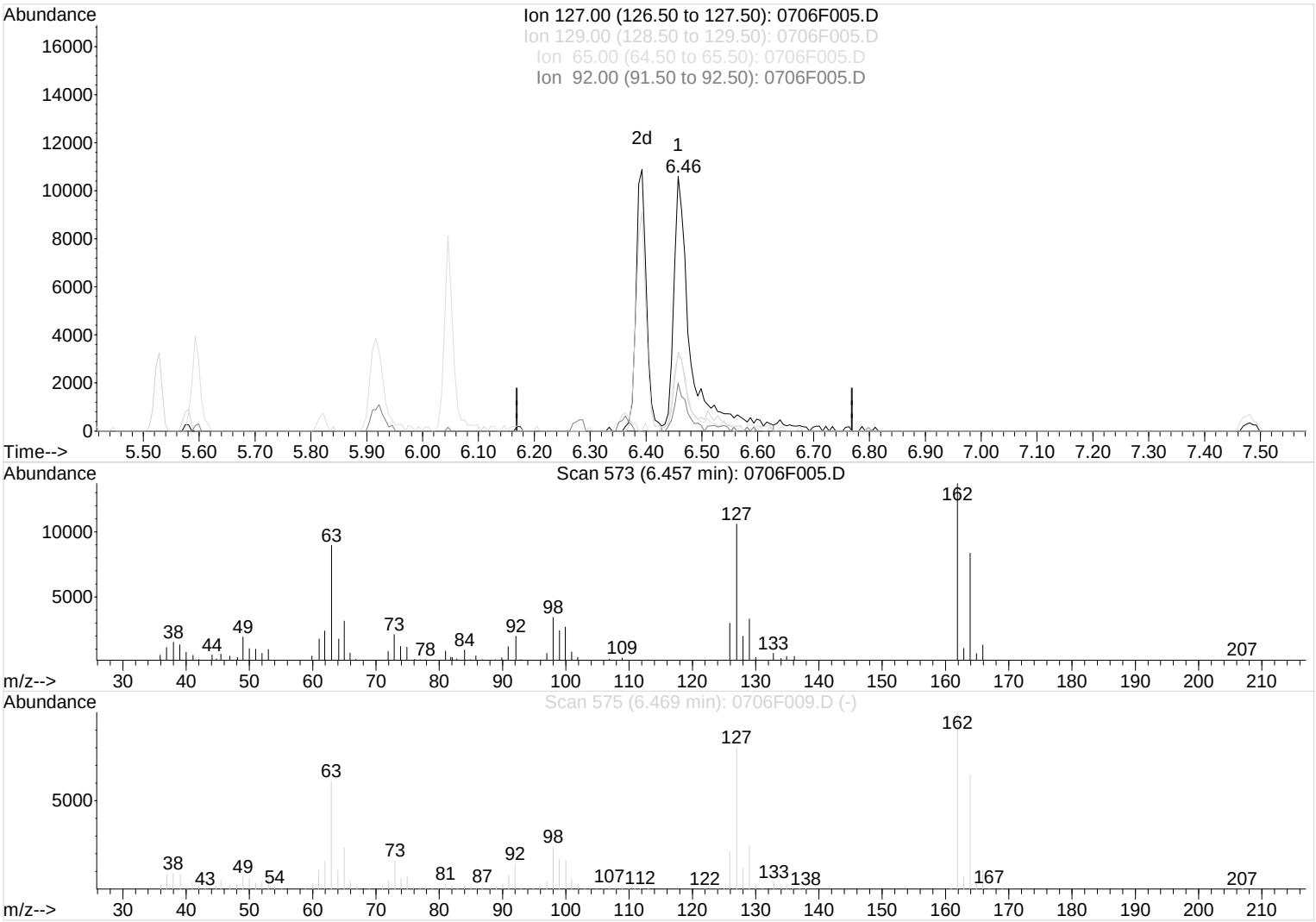
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:03 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(30) 4-Chloroaniline (T)

6.46min 241.71ng/ml m

response 22545

Ion	Exp%	Act%
127.00	100	100
129.00	31.30	31.11
65.00	29.50	29.68
92.00	17.30	18.85

Manual Integration:

After

Baseline correction

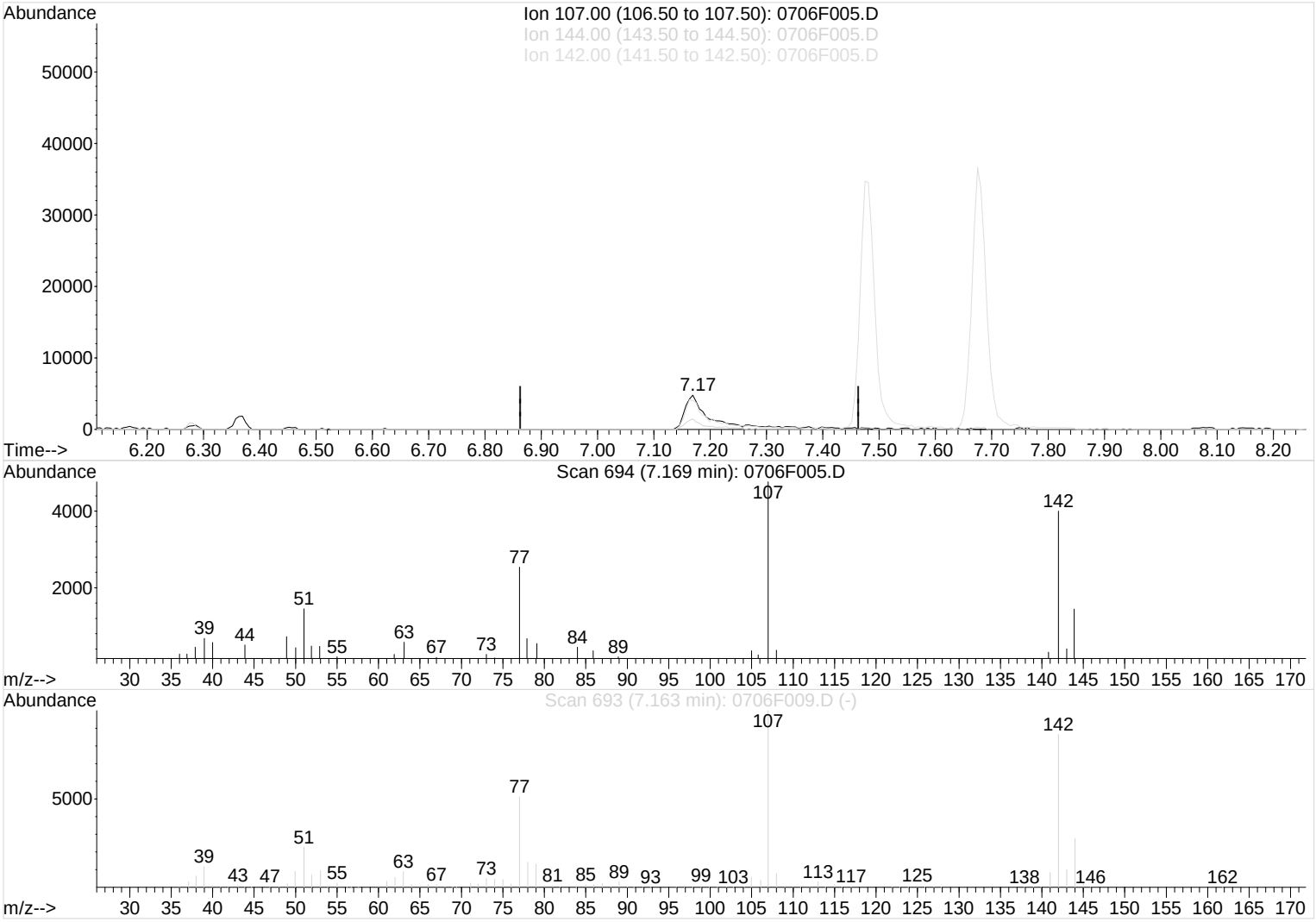
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:03 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(32) 4-Chloro-3-methylphenol (TC)

7.17min 251.19ng/ml

response 12814

Ion	Exp%	Act%
107.00	100	100
144.00	27.50	30.31
142.00	86.50	83.93
0.00	0.00	0.00

Manual Integration:

Before

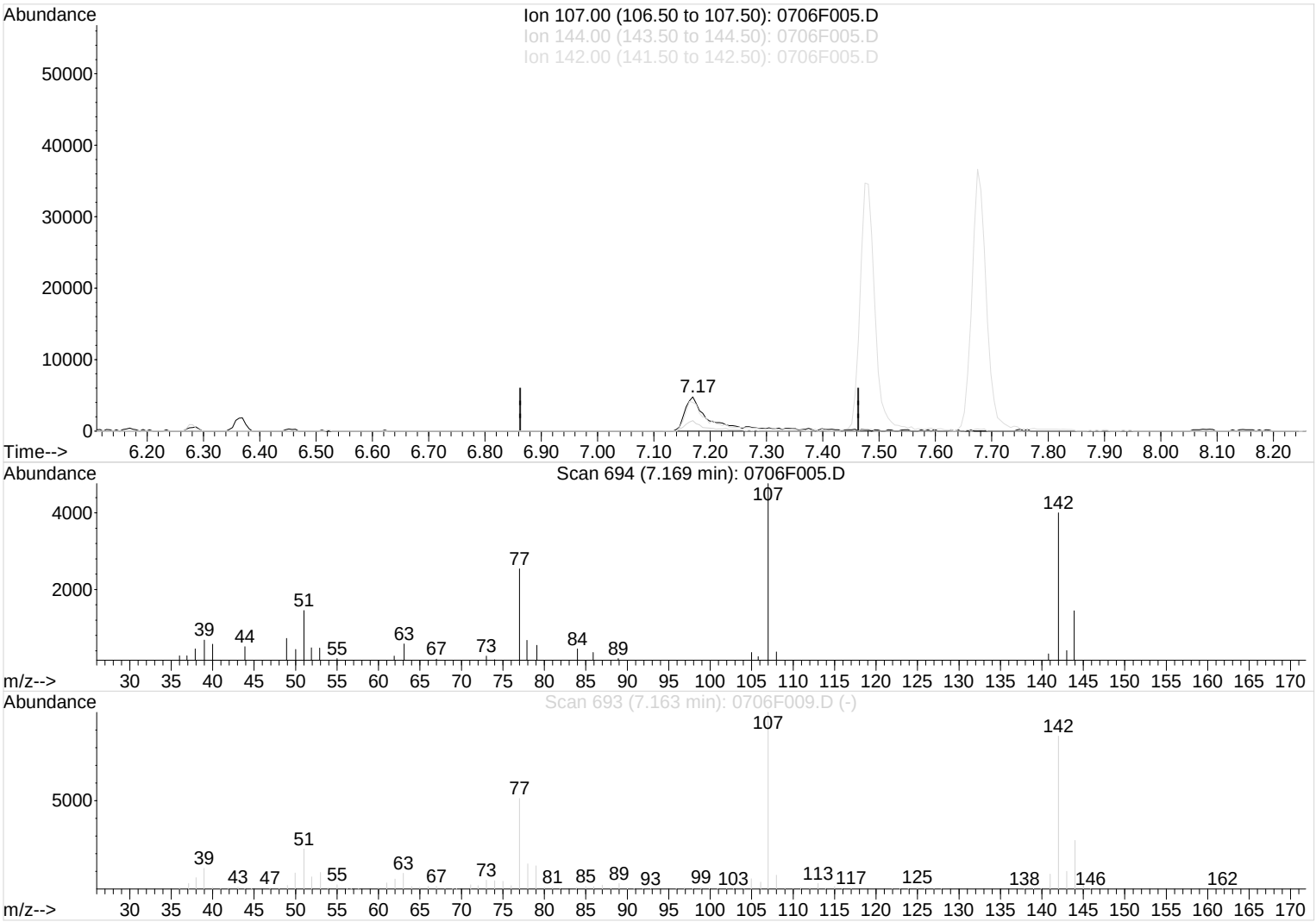
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:03 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(32) 4-Chloro-3-methylphenol (TC)

7.17min 269.00ng/ml m

response 15246

Ion	Exp%	Act%
107.00	100	100
144.00	27.50	30.31
142.00	86.50	83.93
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

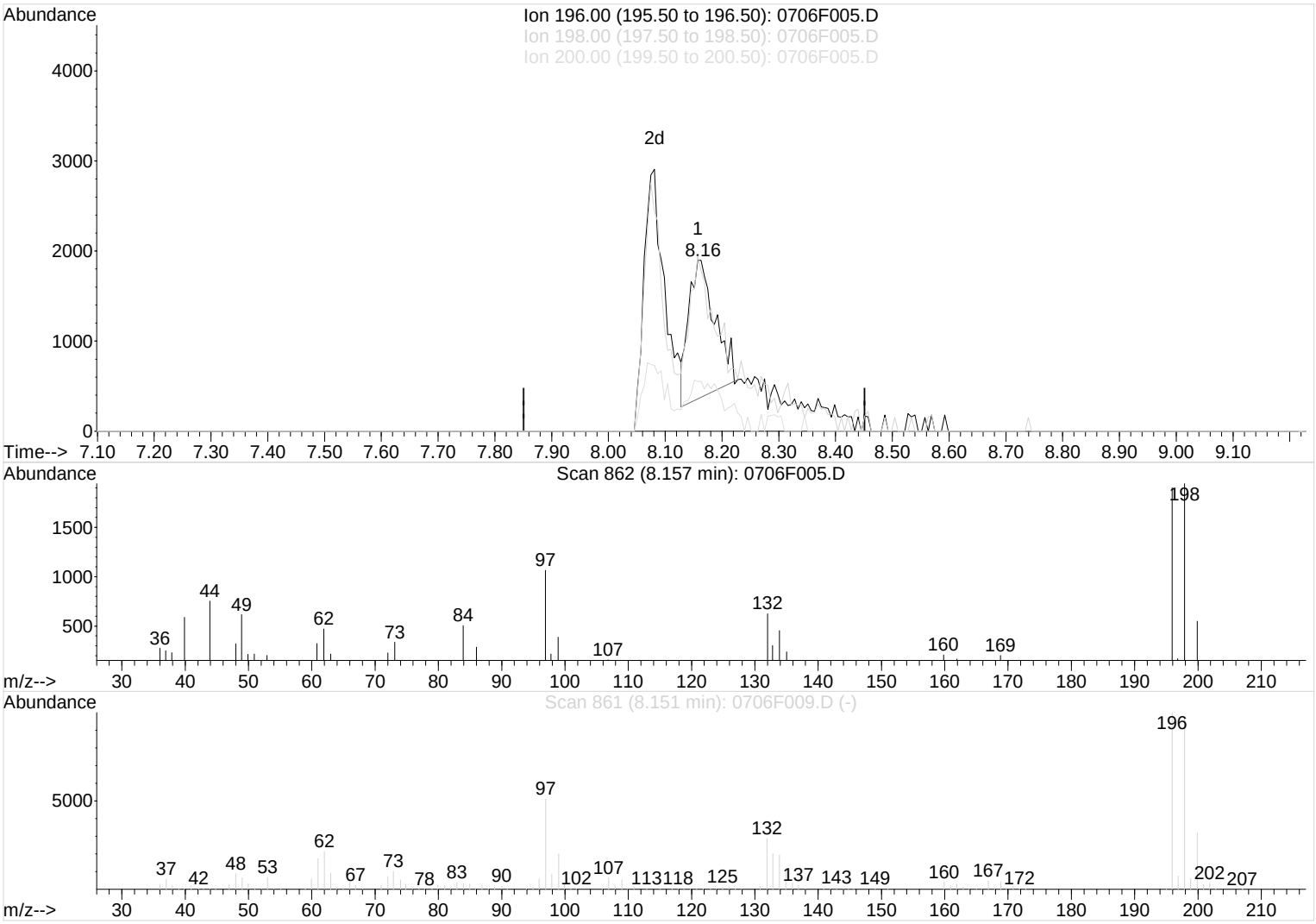
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:03 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(38) 2,4,5-Trichlorophenol (T)

8.16min 133.87ng/ml

response 4923

Ion	Exp%	Act%
196.00	100	100
198.00	96.50	102.41
200.00	31.40	26.19
0.00	0.00	0.00

Manual Integration:

Before

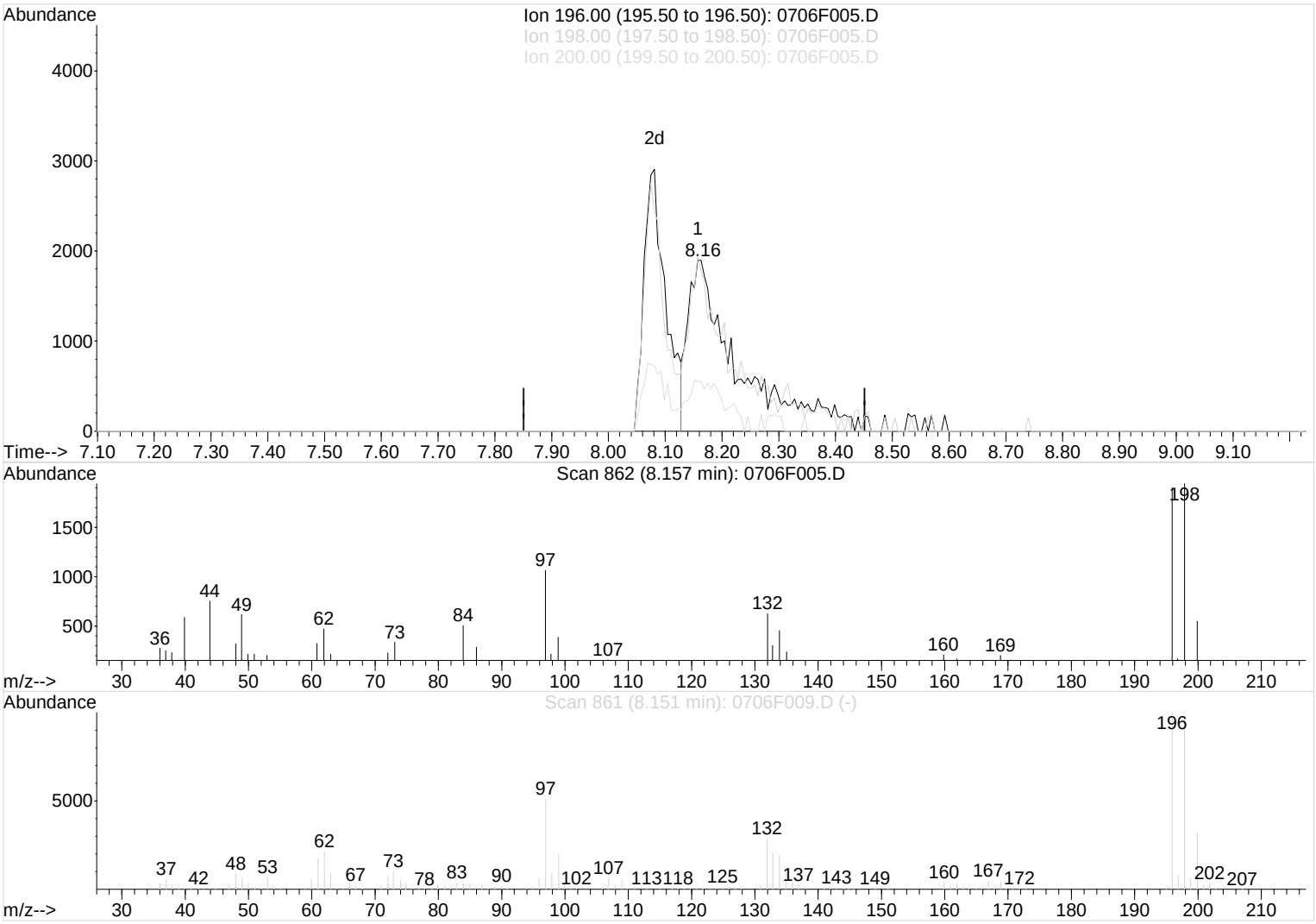
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:04 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(38) 2,4,5-Trichlorophenol (T)

8.16min 212.09ng/ml m

response 11521

Ion	Exp%	Act%
196.00	100	100
198.00	96.50	102.32
200.00	31.40	28.89
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

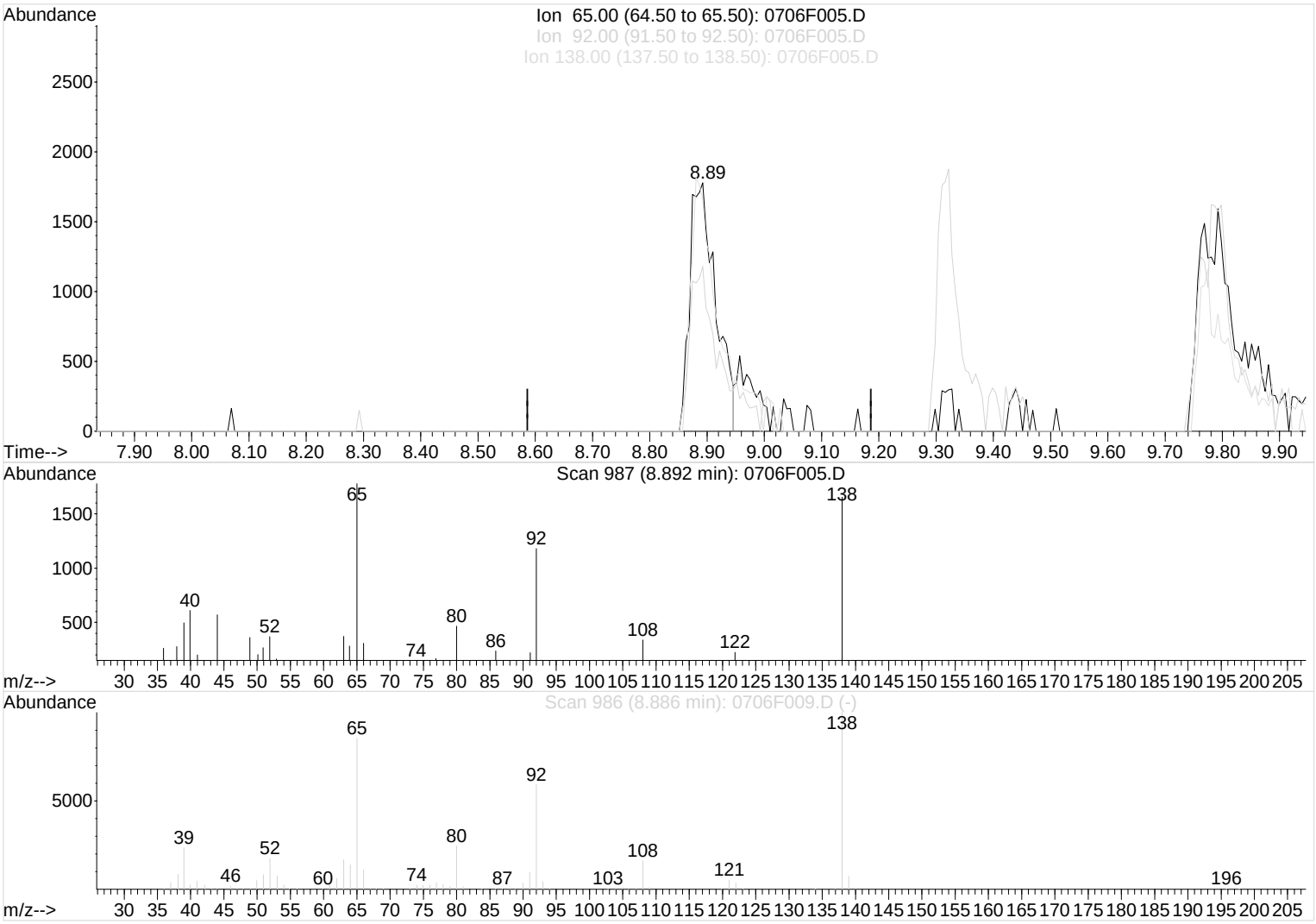
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:04 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(41) 2-Nitroaniline (T)

8.89min 305.27ng/ml

response 5601

Ion	Exp%	Act%
65.00	100	100
92.00	69.30	66.37
138.00	117.10	92.86
0.00	0.00	0.00

Manual Integration:

Before

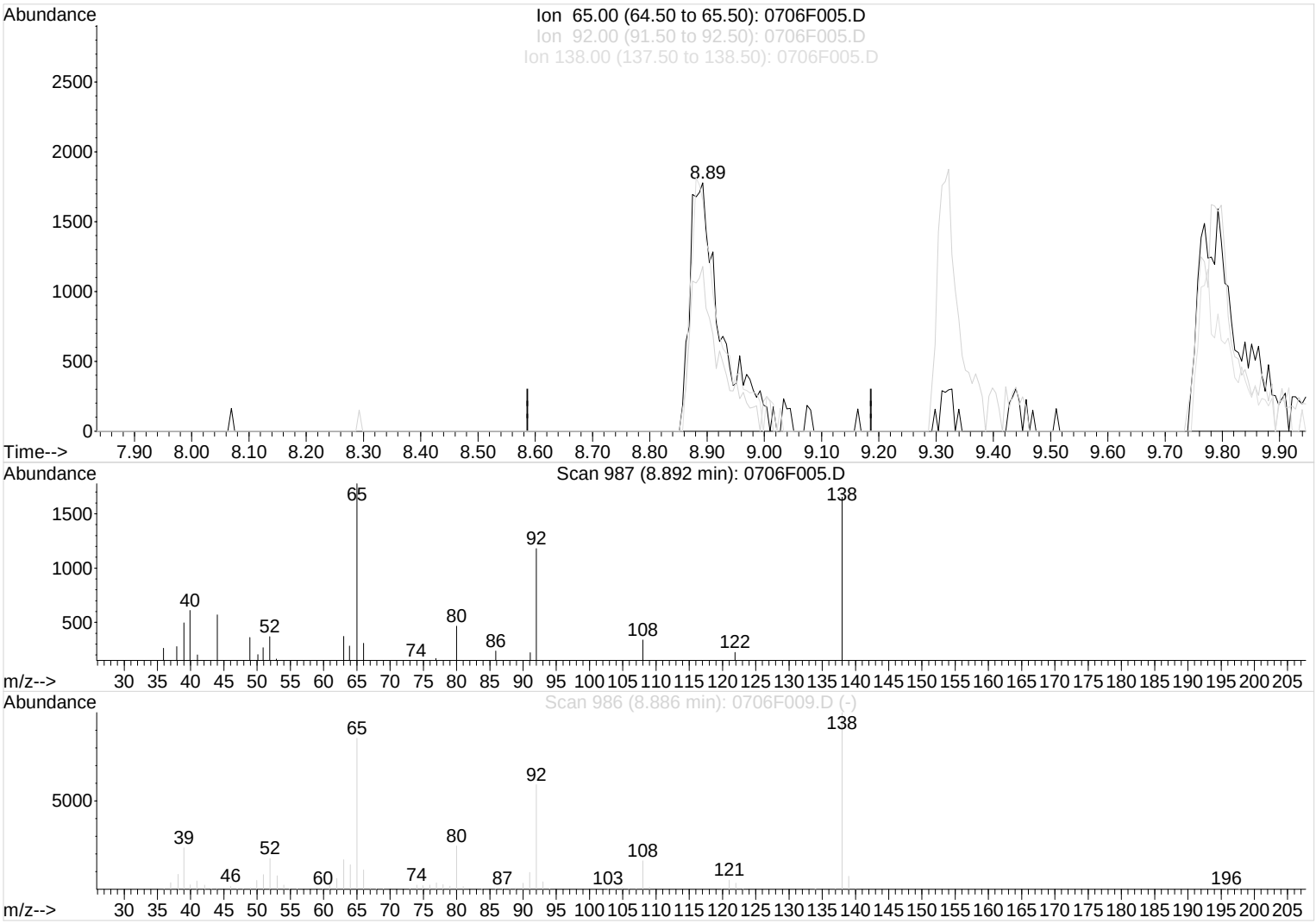
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:04 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(41) 2-Nitroaniline (T)

8.89min 318.12ng/ml m

response 6721

Ion	Exp%	Act%
65.00	100	100
92.00	69.30	66.37
138.00	117.10	92.86
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

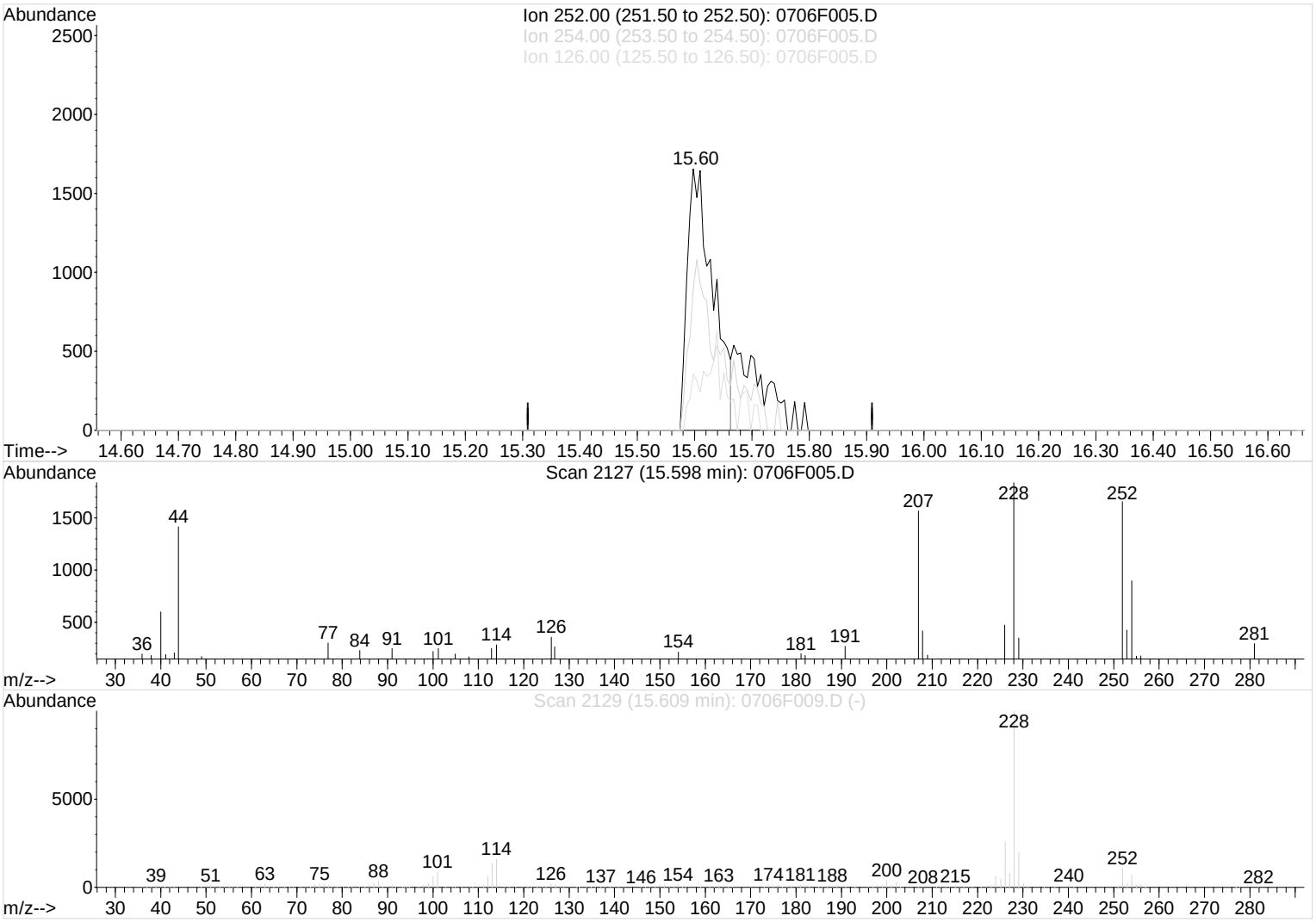
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:04 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 150.54ng/ml

response 5167

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	54.26
126.00	19.10	21.51
0.00	0.00	0.00

Manual Integration:

Before

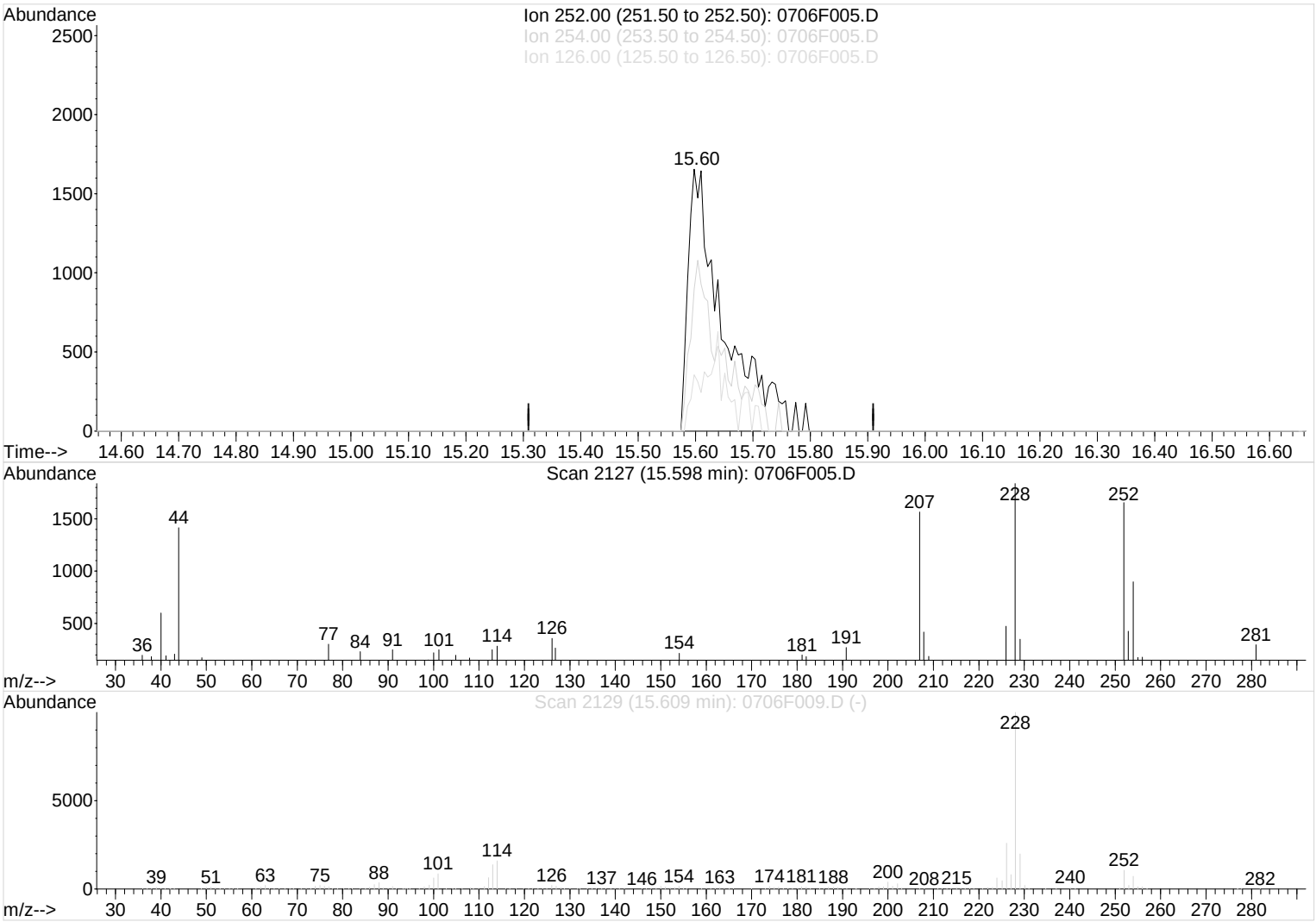
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:05 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 205.40ng/ml m

response 7050

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	54.26
126.00	19.10	21.51
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

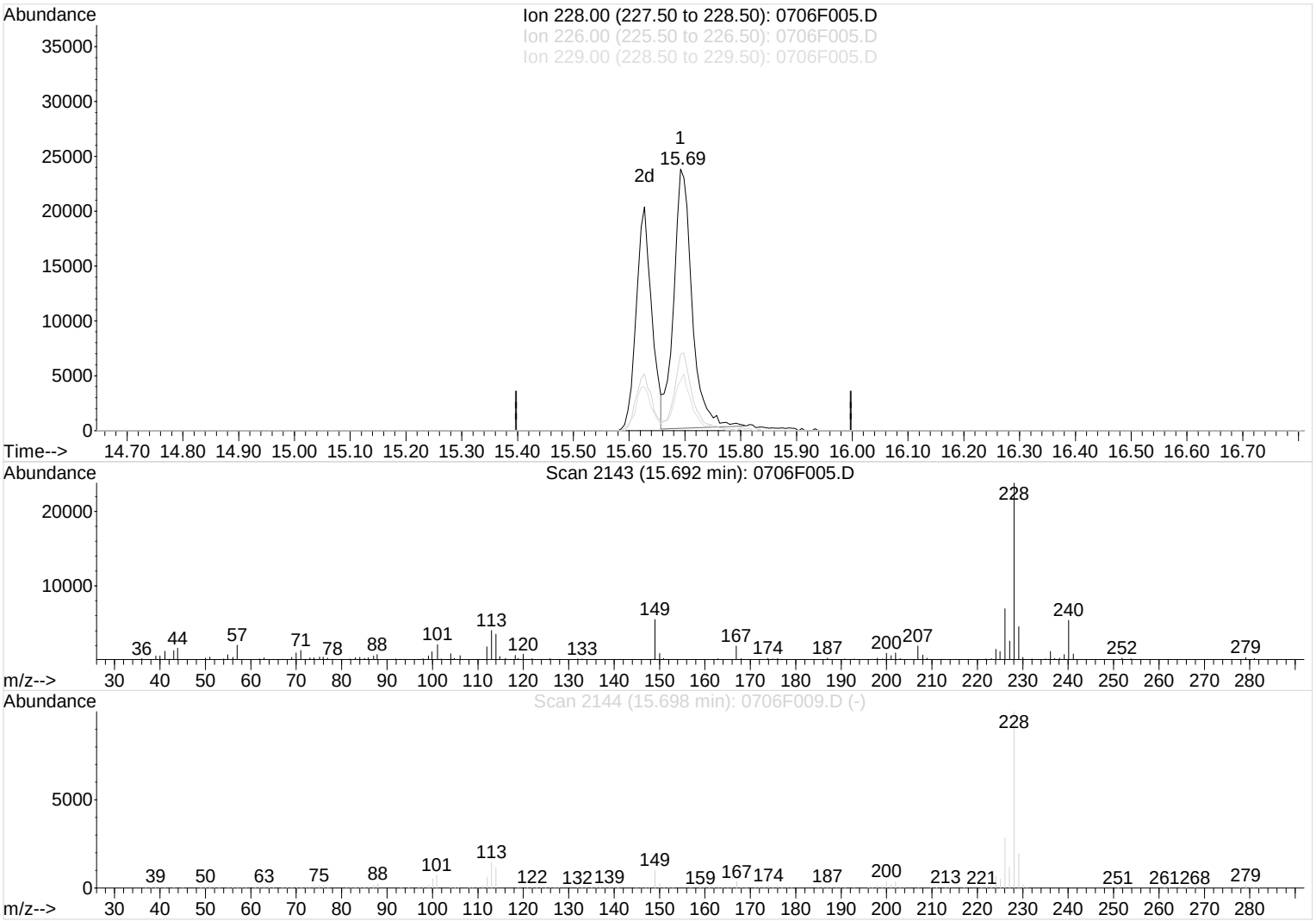
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:05 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(75) Chrysene (T)

15.69min 206.80ng/ml

response 54042

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	29.05
229.00	19.60	19.44
0.00	0.00	0.00

Manual Integration:

Before

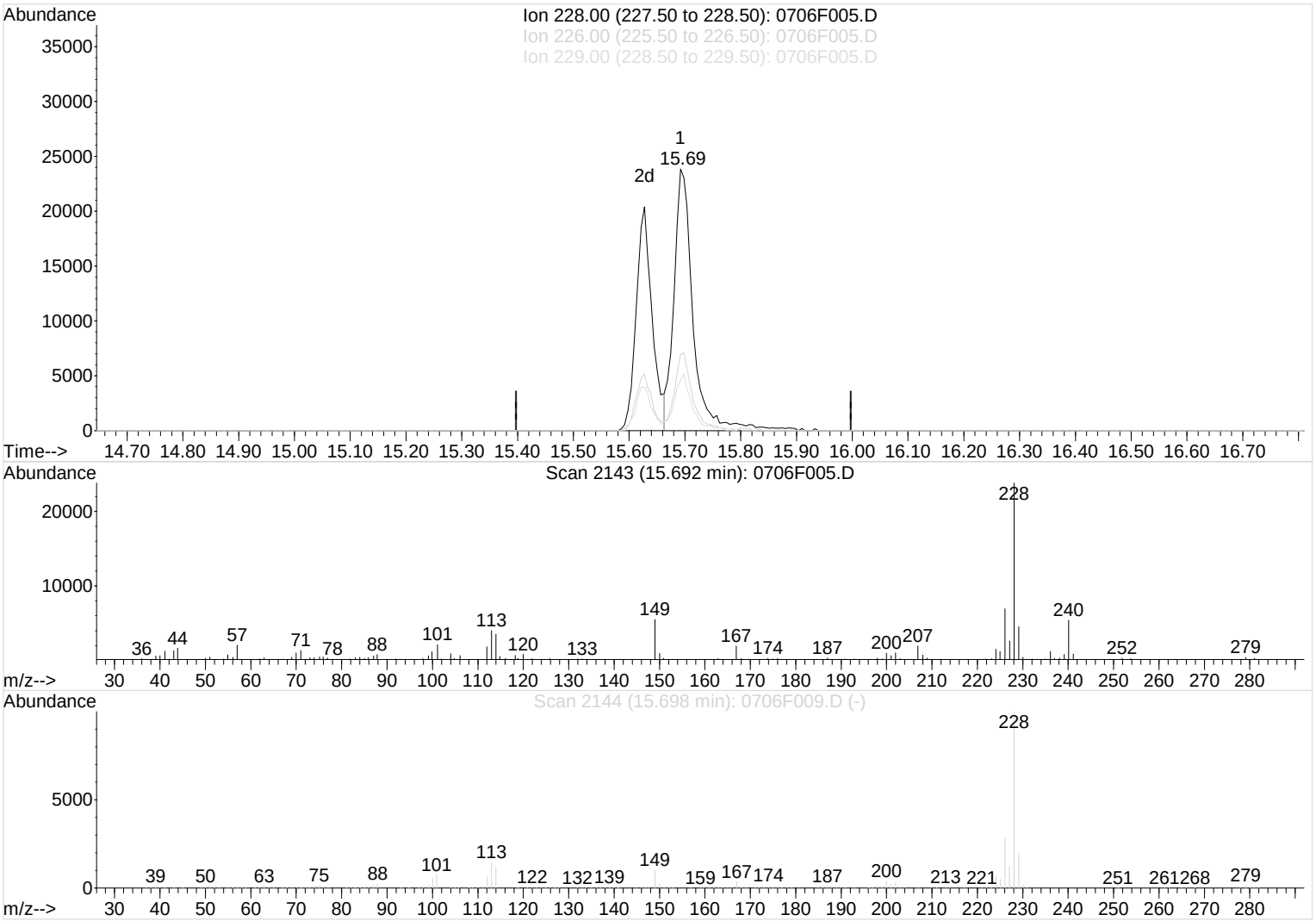
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:05 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(75) Chrysene (T)

15.69min 217.91ng/ml m

response 56944

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	29.17
229.00	19.60	19.10
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

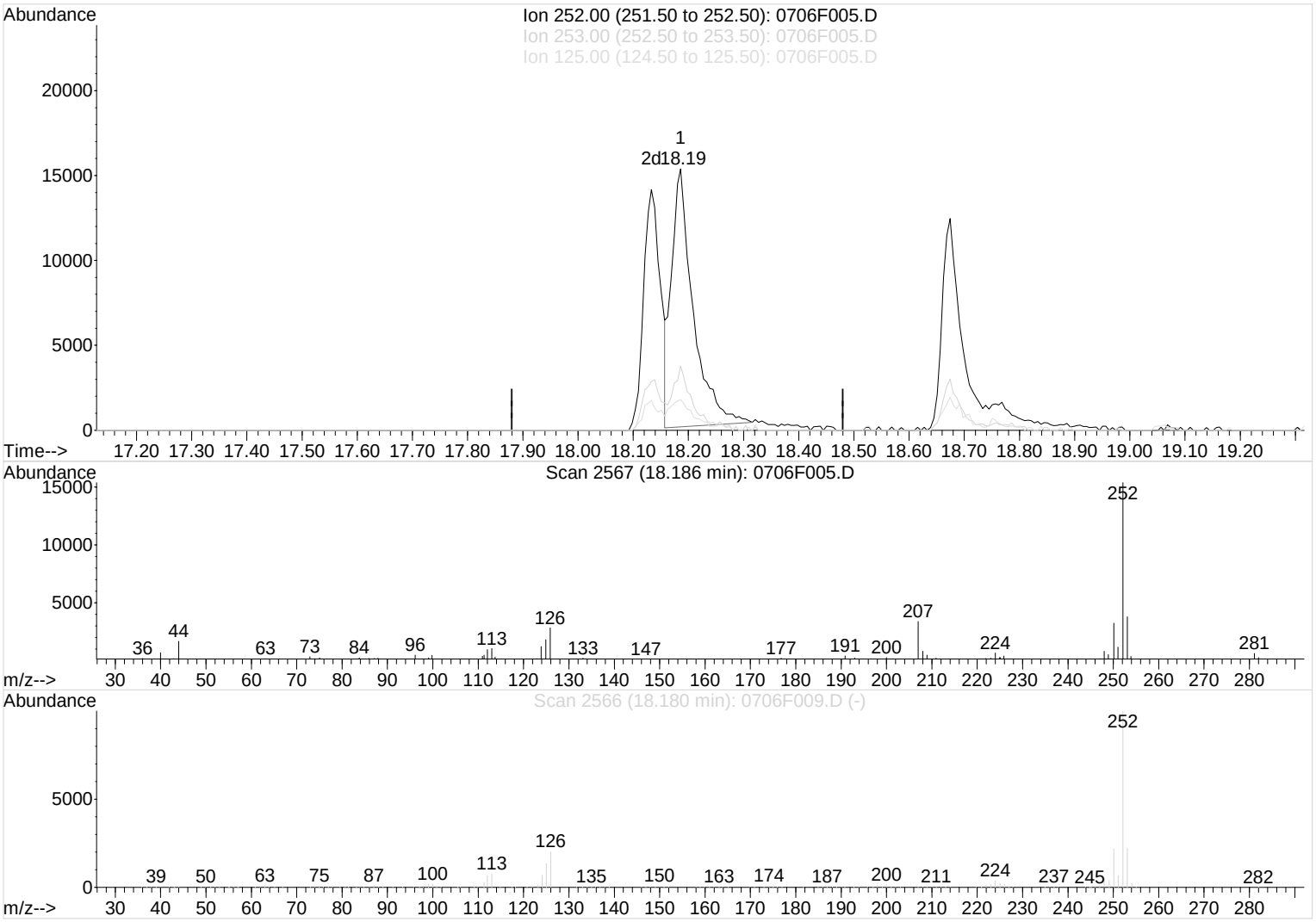
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:05 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(80) Benzo(k)fluoranthene (T)

18.19min 156.03ng/ml

response 41534

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	25.38
125.00	13.20	12.10
0.00	0.00	0.00

Manual Integration:

Before

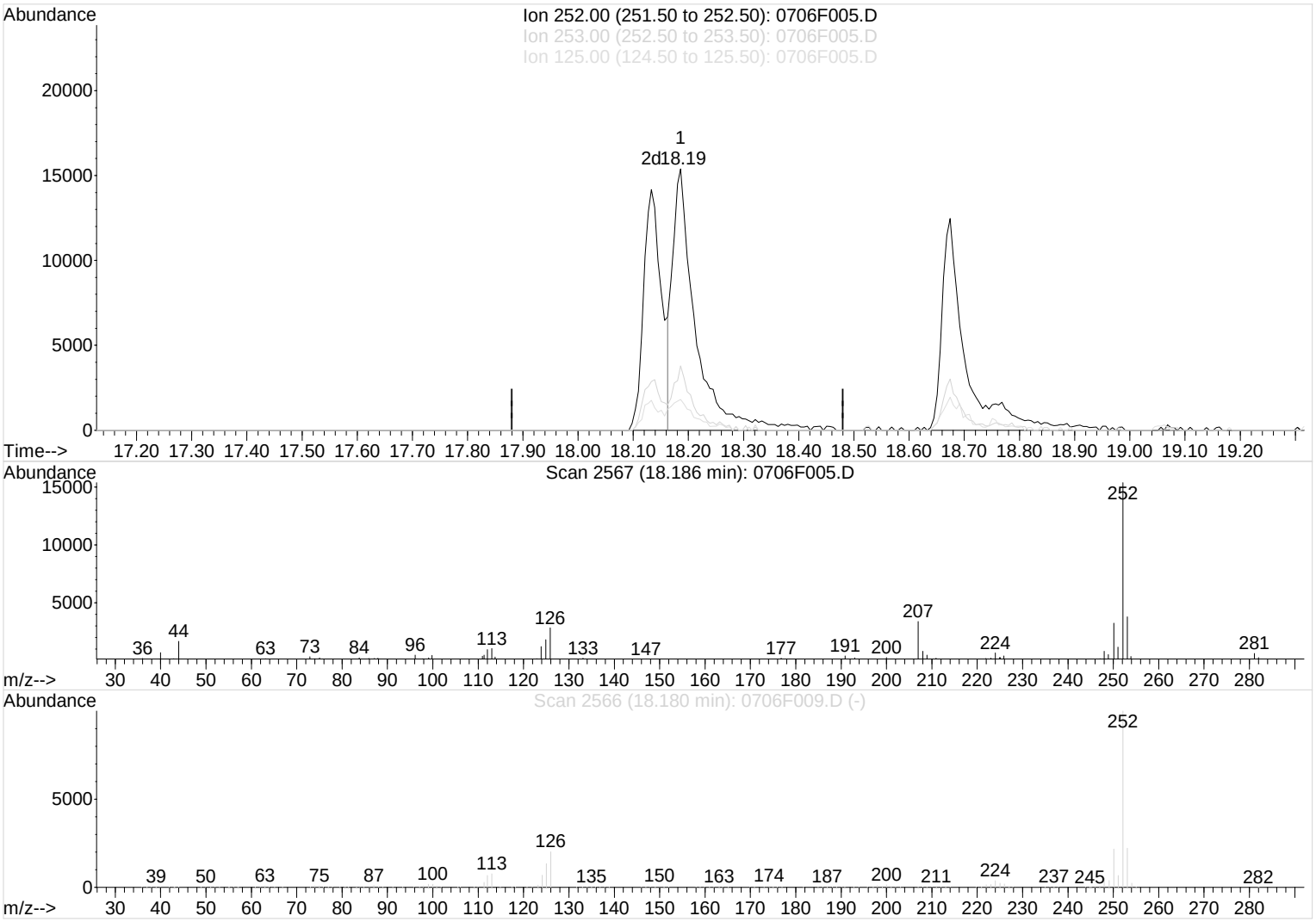
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:05 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(80) Benzo(k)fluoranthene (T)

18.19min 165.57ng/ml m

response 44073

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	24.62
125.00	13.20	11.74
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

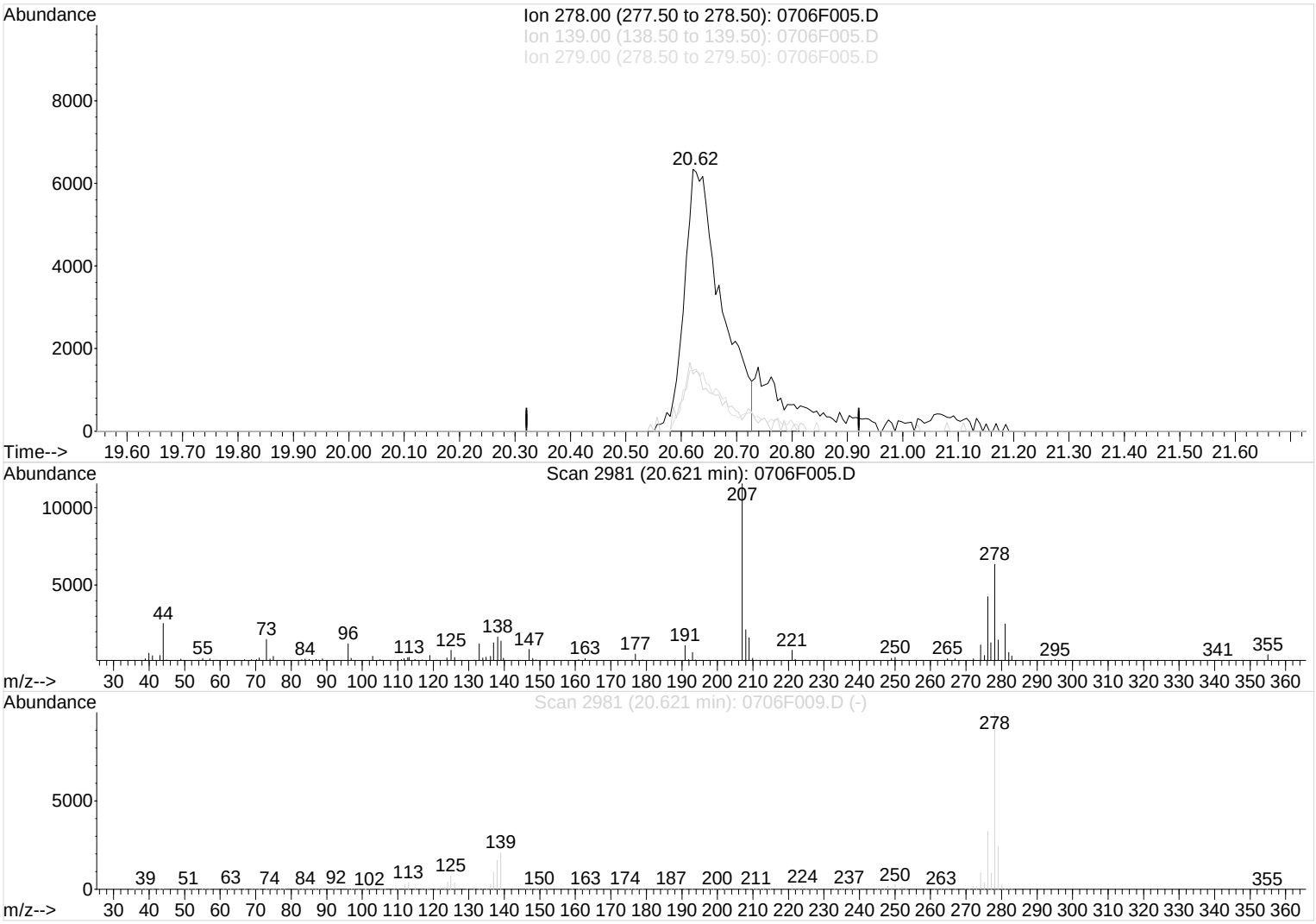
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:05 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(83) Dibenz(a,h)anthracene (T)

20.62min 127.29ng/ml

response 29582

Ion	Exp%	Act%
278.00	100	100
139.00	20.70	19.21
279.00	24.20	23.17
0.00	0.00	0.00

Manual Integration:

Before

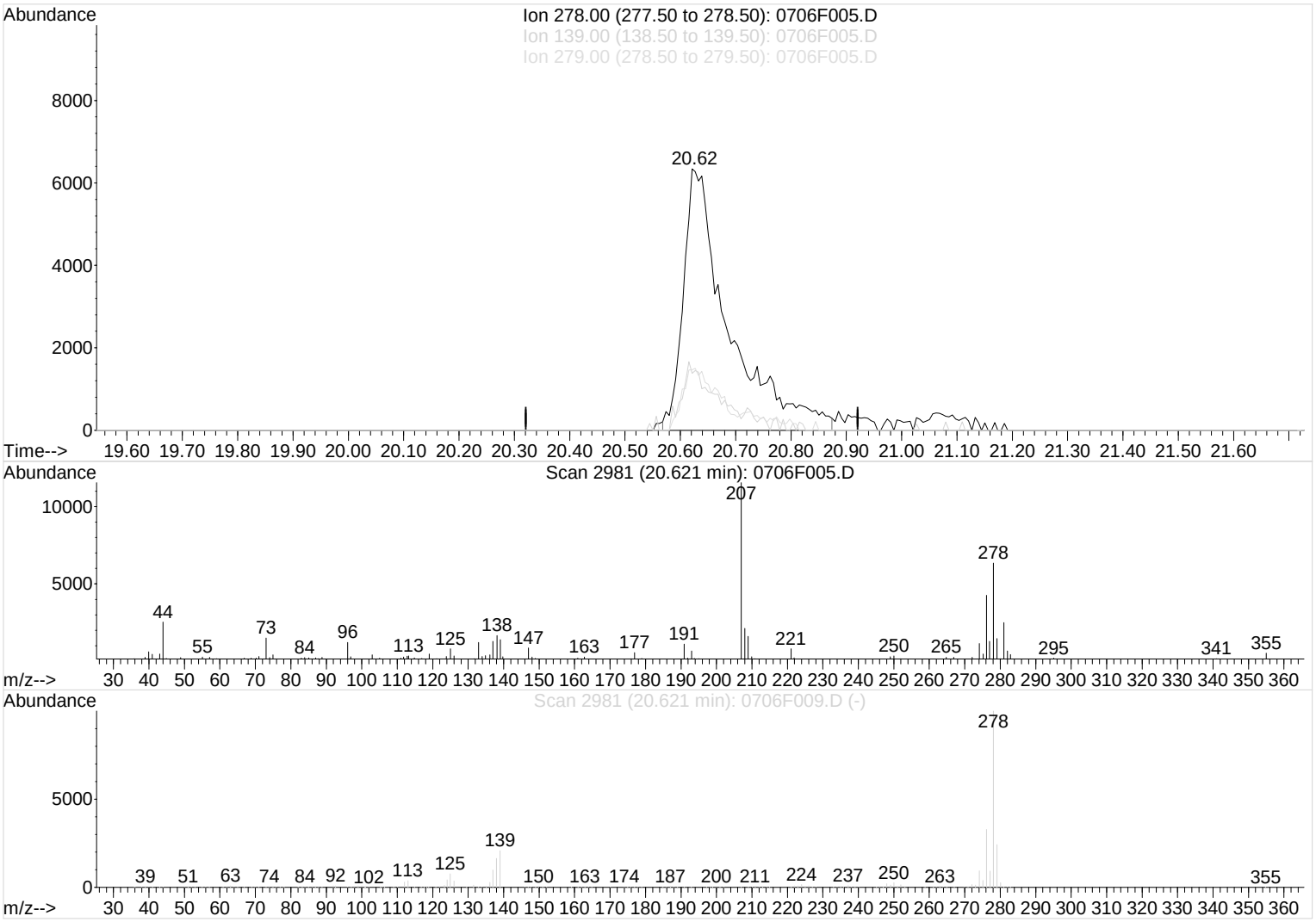
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:06 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(83) Dibenz(a,h)anthracene (T)

20.62min 158.90ng/ml m

response 35801

Ion	Exp%	Act%
278.00	100	100
139.00	20.70	21.82
279.00	24.20	23.17
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

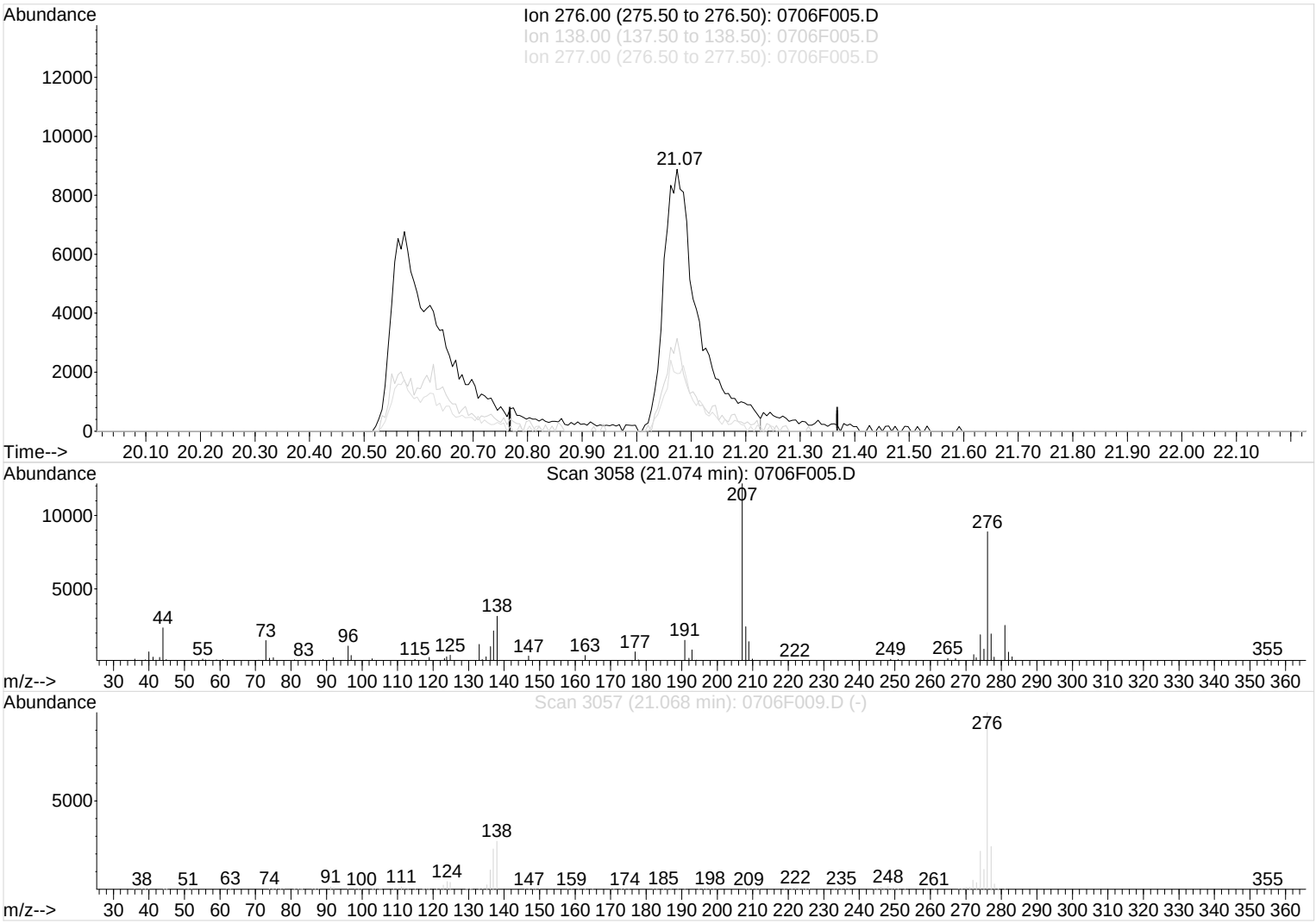
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:06 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(84) Benzo(g,h,i)perylene (T)

21.07min 223.33ng/ml

response 40037

Ion	Exp%	Act%
276.00	100	100
138.00	27.10	35.36
277.00	24.10	21.97
0.00	0.00	0.00

Manual Integration:

Before

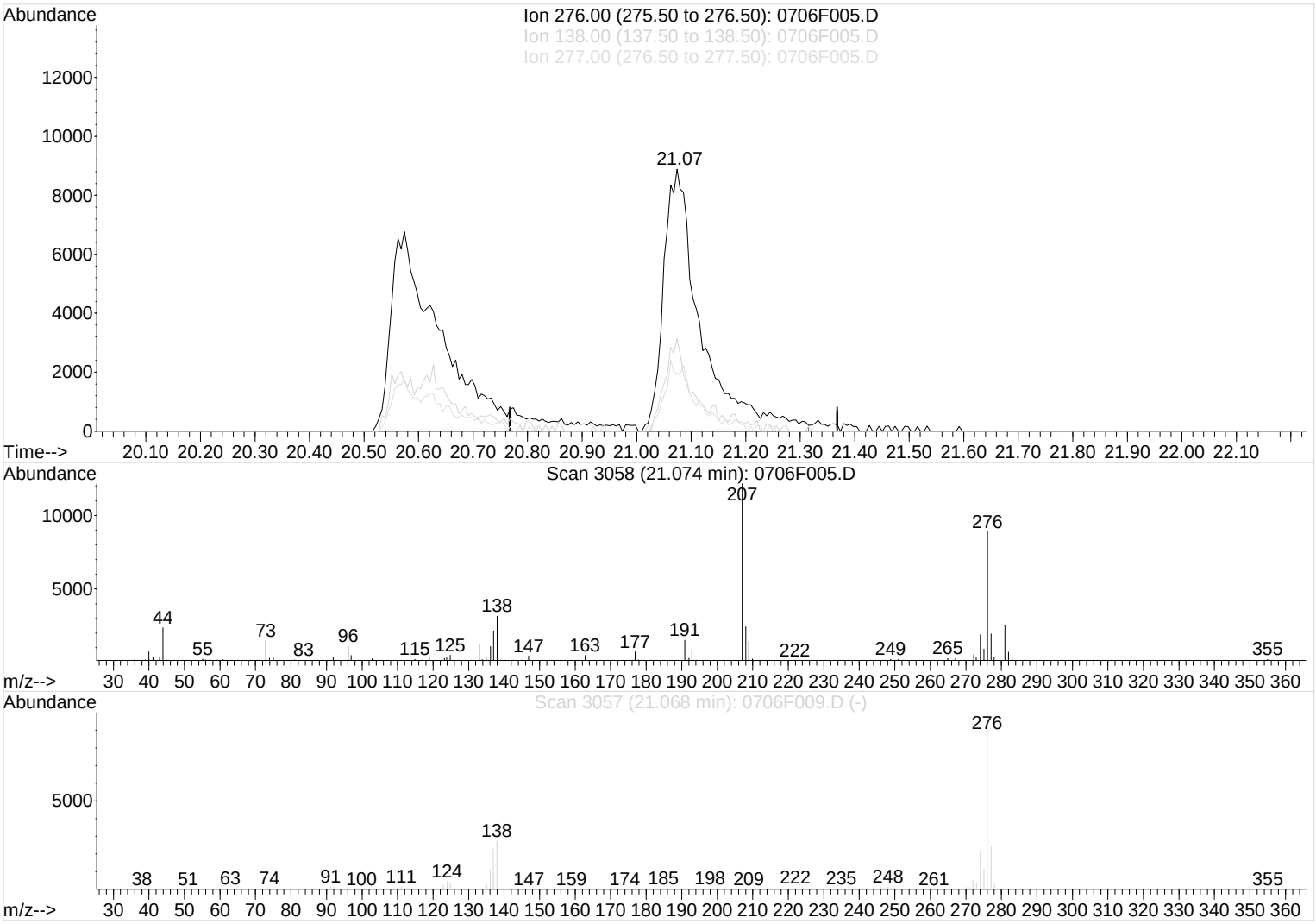
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F005.D Vial: 4
Acq On : 6 Jul 2023 12:45 pm Operator: CSD
Sample : SVO_LL ICAL 0.2ppm SVM70-29E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 16:06 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:14:48 2023
Response via : Multiple Level Calibration



TIC: 0706F005.D

(84) Benzo(g,h,i)perylene (T)

21.07min 235.85ng/ml m

response 42282

Ion	Exp%	Act%
276.00	100	100
138.00	27.10	35.36
277.00	24.10	21.97
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/11/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:01:18 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	137017	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.36	136	525945	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.79	164	274287	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	416325	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	249728	1000.00	ng/ml	0.00
77) Perylene-d12	18.76	264	244180	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	79936	460.27	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 12.27%#			
6) Phenol-d6	4.71	99	93458	462.28	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 12.33%#			
19) Nitrobenzene-d5	5.58	82	79867	445.90	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 17.84%#			
39) 2-Fluorobiphenyl	8.30	172	179549	503.21	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 20.13%#			
60) 2,4,6-Tribromophenol	11.14	330	14604	586.06	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 15.63%#			
71) Terphenyl-d14	14.01	244	142529	588.33	ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 23.53%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.15	42	44501	488.61	ng/ml	95
3) Pyridine	3.18	79	96240	454.33	ng/ml	95
5) Bis(2-chloroethyl) Ether	4.83	93	94825	501.94	ng/ml	97
7) Phenol	4.72	94	105259	477.74	ng/ml	98
8) Aniline	4.79	93	103101	574.59	ng/ml	98
9) 2-Chlorophenol	4.89	128	86638	474.41	ng/ml	96
10) 1,3-Dichlorobenzene	5.03	146	103987	517.99	ng/ml	99
11) 1,4-Dichlorobenzene	5.09	146	107934	520.80	ng/ml	98
12) 1,2-Dichlorobenzene	5.22	146	101559	525.78	ng/ml	100
13) Benzyl Alcohol	5.18	108	46987	537.33	ng/ml	99
14) 2,2'-oxybis(1-chloropropan	5.29	45	116135	514.39	ng/ml	99
15) 2-Methylphenol	5.26	107	66467	472.08	ng/ml	98
16) Hexachloroethane	5.53	117	38682	483.05	ng/ml	96
17) N-Nitrosodi-n-propylamine	5.41	70	55407	448.79	ng/ml	98
18) 4-Methylphenol	5.39	107	83911	505.06	ng/ml	99
20) Nitrobenzene	5.59	77	85253	466.44	ng/ml	95
22) Isophorone	5.82	82	134221	443.33	ng/ml	98
23) 2-Nitrophenol	5.92	139	34940m	395.71	ng/ml	
24) 2,4-Dimethylphenol	5.93	122	73856	480.98	ng/ml	97
25) Bis(2-chloroethoxy)methane	6.05	93	101935	500.69	ng/ml	100
26) 2,4-Dichlorophenol	6.17	162	56365	424.38	ng/ml	98
28) 1,2,4-Trichlorobenzene	6.28	180	80784	520.83	ng/ml	99
29) Naphthalene	6.39	128	271249	519.89	ng/ml	99
30) 4-Chloroaniline	6.46	127	67404m	792.25	ng/ml	
31) Hexachlorobutadiene	6.52	225	44521	530.25	ng/ml	98
32) 4-Chloro-3-methylphenol	7.16	107	47050	504.96	ng/ml	98
33) 2-Methylnaphthalene	7.48	141	145786	484.58	ng/ml	99
34) 1-Methylnaphthalene	7.67	141	150669	495.46	ng/ml	99
36) Hexachlorocyclopentadiene	7.76	237	24443	585.86	ng/ml	99
37) 2,4,6-Trichlorophenol	8.07	196	29605	528.07	ng/ml	94
38) 2,4,5-Trichlorophenol	8.15	196	38311m	533.90	ng/ml	
40) 2-Chloronaphthalene	8.60	162	143196	486.19	ng/ml	98
41) 2-Nitroaniline	8.89	65	26076m	606.60	ng/ml	
42) Acenaphthylene	9.52	152	206518	451.15	ng/ml	98
43) Dimethyl Phthalate	9.32	163	148851	467.78	ng/ml	100
44) 2,6-Dinitrotoluene	9.44	165	19996	554.15	ng/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:01:18 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

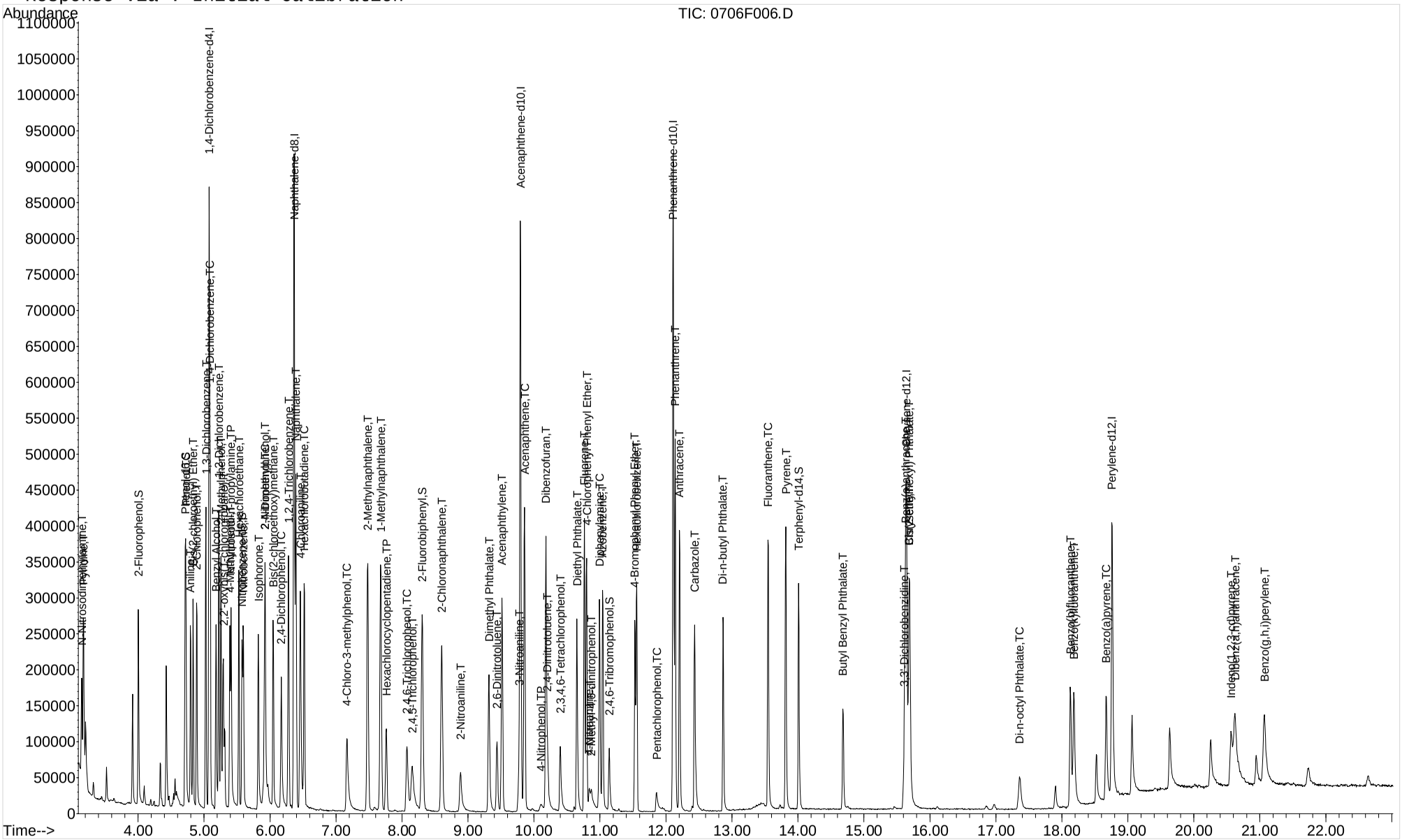
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Acenaphthene	9.86	154	141620	502.67	ng/ml	98
46)	3-Nitroaniline	9.77	138	21062m	256.01	ng/ml	
48)	Dibenzofuran	10.18	168	223486	511.85	ng/ml	97
49)	4-Nitrophenol	10.10	109	3480	718.61	ng/ml#	67
50)	2,4-Dinitrotoluene	10.20	165	24160	557.04	ng/ml	94
51)	2,3,4,6-Tetrachlorophenol	10.40	232	22721	531.92	ng/ml	93
52)	Fluorene	10.76	166	157349	486.36	ng/ml	99
53)	4-Chlorophenyl Phenyl Ethe	10.80	204	78372	515.87	ng/ml	98
54)	Diethyl Phthalate	10.65	149	148726	520.41	ng/ml	99
55)	4-Nitroaniline	10.84	138	21670m	612.77	ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.87	198	3832	760.17	ng/ml	86
57)	Diphenylamine	10.99	169	104108	507.78	ng/ml	99
58)	Azobenzene	11.04	77	154463	470.69	ng/ml	96
61)	4-Bromophenyl Phenyl Ether	11.53	248	40008	537.25	ng/ml	96
62)	Hexachlorobenzene	11.56	284	49985	483.87	ng/ml	98
63)	Pentachlorophenol	11.86	266	9609m	564.76	ng/ml	
64)	Phenanthrene	12.14	178	229233	507.85	ng/ml	99
65)	Anthracene	12.20	178	197169	454.37	ng/ml	100
66)	Carbazole	12.43	167	173781	486.44	ng/ml	99
67)	Di-n-butyl Phthalate	12.86	149	179939	583.67	ng/ml	99
68)	Fluoranthene	13.55	202	204087	502.35	ng/ml	97
70)	Pyrene	13.82	202	209230	688.04	ng/ml	98
72)	Butyl Benzyl Phthalate	14.68	149	48527	529.82	ng/ml	97
73)	3,3'-Dichlorobenzidine	15.60	252	26810m	737.08	ng/ml	
74)	Benz(a)anthracene	15.62	228	132336	513.81	ng/ml	99
75)	Chrysene	15.69	228	154894	528.03	ng/ml	100
76)	Bis(2-ethylhexyl) Phthalat	15.68	149	66112	522.89	ng/ml	100
78)	Di-n-octyl Phthalate	17.36	149	62980	708.25	ng/ml	95
79)	Benzo(b)fluoranthene	18.13	252	119010	566.85	ng/ml	99
80)	Benzo(k)fluoranthene	18.18	252	139914	440.20	ng/ml	98
81)	Benzo(a)pyrene	18.67	252	111357	590.32	ng/ml	98
82)	Indeno(1,2,3-cd)pyrene	20.57	276	73500	607.98	ng/ml	95
83)	Dibenz(a,h)anthracene	20.62	278	121931m	513.56	ng/ml	
84)	Benzo(g,h,i)perylene	21.07	276	123308	603.37	ng/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:26 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

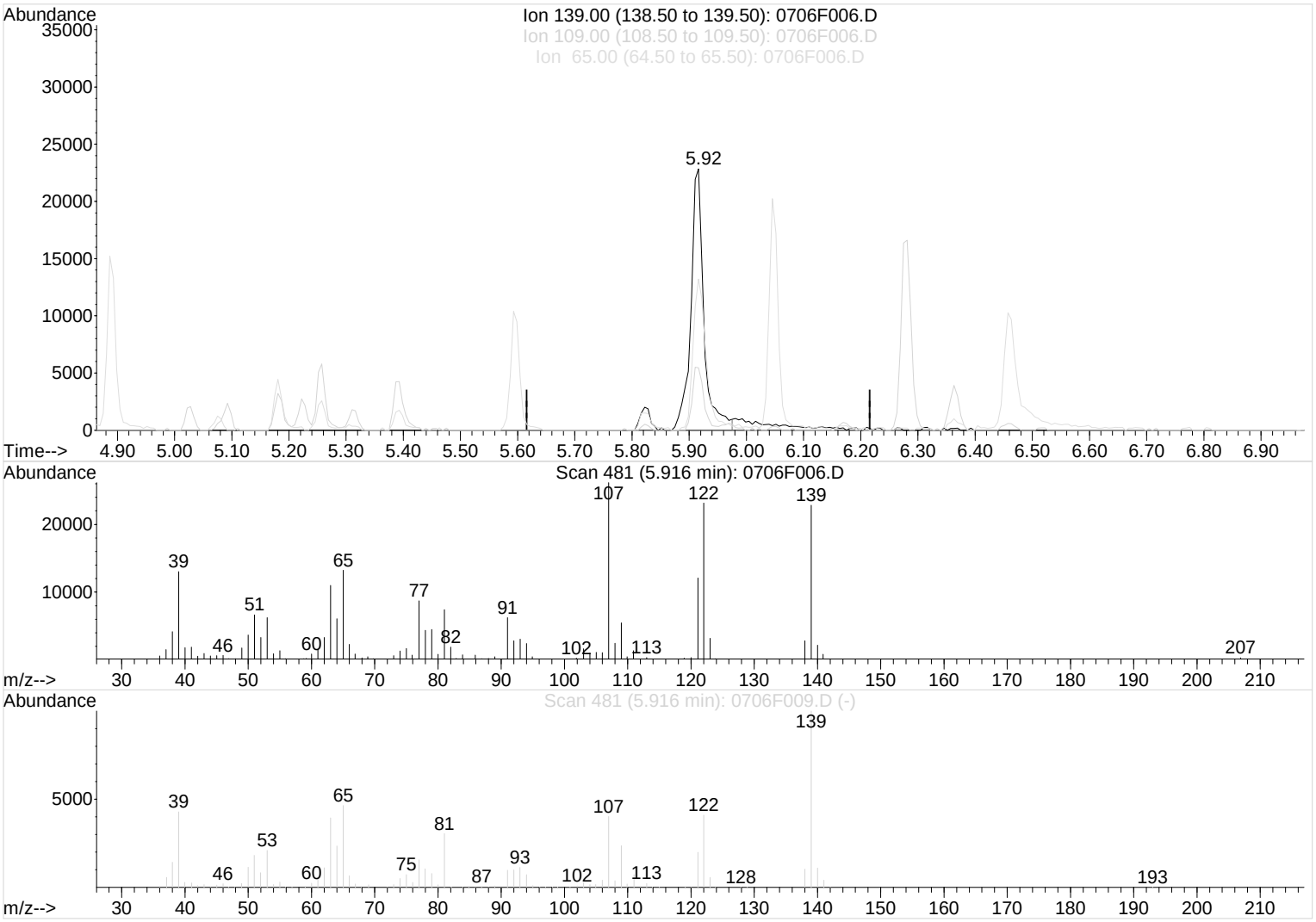


Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:01 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(23) 2-Nitrophenol (TC)

5.92min 409.35ng/ml

response 36465

Ion	Exp%	Act%
139.00	100	100
109.00	23.50	23.89
65.00	46.40	57.88
0.00	0.00	0.00

Manual Integration:

Before

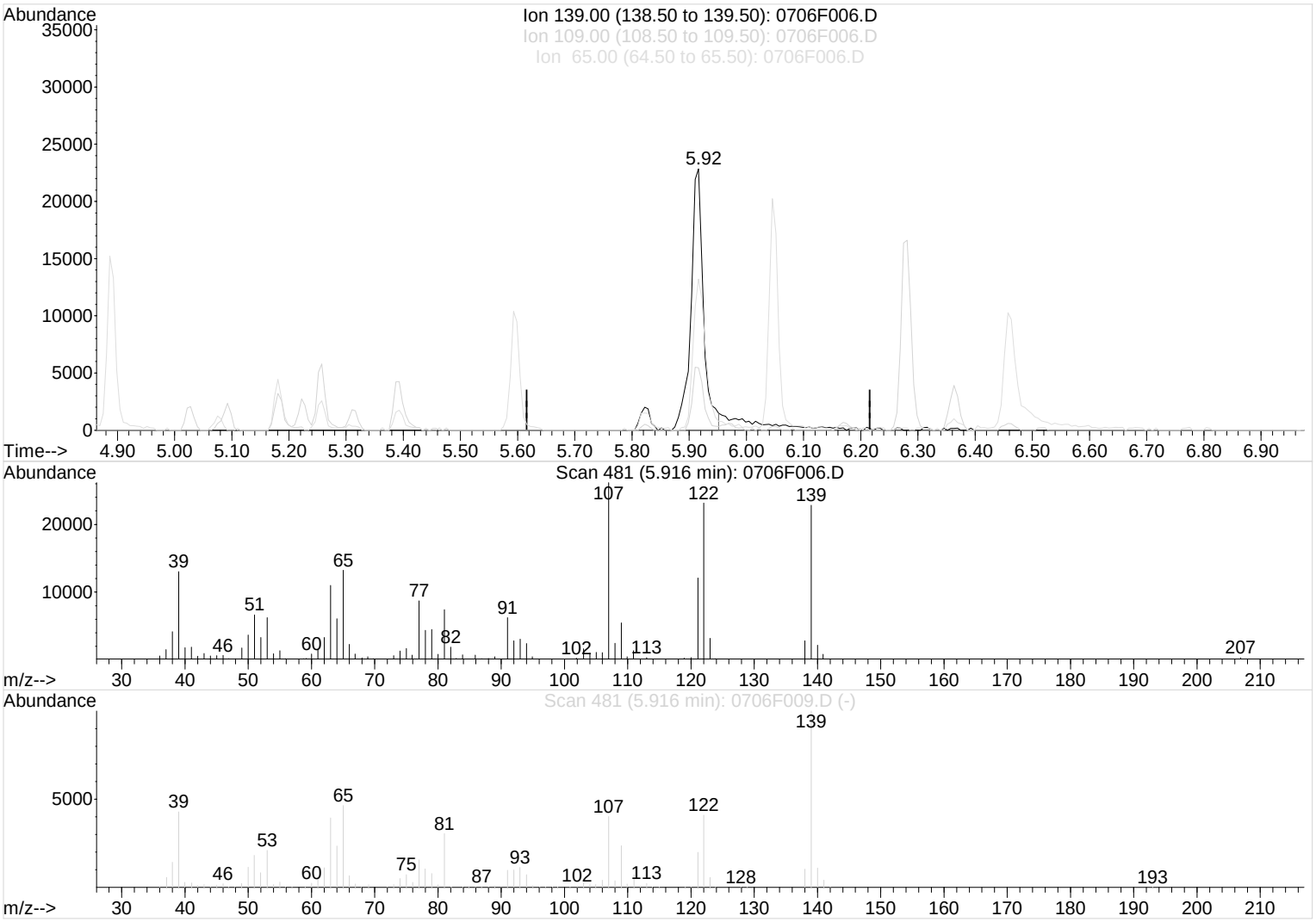
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(23) 2-Nitrophenol (TC)

5.92min 395.71ng/ml m

response 34940

Ion	Exp%	Act%
139.00	100	100
109.00	23.50	23.89
65.00	46.40	57.88
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

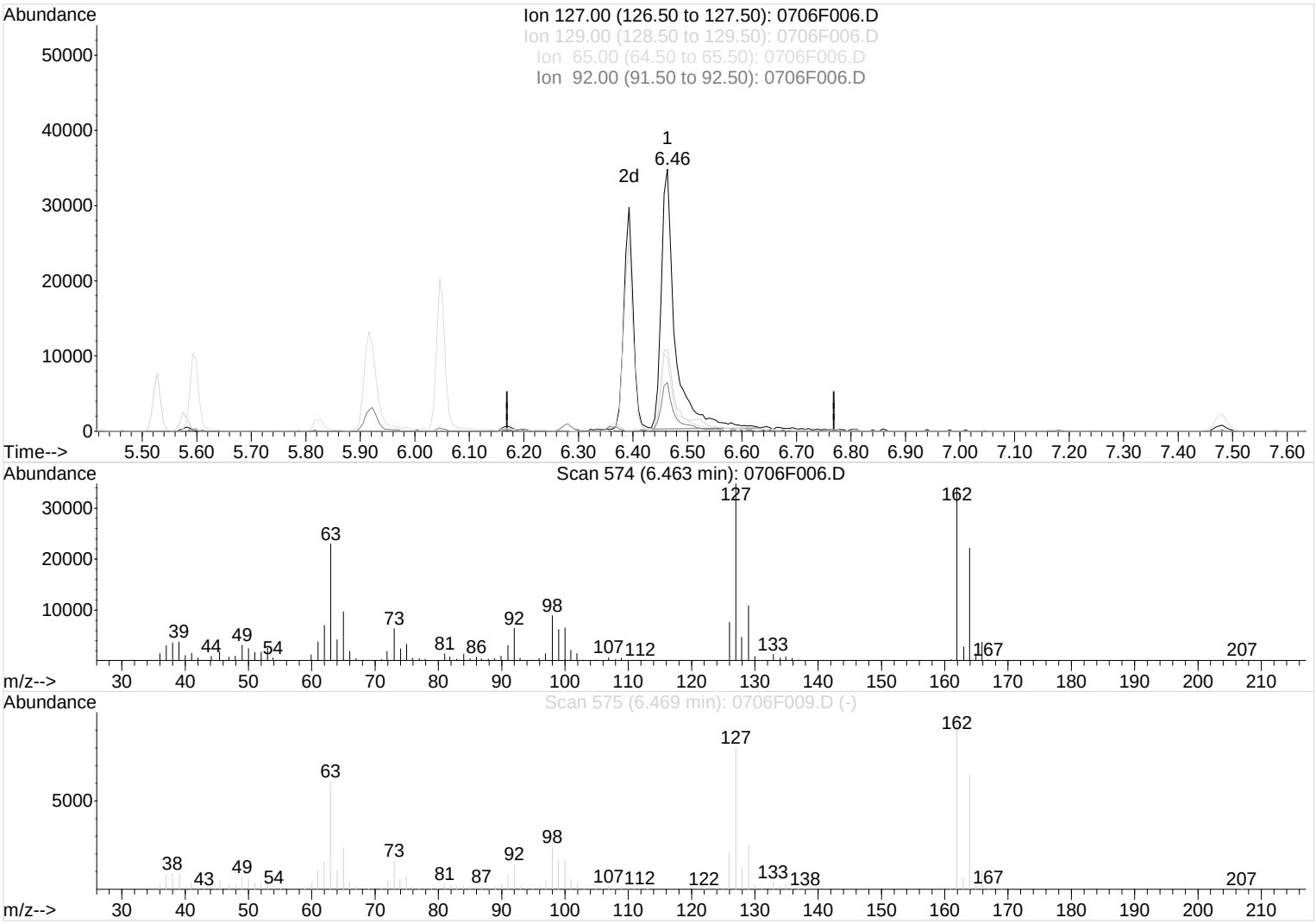
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(30) 4-Chloroaniline (T)

6.46min 719.78ng/ml

response 61238

Ion	Exp%	Act%
127.00	100	100
129.00	31.30	30.90
65.00	29.50	27.58
92.00	17.30	18.69

Manual Integration:

Before

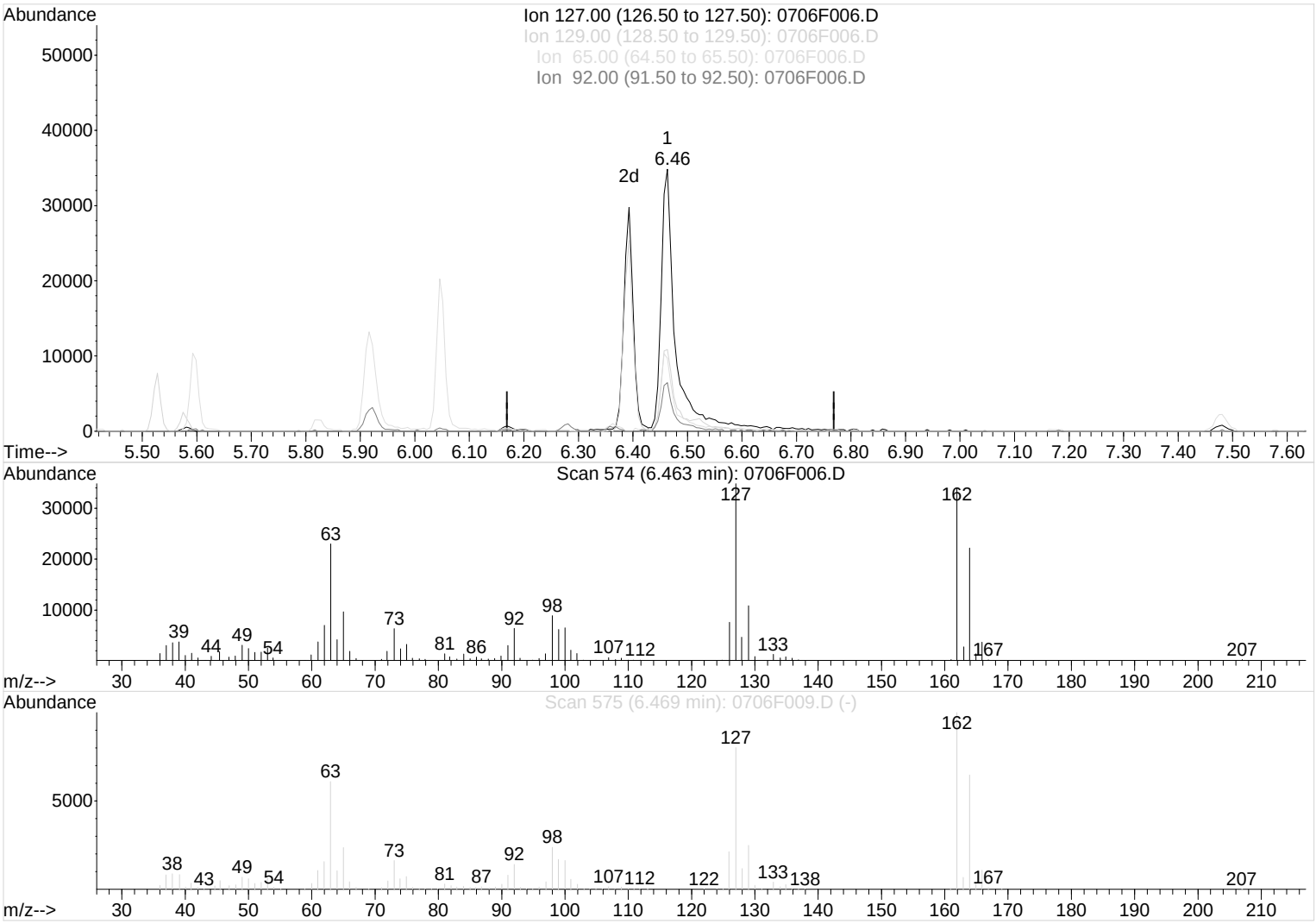
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(30) 4-Chloroaniline (T)

6.46min 792.25ng/ml m

response 67404

Ion	Exp%	Act%
127.00	100	100
129.00	31.30	31.12
65.00	29.50	27.78
92.00	17.30	18.47

Manual Integration:

After

Baseline correction

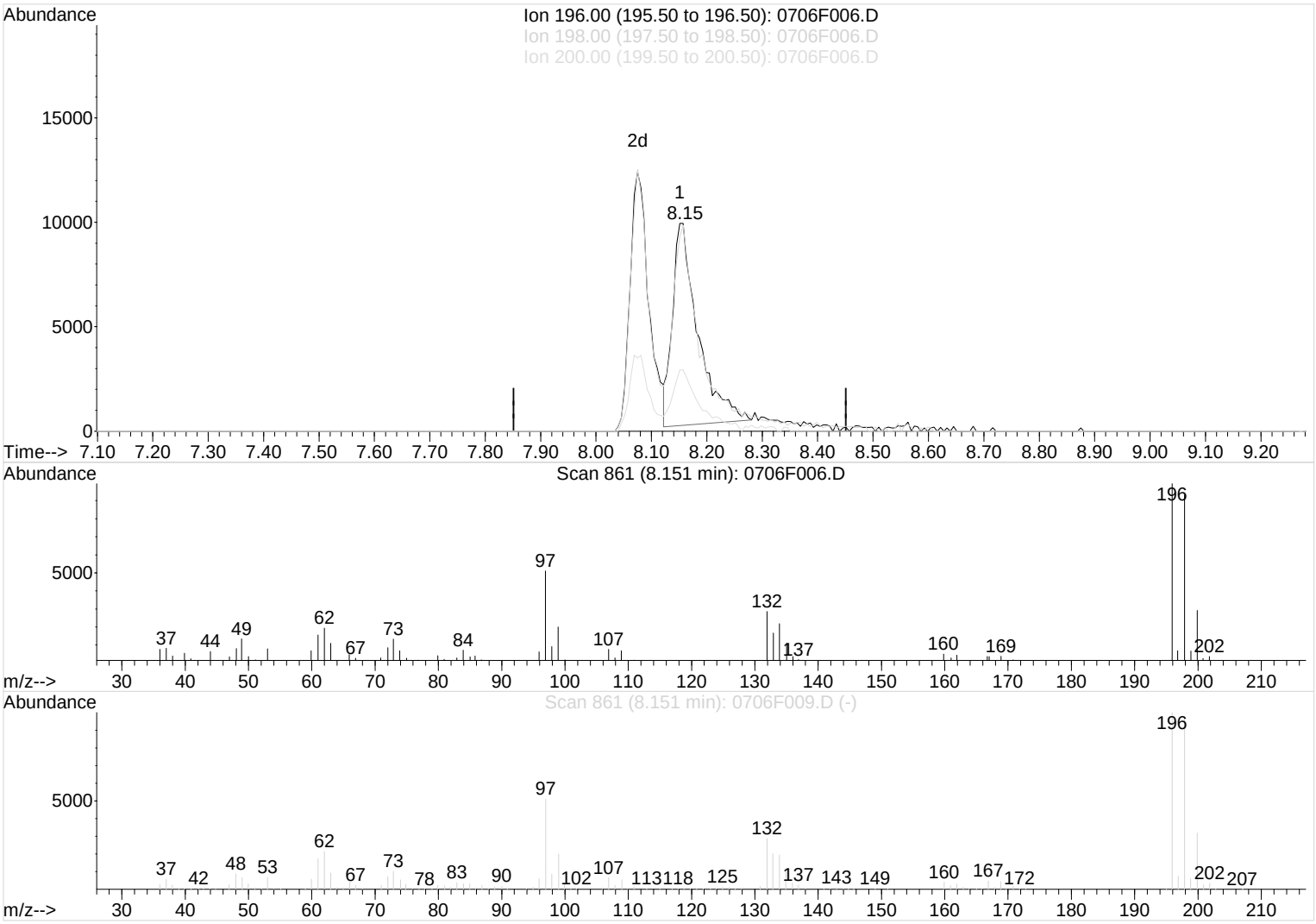
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(38) 2,4,5-Trichlorophenol (T)

8.15min 451.45ng/ml

response 30868

Ion	Exp%	Act%
196.00	100	100
198.00	96.50	91.94
200.00	31.40	28.10
0.00	0.00	0.00

Manual Integration:

Before

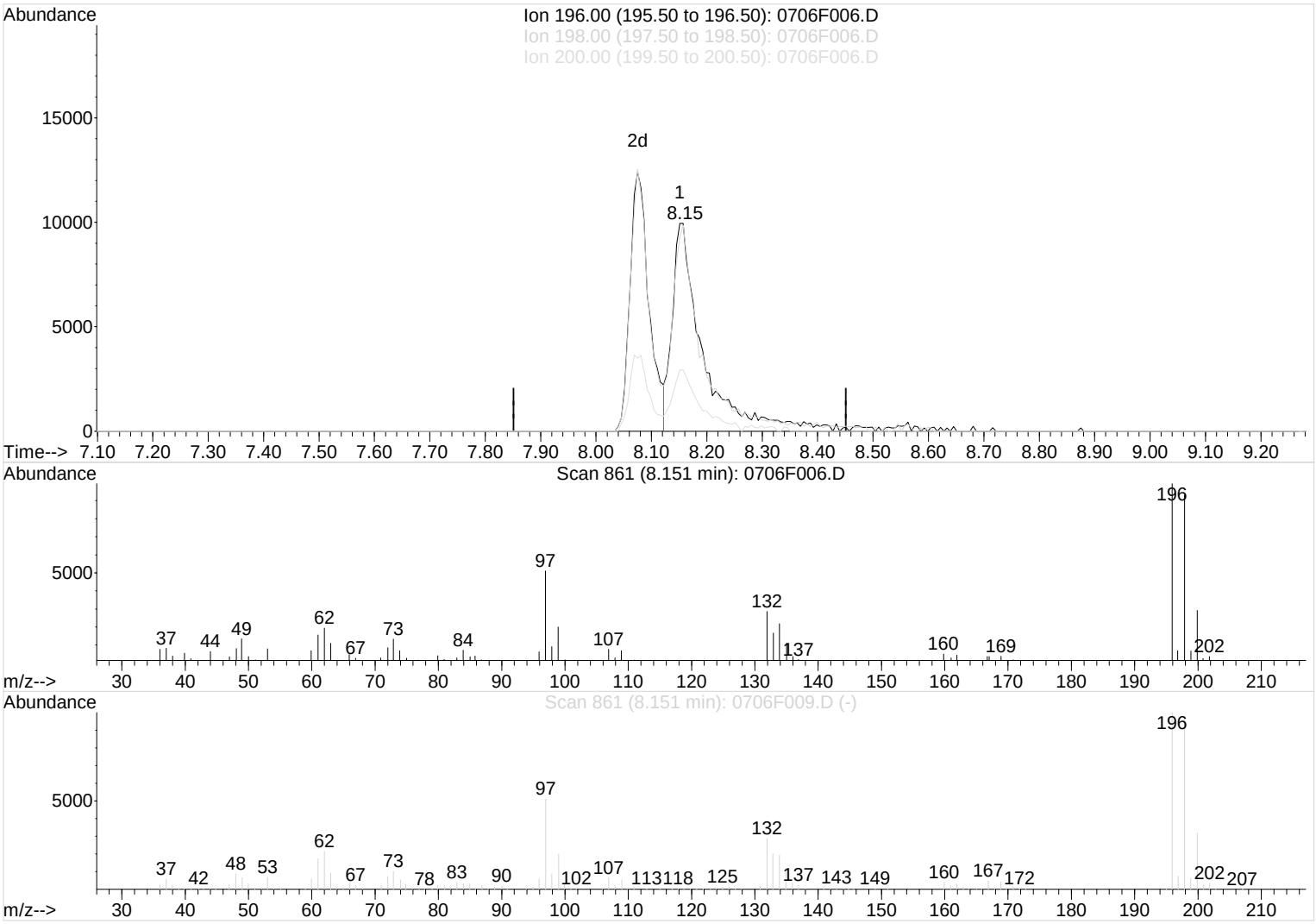
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(38) 2,4,5-Trichlorophenol (T)

8.15min 533.90ng/ml m

response 38311

Ion	Exp%	Act%
196.00	100	100
198.00	96.50	93.66
200.00	31.40	29.39
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

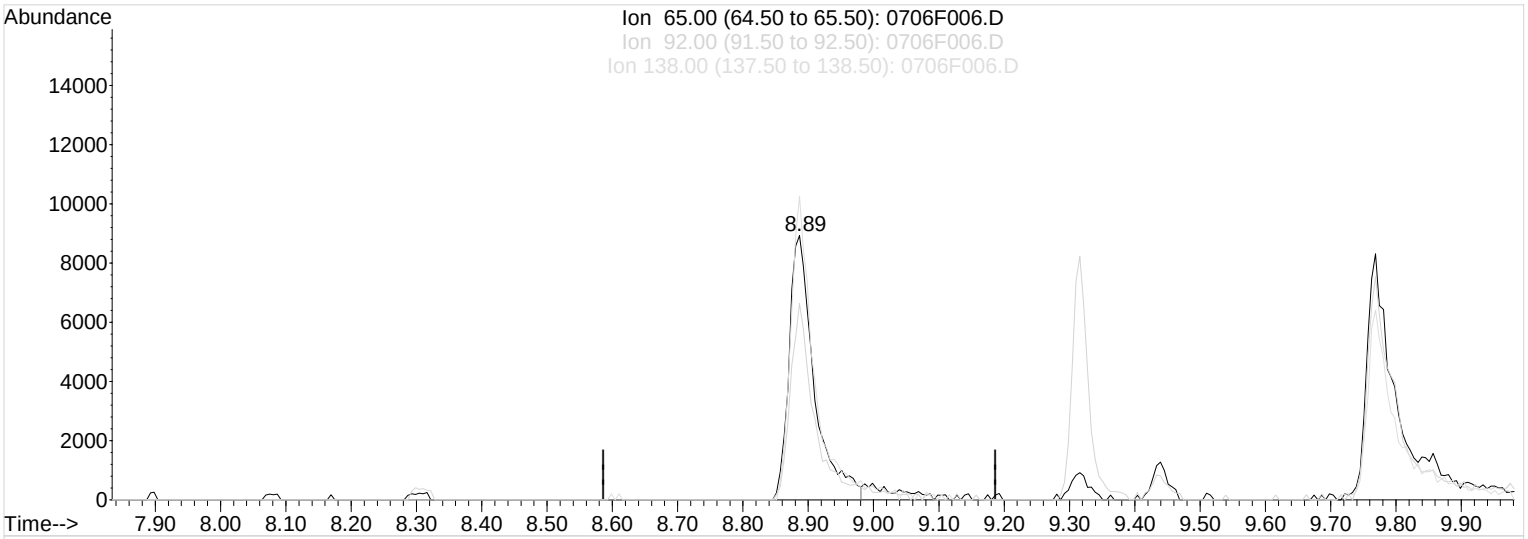
07/11/23

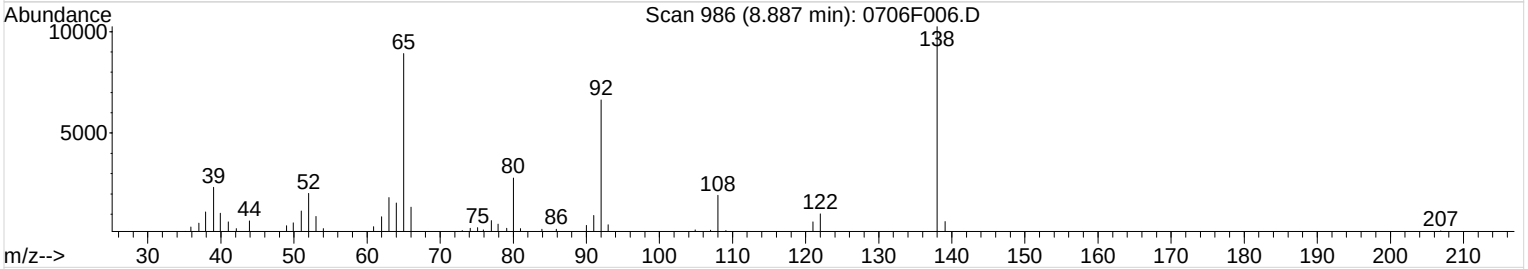
Quantitation Report (Qedit)

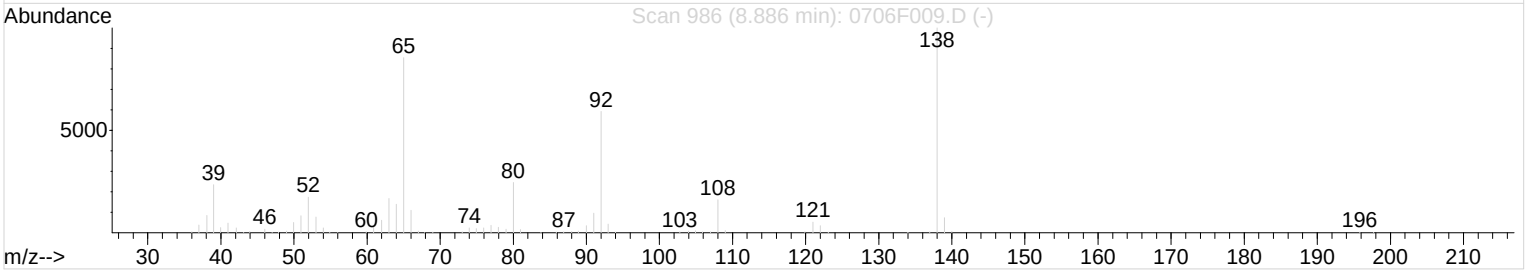
1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration







TIC: 0706F006.D

(41) 2-Nitroaniline (T)

8.89min 585.30ng/ml

response 24050

Ion	Exp%	Act%
65.00	100	100
92.00	69.30	74.29
138.00	117.10	114.88
0.00	0.00	0.00

Manual Integration:

Before

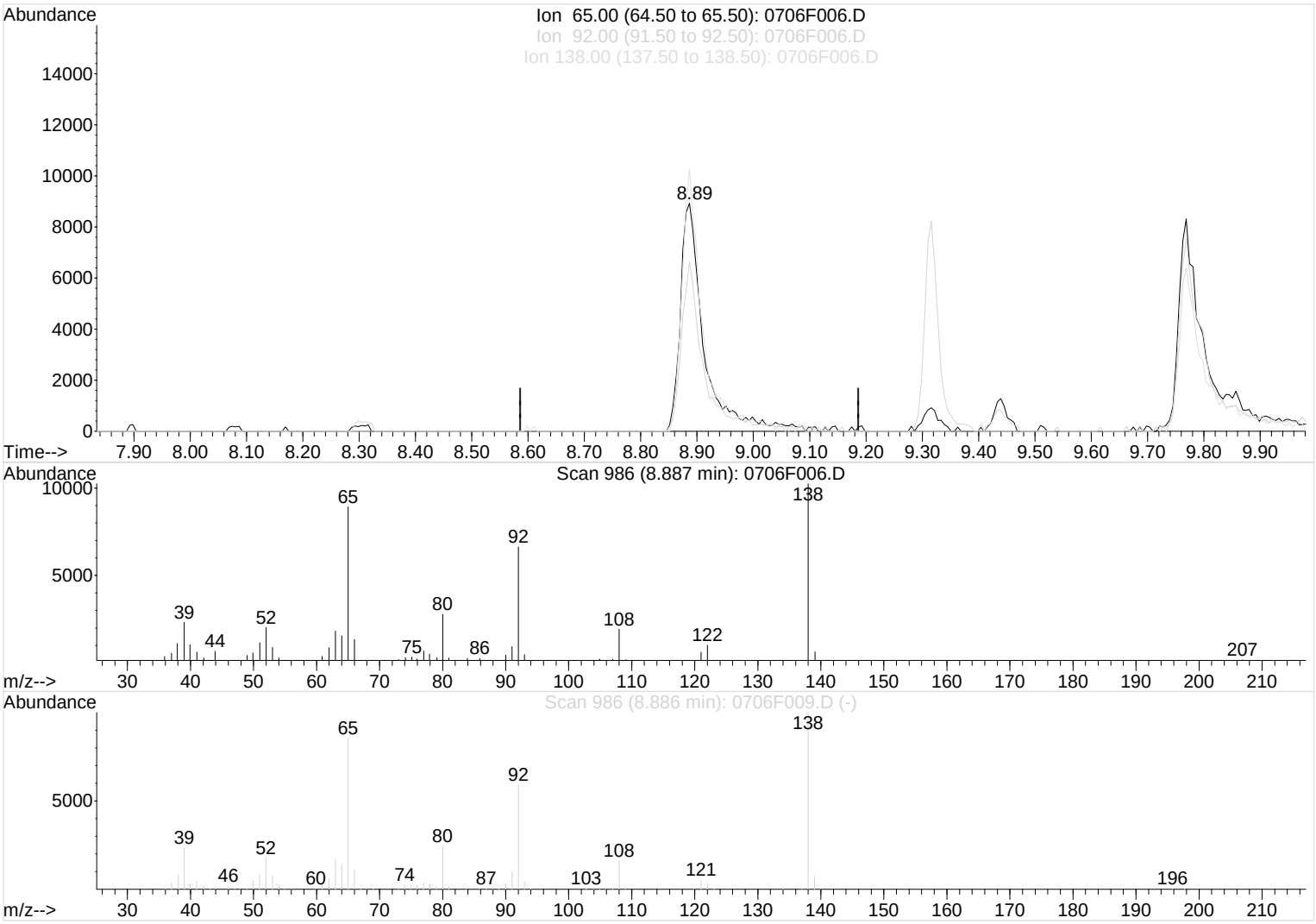
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(41) 2-Nitroaniline (T)

8.89min 606.60ng/ml m

response 26076

Ion	Exp%	Act%
65.00	100	100
92.00	69.30	74.29
138.00	117.10	114.88
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

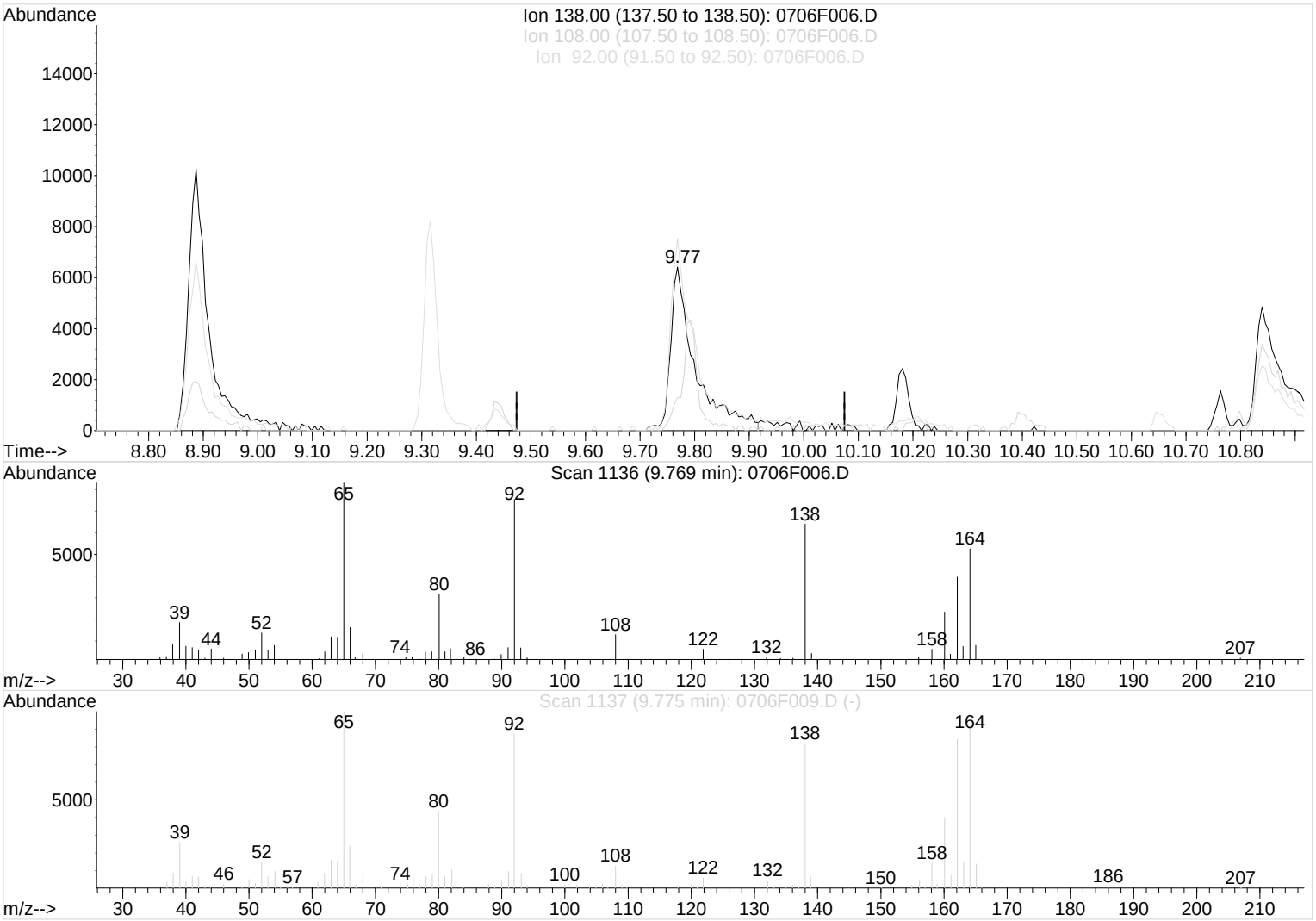
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(46) 3-Nitroaniline (T)

9.77min 236.85ng/ml

response 20225

Ion	Exp%	Act%
138.00	100	100
108.00	15.30	20.15
92.00	106.70	117.57
0.00	0.00	0.00

Manual Integration:

Before

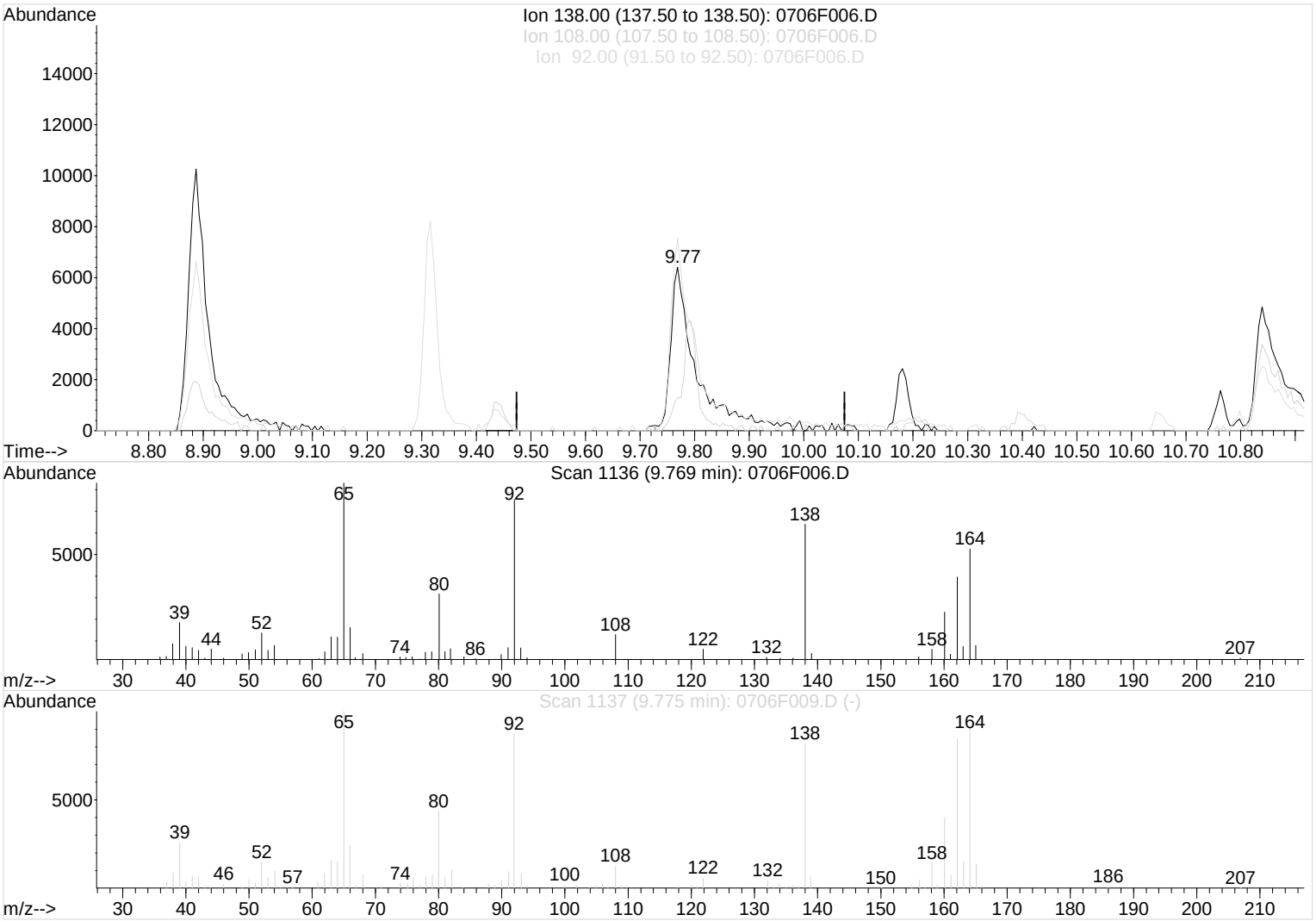
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:13 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(46) 3-Nitroaniline (T)

9.77min 256.01ng/ml m

response 21062

Ion	Exp%	Act%
138.00	100	100
108.00	15.30	20.15
92.00	106.70	117.57
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

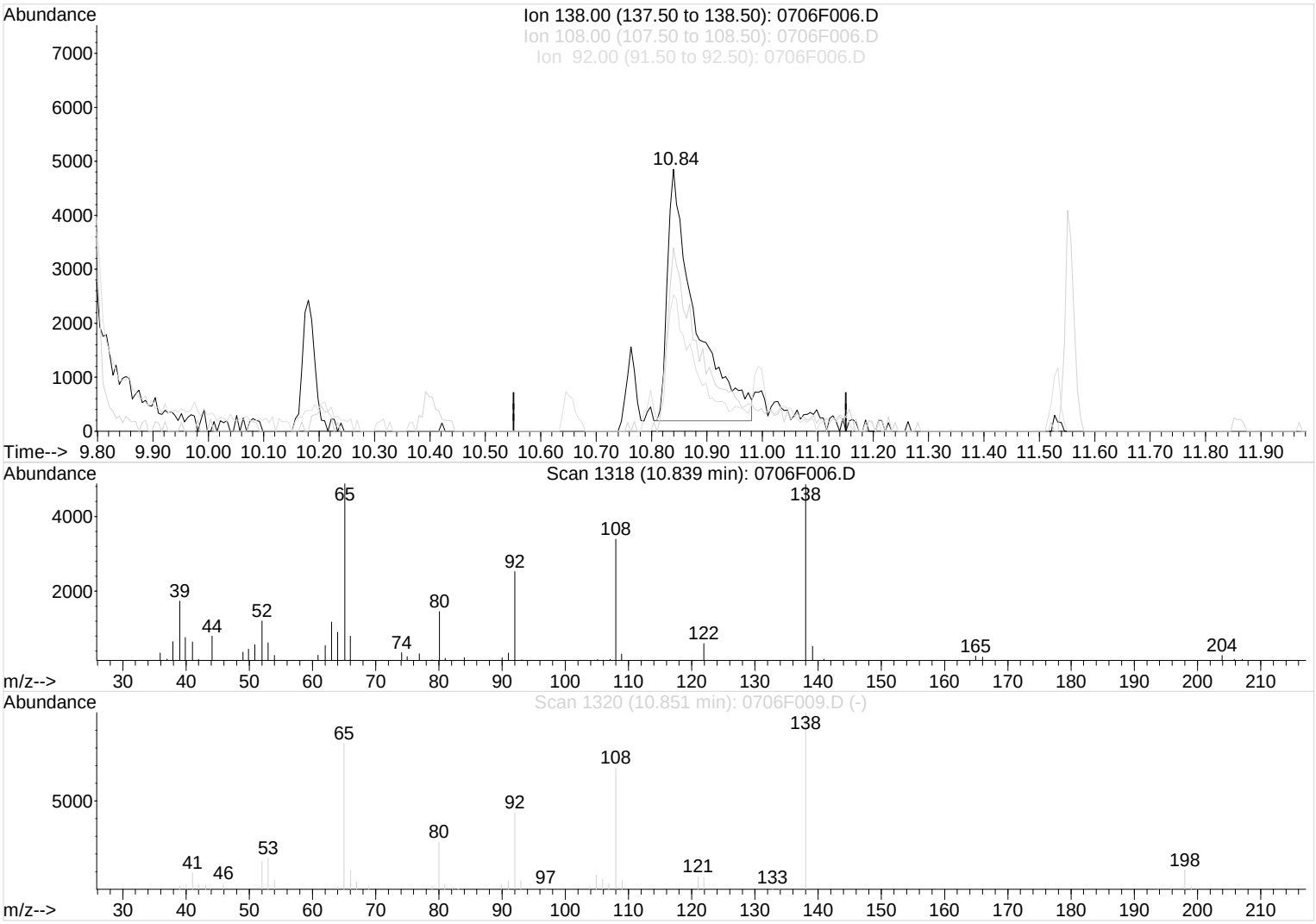
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:13 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(55) 4-Nitroaniline (T)

10.84min 522.49ng/ml

response 16430

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	69.40
92.00	47.20	45.67
0.00	0.00	0.00

Manual Integration:

Before

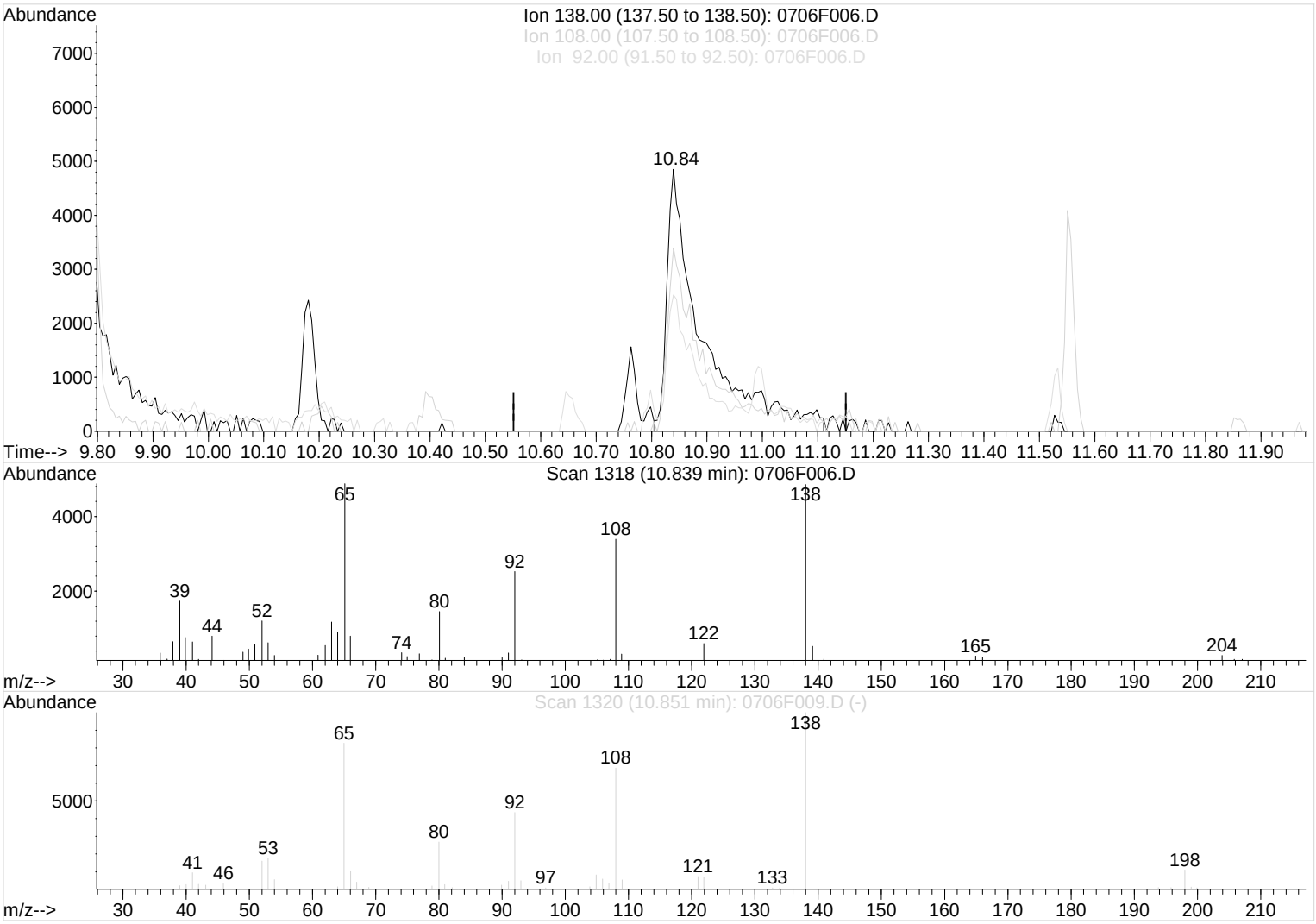
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:13 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(55) 4-Nitroaniline (T)

10.84min 612.77ng/ml m

response 21670

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	69.95
92.00	47.20	52.06
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

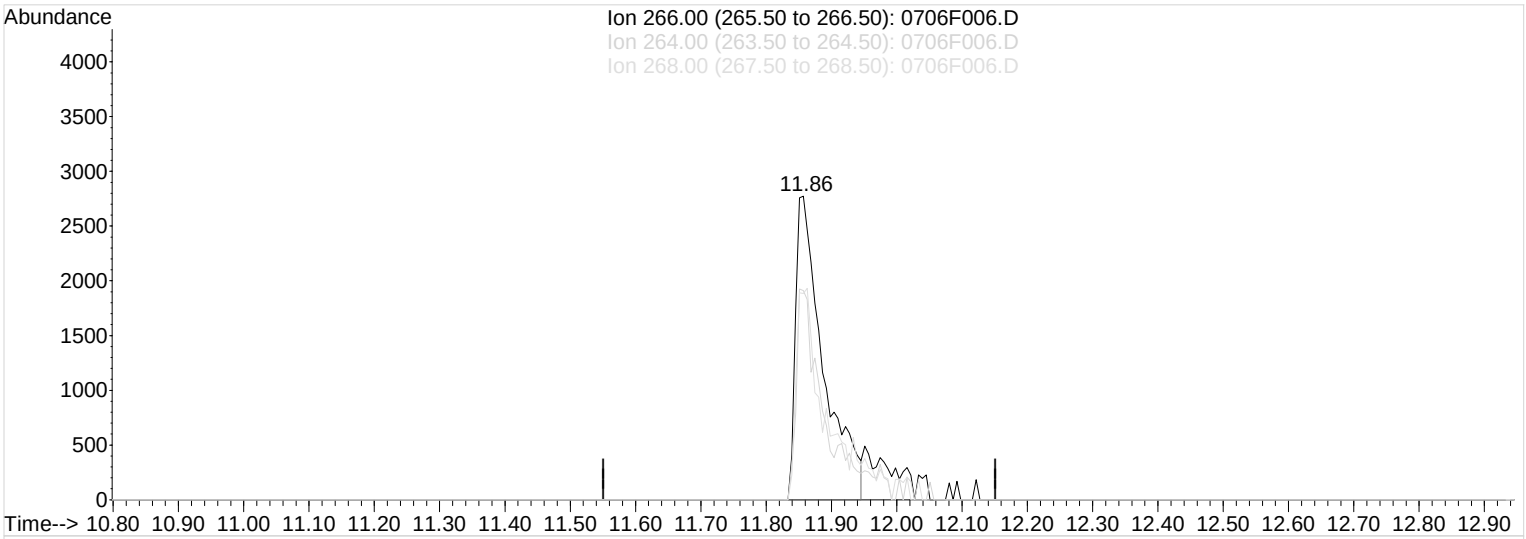
07/11/23

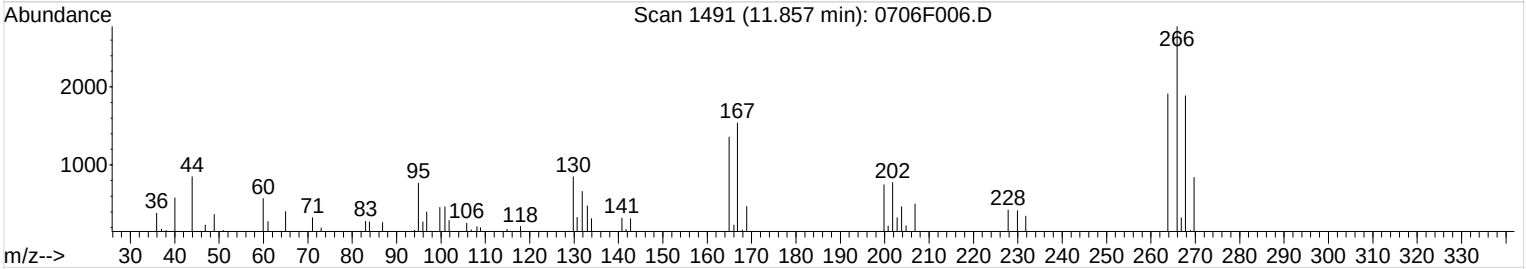
Quantitation Report (Qedit)

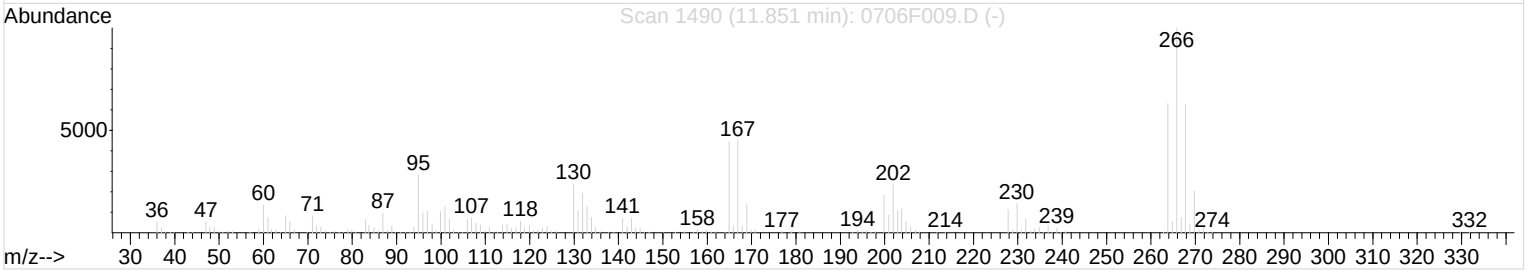
1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:13 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration







TIC: 0706F006.D

(63) Pentachlorophenol (TC)

11.86min 537.00ng/ml

response 8208

Ion	Exp%	Act%
266.00	100	100
264.00	62.90	68.95
268.00	62.70	67.98
0.00	0.00	0.00

Manual Integration:

Before

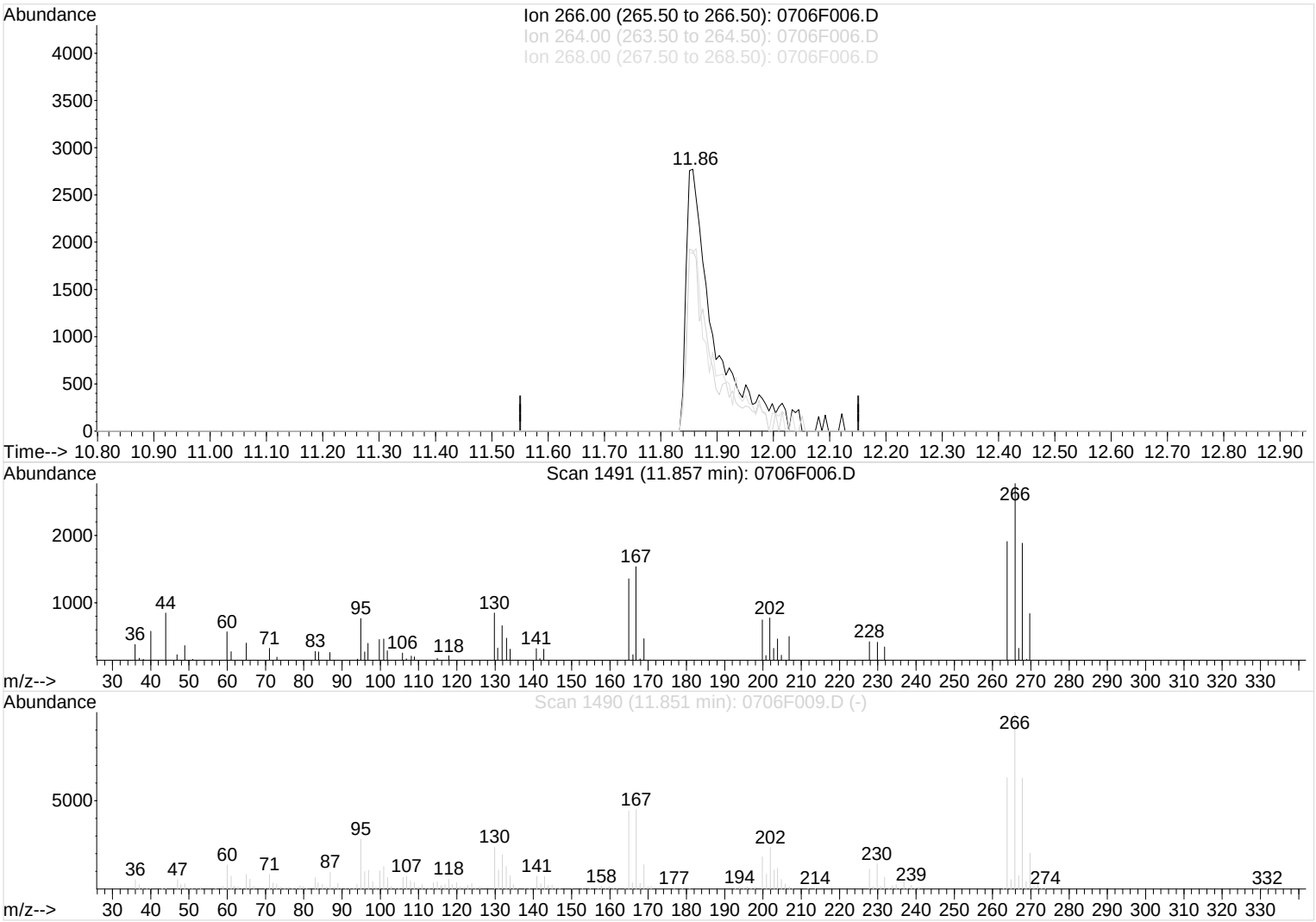
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:13 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(63) Pentachlorophenol (TC)

11.86min 564.76ng/ml m

response 9609

Ion	Exp%	Act%
266.00	100	100
264.00	62.90	68.95
268.00	62.70	67.98
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

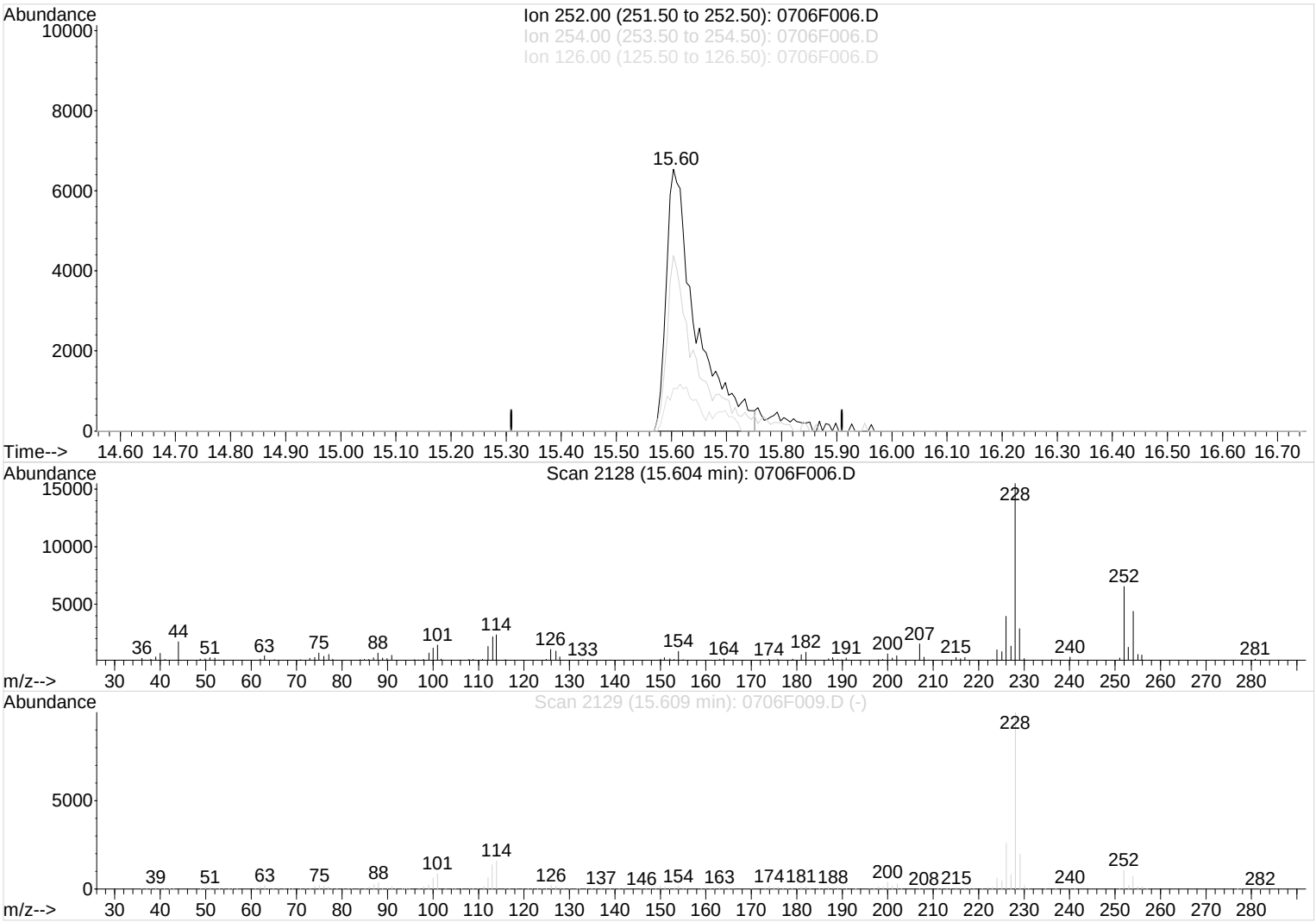
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:13 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 686.13ng/ml

response 24957

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	67.04
126.00	19.10	16.35
0.00	0.00	0.00

Manual Integration:

Before

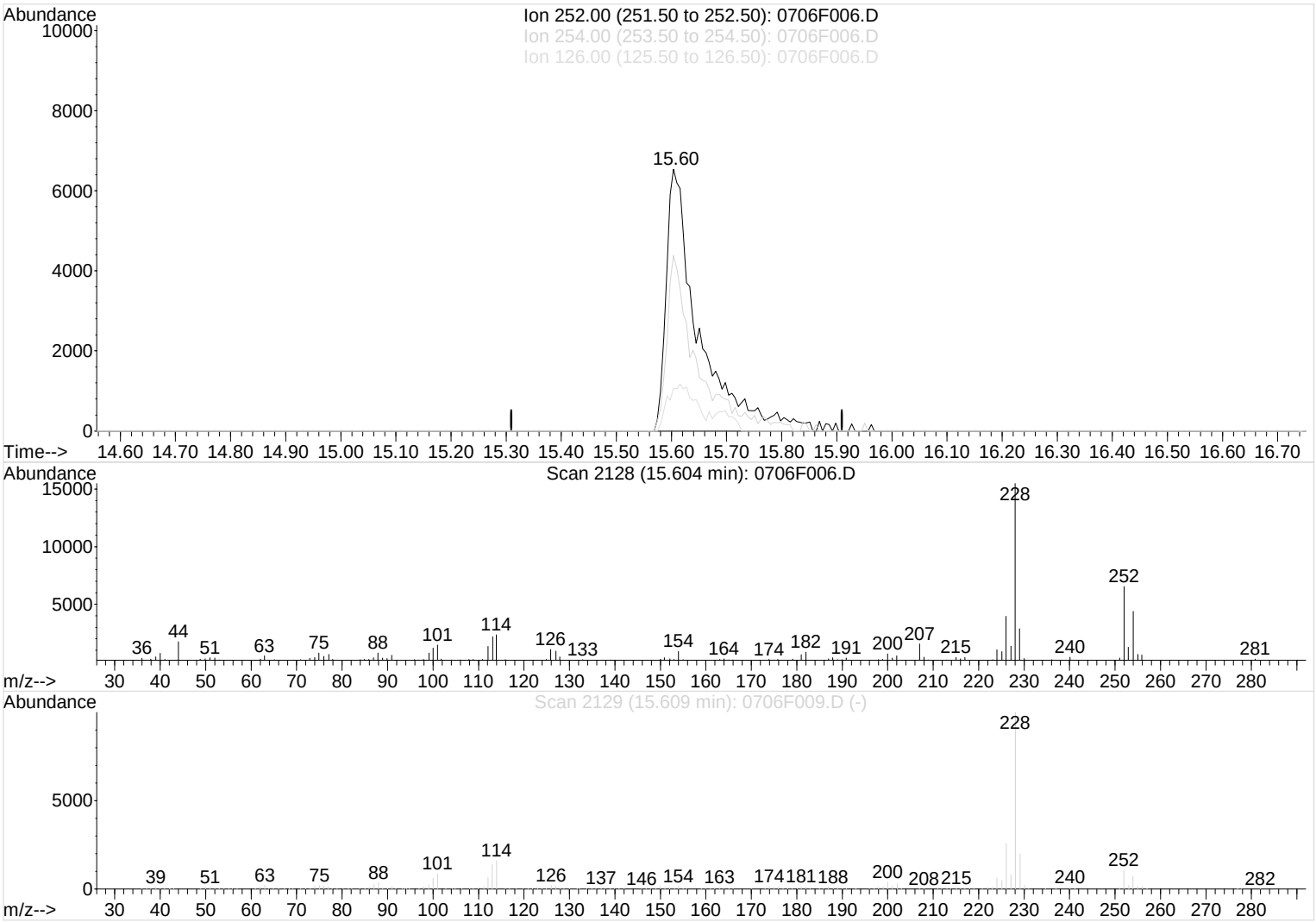
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:14 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 737.08ng/ml m

response 26810

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	67.04
126.00	19.10	16.35
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

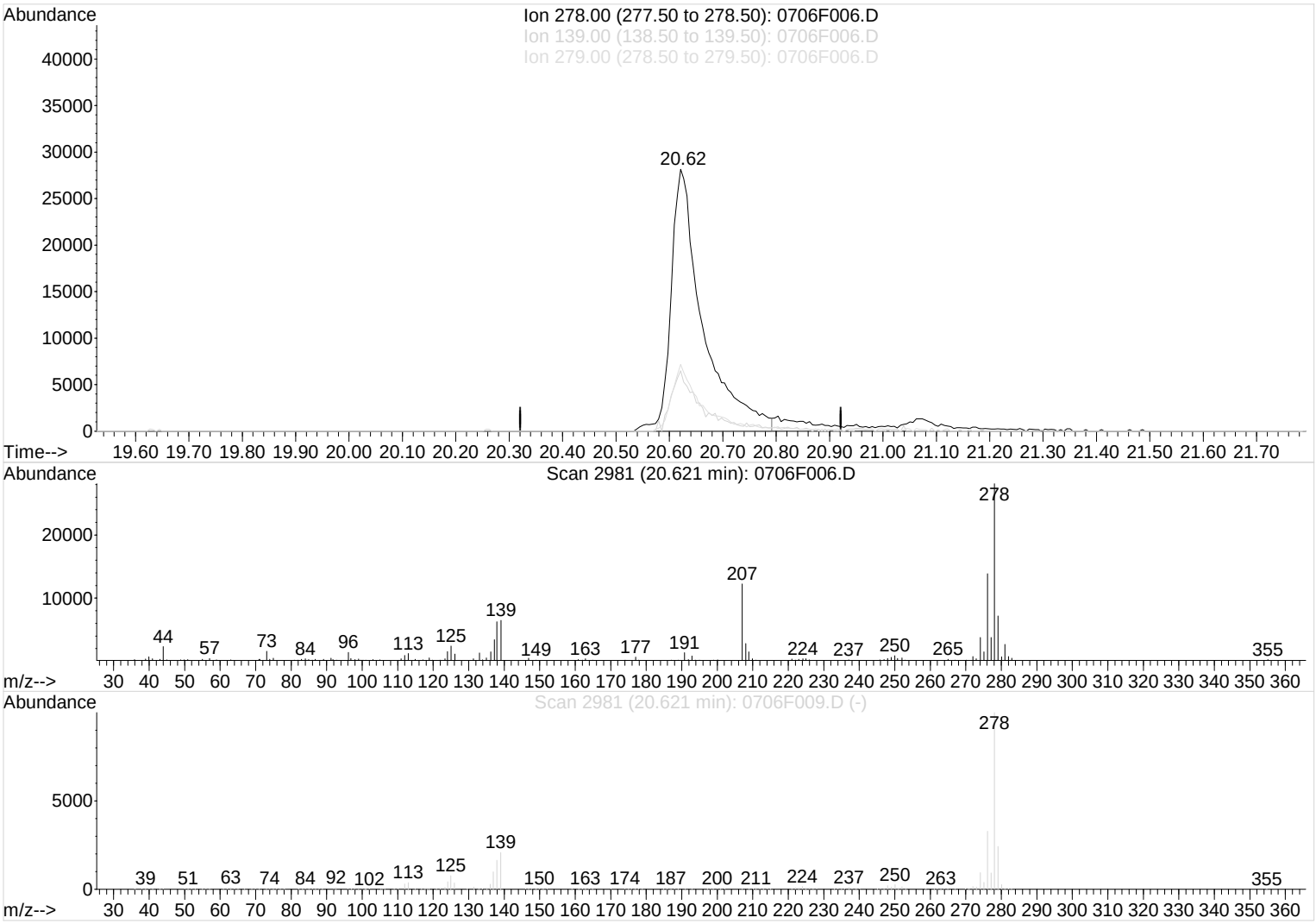
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:14 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(83) Dibenz(a,h)anthracene (T)

20.62min 490.32ng/ml

response 116483

Ion	Exp%	Act%
278.00	100	100
139.00	20.70	23.04
279.00	24.20	25.50
0.00	0.00	0.00

Manual Integration:

Before

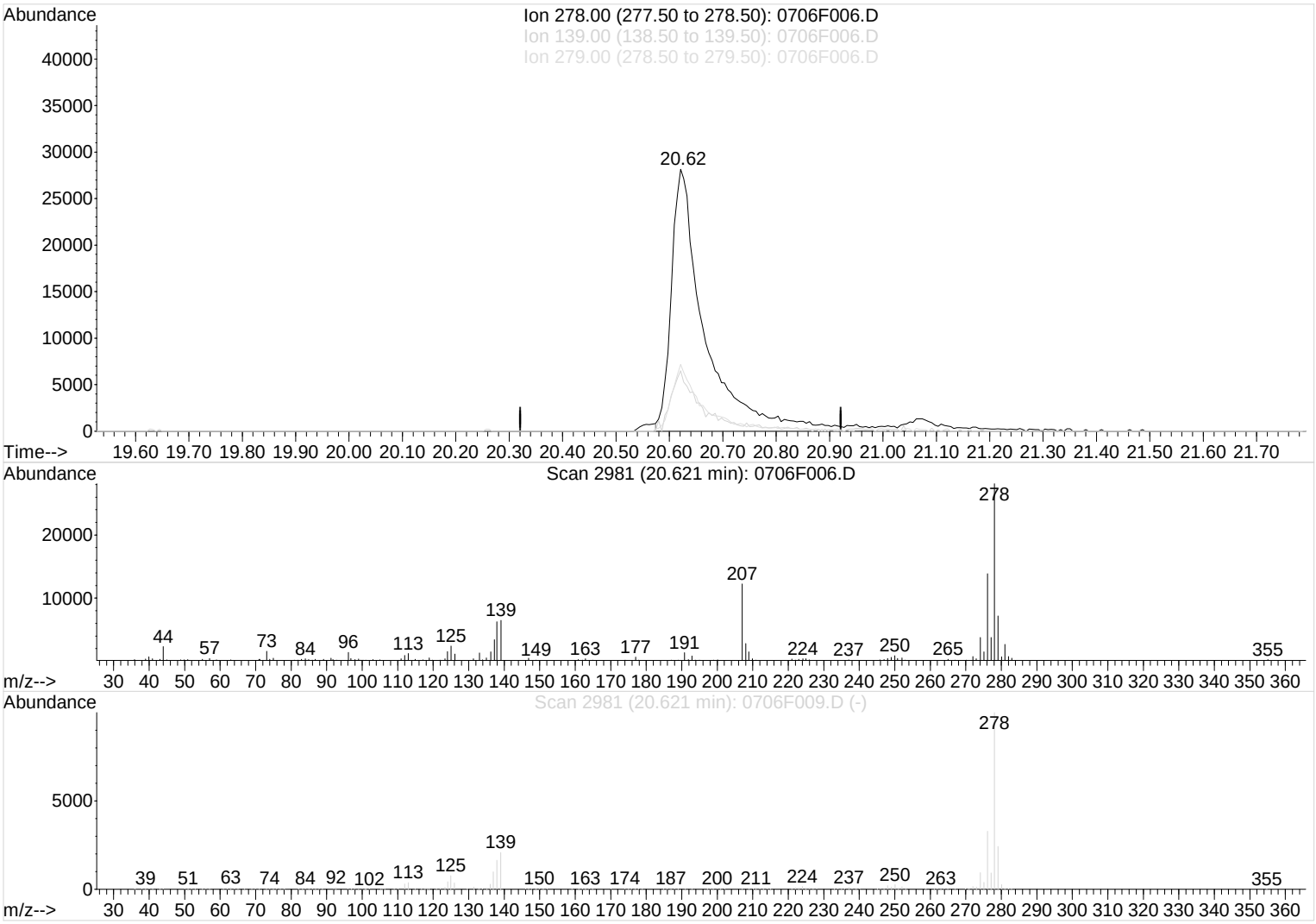
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F006.D Vial: 5
Acq On : 6 Jul 2023 1:13 pm Operator: CSD
Sample : SVO_LL ICAL 0.5ppm SVM70-29F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:14 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 15:01:08 2023
Response via : Multiple Level Calibration



TIC: 0706F006.D

(83) Dibenz(a,h)anthracene (T)

20.62min 513.56ng/ml m

response 121931

Ion	Exp%	Act%
278.00	100	100
139.00	20.70	23.04
279.00	24.20	25.50
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/11/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:22:44 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	137145	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.36	136	534093	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.79	164	278880	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	418656	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	260062	1000.00	ng/ml	0.00
77) Perylene-d12	18.76	264	261492	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	167257	954.94	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 25.47%#			
6) Phenol-d6	4.72	99	195739	961.02	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 25.63%#			
19) Nitrobenzene-d5	5.57	82	169893	937.82	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 37.51%			
39) 2-Fluorobiphenyl	8.30	172	365849	1010.16	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 40.41%			
60) 2,4,6-Tribromophenol	11.14	330	34107	1083.81	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 28.90%#			
71) Terphenyl-d14	14.01	244	270187	1086.38	ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 43.46%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.15	42	88620	966.73	ng/ml	95
3) Pyridine	3.17	79	198760	925.85	ng/ml	100
5) Bis(2-chloroethyl) Ether	4.83	93	192765	1023.39	ng/ml	99
7) Phenol	4.73	94	216299	977.06	ng/ml	98
8) Aniline	4.80	93	208303	1198.09	ng/ml	99
9) 2-Chlorophenol	4.89	128	179697	979.74	ng/ml	97
10) 1,3-Dichlorobenzene	5.03	146	203267	1013.93	ng/ml	99
11) 1,4-Dichlorobenzene	5.09	146	212815	1031.25	ng/ml	99
12) 1,2-Dichlorobenzene	5.22	146	196687	1020.84	ng/ml	99
13) Benzyl Alcohol	5.18	108	102965	1029.37	ng/ml	98
14) 2,2'-oxybis(1-chloropropan	5.29	45	230943	1026.45	ng/ml	100
15) 2-Methylphenol	5.26	107	136401	961.71	ng/ml	98
16) Hexachloroethane	5.53	117	79392	988.63	ng/ml	99
17) N-Nitrosodi-n-propylamine	5.41	70	119117	957.03	ng/ml	97
18) 4-Methylphenol	5.39	107	178346	984.98	ng/ml	97
20) Nitrobenzene	5.59	77	177652	965.48	ng/ml	98
22) Isophorone	5.82	82	287201	922.00	ng/ml	98
23) 2-Nitrophenol	5.92	139	94133	297.24	ng/ml	94
24) 2,4-Dimethylphenol	5.93	122	163312	1057.33	ng/ml	99
25) Bis(2-chloroethoxy)methane	6.05	93	207906	1006.75	ng/ml	99
26) 2,4-Dichlorophenol	6.17	162	124085	905.51	ng/ml	99
27) Benzoic Acid	5.95	122	24631m	1232.15	ng/ml	
28) 1,2,4-Trichlorobenzene	6.28	180	159648	1016.35	ng/ml	98
29) Naphthalene	6.39	128	537073	1016.45	ng/ml	99
30) 4-Chloroaniline	6.46	127	129574	1713.88	ng/ml	99
31) Hexachlorobutadiene	6.52	225	85129	998.10	ng/ml	99
32) 4-Chloro-3-methylphenol	7.16	107	115681	935.73	ng/ml	97
33) 2-Methylnaphthalene	7.48	141	298554	972.79	ng/ml	100
34) 1-Methylnaphthalene	7.67	141	305113	985.66	ng/ml	98
36) Hexachlorocyclopentadiene	7.76	237	61027	1067.52	ng/ml	97
37) 2,4,6-Trichlorophenol	8.07	196	74479	1045.06	ng/ml	99
38) 2,4,5-Trichlorophenol	8.15	196	83883m	1122.15	ng/ml	
40) 2-Chloronaphthalene	8.60	162	293247	975.21	ng/ml	98
41) 2-Nitroaniline	8.89	65	64517	1013.22	ng/ml	97
42) Acenaphthylene	9.52	152	446887	952.59	ng/ml	99
43) Dimethyl Phthalate	9.32	163	313556	963.22	ng/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:22:44 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

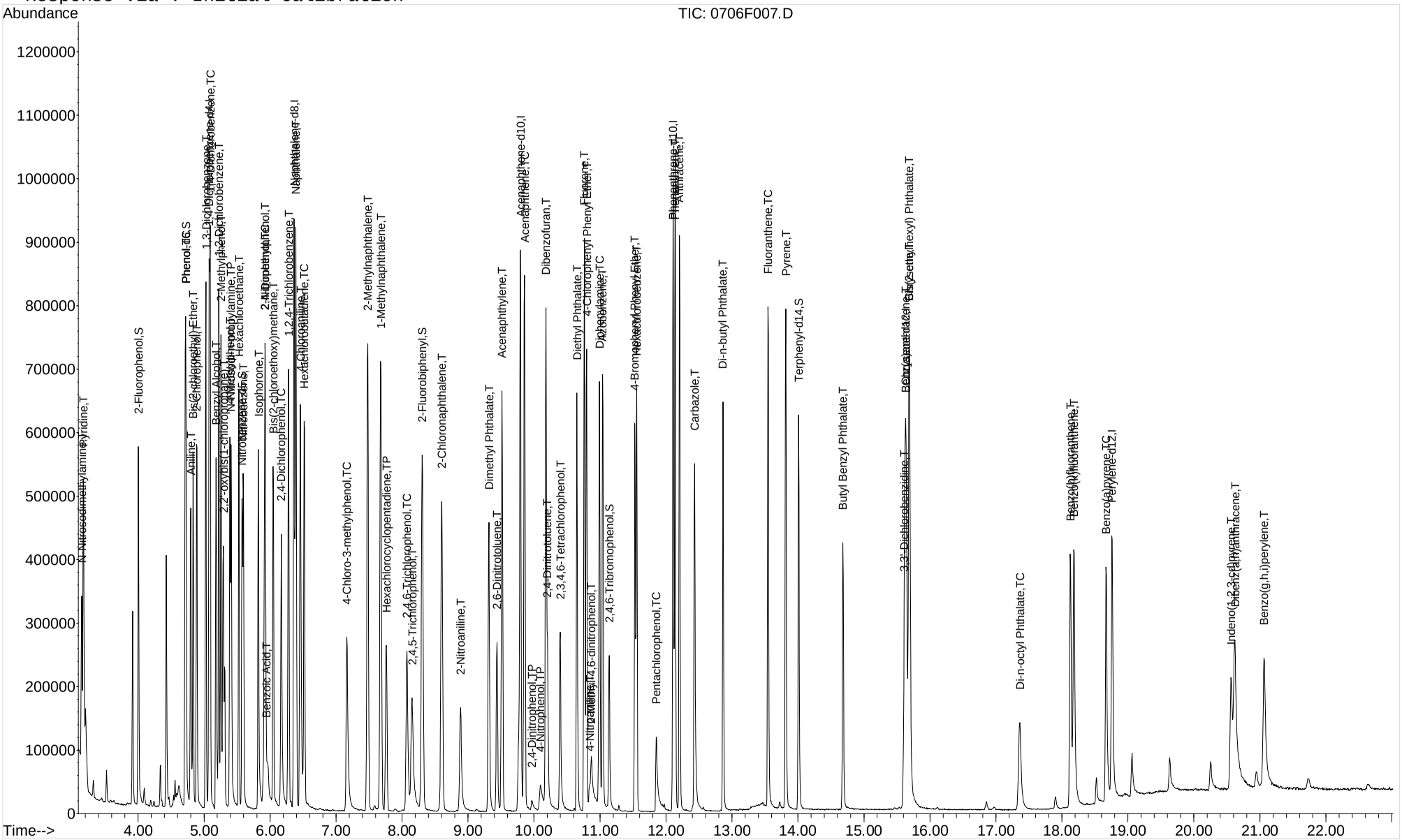
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	2,6-Dinitrotoluene	9.44	165	53452	1041.25	ng/ml	96
45)	Acenaphthene	9.86	154	288988	1010.64	ng/ml	99
47)	2,4-Dinitrophenol	9.97	184	5699m	1422.49	ng/ml	
48)	Dibenzofuran	10.18	168	449953	1016.32	ng/ml	99
49)	4-Nitrophenol	10.10	109	12740	1090.73	ng/ml	98
50)	2,4-Dinitrotoluene	10.20	165	65002	948.62	ng/ml	96
51)	2,3,4,6-Tetrachlorophenol	10.40	232	56124	1021.50	ng/ml	98
52)	Fluorene	10.76	166	327001	992.94	ng/ml	99
53)	4-Chlorophenyl Phenyl Ethe	10.80	204	157197	1021.30	ng/ml	99
54)	Diethyl Phthalate	10.65	149	309259	1078.17	ng/ml	99
55)	4-Nitroaniline	10.84	138	48072m	1383.64	ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.87	198	14253	1220.43	ng/ml	97
57)	Diphenylamine	10.99	169	219621	1064.94	ng/ml	100
58)	Azobenzene	11.04	77	325871	972.13	ng/ml	96
61)	4-Bromophenyl Phenyl Ether	11.53	248	81727	1008.25	ng/ml	98
62)	Hexachlorobenzene	11.56	284	99350	948.12	ng/ml	95
63)	Pentachlorophenol	11.86	266	32720m	1084.92	ng/ml	
64)	Phenanthrene	12.14	178	460439	1017.31	ng/ml	100
65)	Anthracene	12.20	178	423465	964.73	ng/ml	99
66)	Carbazole	12.43	167	337198	927.23	ng/ml	99
67)	Di-n-butyl Phthalate	12.86	149	378965	1327.24	ng/ml	99
68)	Fluoranthene	13.54	202	397860	968.81	ng/ml	99
70)	Pyrene	13.82	202	402977	1345.86	ng/ml	100
72)	Butyl Benzyl Phthalate	14.68	149	131181	1081.07	ng/ml	100
73)	3,3'-Dichlorobenzidine	15.60	252	60601m	1818.00	ng/ml	
74)	Benz(a)anthracene	15.62	228	298203	957.75	ng/ml	99
75)	Chrysene	15.69	228	320504	1059.60	ng/ml	98
76)	Bis(2-ethylhexyl) Phthalat	15.68	149	185608	799.02	ng/ml	100
78)	Di-n-octyl Phthalate	17.36	149	195731	1153.75	ng/ml	98
79)	Benzo(b)fluoranthene	18.13	252	279203	1076.08	ng/ml	98
80)	Benzo(k)fluoranthene	18.19	252	324023	942.89	ng/ml	99
81)	Benzo(a)pyrene	18.67	252	254224	1102.39	ng/ml	99
82)	Indeno(1,2,3-cd)pyrene	20.56	276	161507	1014.67	ng/ml	100
83)	Dibenz(a,h)anthracene	20.62	278	257860	1104.27	ng/ml	98
84)	Benzo(g,h,i)perylene	21.06	276	231784	1071.73	ng/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:25 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

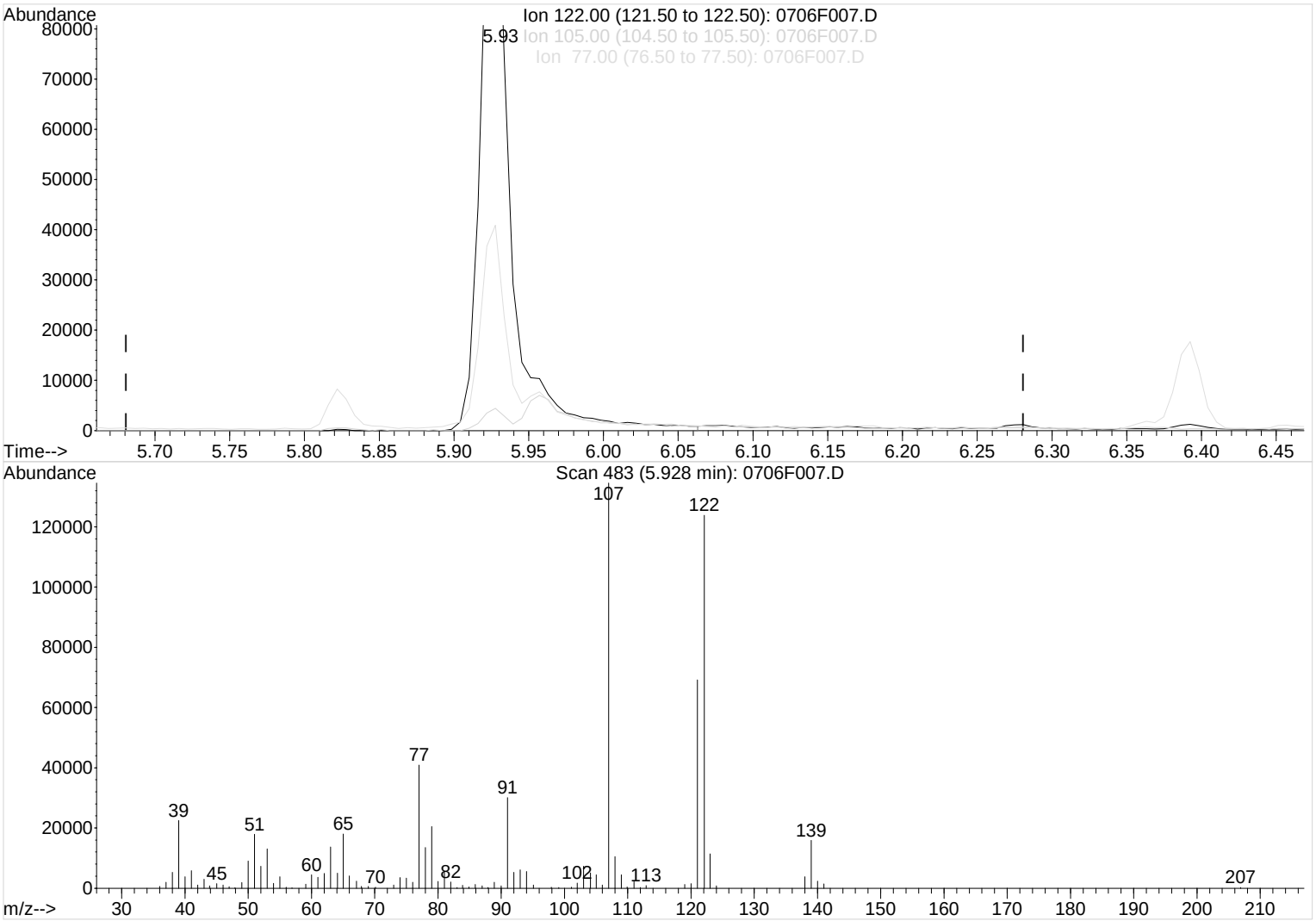


Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:18:43 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(27) Benzoic Acid (T)

5.93min 3105.35ng/ml

response 163312

Ion	Exp%	Act%
122.00	100	100
105.00	118.90	3.46#
77.00	91.30	32.47#
0.00	0.00	0.00

Manual Integration:

Before

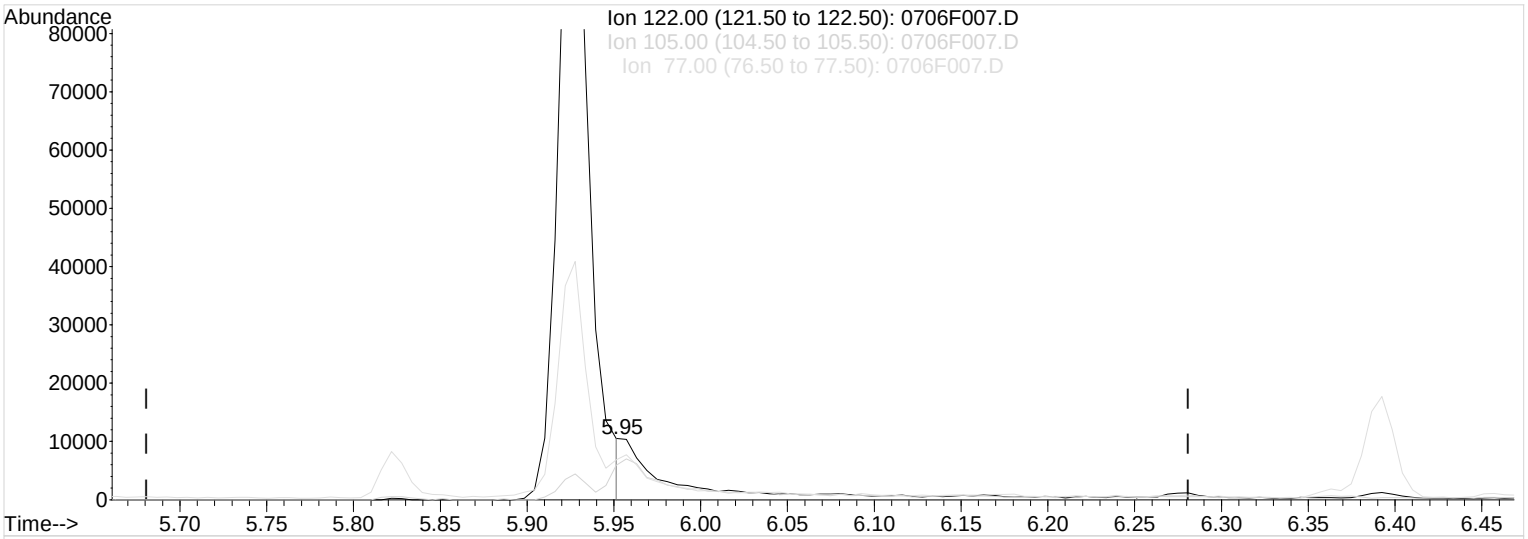
07/11/23

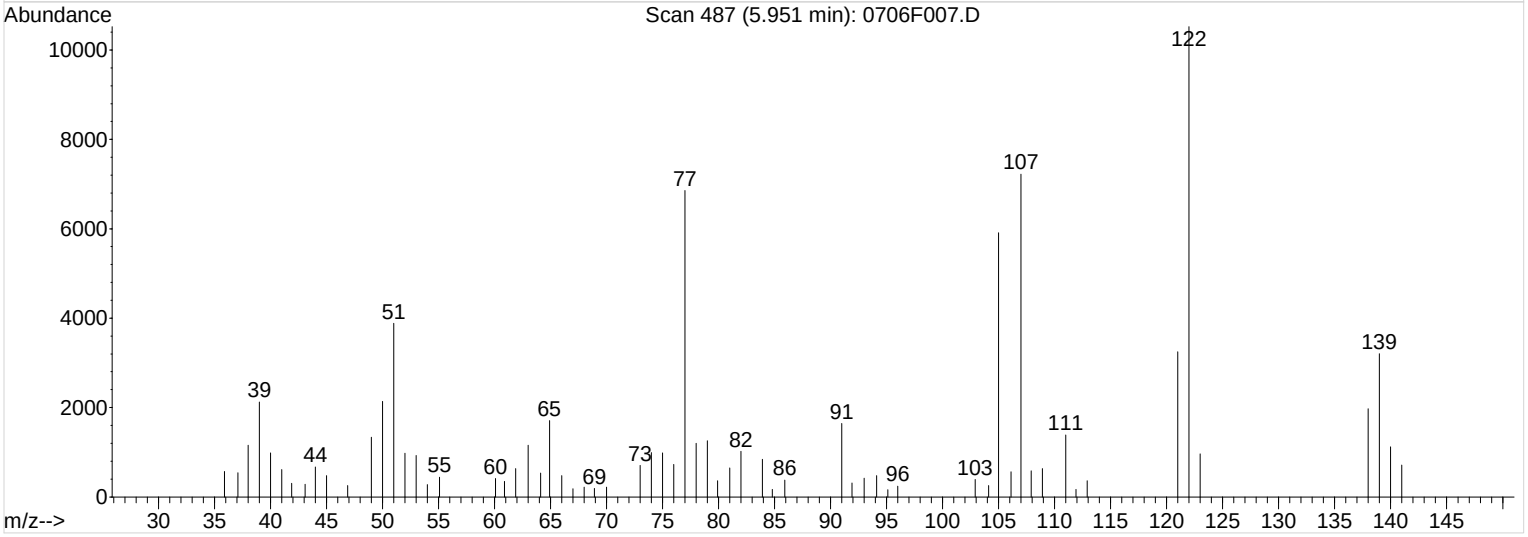
Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 17:25 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 17:18:43 2023
Response via : Multiple Level Calibration





TIC: 0706F007.D

(27) Benzoic Acid (T)

5.95min 1232.15ng/ml m

response 24631

Ion	Exp%	Act%
122.00	100	100
105.00	118.90	56.17#
77.00	91.30	65.11
0.00	0.00	0.00

Manual Integration:

After

Wrong peak

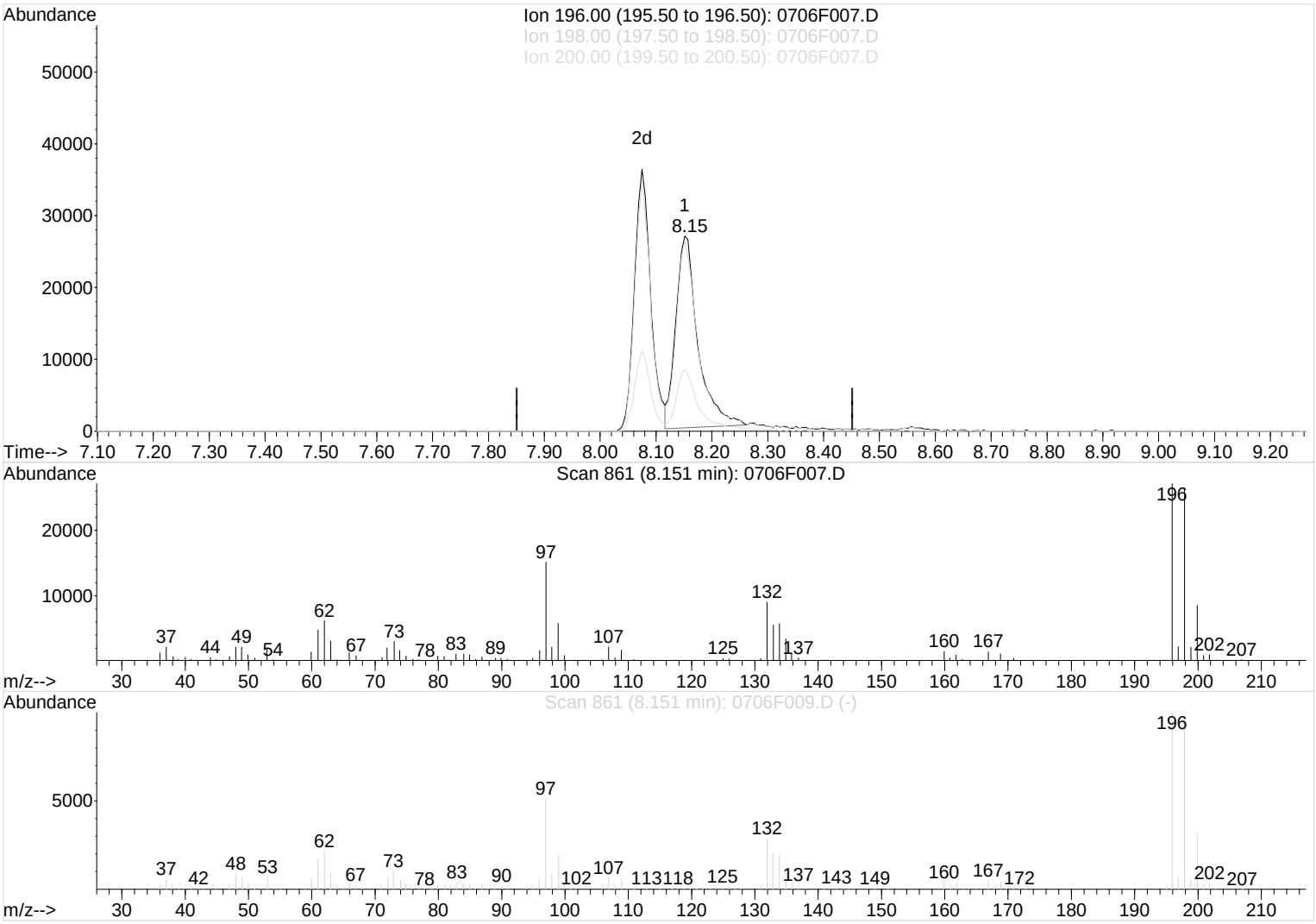
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:22 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(38) 2,4,5-Trichlorophenol (T)

8.15min 1016.93ng/ml

response 73530

Ion	Exp%	Act%
196.00	100	100
198.00	96.50	97.17
200.00	31.40	31.13
0.00	0.00	0.00

Manual Integration:

Before

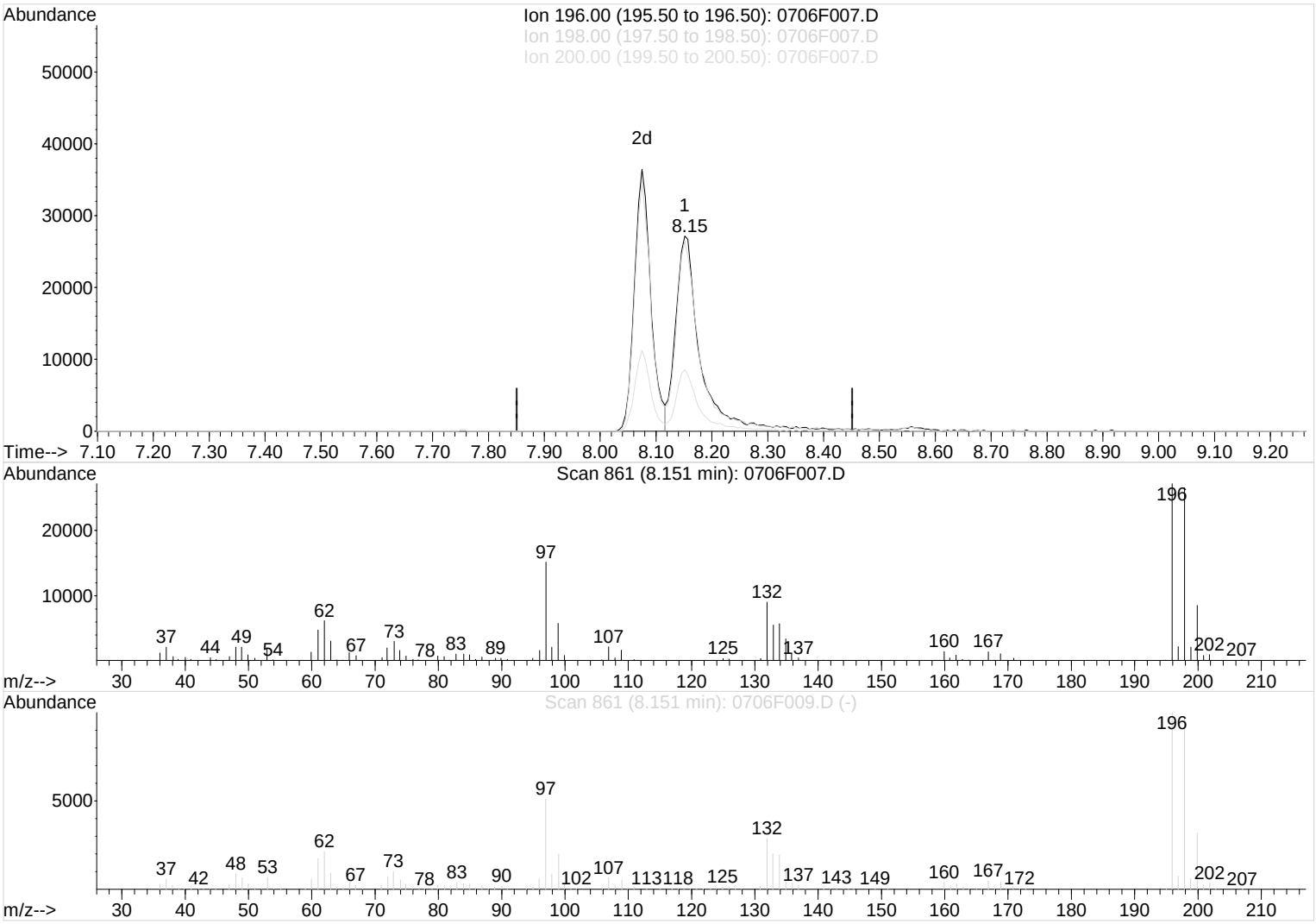
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:59 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(38) 2,4,5-Trichlorophenol (T)

8.15min 1122.15ng/ml m

response 83883

Ion	Exp%	Act%
196.00	100	100
198.00	96.50	97.53
200.00	31.40	31.48
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

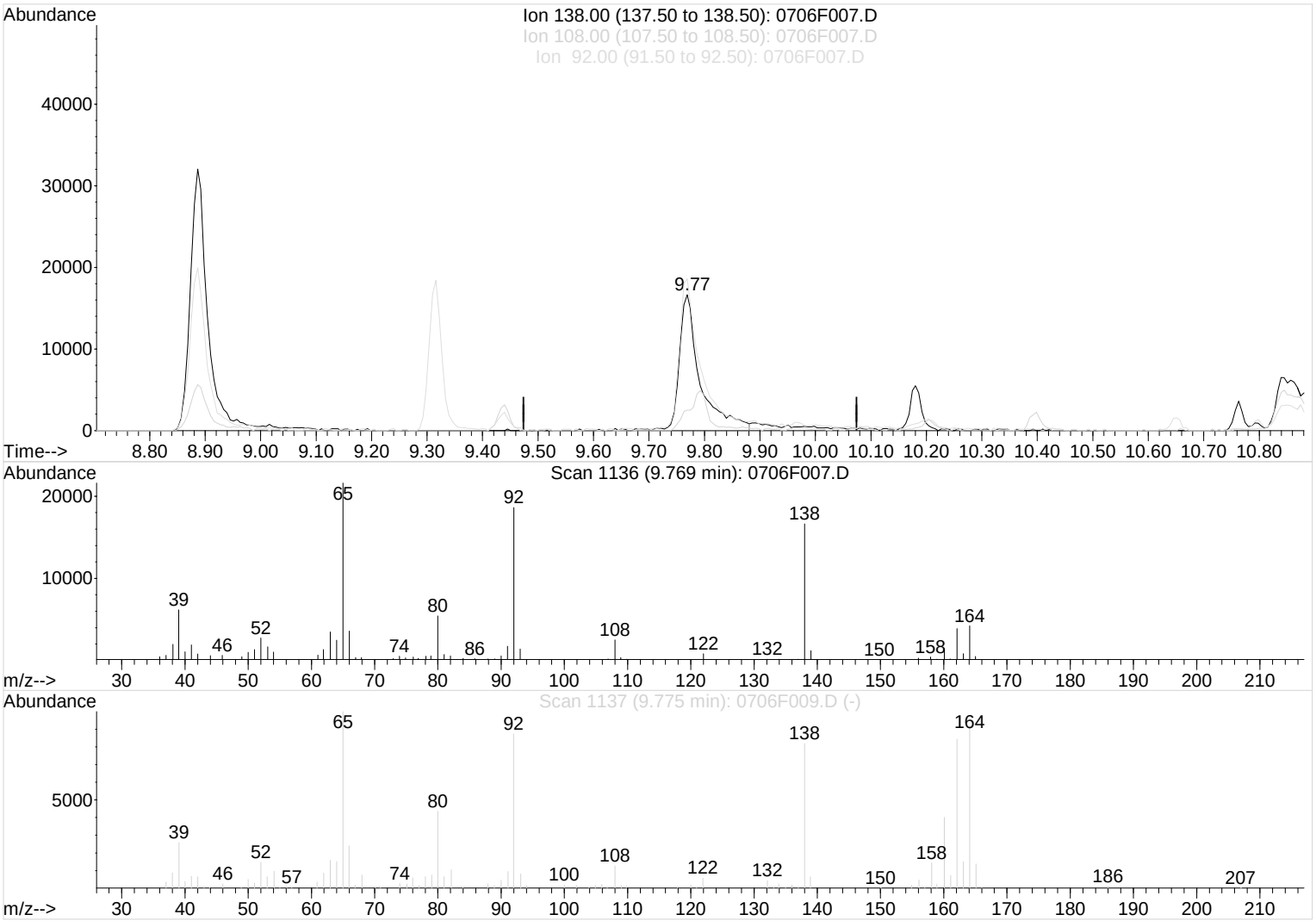
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:59 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(46) 3-Nitroaniline (T)

9.77min 0.00ng/ml

response 43703

Ion	Exp%	Act%
138.00	100	100
108.00	15.30	15.15
92.00	106.70	110.63
0.00	0.00	0.00

Manual Integration:

Before

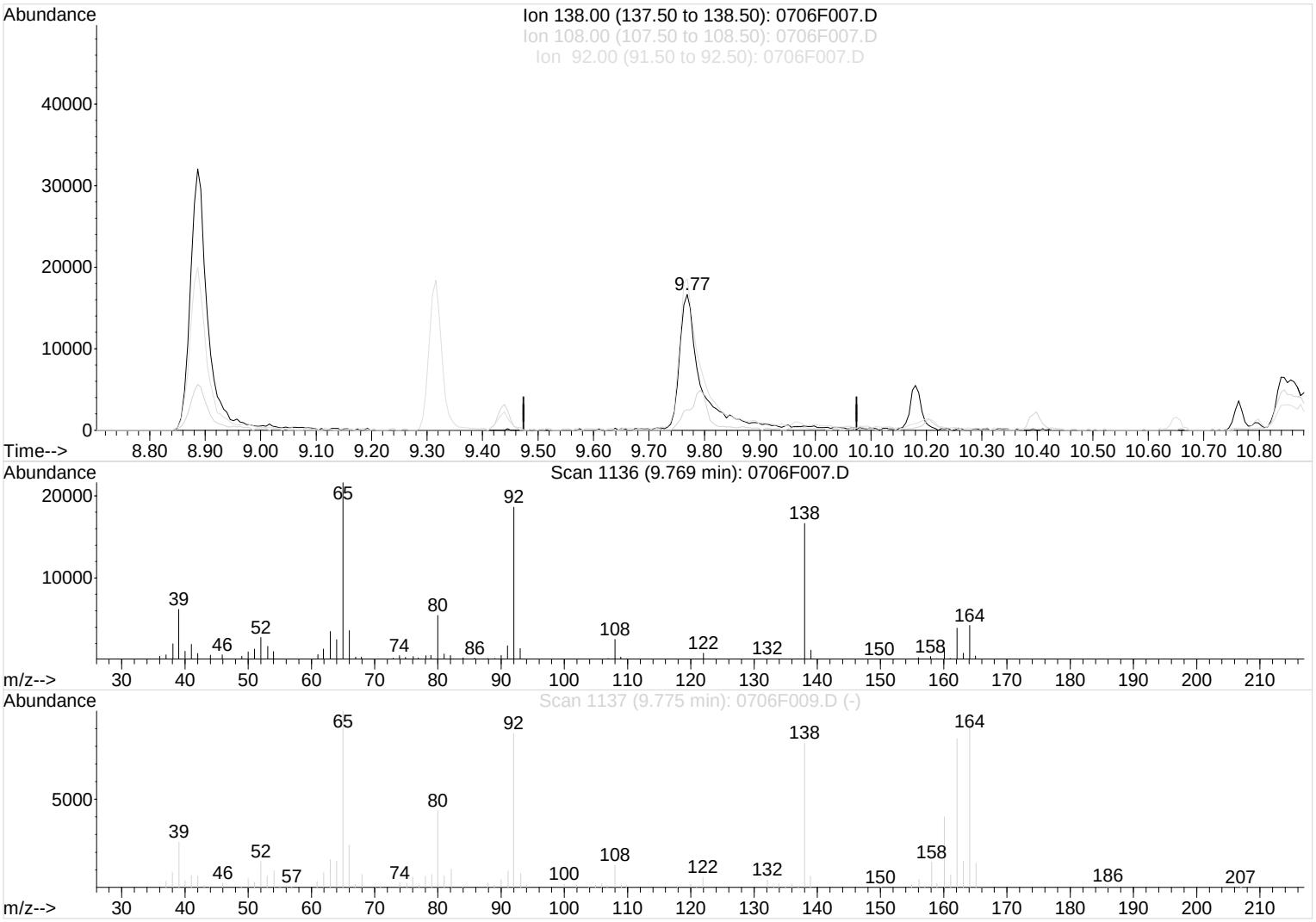
07/11/23

Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:59 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(46) 3-Nitroaniline (T)

9.77min 0.00ng/ml m

response 48841

Ion	Exp%	Act%
138.00	100	100
108.00	15.30	15.15
92.00	106.70	111.88
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

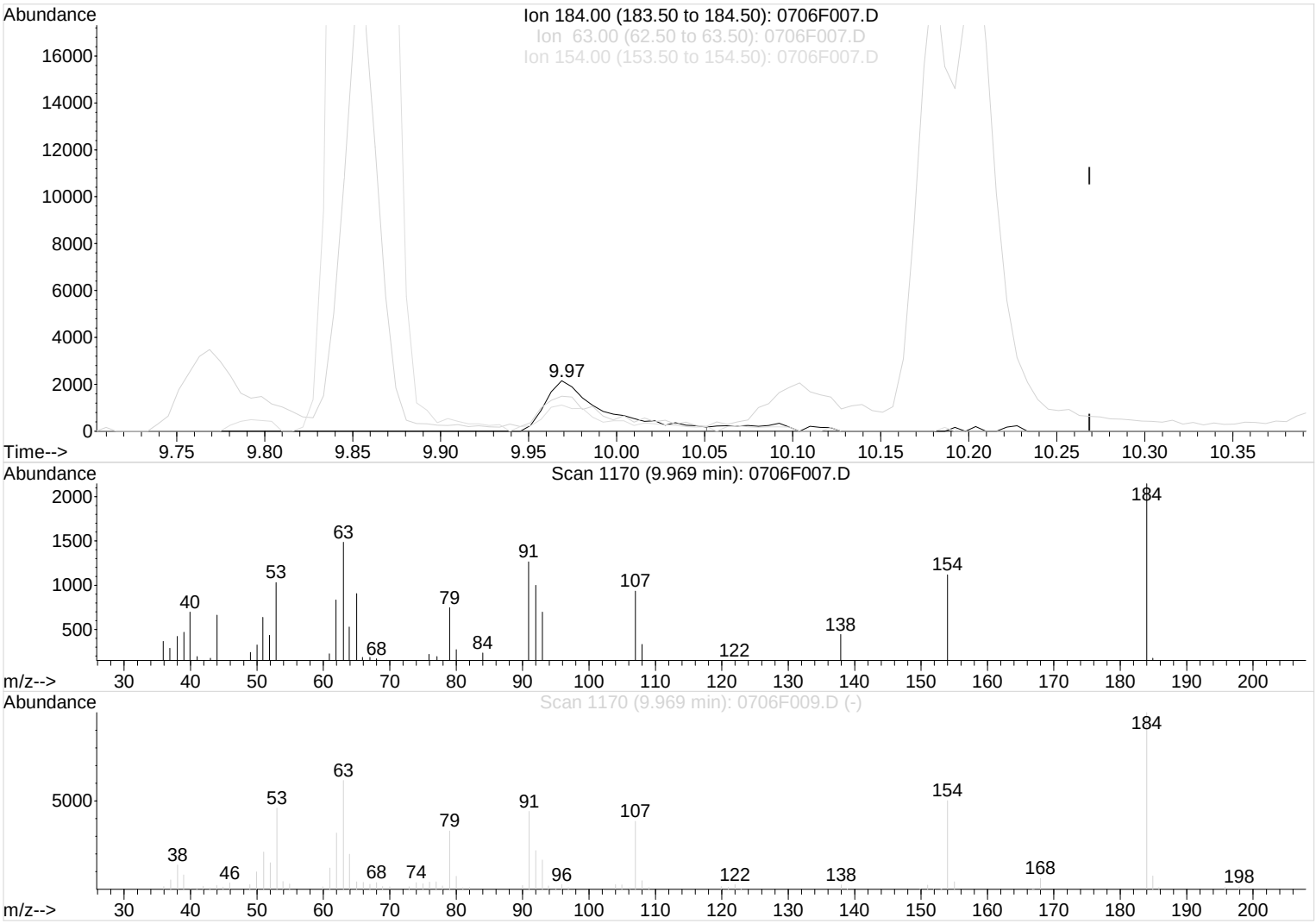
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:59 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(47) 2,4-Dinitrophenol (TP)

9.97min 1396.83ng/ml

response 5041

Ion	Exp%	Act%
184.00	100	100
63.00	61.50	59.39
154.00	50.10	52.03
0.00	0.00	0.00

Manual Integration:

Before

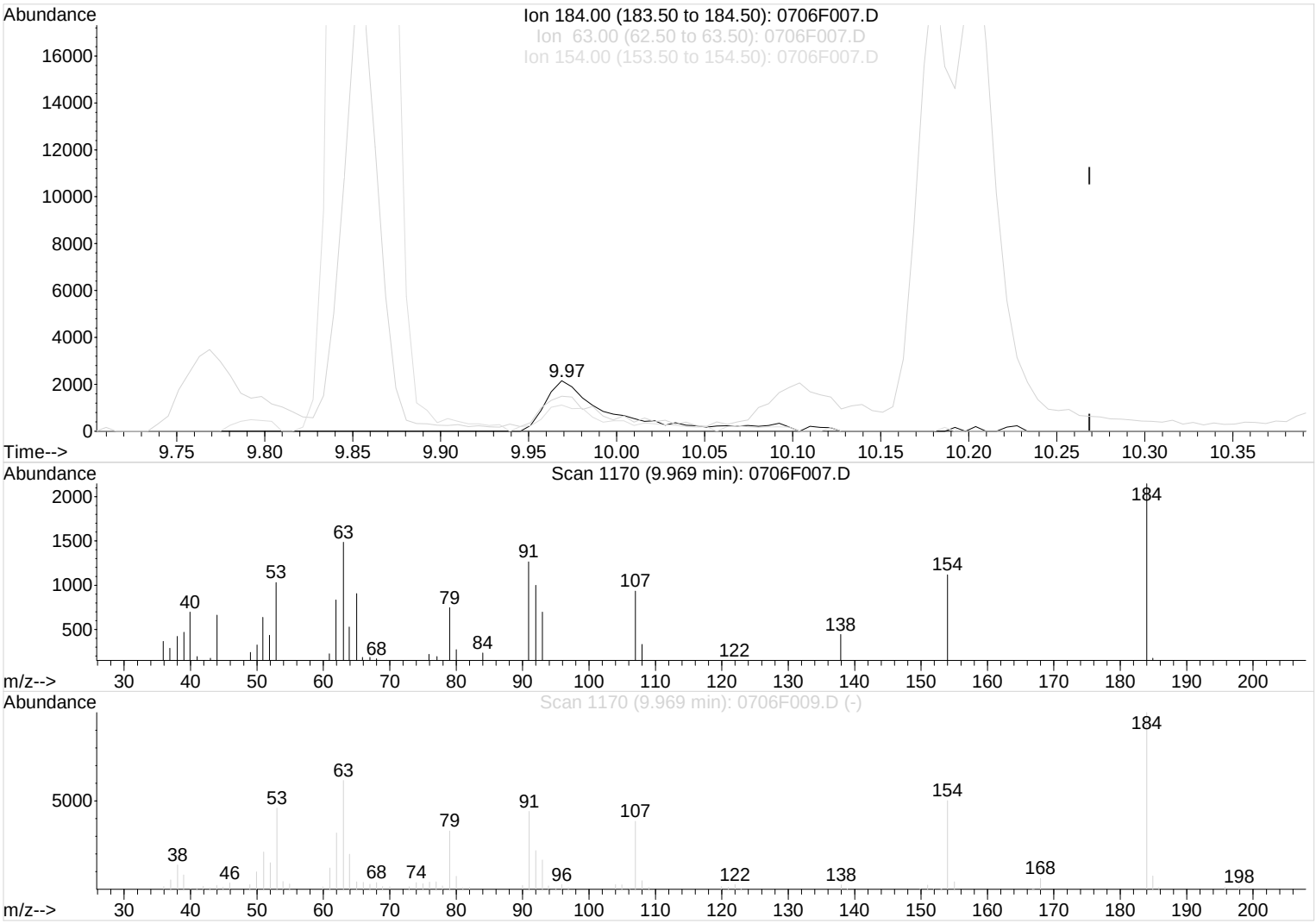
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:59 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(47) 2,4-Dinitrophenol (TP)

9.97min 1422.49ng/ml m

response 5699

Ion	Exp%	Act%
184.00	100	100
63.00	61.50	69.17
154.00	50.10	52.03
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

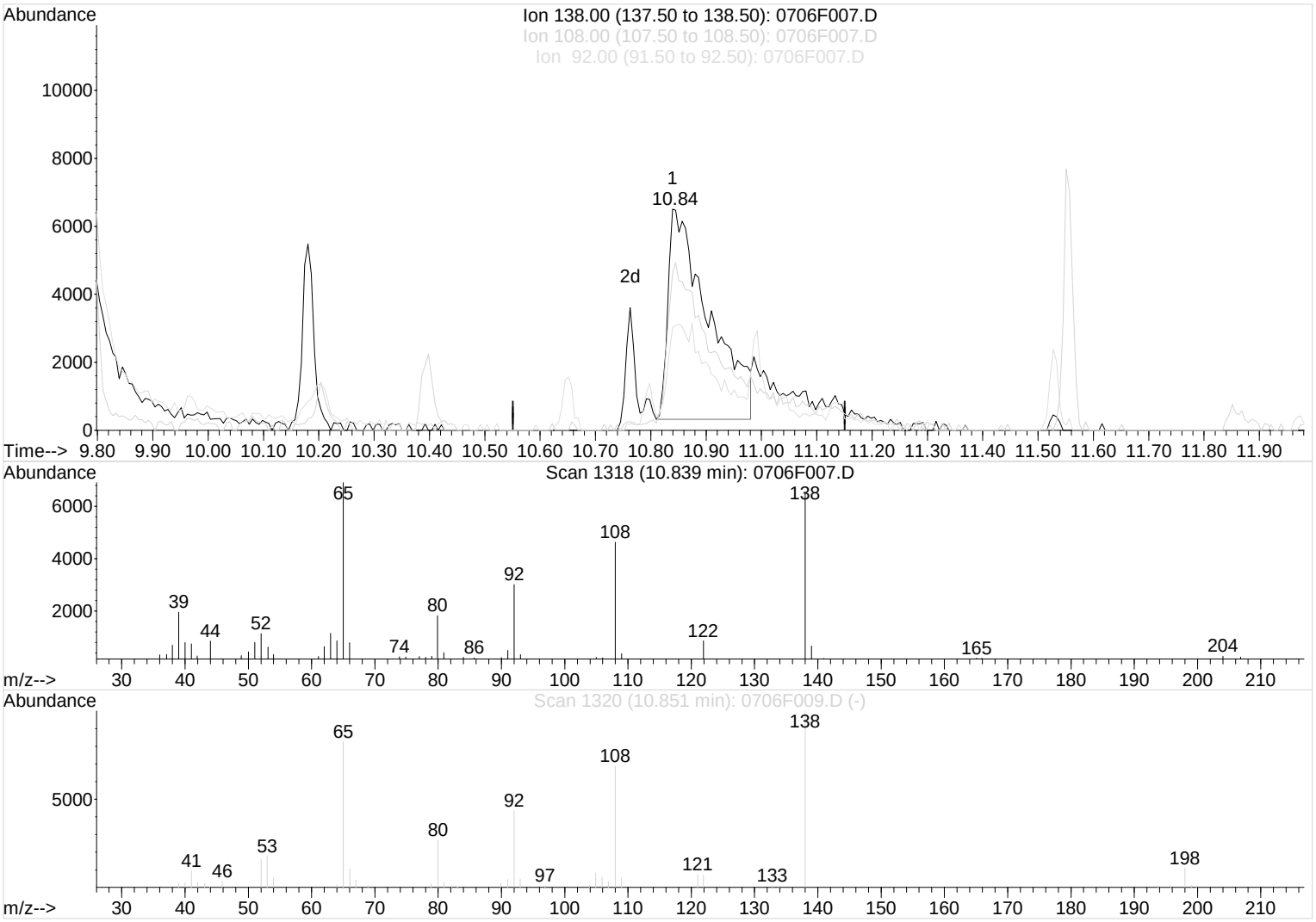
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:59 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(55) 4-Nitroaniline (T)

10.84min 1129.25ng/ml

response 31718

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	71.62
92.00	47.20	42.30
0.00	0.00	0.00

Manual Integration:

Before

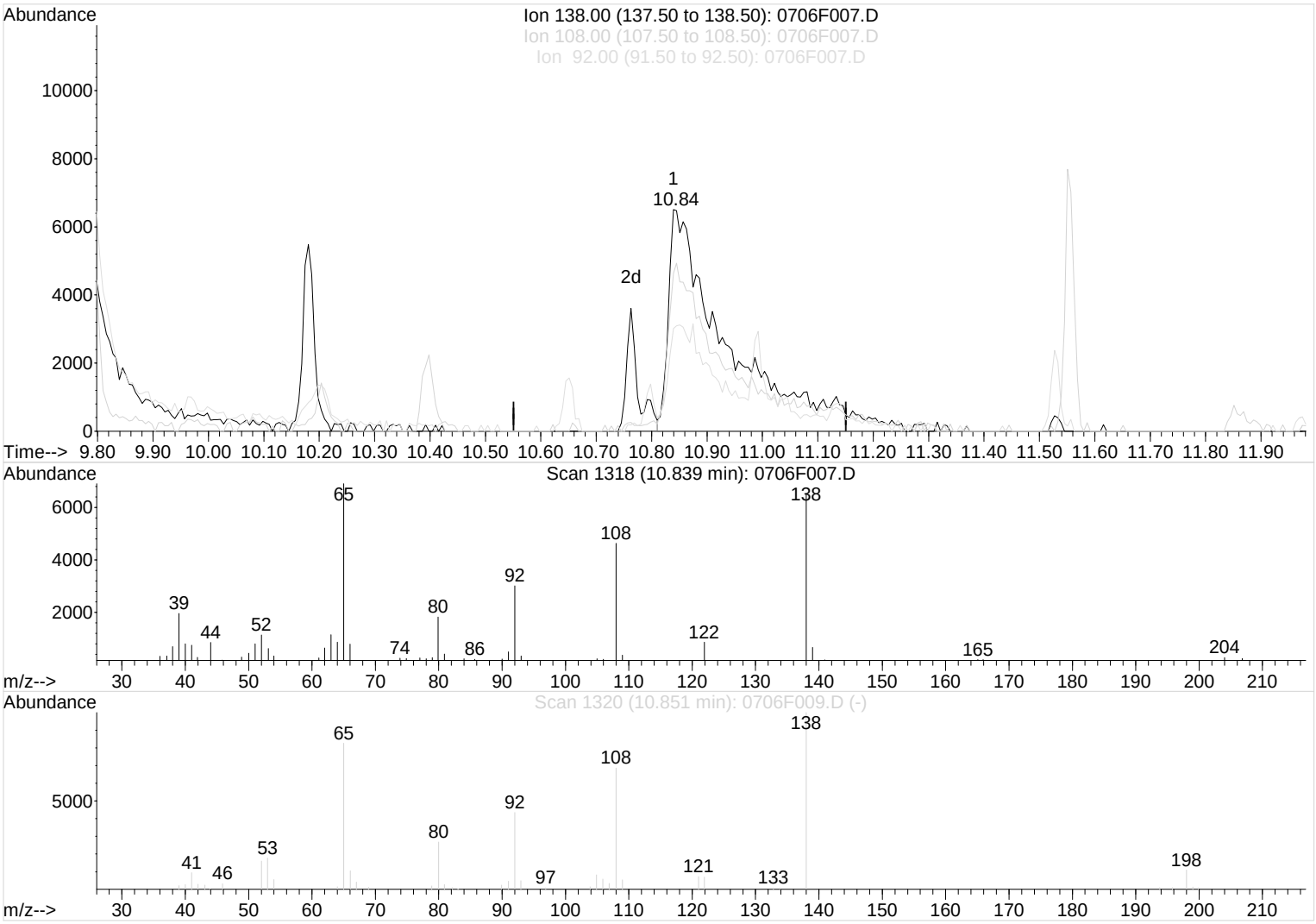
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(55) 4-Nitroaniline (T)

10.84min 1383.64ng/ml m

response 48072

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	71.25
92.00	47.20	46.29
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

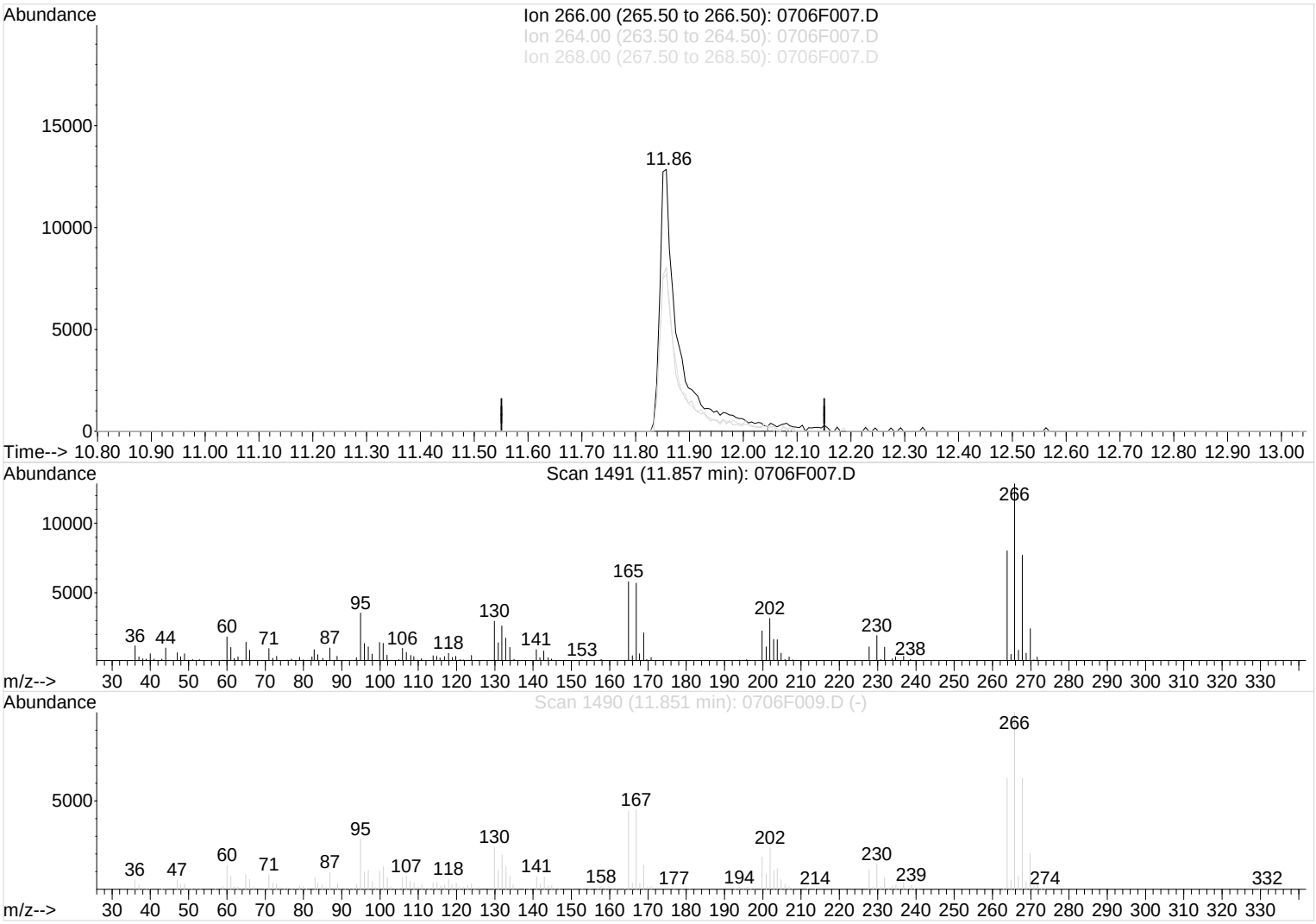
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(63) Pentachlorophenol (TC)

11.86min 1063.80ng/ml

response 31577

Ion	Exp%	Act%
266.00	100	100
264.00	62.90	62.45
268.00	62.70	59.99
0.00	0.00	0.00

Manual Integration:

Before

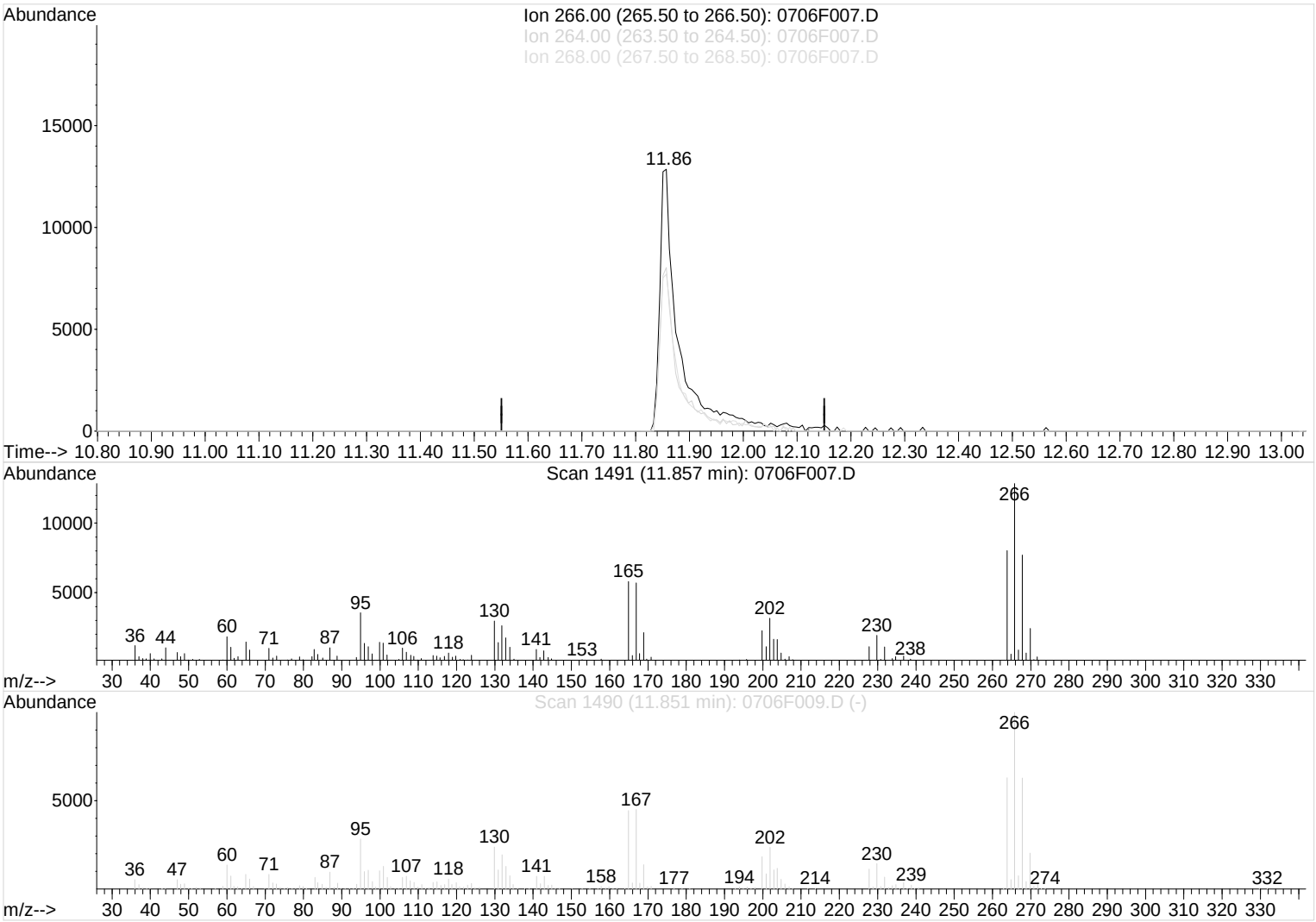
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(63) Pentachlorophenol (TC)

11.86min 1084.92ng/ml m

response 32720

Ion	Exp%	Act%
266.00	100	100
264.00	62.90	62.45
268.00	62.70	59.99
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

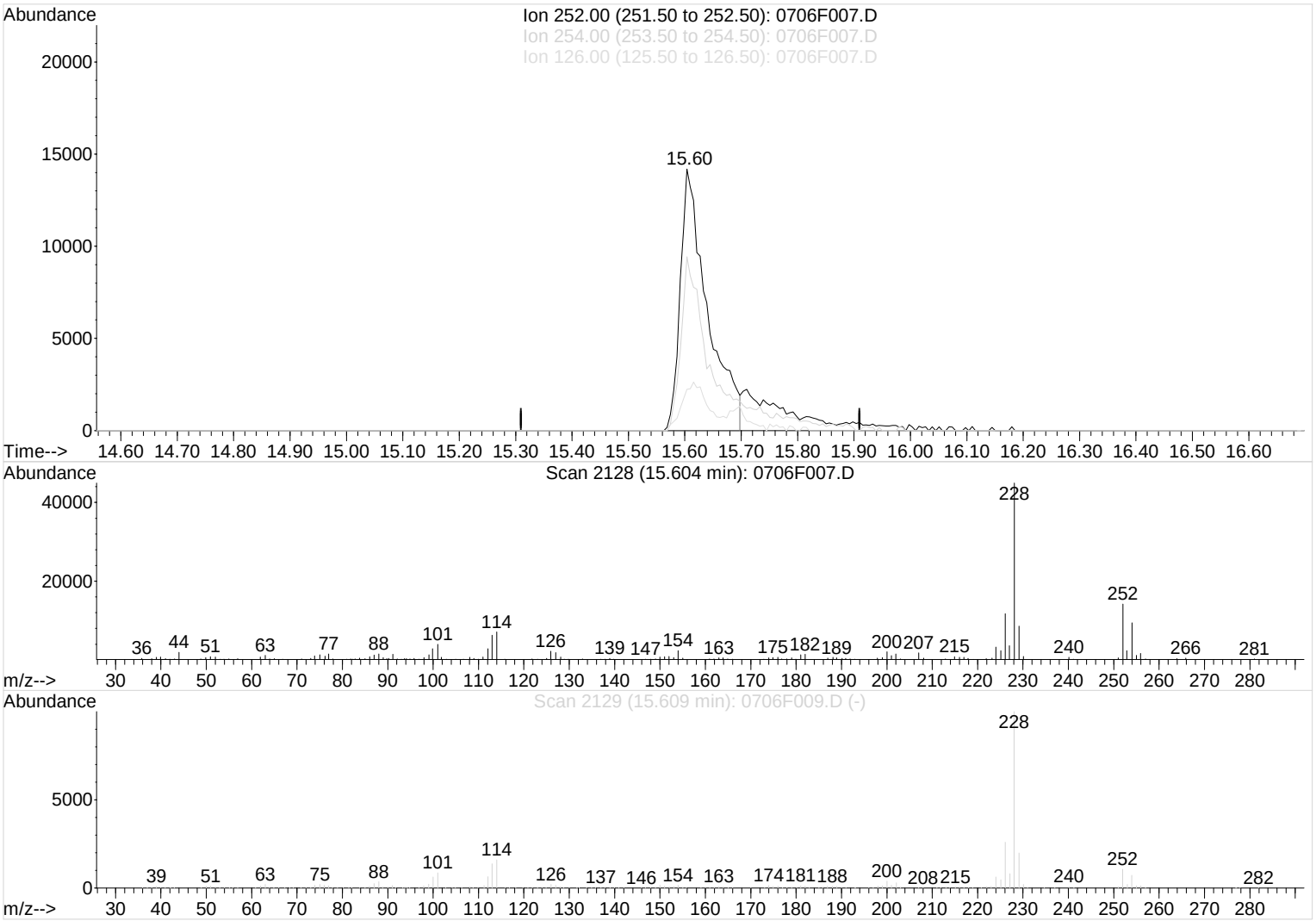
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 1424.37ng/ml

response 47480

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	66.46
126.00	19.10	15.74
0.00	0.00	0.00

Manual Integration:

Before

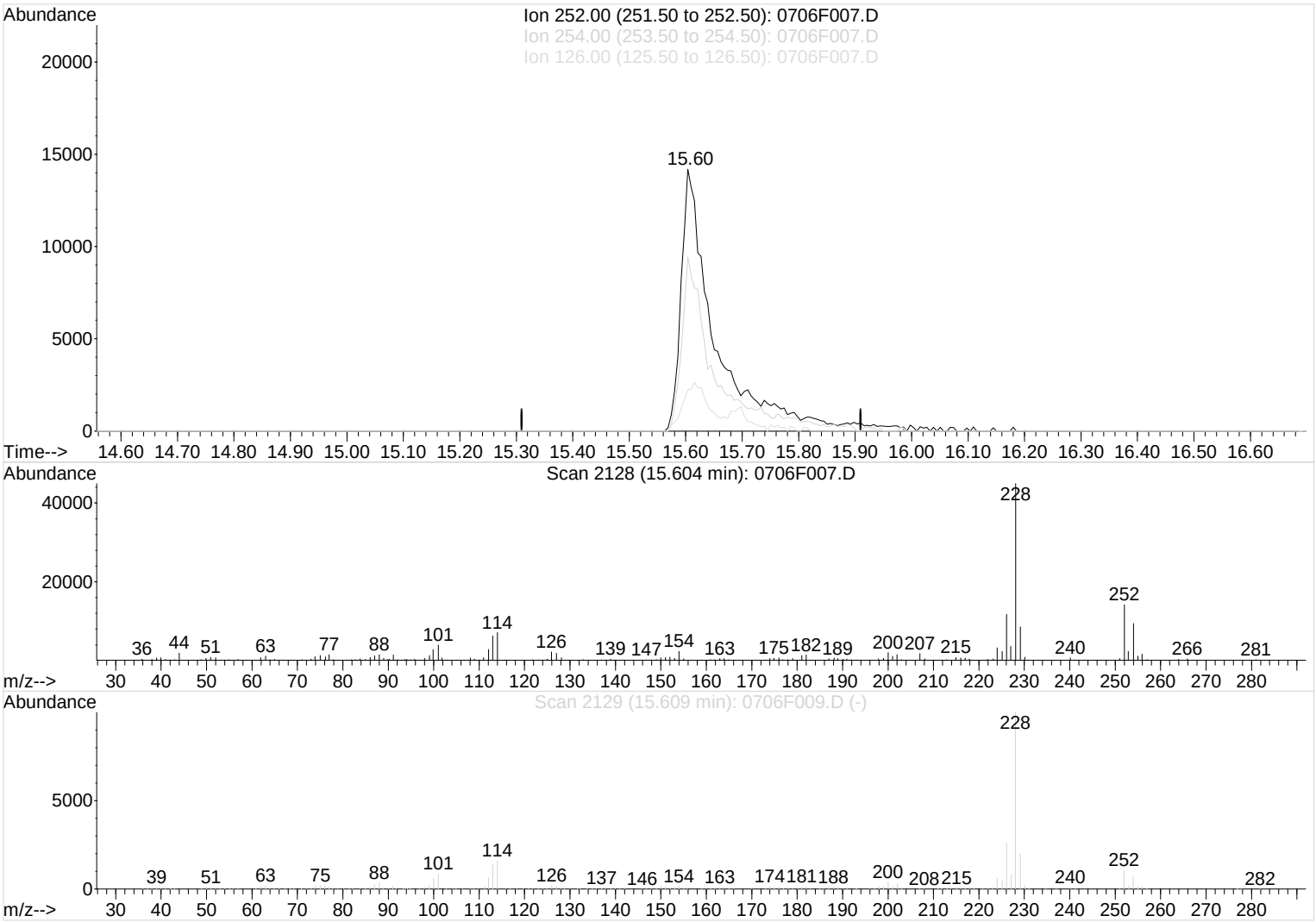
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F007.D Vial: 6
Acq On : 6 Jul 2023 1:41 pm Operator: CSD
Sample : SVO_LL ICAL 1.0ppm SVM70-29G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:00 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 14:21:53 2023
Response via : Multiple Level Calibration



TIC: 0706F007.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 1818.00ng/ml m

response 60601

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	66.46
126.00	19.10	15.74
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/11/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:17:59 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	139002	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.36	136	539307	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.79	164	287291	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	405002	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	292285	1000.00	ng/ml	0.00
77) Perylene-d12	18.76	264	289500	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	351197	1972.99	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 52.61%			
6) Phenol-d6	4.72	99	413355	2002.92	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 53.41%			
19) Nitrobenzene-d5	5.57	82	361147	1958.82	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 78.35%			
39) 2-Fluorobiphenyl	8.30	172	748615	2008.16	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 80.33%			
60) 2,4,6-Tribromophenol	11.14	330	76578	2117.29	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 56.46%			
71) Terphenyl-d14	14.01	244	541244	1921.06	ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 76.84%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.14	42	183522	1969.16	ng/ml	99
3) Pyridine	3.17	79	438194	2017.39	ng/ml	99
5) Bis(2-chloroethyl) Ether	4.83	93	374835	1954.47	ng/ml	99
7) Phenol	4.73	94	452007	2018.18	ng/ml	98
8) Aniline	4.80	93	445771	2709.05	ng/ml	99
9) 2-Chlorophenol	4.89	128	372265	2003.18	ng/ml	99
10) 1,3-Dichlorobenzene	5.03	146	416507	2062.70	ng/ml	99
11) 1,4-Dichlorobenzene	5.09	146	430052	2070.60	ng/ml	99
12) 1,2-Dichlorobenzene	5.22	146	400127	2061.61	ng/ml	99
13) Benzyl Alcohol	5.18	108	226949	2140.60	ng/ml	98
14) 2,2'-oxybis(1-chloropropan	5.29	45	466445	2057.15	ng/ml	99
15) 2-Methylphenol	5.26	107	287958	2003.95	ng/ml	100
16) Hexachloroethane	5.53	117	164725	2029.89	ng/ml	97
17) N-Nitrosodi-n-propylamine	5.41	70	252773	2004.69	ng/ml	97
18) 4-Methylphenol	5.39	107	381498	2115.79	ng/ml	100
20) Nitrobenzene	5.60	77	373204	2001.43	ng/ml	100
22) Isophorone	5.82	82	621554	1970.19	ng/ml	98
23) 2-Nitrophenol	5.92	139	236990	1783.96	ng/ml	99
24) 2,4-Dimethylphenol	5.93	122	311952	2000.18	ng/ml	99
25) Bis(2-chloroethoxy)methane	6.05	93	422256	2031.27	ng/ml	99
26) 2,4-Dichlorophenol	6.17	162	267802	1919.89	ng/ml	99
27) Benzoic Acid	5.97	122	82019m	2119.05	ng/ml	
28) 1,2,4-Trichlorobenzene	6.28	180	322999	2045.70	ng/ml	98
29) Naphthalene	6.39	128	1093856	2063.12	ng/ml	100
30) 4-Chloroaniline	6.46	127	241614	3927.47	ng/ml	100
31) Hexachlorobutadiene	6.52	225	177247	2073.11	ng/ml	98
32) 4-Chloro-3-methylphenol	7.16	107	265395	2031.00	ng/ml	99
33) 2-Methylnaphthalene	7.48	141	621087	2005.19	ng/ml	100
34) 1-Methylnaphthalene	7.67	141	629132	2015.95	ng/ml	100
36) Hexachlorocyclopentadiene	7.76	237	149800	2052.89	ng/ml	98
37) 2,4,6-Trichlorophenol	8.07	196	171463	2042.21	ng/ml	97
38) 2,4,5-Trichlorophenol	8.15	196	175403	1981.78	ng/ml	96
40) 2-Chloronaphthalene	8.60	162	615725	1984.63	ng/ml	99
41) 2-Nitroaniline	8.89	65	161317	1924.31	ng/ml	99
42) Acenaphthylene	9.52	152	952632	1964.12	ng/ml	100
43) Dimethyl Phthalate	9.32	163	655287	1942.89	ng/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:17:59 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

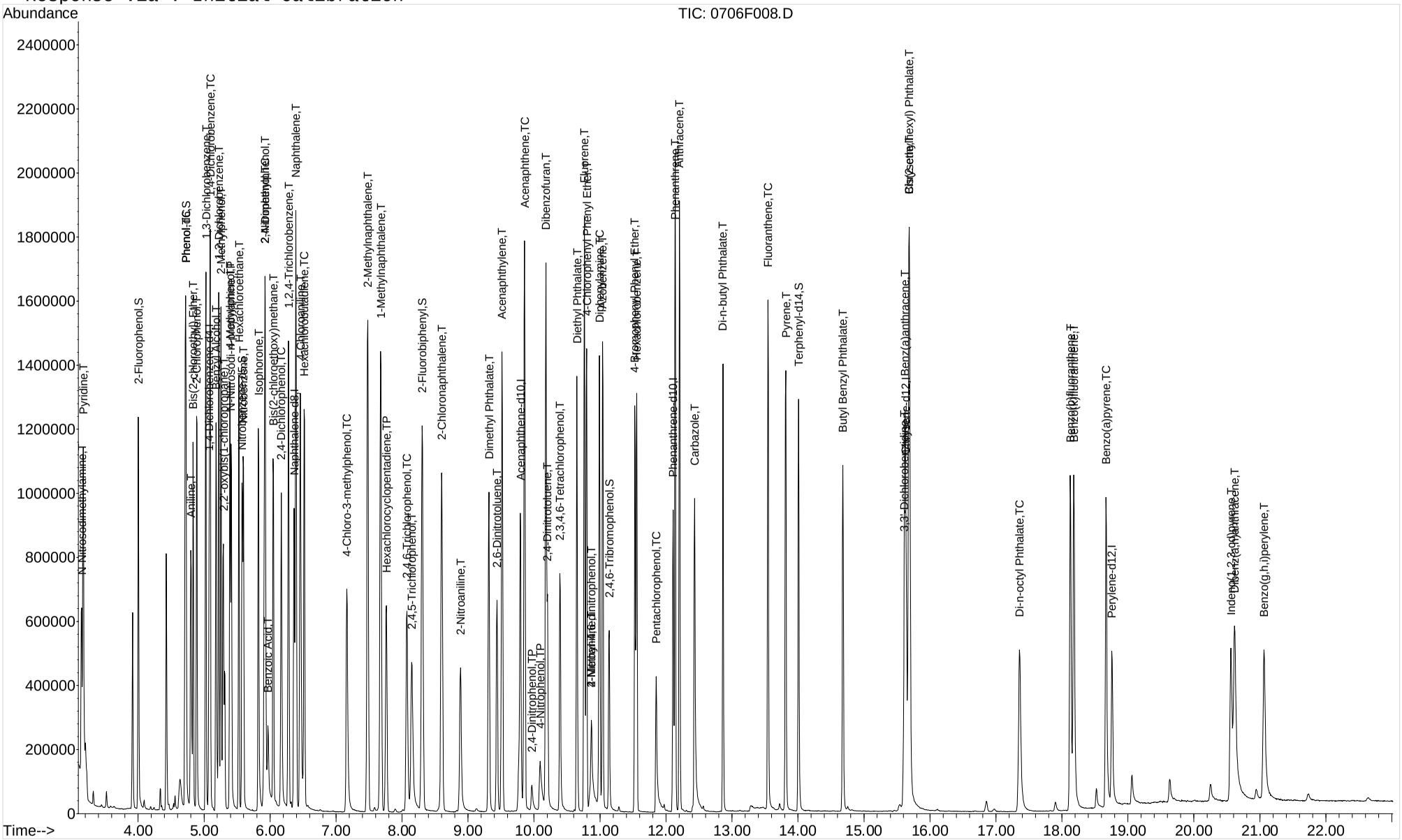
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	2,6-Dinitrotoluene	9.44	165	129213	1964.33	ng/ml	100
45)	Acenaphthene	9.86	154	585542	1984.76	ng/ml	99
47)	2,4-Dinitrophenol	9.97	184	21292	1946.23	ng/ml	94
48)	Dibenzofuran	10.18	168	929091	2046.61	ng/ml	99
49)	4-Nitrophenol	10.09	109	43385	1972.65	ng/ml	88
50)	2,4-Dinitrotoluene	10.20	165	162706	1833.32	ng/ml	99
51)	2,3,4,6-Tetrachlorophenol	10.40	232	129937	1985.28	ng/ml	98
52)	Fluorene	10.76	166	670737	1971.42	ng/ml	99
53)	4-Chlorophenyl Phenyl Ethe	10.80	204	319582	2019.44	ng/ml	99
54)	Diethyl Phthalate	10.65	149	616421	2108.82	ng/ml	99
55)	4-Nitroaniline	10.86	138	87922m	2049.46	ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.87	198	48318	1912.49	ng/ml	92
57)	Diphenylamine	10.99	169	459147	2205.67	ng/ml	100
58)	Azobenzene	11.04	77	686642	1985.53	ng/ml	96
61)	4-Bromophenyl Phenyl Ether	11.53	248	168242	2113.30	ng/ml	99
62)	Hexachlorobenzene	11.56	284	196396	1922.42	ng/ml	100
63)	Pentachlorophenol	11.85	266	82377m	2185.29	ng/ml	
64)	Phenanthrene	12.14	178	888128	2035.64	ng/ml	100
65)	Anthracene	12.20	178	856987	2022.78	ng/ml	100
66)	Carbazole	12.43	167	654061	1827.01	ng/ml	99
67)	Di-n-butyl Phthalate	12.86	149	719633	2243.30	ng/ml	100
68)	Fluoranthene	13.55	202	739143	1828.64	ng/ml	100
70)	Pyrene	13.82	202	702540	2110.81	ng/ml	99
72)	Butyl Benzyl Phthalate	14.68	149	328209	2011.41	ng/ml	100
73)	3,3'-Dichlorobenzidine	15.60	252	112979m	3454.18	ng/ml	
74)	Benz(a)anthracene	15.62	228	715024	1937.16	ng/ml	99
75)	Chrysene	15.69	228	705656	2095.57	ng/ml	100
76)	Bis(2-ethylhexyl) Phthalat	15.68	149	522061	1835.22	ng/ml	100
78)	Di-n-octyl Phthalate	17.36	149	640357	2104.54	ng/ml	99
79)	Benzo(b)fluoranthene	18.13	252	682290	2166.30	ng/ml	99
80)	Benzo(k)fluoranthene	18.18	252	753504	1975.73	ng/ml	99
81)	Benzo(a)pyrene	18.67	252	610316	2029.35	ng/ml	99
82)	Indeno(1,2,3-cd)pyrene	20.56	276	419587	2130.82	ng/ml	97
83)	Dibenz(a,h)anthracene	20.62	278	558454	2111.04	ng/ml	99
84)	Benzo(g,h,i)perylene	21.06	276	482482	2018.89	ng/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:20 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

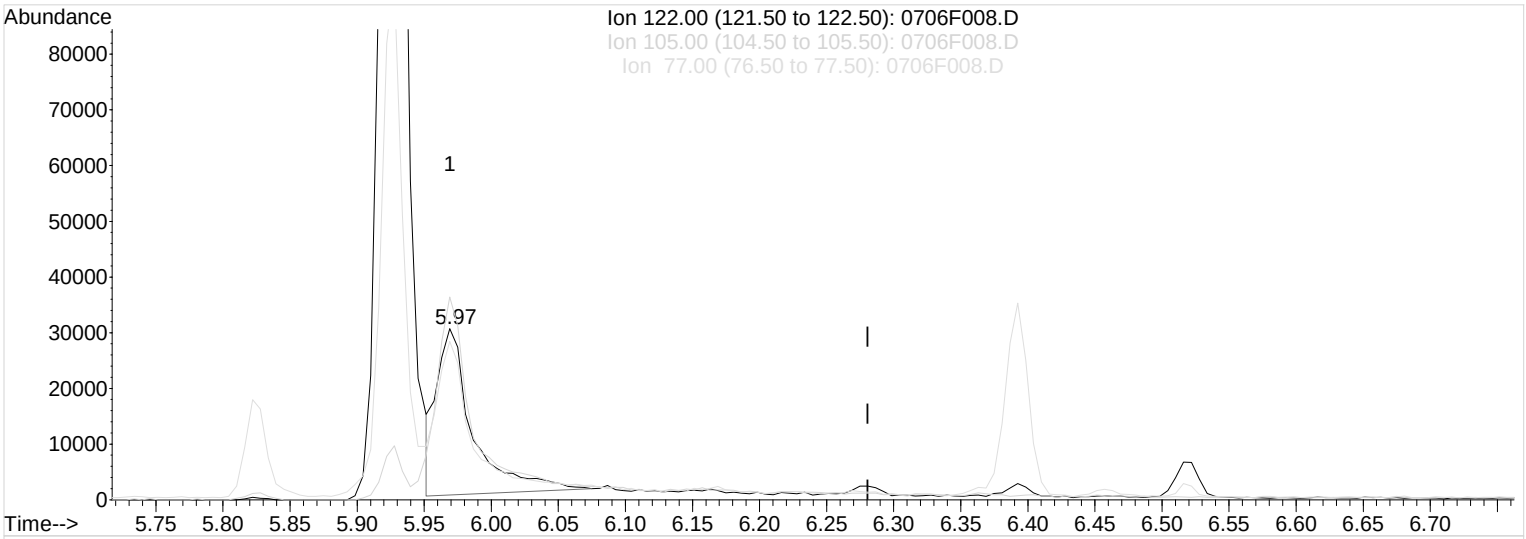


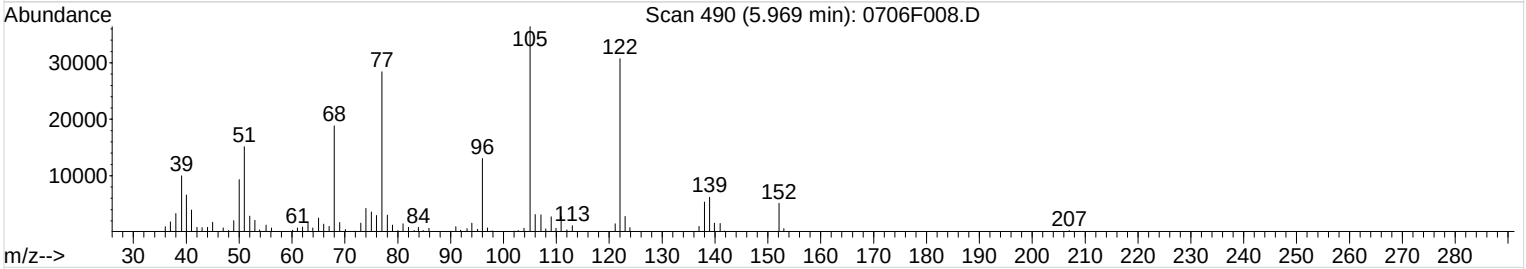
Quantitation Report (Qedit)

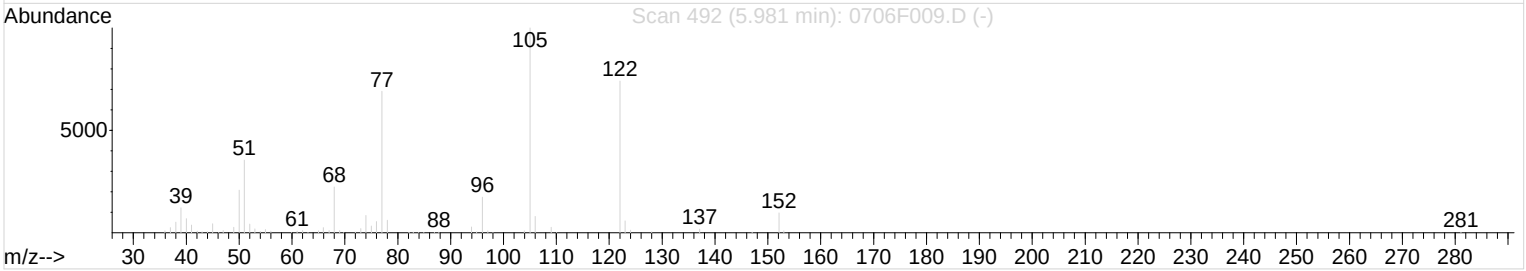
1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:18 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Multiple Level Calibration







TIC: 0706F008.D

(27) Benzoic Acid (T)

5.97min 1792.97ng/ml

response 56571

Ion	Exp%	Act%
122.00	100	100
105.00	118.90	118.38
77.00	91.30	89.76
0.00	0.00	0.00

Manual Integration:

Before

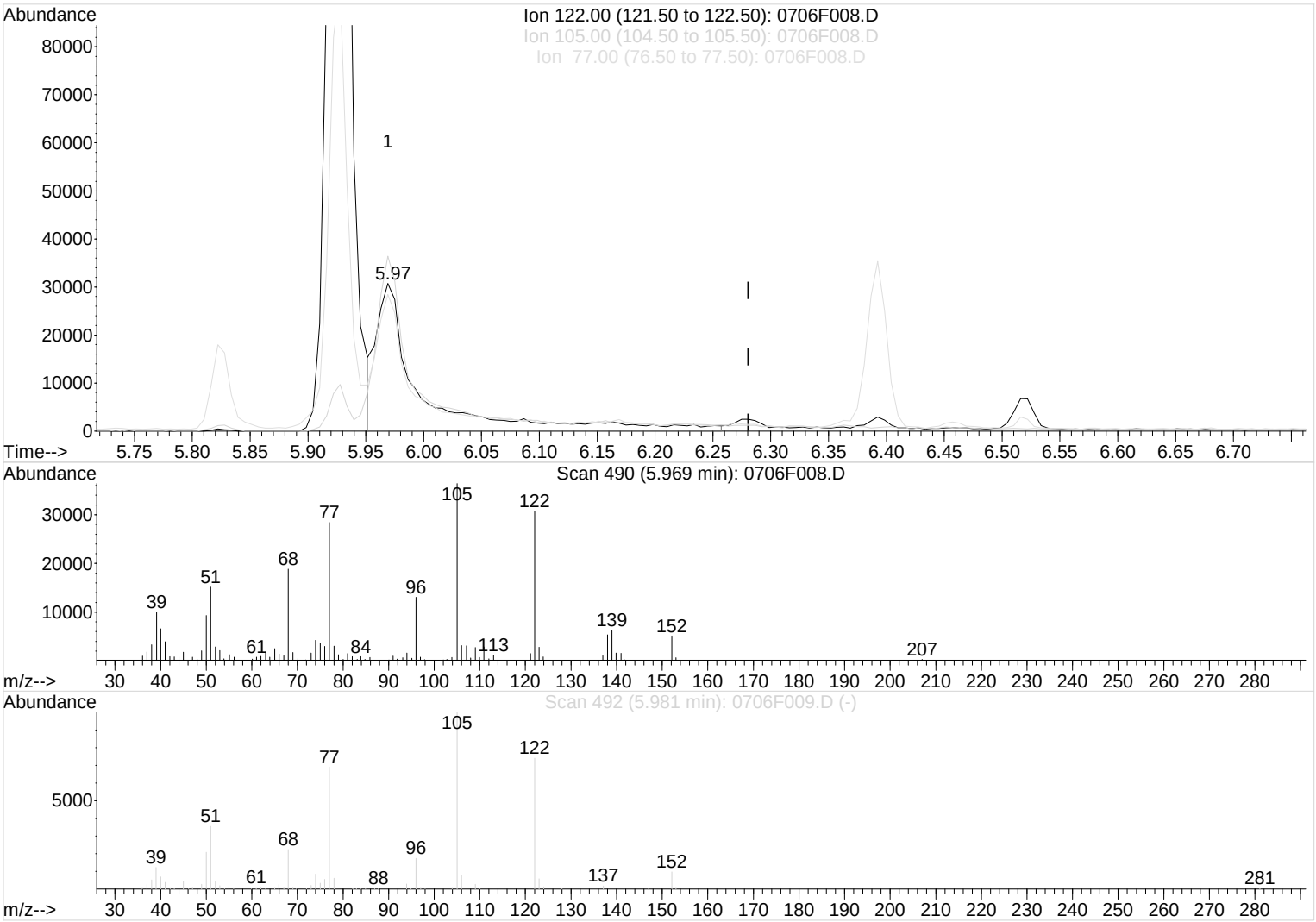
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:19 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Multiple Level Calibration



TIC: 0706F008.D

(27) Benzoic Acid (T)

5.97min 2119.05ng/ml m

response 82019

Ion	Exp%	Act%
122.00	100	100
105.00	118.90	118.50
77.00	91.30	92.45
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

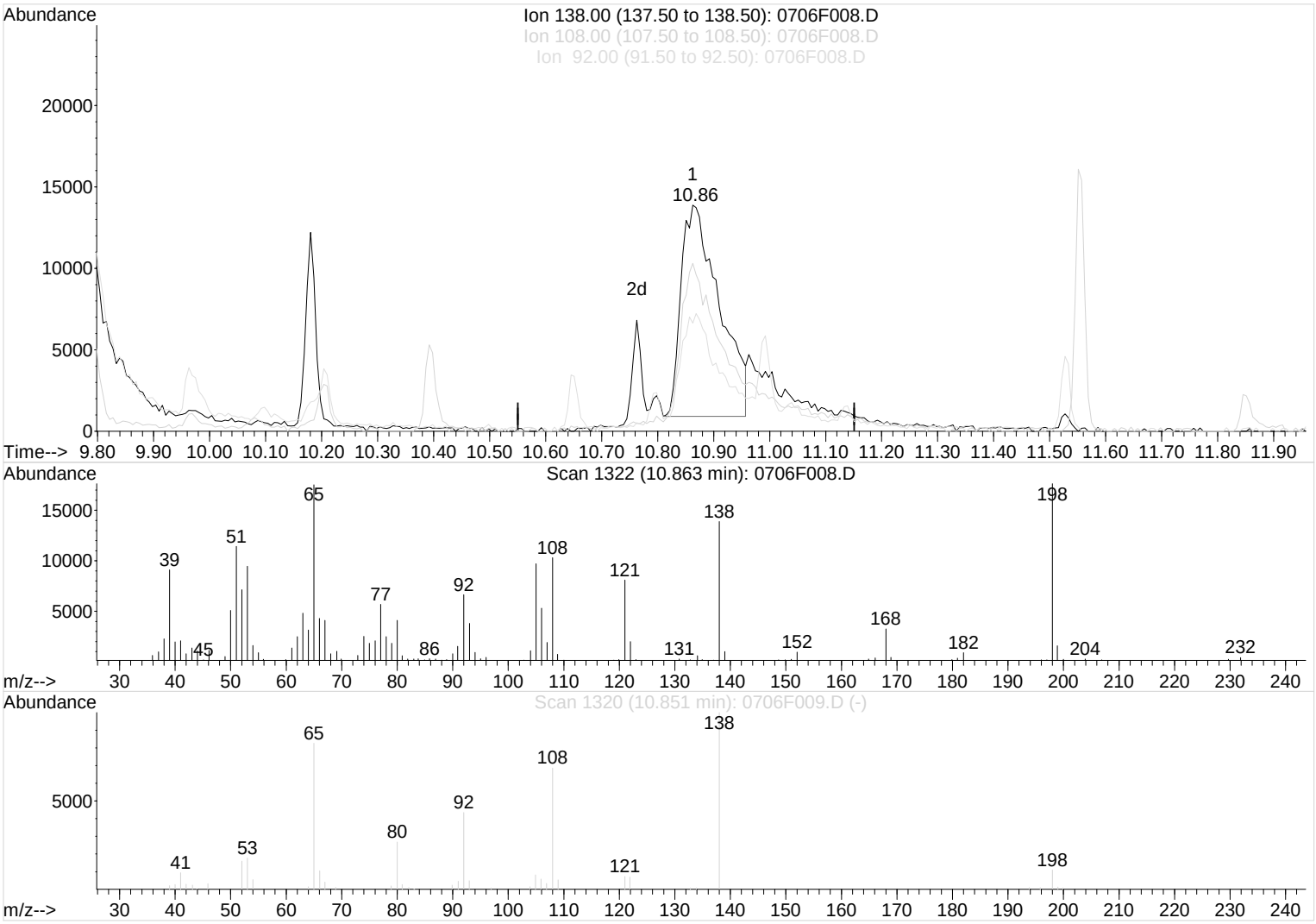
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:19 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Multiple Level Calibration



TIC: 0706F008.D

(55) 4-Nitroaniline (T)

10.86min 1616.41ng/ml

response 61393

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	75.05
92.00	47.20	45.44
0.00	0.00	0.00

Manual Integration:

Before

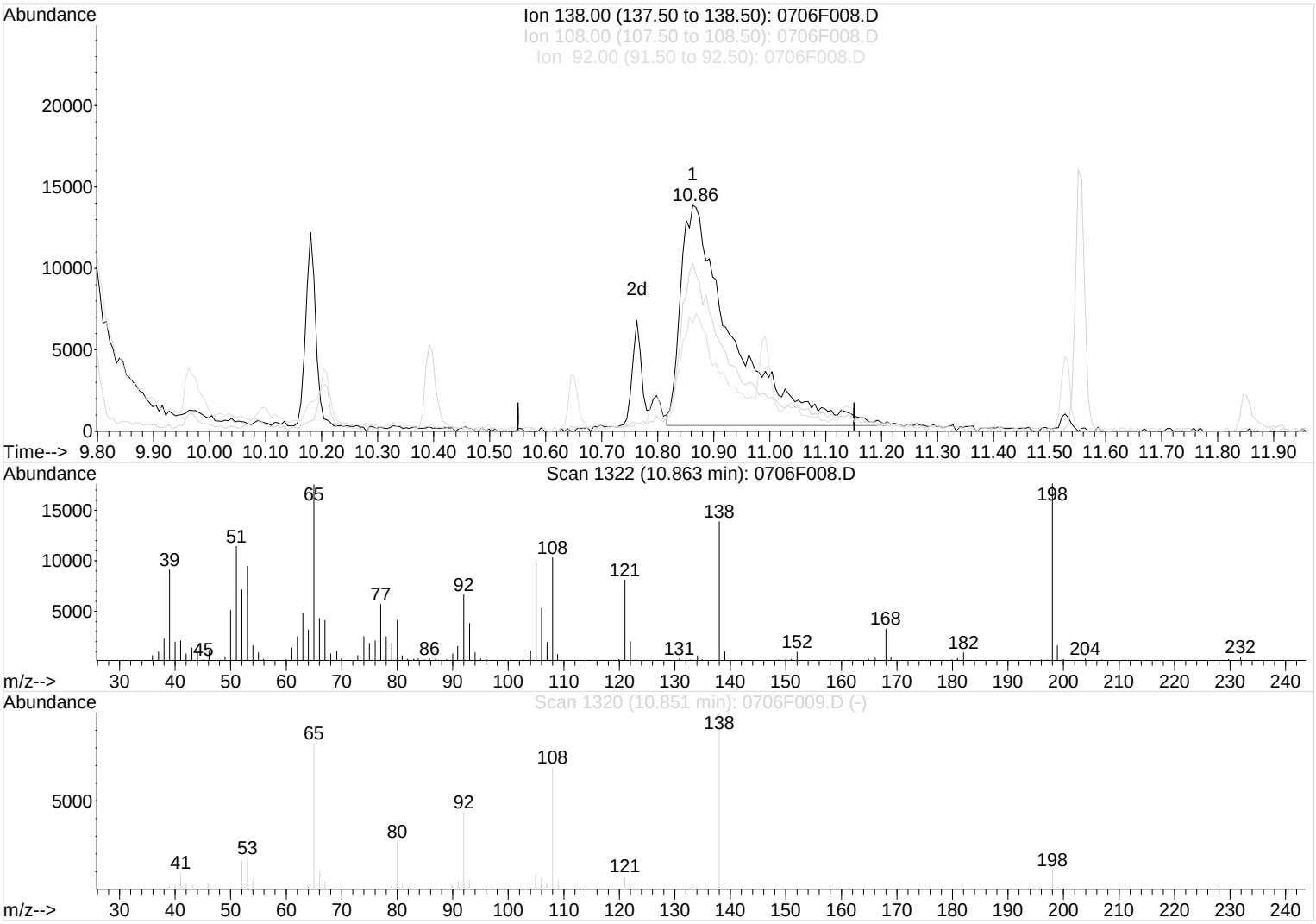
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:19 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Multiple Level Calibration



TIC: 0706F008.D

(55) 4-Nitroaniline (T)

10.86min 2049.46ng/ml m

response 87922

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	74.28
92.00	47.20	47.88
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

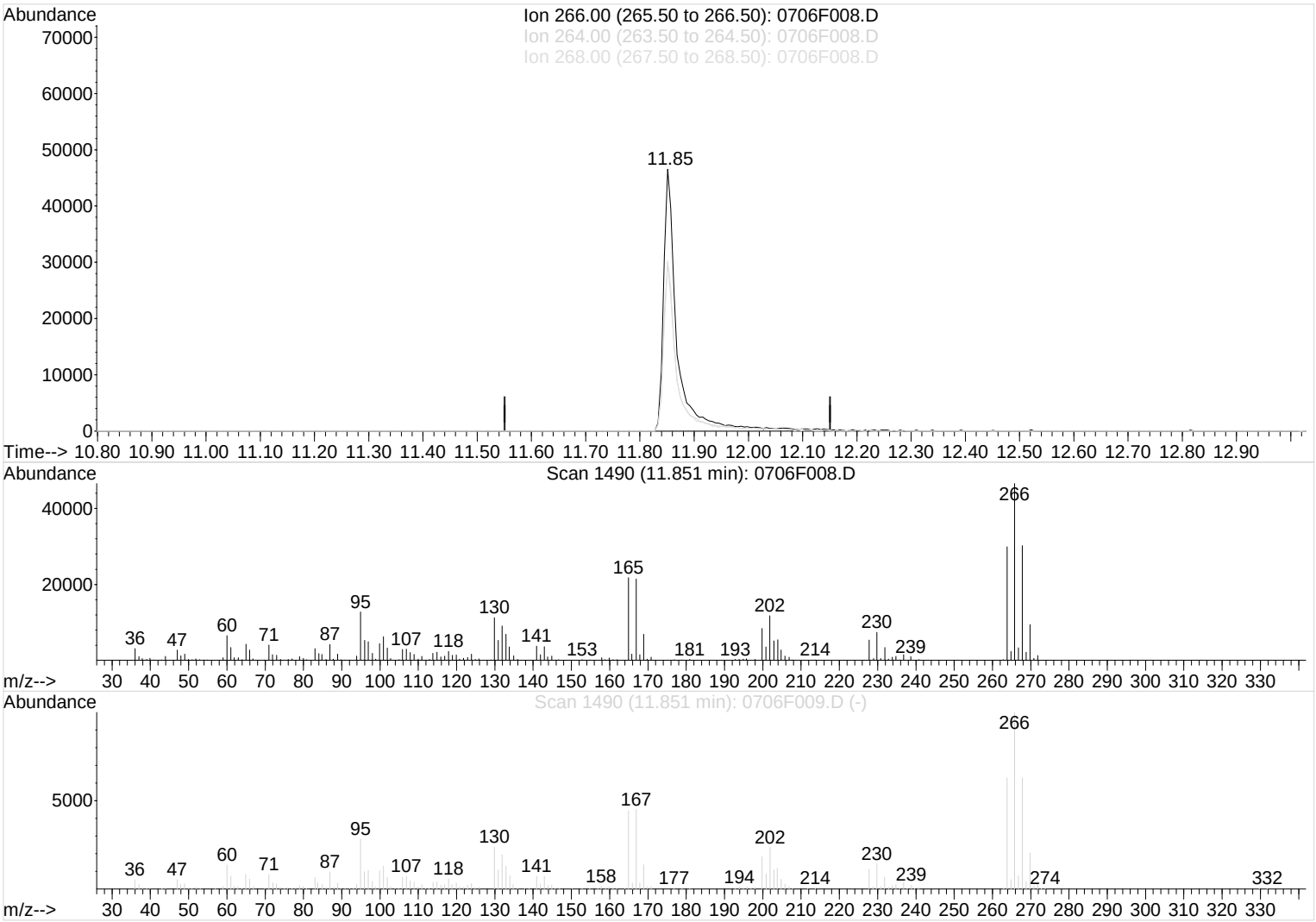
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:19 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Multiple Level Calibration



TIC: 0706F008.D

(63) Pentachlorophenol (TC)

11.85min 2137.81ng/ml

response 79563

Ion	Exp%	Act%
266.00	100	100
264.00	62.90	64.27
268.00	62.70	64.92
0.00	0.00	0.00

Manual Integration:

Before

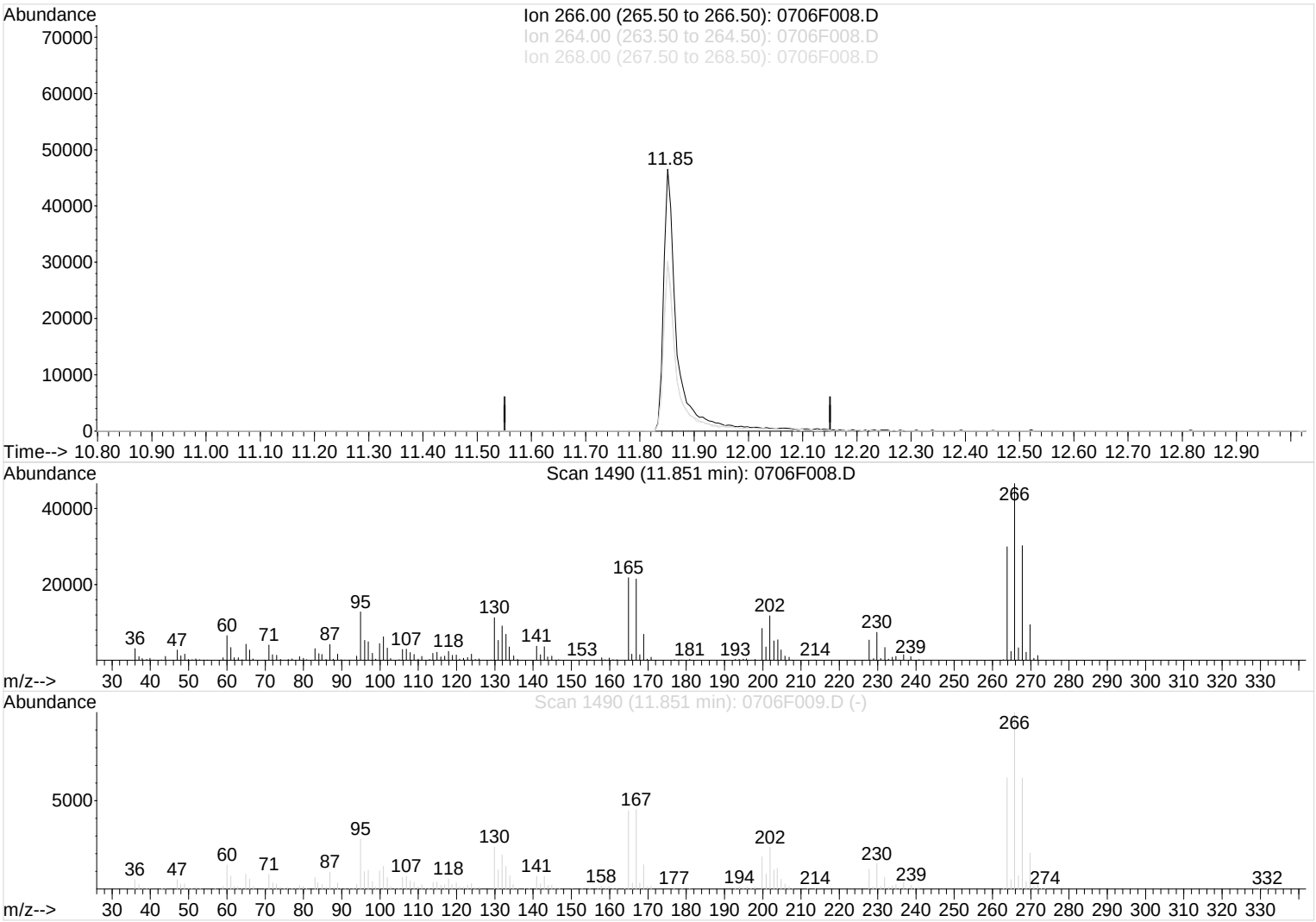
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:20 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Multiple Level Calibration



TIC: 0706F008.D

(63) Pentachlorophenol (TC)

11.85min 2185.29ng/ml m

response 82377

Ion	Exp%	Act%
266.00	100	100
264.00	62.90	64.27
268.00	62.70	64.92
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

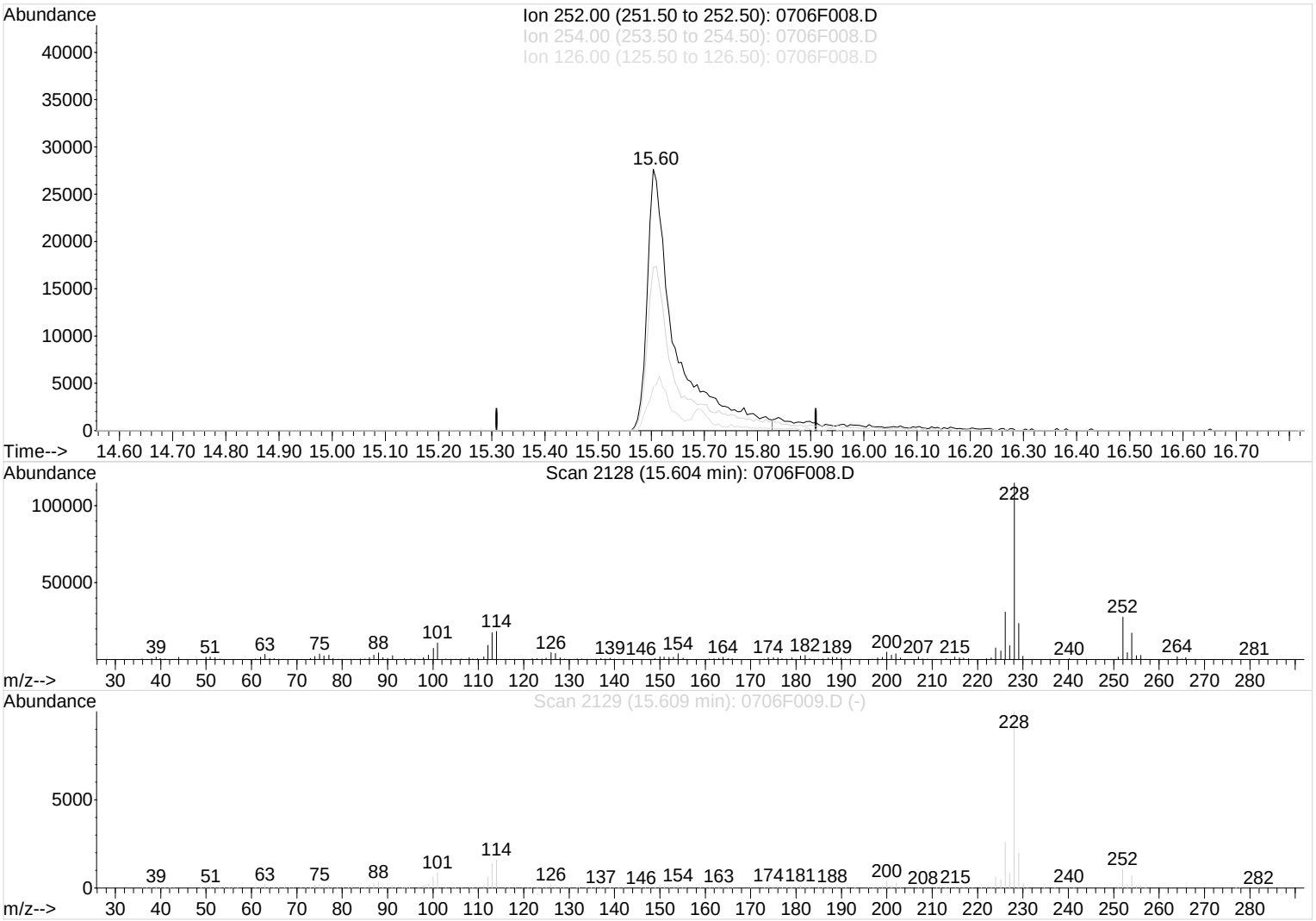
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:20 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Multiple Level Calibration



TIC: 0706F008.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 3103.29ng/ml

response 101502

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	62.28
126.00	19.10	16.51
0.00	0.00	0.00

Manual Integration:

Before

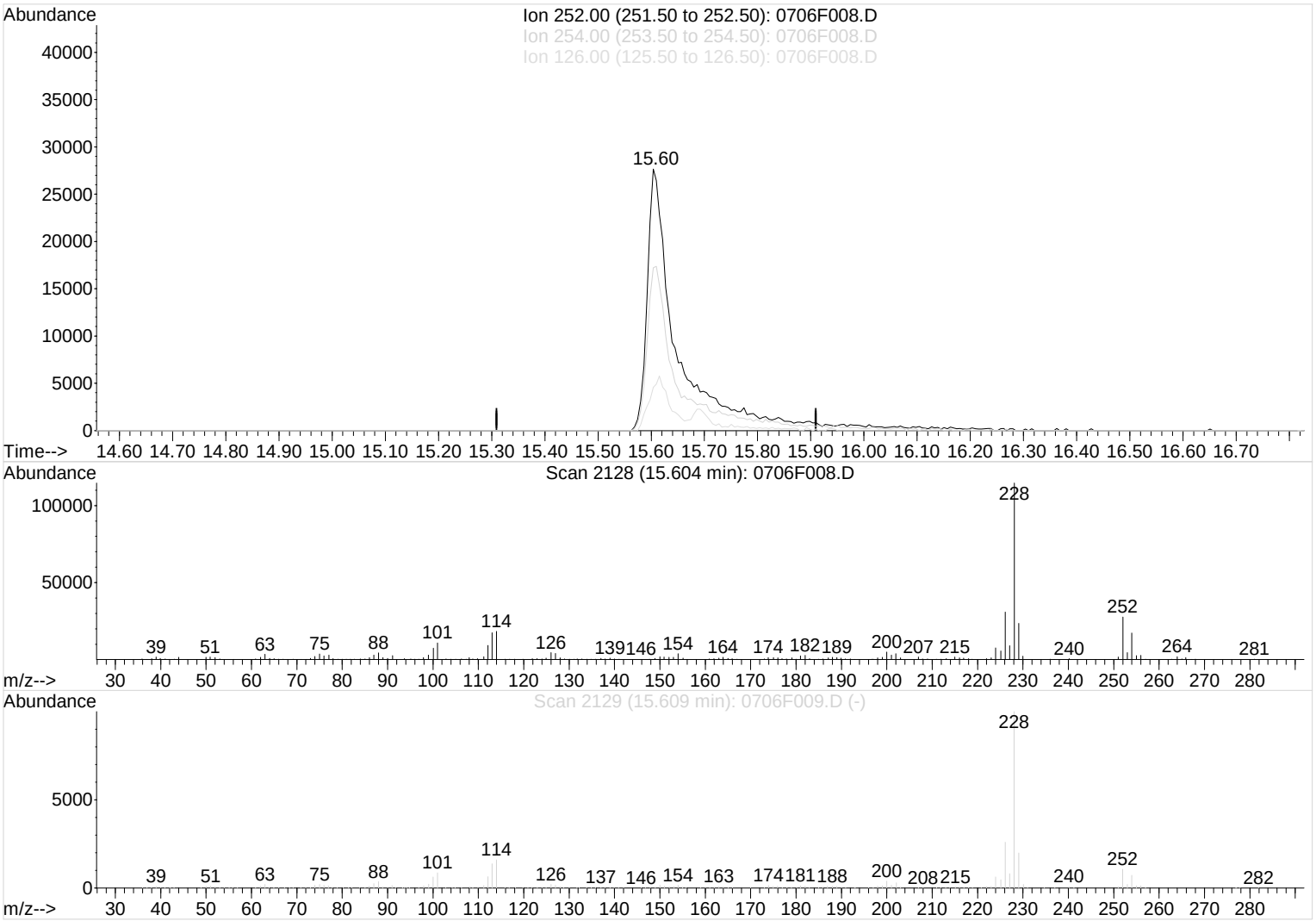
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F008.D Vial: 7
Acq On : 6 Jul 2023 2:10 pm Operator: CSD
Sample : SVO_LL ICAL 2.0ppm SVM70-29H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 14:20 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:31:03 2023
Response via : Multiple Level Calibration



TIC: 0706F008.D

(73) 3,3'-Dichlorobenzidine (T)

15.60min 3454.18ng/ml m

response 112979

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	62.28
126.00	19.10	16.51
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/11/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:02:33 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	139698	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.36	136	534166	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.79	164	283998	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	409028	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	307468	1000.00	ng/ml	-0.01
77) Perylene-d12	18.76	264	299513	1000.00	ng/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	521001	3000.00	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 80.00%			
6) Phenol-d6	4.72	99	606816	3152.11	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 84.06%			
19) Nitrobenzene-d5	5.57	82	531382	3012.44	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 120.50%			
39) 2-Fluorobiphenyl	8.31	172	1090667	3010.96	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 120.44%			
60) 2,4,6-Tribromophenol	11.14	330	121946	3145.65	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 83.88%			
71) Terphenyl-d14	14.01	244	837584	2985.60	ng/ml	-0.01
Spiked Amount 2500.000	Range 54 - 158		Recovery = 119.42%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.15	42	269696	2918.12	ng/ml	91
3) Pyridine	3.17	79	646064	3106.22	ng/ml	99
5) Bis(2-chloroethyl) Ether	4.83	93	553791	2633.96	ng/ml	97
7) Phenol	4.73	94	663043	3133.32	ng/ml	97
8) Aniline	4.80	93	594621	2836.10	ng/ml	99
9) 2-Chlorophenol	4.89	128	546673	3041.17	ng/ml	96
10) 1,3-Dichlorobenzene	5.03	146	605556	2931.21	ng/ml	99
11) 1,4-Dichlorobenzene	5.09	146	621759	2929.65	ng/ml	98
12) 1,2-Dichlorobenzene	5.22	146	585087	2952.30	ng/ml	99
13) Benzyl Alcohol	5.18	108	340056	3170.64	ng/ml	95
14) 2,2'-oxybis(1-chloropropan	5.29	45	675556	2830.31	ng/ml	95
15) 2-Methylphenol	5.26	107	422601	3121.25	ng/ml	97
16) Hexachloroethane	5.53	117	239337	2942.24	ng/ml	95
17) N-Nitrosodi-n-propylamine	5.42	70	368859	3011.55	ng/ml	95
18) 4-Methylphenol	5.39	107	564616	3220.31	ng/ml	99
20) Nitrobenzene	5.60	77	546694	2994.22	ng/ml	94
22) Isophorone	5.83	82	926695	3062.00	ng/ml	98
23) 2-Nitrophenol	5.92	139	333266m	3411.10	ng/ml	
24) 2,4-Dimethylphenol	5.93	122	455077	2988.01	ng/ml	96
25) Bis(2-chloroethoxy)methane	6.05	93	617109	2984.93	ng/ml	99
26) 2,4-Dichlorophenol	6.17	162	405359	3653.43	ng/ml	96
27) Benzoic Acid	5.98	122	148908m	5050.81	ng/ml	
28) 1,2,4-Trichlorobenzene	6.28	180	468164	2965.22	ng/ml	99
29) Naphthalene	6.39	128	1578778	2934.58	ng/ml	100
30) 4-Chloroaniline	6.47	127	254547	2397.65	ng/ml	99
31) Hexachlorobutadiene	6.52	225	254472	2920.48	ng/ml	99
32) 4-Chloro-3-methylphenol	7.16	107	401410	3596.78	ng/ml	96
33) 2-Methylnaphthalene	7.48	141	911907	3071.83	ng/ml	98
34) 1-Methylnaphthalene	7.68	141	926644	3052.44	ng/ml	99
36) Hexachlorocyclopentadiene	7.76	237	238093	3684.79	ng/ml	99
37) 2,4,6-Trichlorophenol	8.07	196	265295	3496.65	ng/ml	99
38) 2,4,5-Trichlorophenol	8.15	196	277896m	3546.75	ng/ml	
40) 2-Chloronaphthalene	8.60	162	904459	3137.20	ng/ml	98
41) 2-Nitroaniline	8.89	65	256819	3677.82	ng/ml	90
42) Acenaphthylene	9.52	152	1421926	3089.58	ng/ml	99
43) Dimethyl Phthalate	9.32	163	981432	3157.77	ng/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:02:33 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	2,6-Dinitrotoluene	9.44	165	206720	3365.64	ng/ml	87
45)	Acenaphthene	9.86	154	868134	2936.52	ng/ml	99
46)	3-Nitroaniline	9.77	138	69557	1562.36	ng/ml	95
47)	2,4-Dinitrophenol	9.97	184	50359	5522.45	ng/ml	82
48)	Dibenzofuran	10.18	168	1351655	3228.57	ng/ml	99
49)	4-Nitrophenol	10.09	109	75756	3854.83	ng/ml	86
50)	2,4-Dinitrotoluene	10.20	165	260466	3742.37	ng/ml	88
51)	2,3,4,6-Tetrachlorophenol	10.40	232	202989	3509.73	ng/ml	95
52)	Fluorene	10.76	166	998608	3185.51	ng/ml	99
53)	4-Chlorophenyl Phenyl Ethe	10.80	204	467985	3217.99	ng/ml	96
54)	Diethyl Phthalate	10.65	149	881808	2962.71	ng/ml	98
55)	4-Nitroaniline	10.85	138	138620m	2727.71	ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.87	198	94253	5269.74	ng/ml	90
57)	Diphenylamine	10.99	169	685149	3572.18	ng/ml	99
58)	Azobenzene	11.05	77	1020460	3239.00	ng/ml	91
61)	4-Bromophenyl Phenyl Ether	11.53	248	255287	2958.05	ng/ml	100
62)	Hexachlorobenzene	11.56	284	294554	2651.28	ng/ml	99
63)	Pentachlorophenol	11.85	266	131696	3540.33	ng/ml	99
64)	Phenanthrene	12.14	178	1315855	3069.55	ng/ml	100
65)	Anthracene	12.20	178	1281478	2898.74	ng/ml	100
66)	Carbazole	12.43	167	986550	2801.95	ng/ml	98
67)	Di-n-butyl Phthalate	12.86	149	1154457	3447.61	ng/ml	99
68)	Fluoranthene	13.54	202	1087971	3060.08	ng/ml	99
70)	Pyrene	13.82	202	1040305	3219.50	ng/ml	100
72)	Butyl Benzyl Phthalate	14.68	149	550849	3358.33	ng/ml	92
73)	3,3'-Dichlorobenzidine	15.61	252	142161m	1742.22	ng/ml	
74)	Benz(a)anthracene	15.62	228	1150594	3095.06	ng/ml	100
75)	Chrysene	15.70	228	1081321	2910.98	ng/ml	100
76)	Bis(2-ethylhexyl) Phthalat	15.68	149	854470	3422.98	ng/ml	98
78)	Di-n-octyl Phthalate	17.36	149	1144125	3157.41	ng/ml	95
79)	Benzo(b)fluoranthene	18.13	252	1069630	3010.34	ng/ml	99
80)	Benzo(k)fluoranthene	18.18	252	1166204	3033.20	ng/ml	99
81)	Benzo(a)pyrene	18.67	252	995160	2955.41	ng/ml	98
82)	Indeno(1,2,3-cd)pyrene	20.56	276	667148	3151.88	ng/ml	98
83)	Dibenz(a,h)anthracene	20.62	278	865828	3073.35	ng/ml	98
84)	Benzo(g,h,i)perylene	21.07	276	736831	3040.33	ng/ml	97

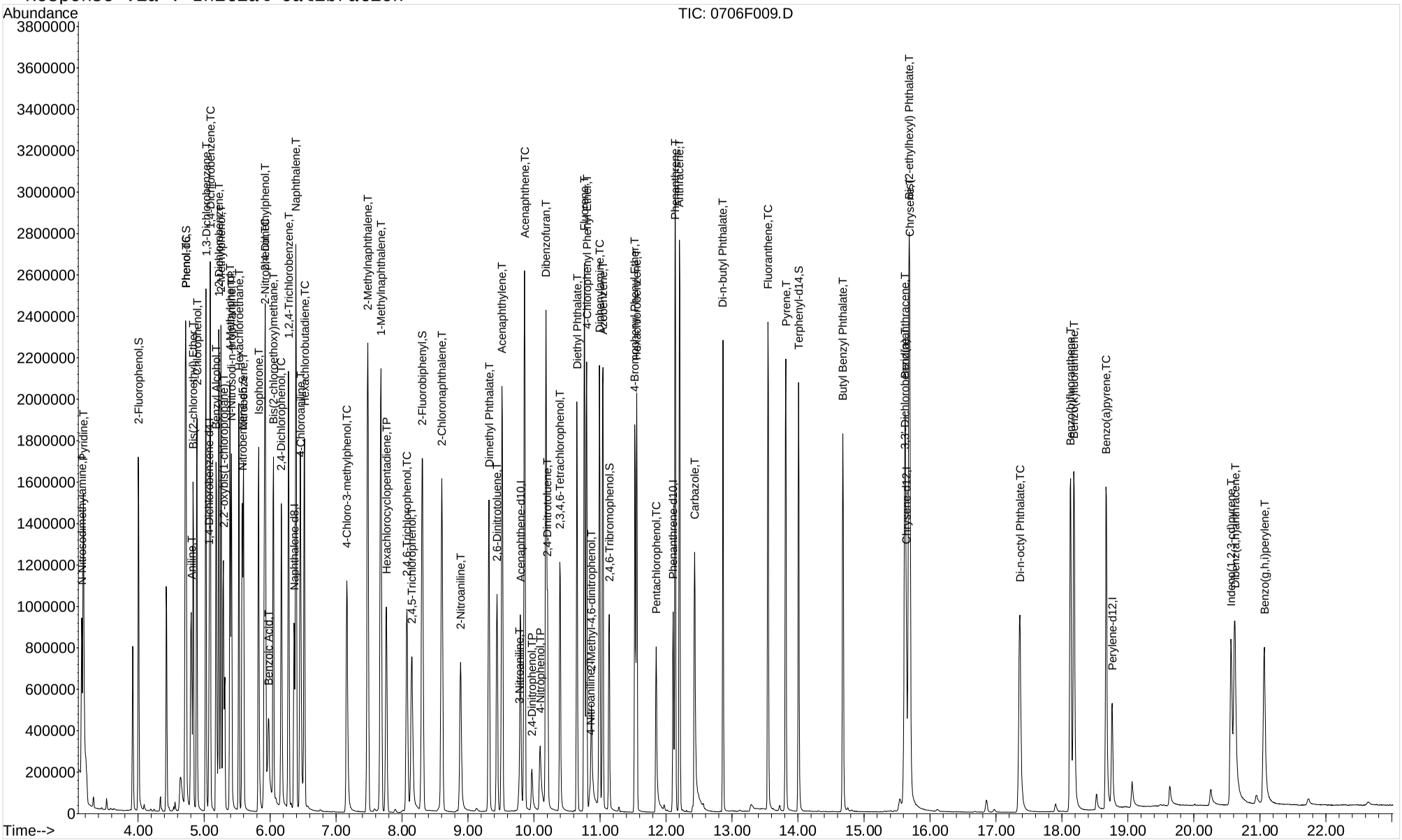
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:06 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

07/14/23
07/18/23
1st
2nd



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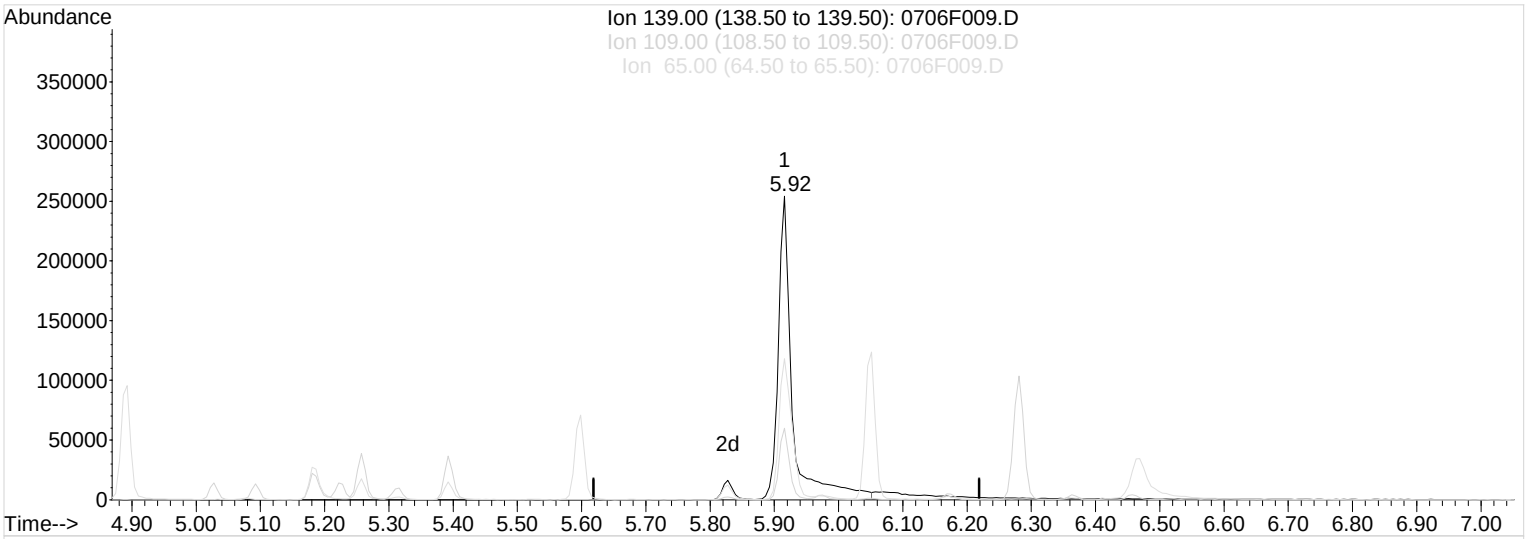
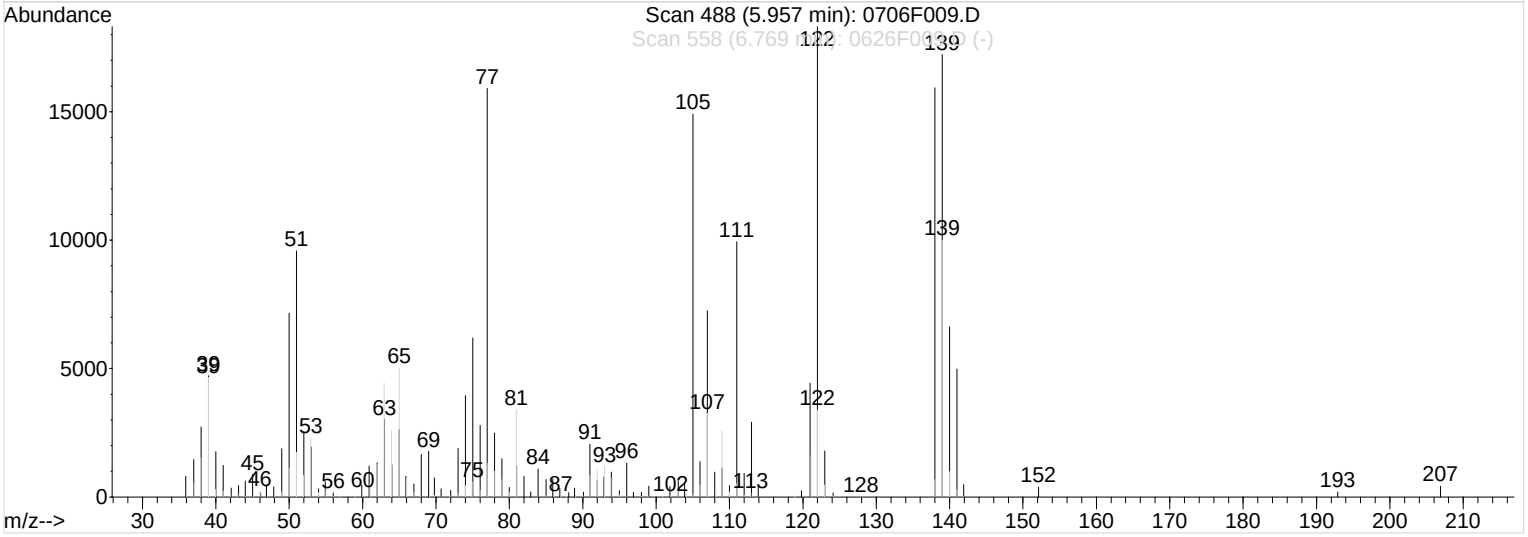
Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:02 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Multiple Level Calibration





TIC: 0706F009.D

(23) 2-Nitrophenol (TC)

5.92min 3968.92ng/ml

response 389564

Ion	Exp%	Act%
139.00	100	100
109.00	26.60	23.55
65.00	52.40	46.38
0.00	0.00	0.00

Manual Integration:

Before

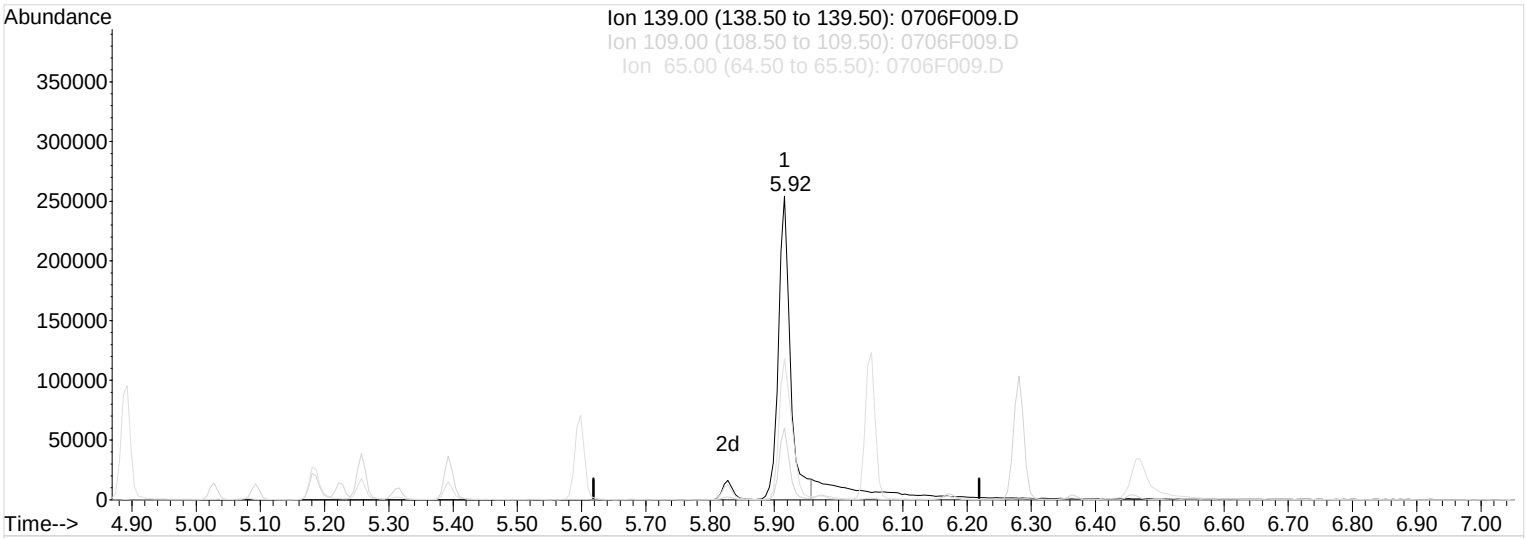
07/11/23

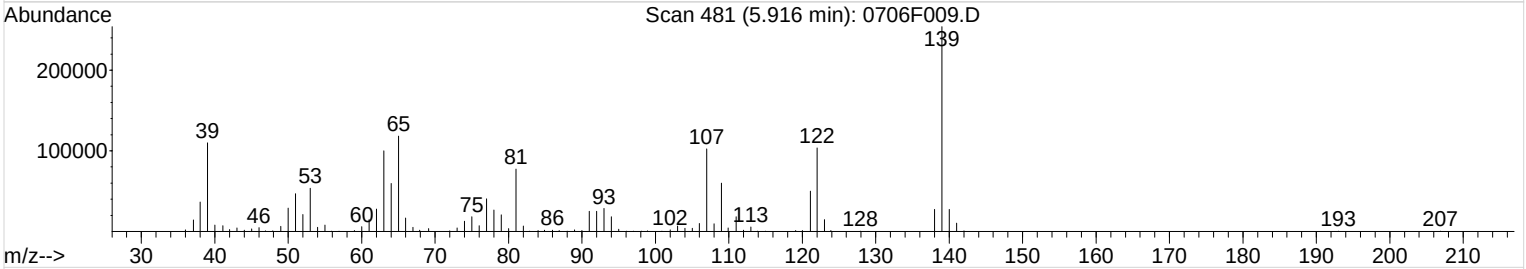
Quantitation Report (Qedit)

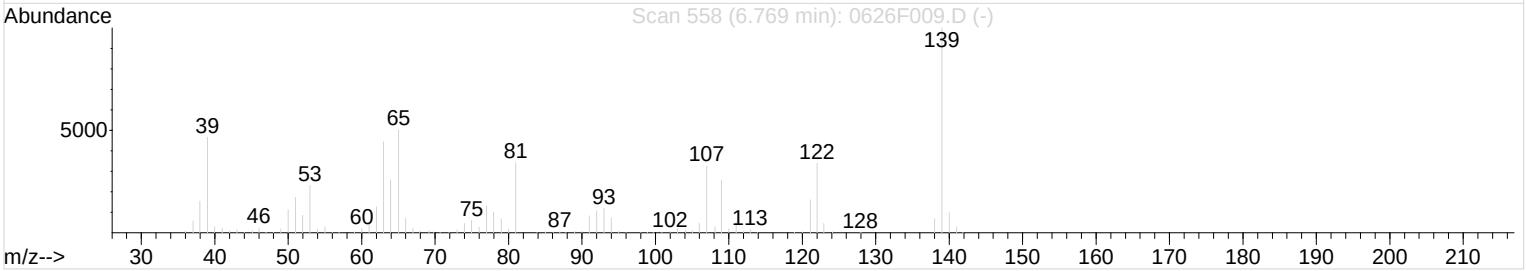
1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:03 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Multiple Level Calibration







TIC: 0706F009.D

(23) 2-Nitrophenol (TC)

5.92min 3411.10ng/ml m

response 333266

Ion	Exp%	Act%
139.00	100	100
109.00	26.60	23.52
65.00	52.40	46.44
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

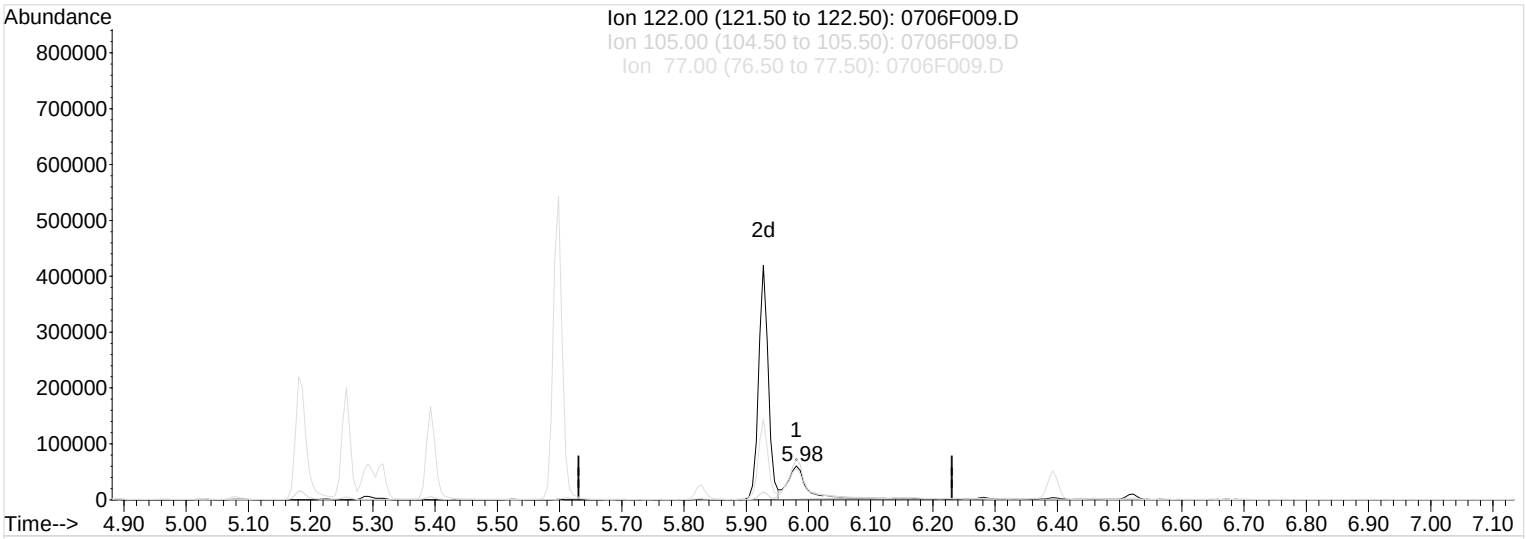
07/11/23

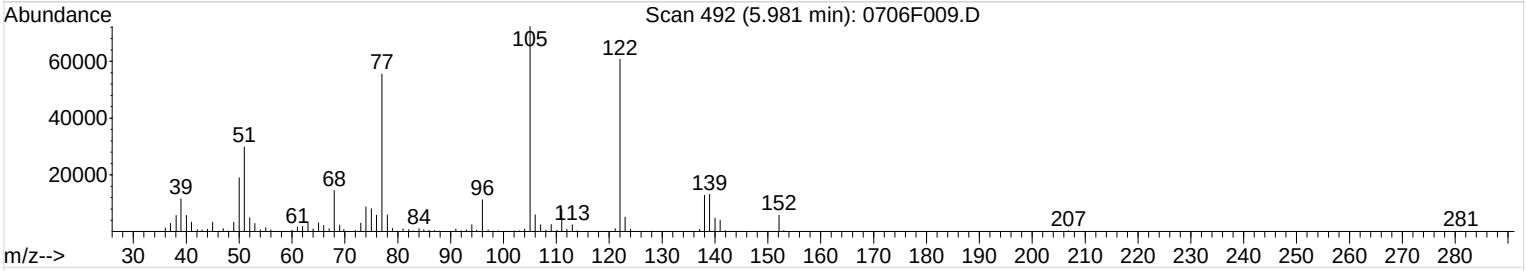
Quantitation Report (Qedit)

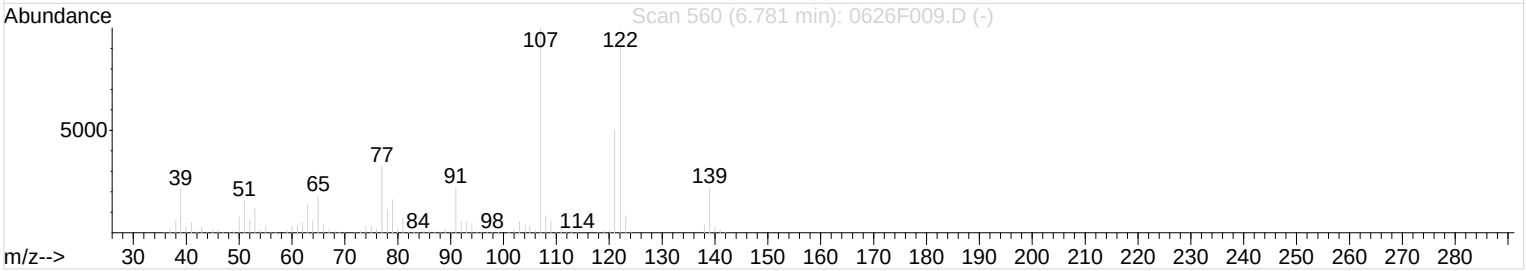
1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:03 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Multiple Level Calibration







TIC: 0706F009.D

(27) Benzoic Acid (T)

5.98min 4665.36ng/ml

response 128420

Ion	Exp%	Act%
122.00	100	100
105.00	121.90	117.75
77.00	95.20	90.12
0.00	0.00	0.00

Manual Integration:

Before

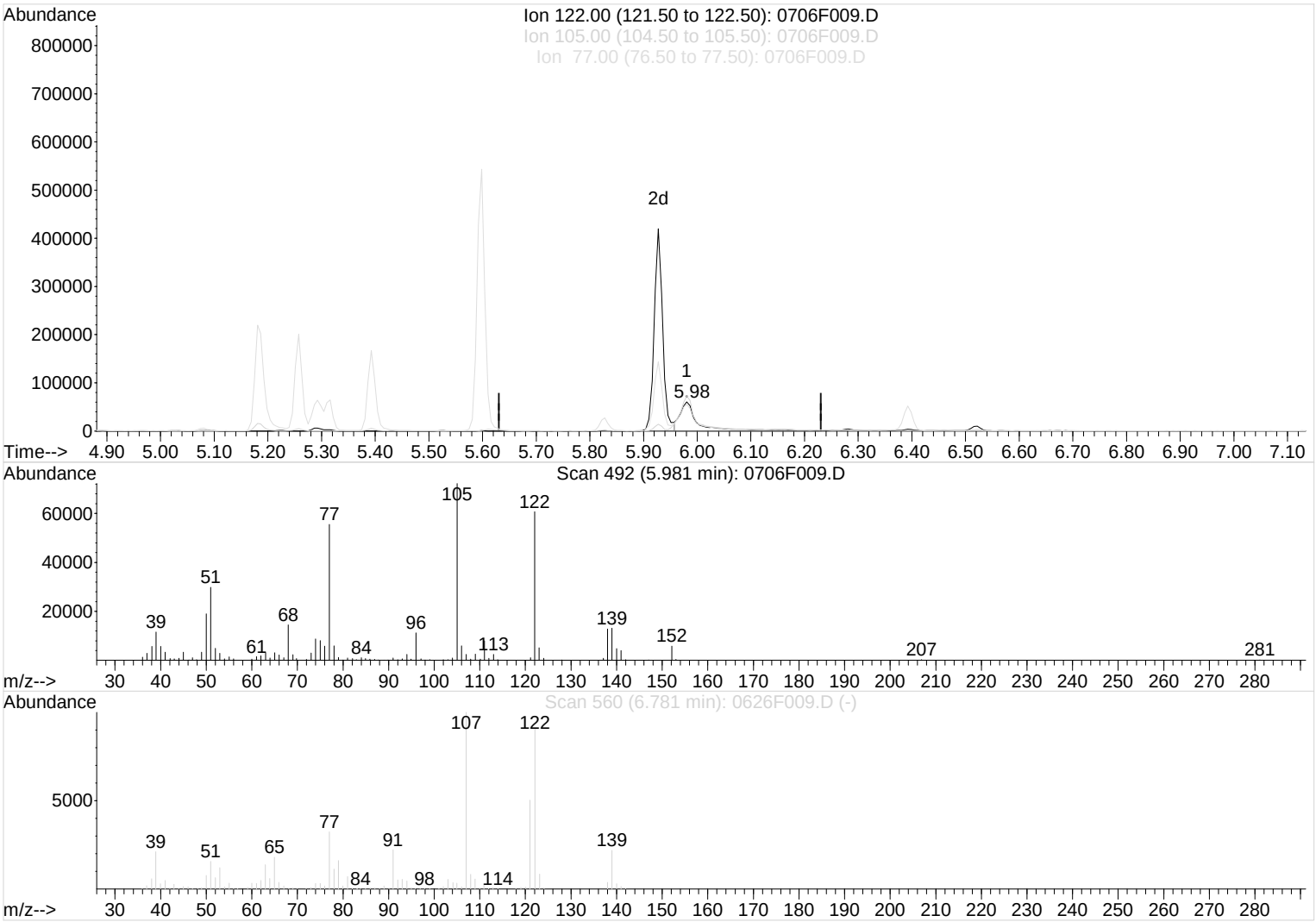
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:04 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Multiple Level Calibration



TIC: 0706F009.D

(27) Benzoic Acid (T)

5.98min 5050.81ng/ml m

response 148908

Ion	Exp%	Act%
122.00	100	100
105.00	121.90	118.93
77.00	95.20	91.35
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

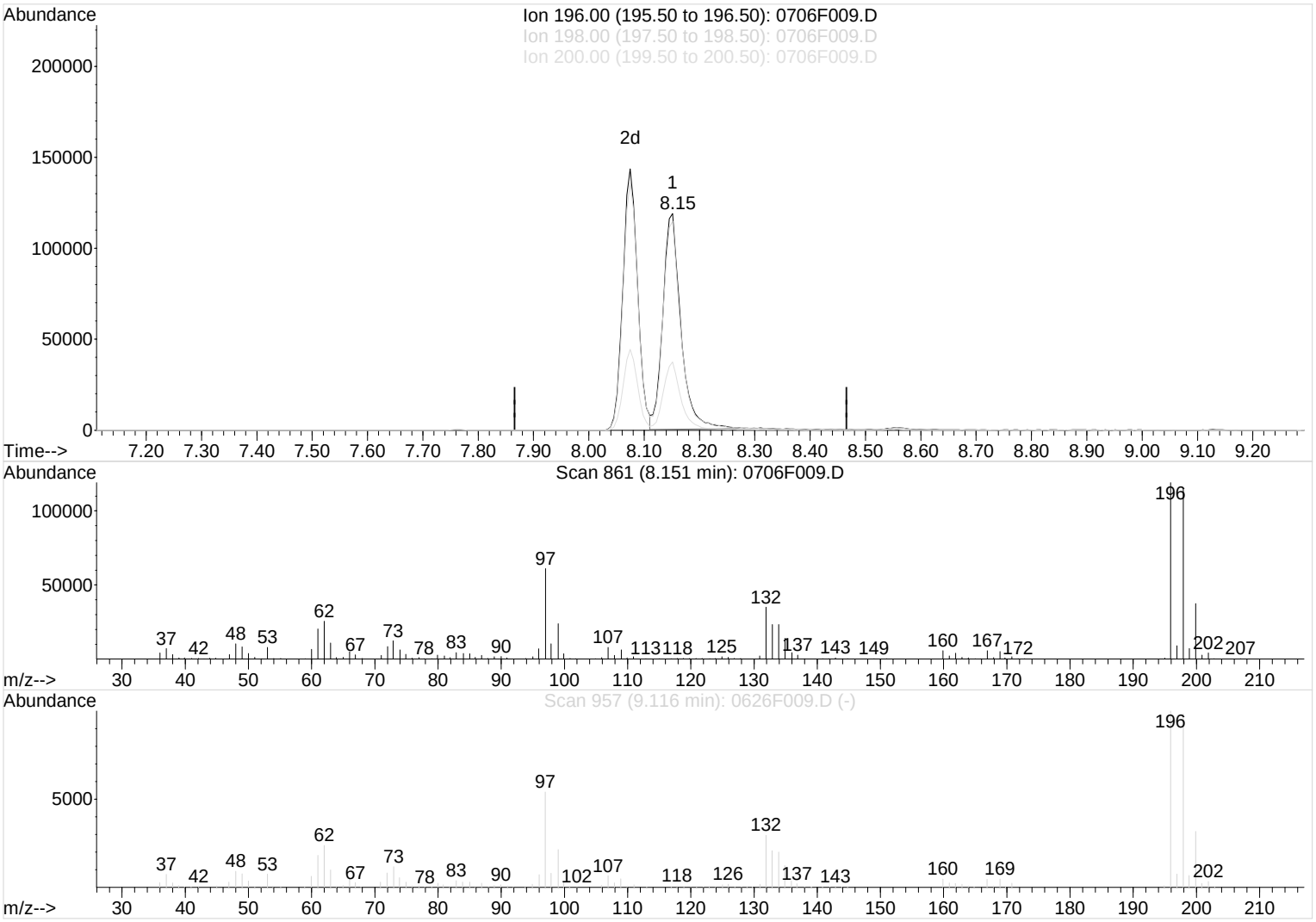
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:04 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Multiple Level Calibration



TIC: 0706F009.D

(38) 2,4,5-Trichlorophenol (T)

8.15min 3424.57ng/ml

response 267231

Ion	Exp%	Act%
196.00	100	100
198.00	93.00	96.36
200.00	30.50	31.40
0.00	0.00	0.00

Manual Integration:

Before

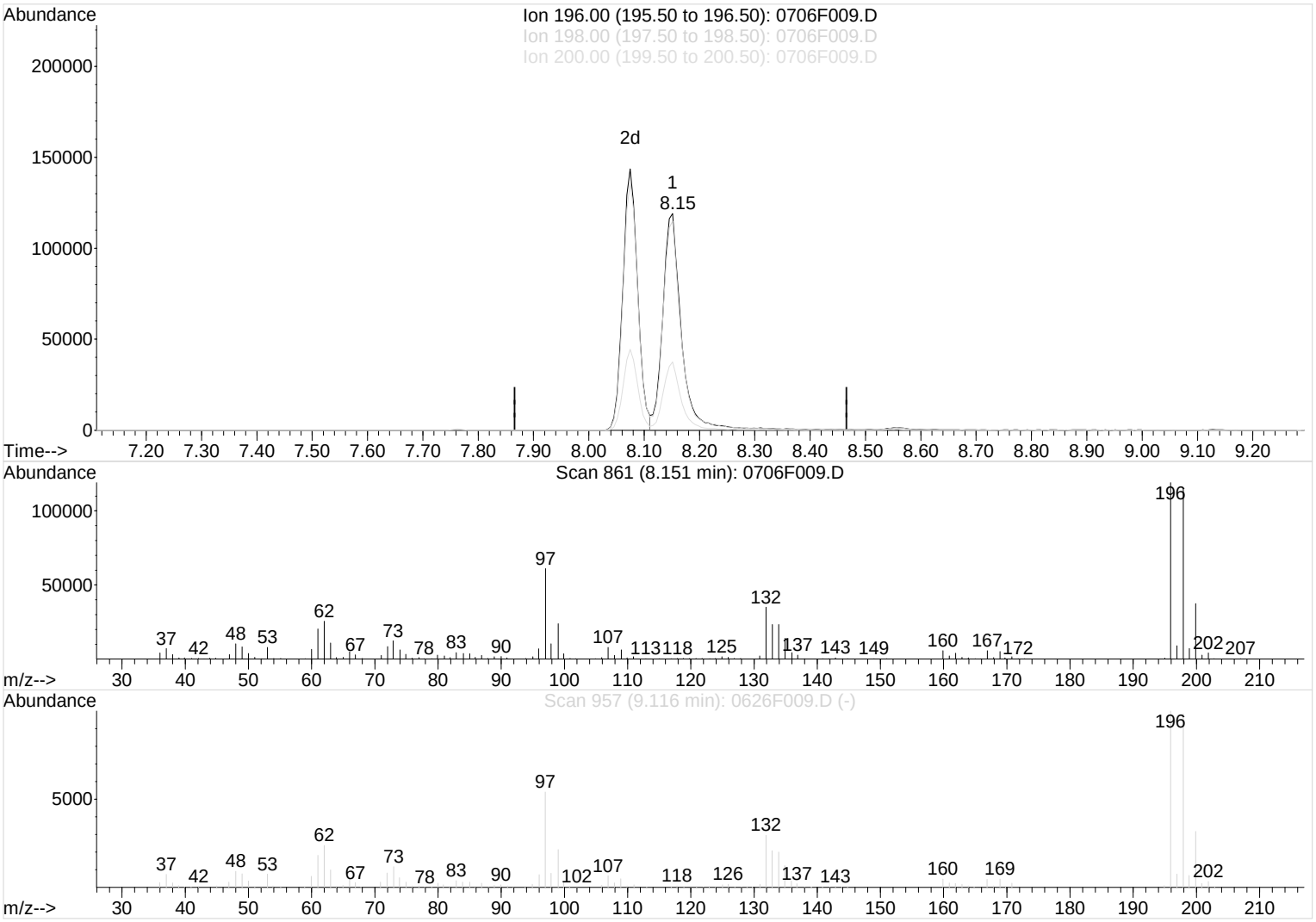
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:04 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Multiple Level Calibration



TIC: 0706F009.D

(38) 2,4,5-Trichlorophenol (T)

8.15min 3546.75ng/ml m

response 277896

Ion	Exp%	Act%
196.00	100	100
198.00	93.00	96.46
200.00	30.50	31.42
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

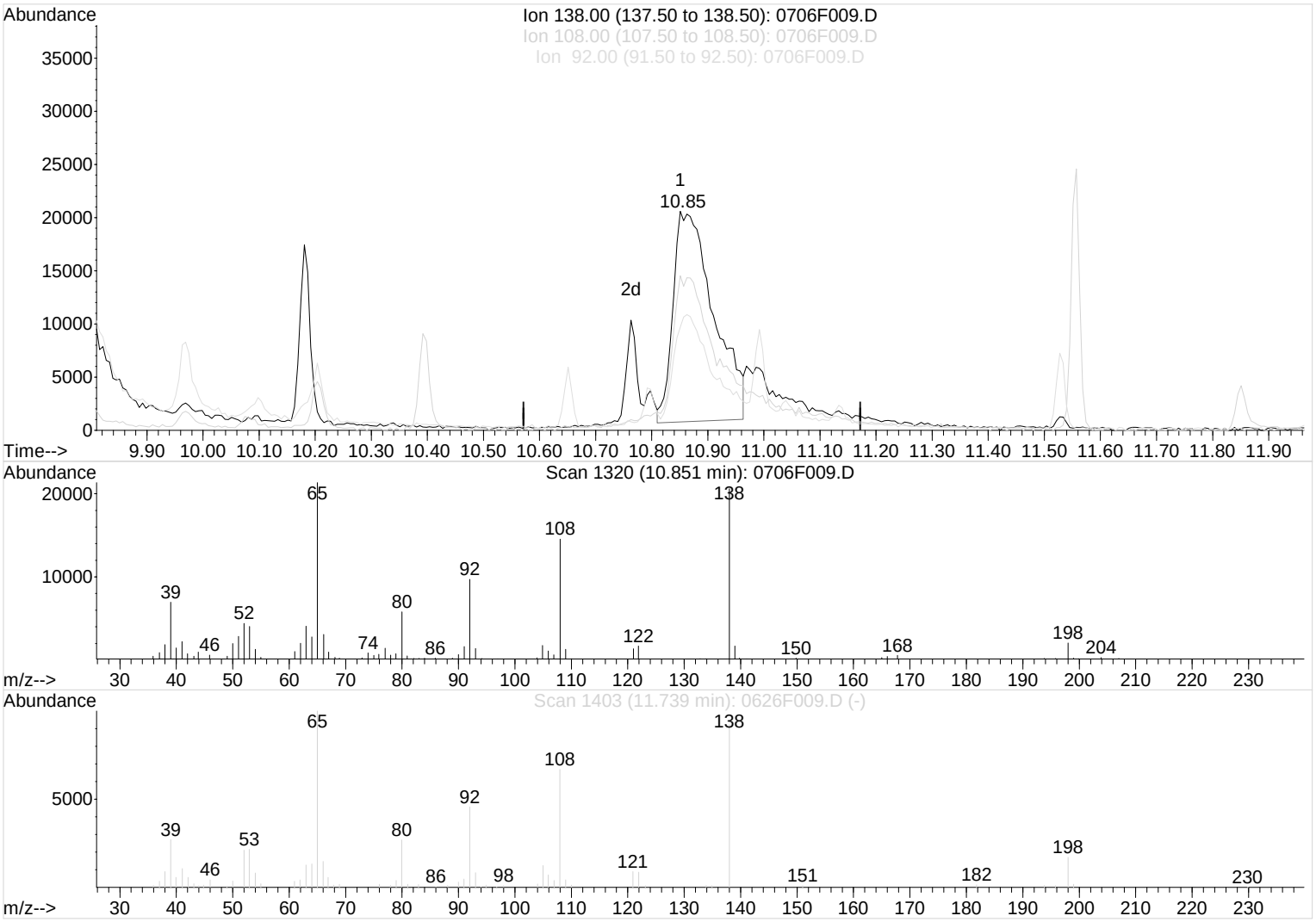
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:04 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Multiple Level Calibration



TIC: 0706F009.D

(55) 4-Nitroaniline (T)

10.85min 1849.59ng/ml

response 99124

Ion	Exp%	Act%
138.00	100	100
108.00	83.30	68.63
92.00	48.30	43.44
0.00	0.00	0.00

Manual Integration:

Before

07/11/23

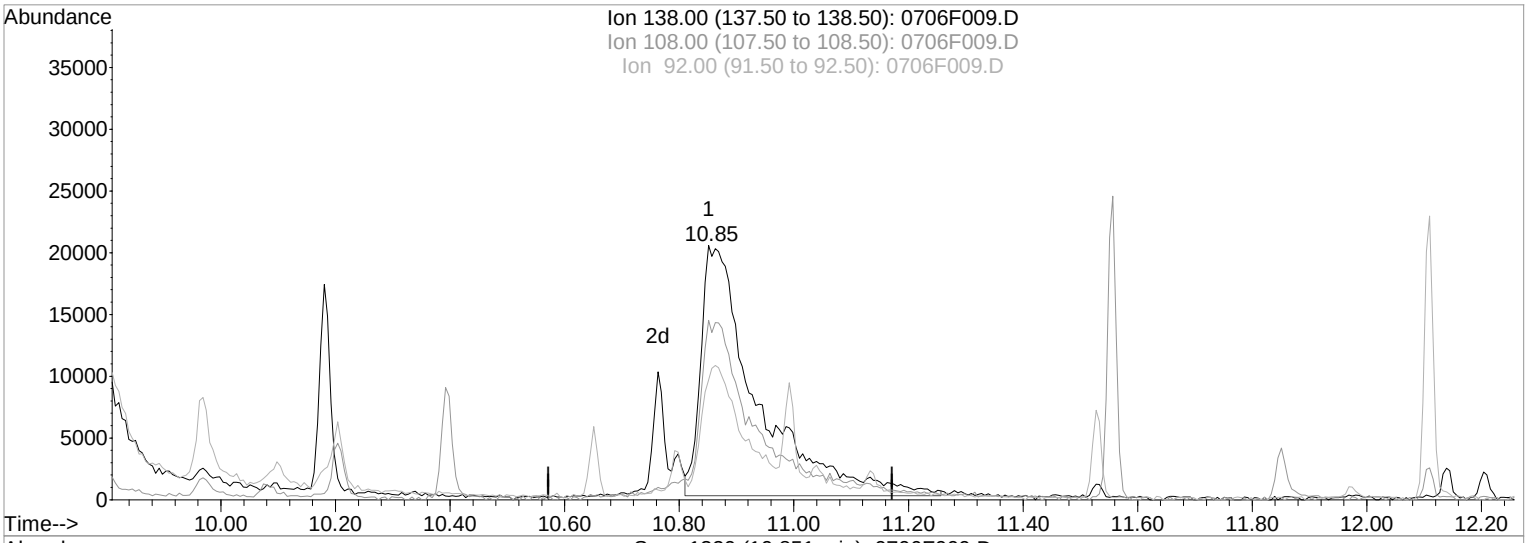
Quantitation Report (Qedit)

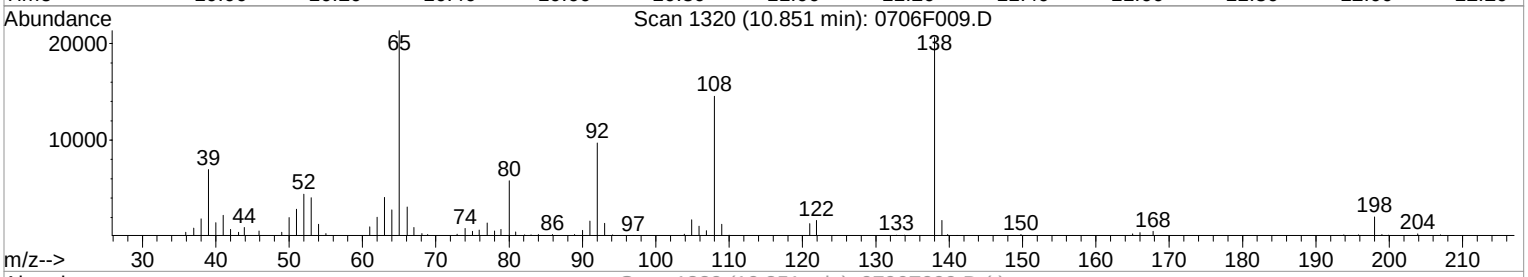
1st 07/18/23
2nd 07/18/23

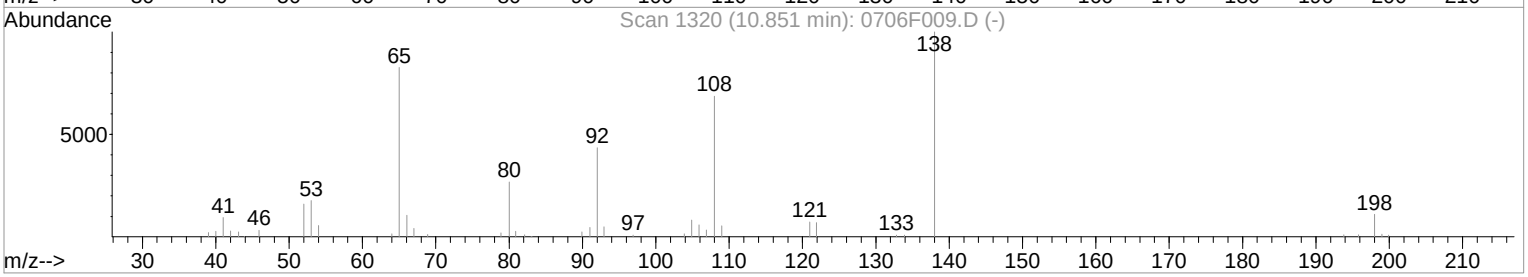
Data File : I:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:06 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Multiple Level Calibration

Printed for CD by JJ







TIC: 0706F009.D

(55) 4-Nitroaniline (T)

10.85min 2727.71ng/ml m

response 138620

Ion	Exp%	Act%
138.00	100	100
108.00	83.30	70.53
92.00	48.30	47.19
0.00	0.00	0.00

Manual Integration:

After

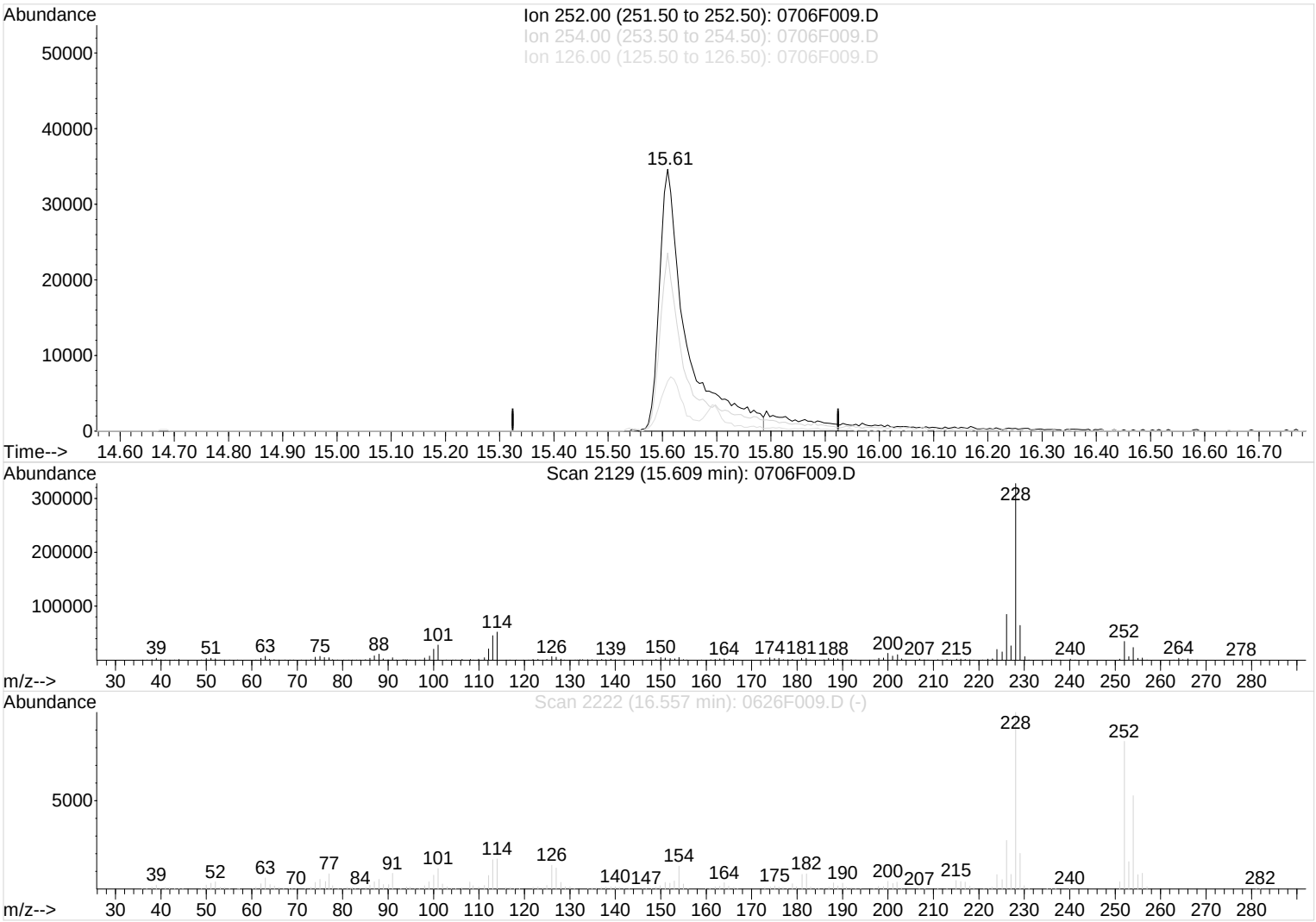
Baseline correction

07/18/23

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:05 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Multiple Level Calibration



TIC: 0706F009.D

(73) 3,3'-Dichlorobenzidine (T)

15.61min 1487.89ng/ml

response 121408

Ion	Exp%	Act%
252.00	100	100
254.00	64.50	67.40
126.00	16.10	18.47
0.00	0.00	0.00

Manual Integration:

Before

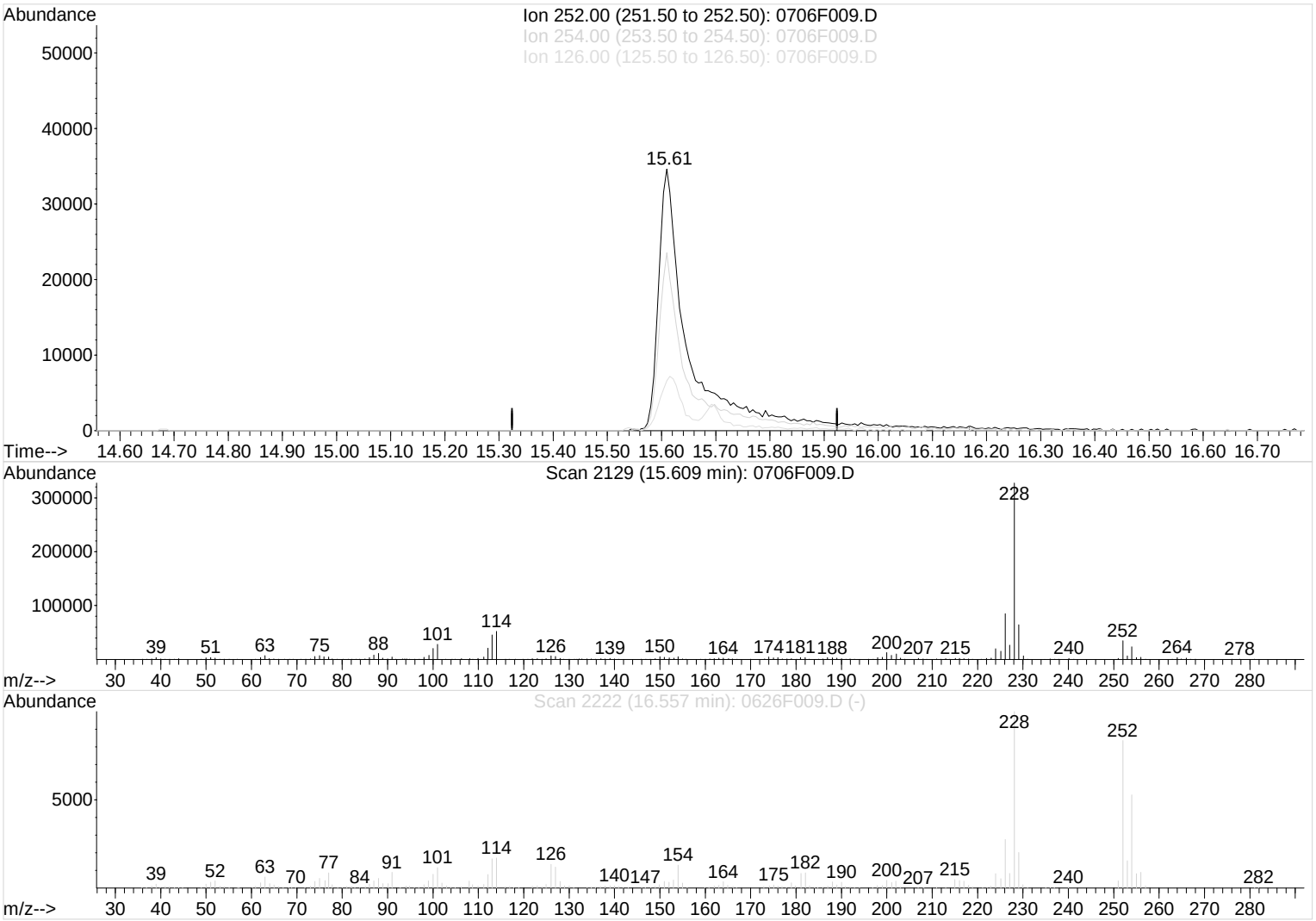
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:06 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Thu Jun 29 12:56:06 2023
Response via : Multiple Level Calibration



TIC: 0706F009.D

(73) 3,3'-Dichlorobenzidine (T)

15.61min 1742.22ng/ml m

response 142161

Ion	Exp%	Act%
252.00	100	100
254.00	64.50	67.91
126.00	16.10	19.07
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

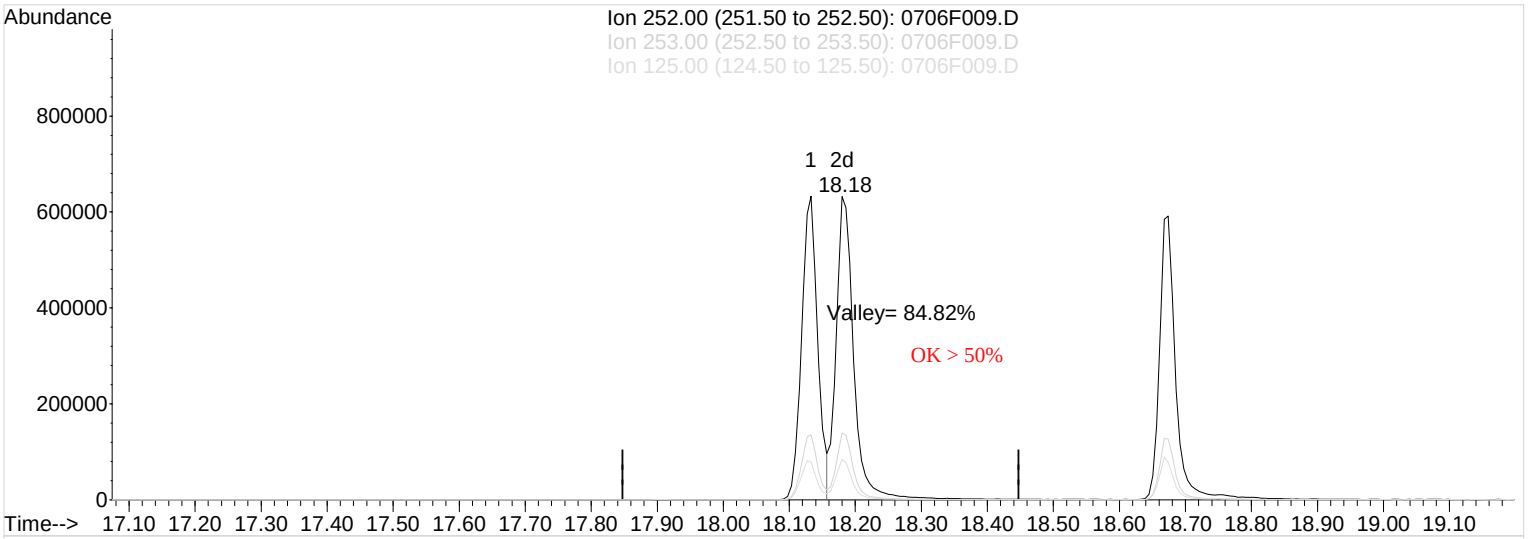
07/11/23

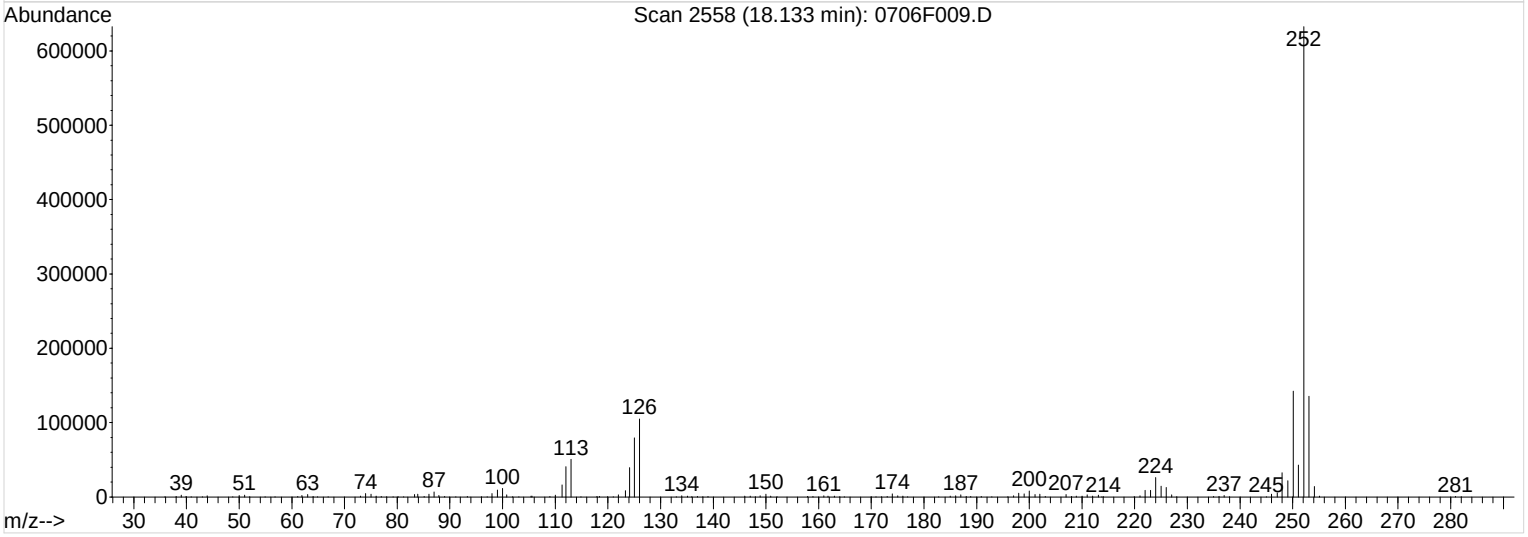
Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F009.D Vial: 8
Acq On : 6 Jul 2023 2:38 pm Operator: CSD
Sample : SVO_LL ICAL 3.0ppm SVM70-29I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:06 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Multiple Level Calibration





TIC: 0706F009.D

(79) Benzo(b)fluoranthene (T)

18.13min 3010.34ng/ml

response 1069630

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.40
125.00	13.40	12.52
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:09:43 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	135752	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.36	136	533003	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.79	164	279176	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	386340	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	331708	1000.00	ng/ml	0.00
77) Perylene-d12	18.76	264	300882	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	878856	5205.10	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 138.80%#			
6) Phenol-d6	4.72	99	1012198	5371.78	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 143.25%#			
19) Nitrobenzene-d5	5.58	82	903693	5274.79	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 210.99%#			
39) 2-Fluorobiphenyl	8.31	172	1808797	5081.29	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 203.25%#			
60) 2,4,6-Tribromophenol	11.14	330	208774	4978.26	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 132.75%			
71) Terphenyl-d14	14.01	244	1631447	5345.03	ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 213.80%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.15	42	463381	5177.06	ng/ml	94
3) Pyridine	3.17	79	1029071	5052.52	ng/ml	97
5) Bis(2-chloroethyl) Ether	4.84	93	951304	4700.90	ng/ml	97
7) Phenol	4.73	94	1095289	5289.34	ng/ml	99
8) Aniline	4.80	93	882756	4402.29	ng/ml	99
9) 2-Chlorophenol	4.89	128	914064	5222.18	ng/ml	99
10) 1,3-Dichlorobenzene	5.03	146	996152	4964.53	ng/ml	100
11) 1,4-Dichlorobenzene	5.09	146	1021366	4951.39	ng/ml	100
12) 1,2-Dichlorobenzene	5.22	146	954438	4952.62	ng/ml	99
13) Benzyl Alcohol	5.19	108	580344	5240.60	ng/ml	99
14) 2,2'-oxybis(1-chloropropan	5.29	45	1123778	4869.19	ng/ml	100
15) 2-Methylphenol	5.26	107	706732	5344.60	ng/ml	99
16) Hexachloroethane	5.53	117	400590	5074.17	ng/ml	99
17) N-Nitrosodi-n-propylamine	5.42	70	620050	5219.35	ng/ml	98
18) 4-Methylphenol	5.39	107	945703	5242.72	ng/ml	100
20) Nitrobenzene	5.60	77	917602	5170.94	ng/ml	99
22) Isophorone	5.83	82	1560081	5166.97	ng/ml	99
23) 2-Nitrophenol	5.92	139	492868	4836.88	ng/ml	98
24) 2,4-Dimethylphenol	5.93	122	766823	5098.08	ng/ml	99
25) Bis(2-chloroethoxy)methane	6.05	93	1022472	4951.12	ng/ml	99
26) 2,4-Dichlorophenol	6.17	162	681156	6001.56	ng/ml	99
27) Benzoic Acid	6.00	122	331312m	8337.70	ng/ml	
28) 1,2,4-Trichlorobenzene	6.28	180	779205	4948.16	ng/ml	98
29) Naphthalene	6.39	128	2626121	4898.08	ng/ml	100
30) 4-Chloroaniline	6.47	127	264507	2615.82	ng/ml	97
31) Hexachlorobutadiene	6.52	225	419437	4831.13	ng/ml	100
32) 4-Chloro-3-methylphenol	7.16	107	684796	5439.85	ng/ml	100
33) 2-Methylnaphthalene	7.48	141	1527013	5137.44	ng/ml	99
34) 1-Methylnaphthalene	7.68	141	1528276	5033.15	ng/ml	100
36) Hexachlorocyclopentadiene	7.76	237	428327	5764.05	ng/ml	98
37) 2,4,6-Trichlorophenol	8.07	196	460116	5492.07	ng/ml	99
38) 2,4,5-Trichlorophenol	8.15	196	462061	5484.12	ng/ml	99
40) 2-Chloronaphthalene	8.60	162	1500667	5260.31	ng/ml	100
41) 2-Nitroaniline	8.89	65	422815	5356.36	ng/ml	96
42) Acenaphthylene	9.52	152	2359885	5218.54	ng/ml	99
43) Dimethyl Phthalate	9.32	163	1633426	5345.46	ng/ml	99

(#) = qualifier out of range (m) = manual integration

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:09:43 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

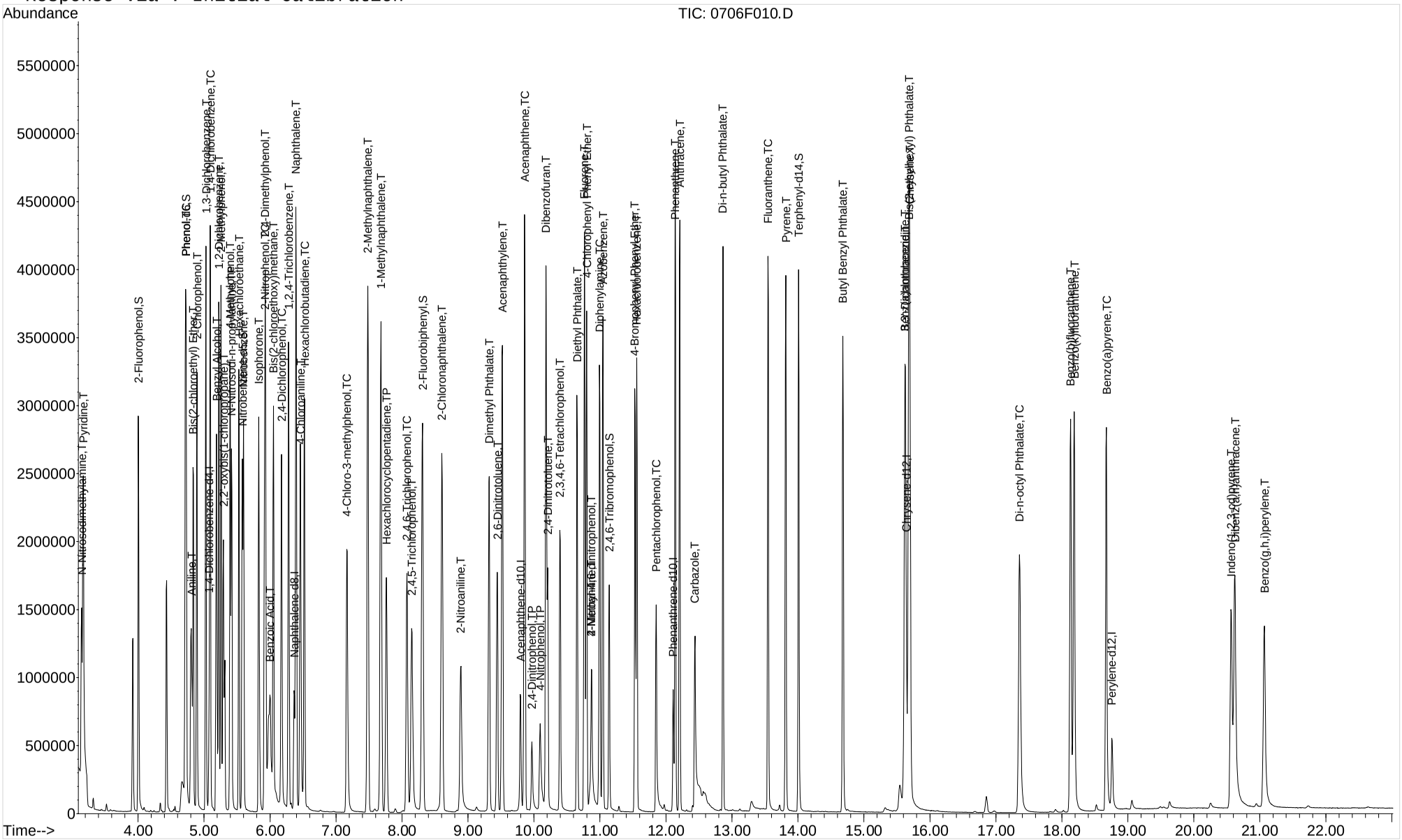
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	2,6-Dinitrotoluene	9.45	165	363407	5425.73	ng/ml	97
45)	Acenaphthene	9.86	154	1434418	4949.91	ng/ml	99
47)	2,4-Dinitrophenol	9.97	184	114131	9043.36	ng/ml	98
48)	Dibenzofuran	10.18	168	2207519	5327.39	ng/ml	100
49)	4-Nitrophenol	10.09	109	143614	6437.53	ng/ml	97
50)	2,4-Dinitrotoluene	10.21	165	440058	5906.20	ng/ml	97
51)	2,3,4,6-Tetrachlorophenol	10.40	232	351696	5521.02	ng/ml	99
52)	Fluorene	10.76	166	1653803	5347.01	ng/ml	98
53)	4-Chlorophenyl Phenyl Ethe	10.80	204	770475	5373.17	ng/ml	99
54)	Diethyl Phthalate	10.65	149	1438818	4984.75	ng/ml	99
55)	4-Nitroaniline	10.86	138	199817m	4540.23	ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.87	198	188846	8910.00	ng/ml	90
57)	Diphenylamine	10.99	169	1079094	5636.60	ng/ml	99
58)	Azobenzene	11.05	77	1679488	5407.92	ng/ml	99
61)	4-Bromophenyl Phenyl Ether	11.53	248	414707	4704.89	ng/ml	95
62)	Hexachlorobenzene	11.56	284	486800	4669.04	ng/ml	97
63)	Pentachlorophenol	11.85	266	243835	5950.96	ng/ml	99
64)	Phenanthrene	12.14	178	2091401	5170.19	ng/ml	100
65)	Anthracene	12.21	178	2028922	4880.55	ng/ml	99
66)	Carbazole	12.44	167	1601344m	4779.45	ng/ml	
67)	Di-n-butyl Phthalate	12.86	149	2132992	6104.64	ng/ml	100
68)	Fluoranthene	13.55	202	1895359	5544.50	ng/ml	99
70)	Pyrene	13.82	202	1890791	5295.11	ng/ml	99
72)	Butyl Benzyl Phthalate	14.68	149	1054976	5482.75	ng/ml	99
73)	3,3'-Dichlorobenzidine	15.62	252	189053m	2364.70	ng/ml	
74)	Benz(a)anthracene	15.62	228	2085402	5064.07	ng/ml	99
75)	Chrysene	15.70	228	1922944	4793.89	ng/ml	100
76)	Bis(2-ethylhexyl) Phthalat	15.68	149	1520958	5302.24	ng/ml	99
78)	Di-n-octyl Phthalate	17.36	149	2247684	5311.74	ng/ml	100
79)	Benzo(b)fluoranthene	18.13	252	1890023	5068.99	ng/ml	99
80)	Benzo(k)fluoranthene	18.19	252	2031581	5269.14	ng/ml	99
81)	Benzo(a)pyrene	18.67	252	1740250	5056.96	ng/ml	99
82)	Indeno(1,2,3-cd)pyrene	20.56	276	1207225	5281.00	ng/ml	98
83)	Dibenz(a,h)anthracene	20.62	278	1539040	5234.13	ng/ml	99
84)	Benzo(g,h,i)perylene	21.07	276	1250700	5131.85	ng/ml	98

(#) = qualifier out of range (m) = manual integration

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:12 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

07/14/23
07/18/23
1st
2nd

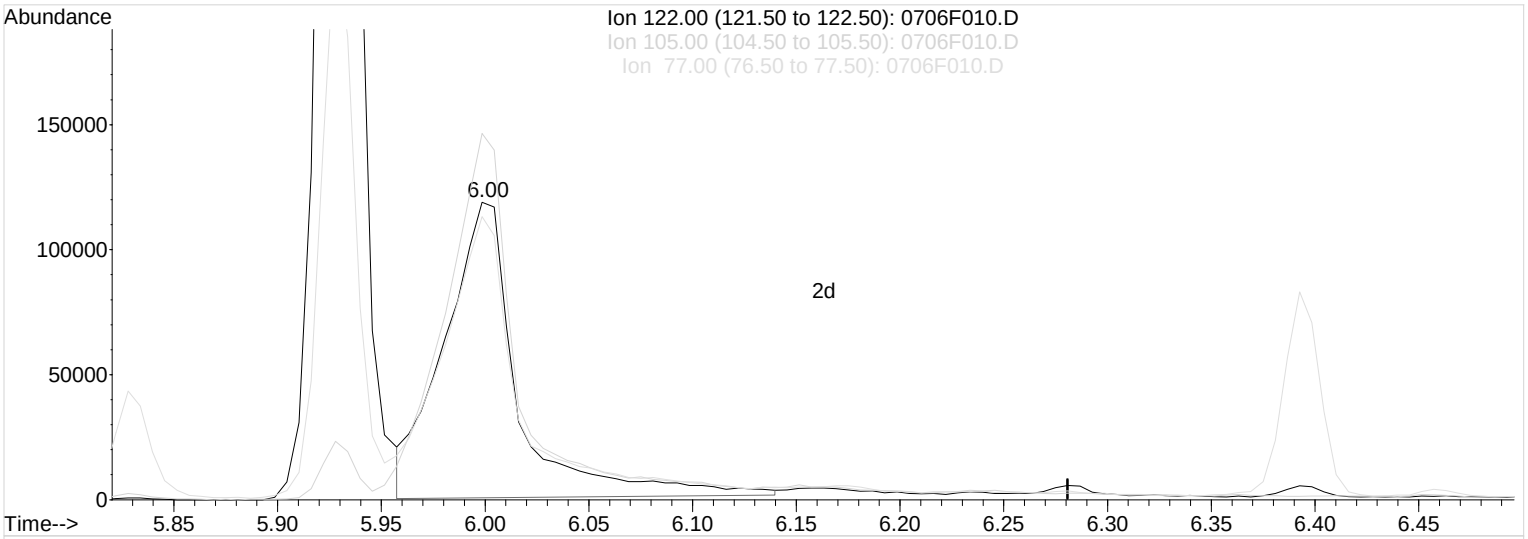


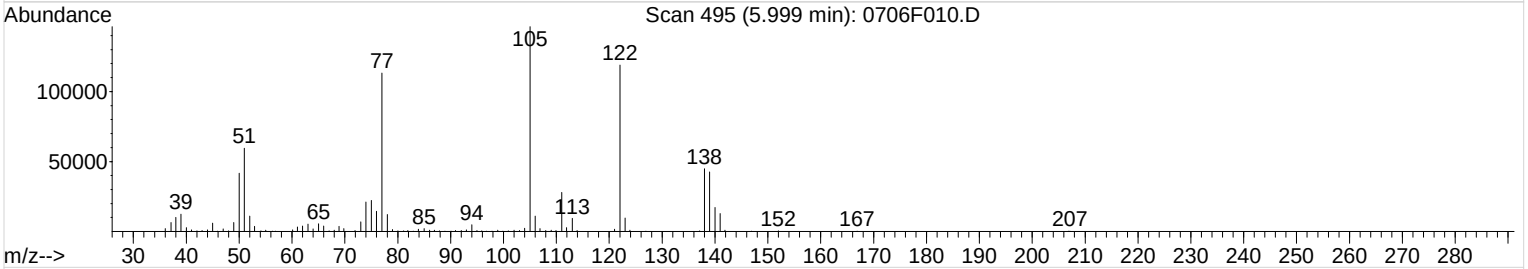
Quantitation Report (Qedit)

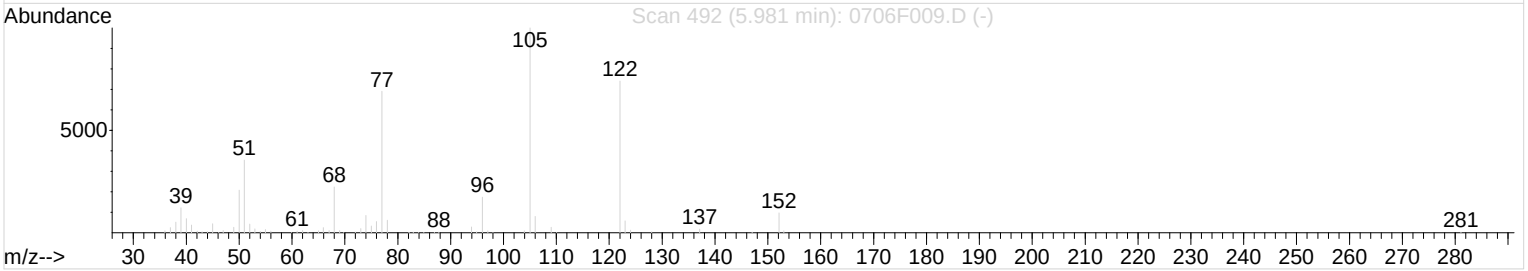
1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:09 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Multiple Level Calibration







TIC: 0706F010.D

(27) Benzoic Acid (T)

6.00min 7833.32ng/ml

response 294802

Ion	Exp%	Act%
122.00	100	100
105.00	118.90	122.85
77.00	91.30	93.75
0.00	0.00	0.00

Manual Integration:

Before

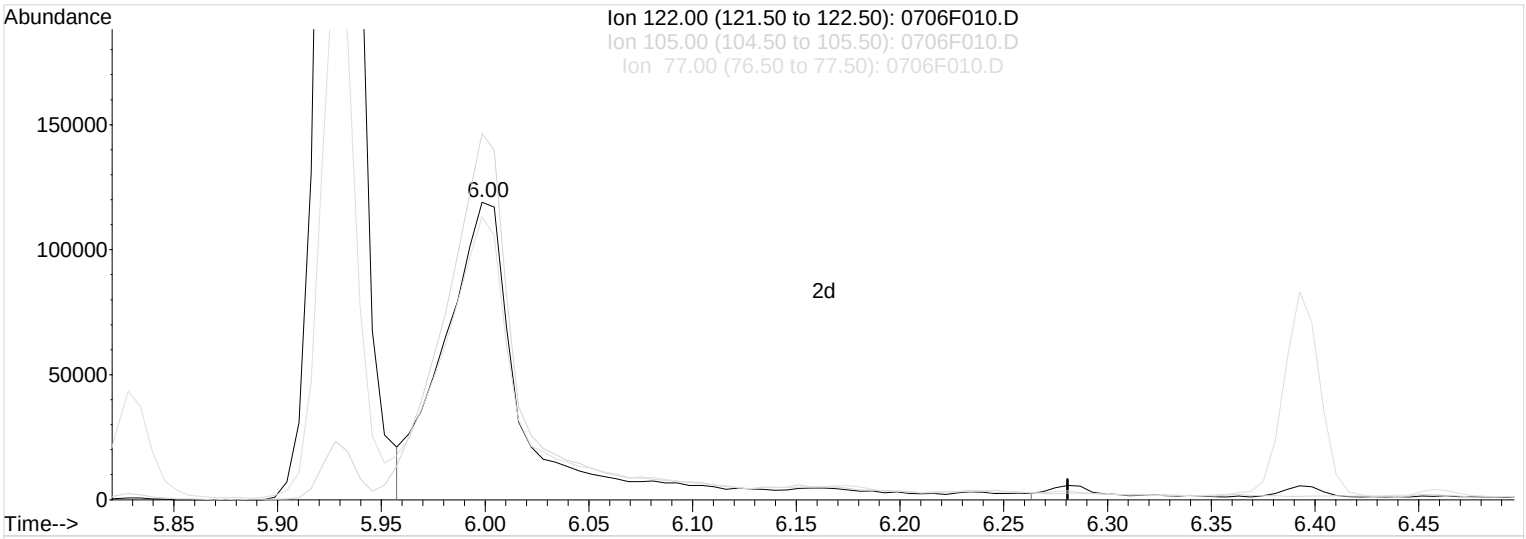
07/11/23

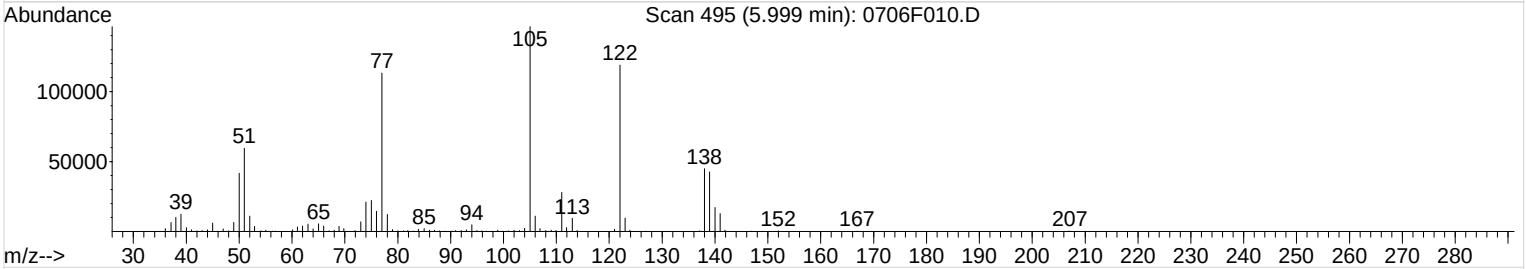
Quantitation Report (Qedit)

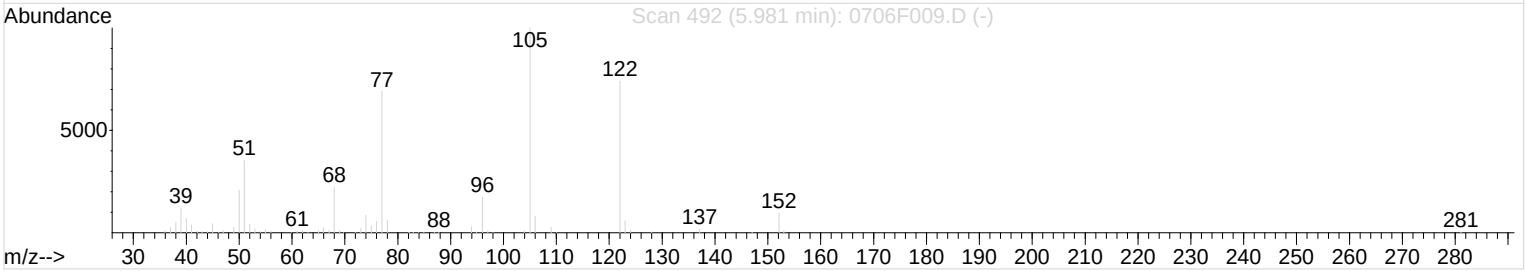
1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:11 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Multiple Level Calibration







TIC: 0706F010.D

(27) Benzoic Acid (T)

6.00min 8337.70ng/ml m

response 331312

Ion	Exp%	Act%
122.00	100	100
105.00	118.90	123.07
77.00	91.30	95.07
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

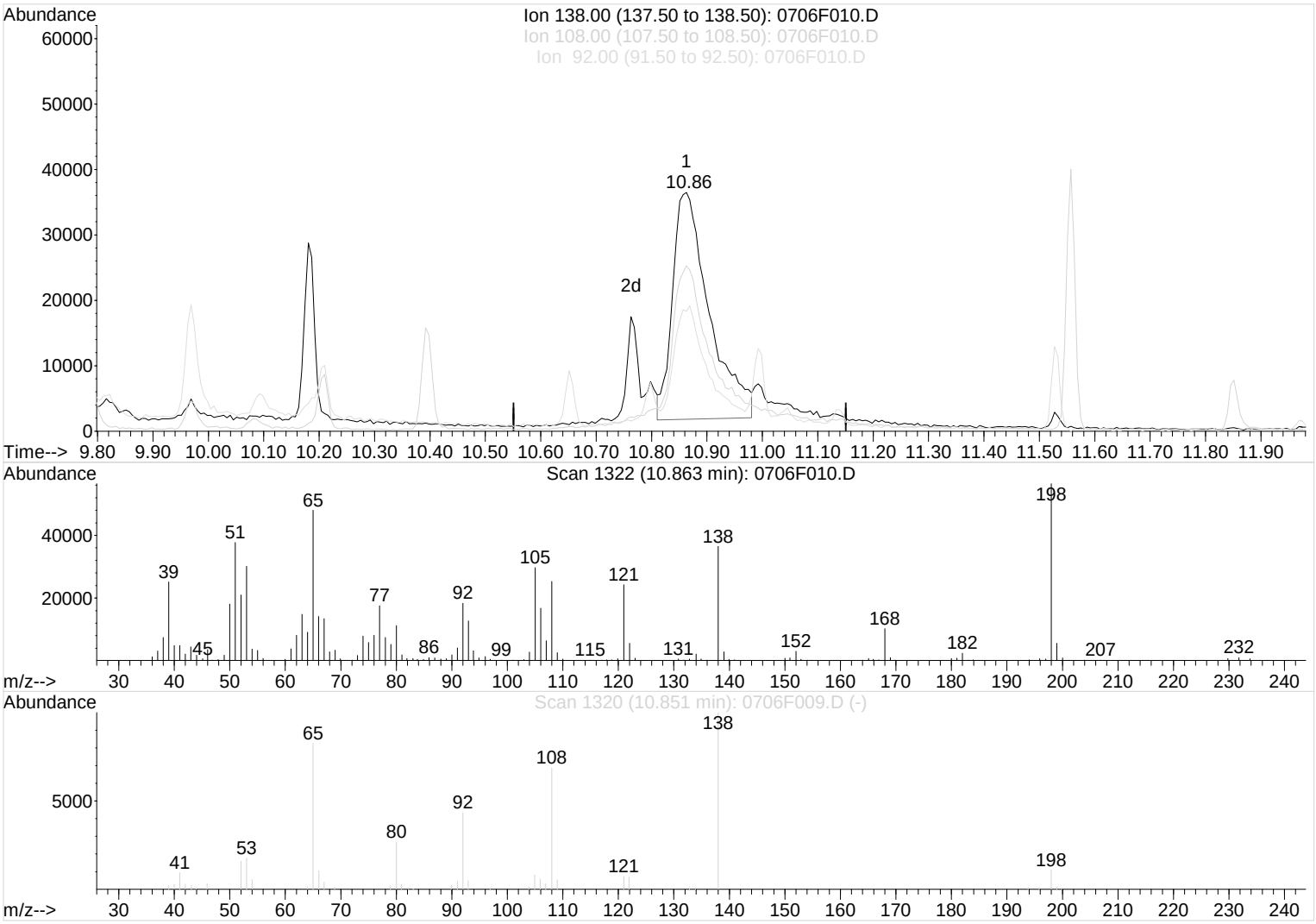
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:11 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Multiple Level Calibration



TIC: 0706F010.D

(55) 4-Nitroaniline (T)

10.86min 3469.56ng/ml

response 159228

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	70.29
92.00	47.20	47.75
0.00	0.00	0.00

Manual Integration:

Before

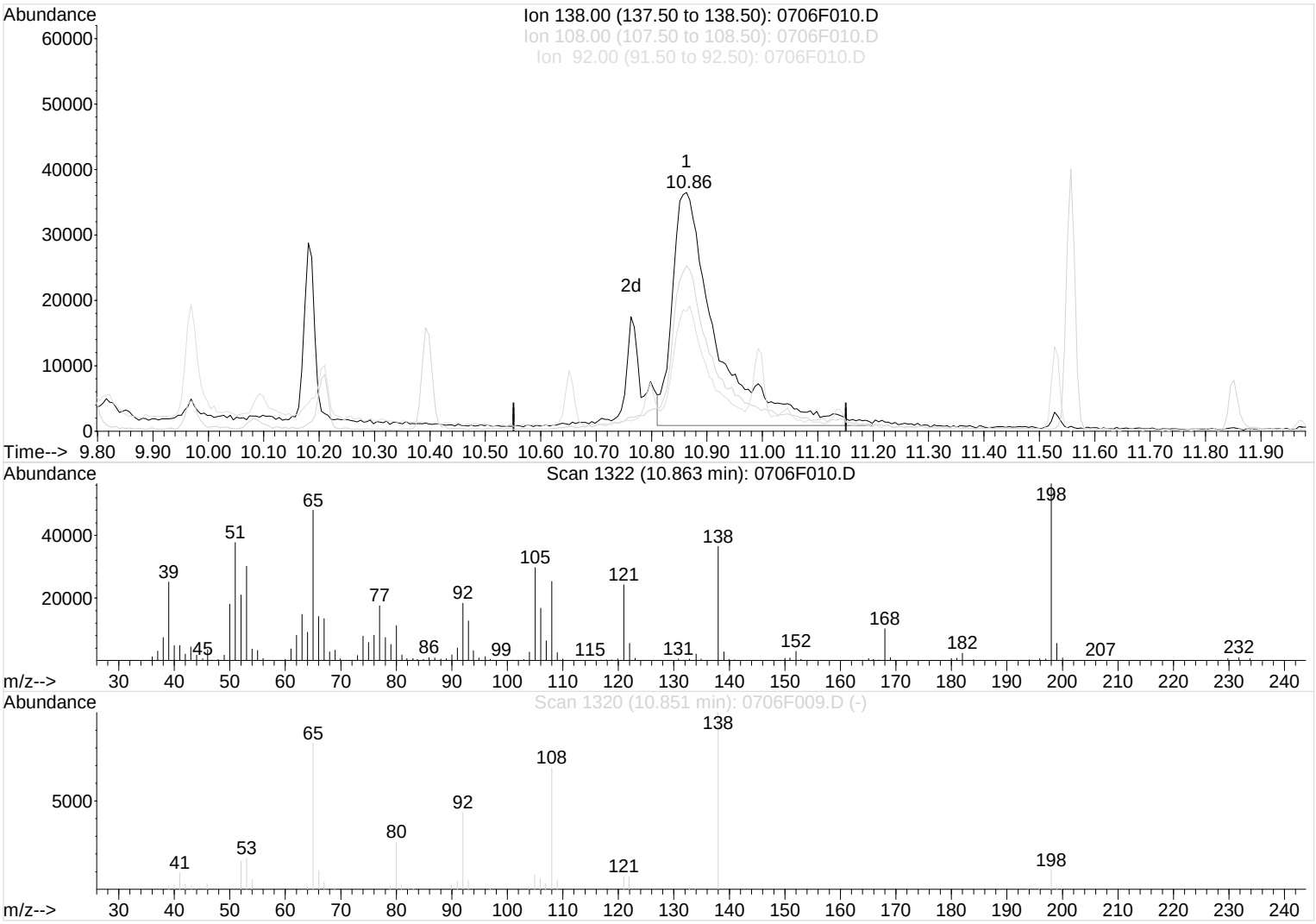
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Multiple Level Calibration



TIC: 0706F010.D

(55) 4-Nitroaniline (T)

10.86min 4540.23ng/ml m

response 199817

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	69.22
92.00	47.20	50.21
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

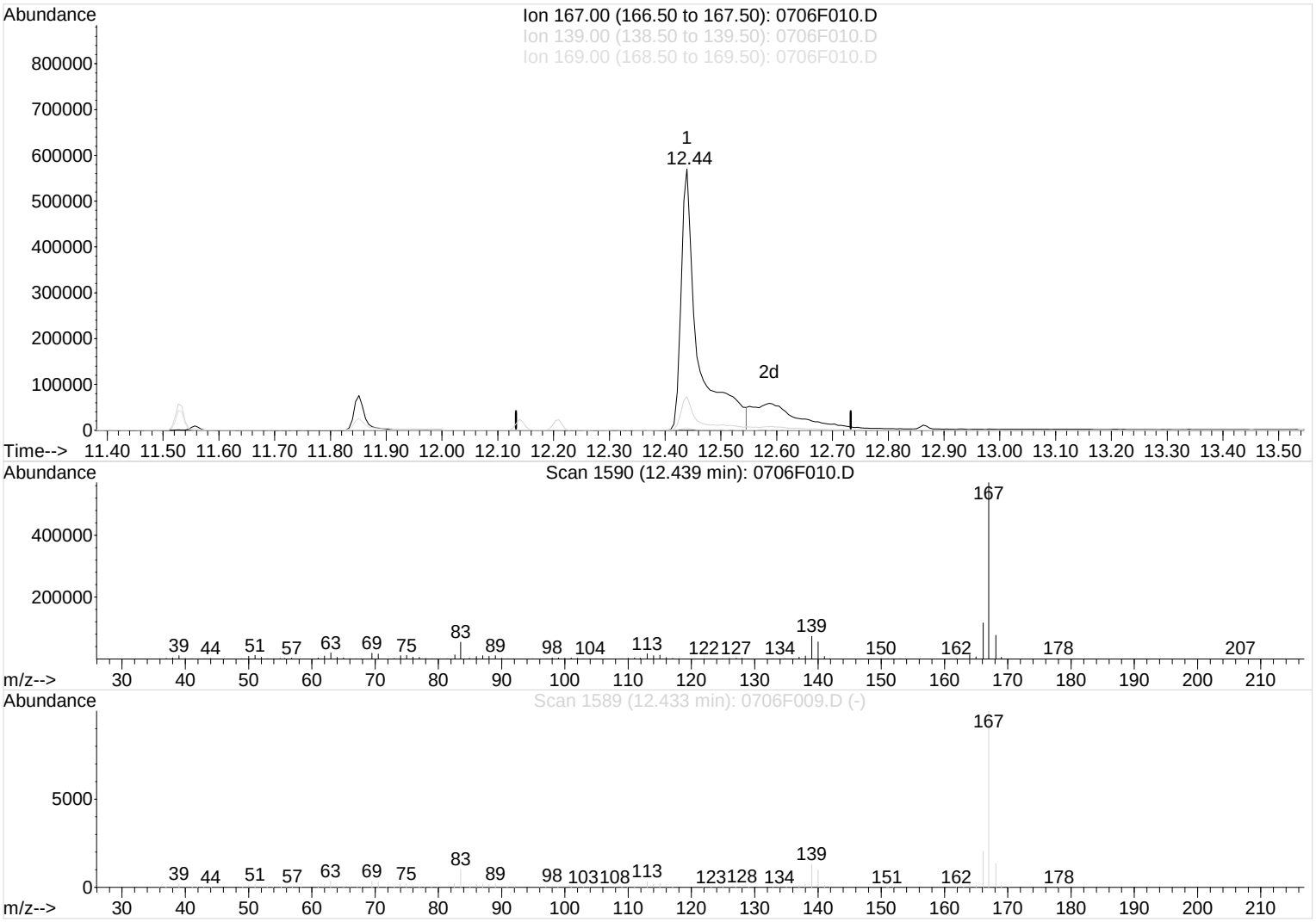
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Multiple Level Calibration



TIC: 0706F010.D

(66) Carbazole (T)

12.44min 3666.61ng/ml

response 1228488

Ion	Exp%	Act%
167.00	100	100
139.00	12.80	12.75
169.00	0.90	0.88
0.00	0.00	0.00

Manual Integration:

Before

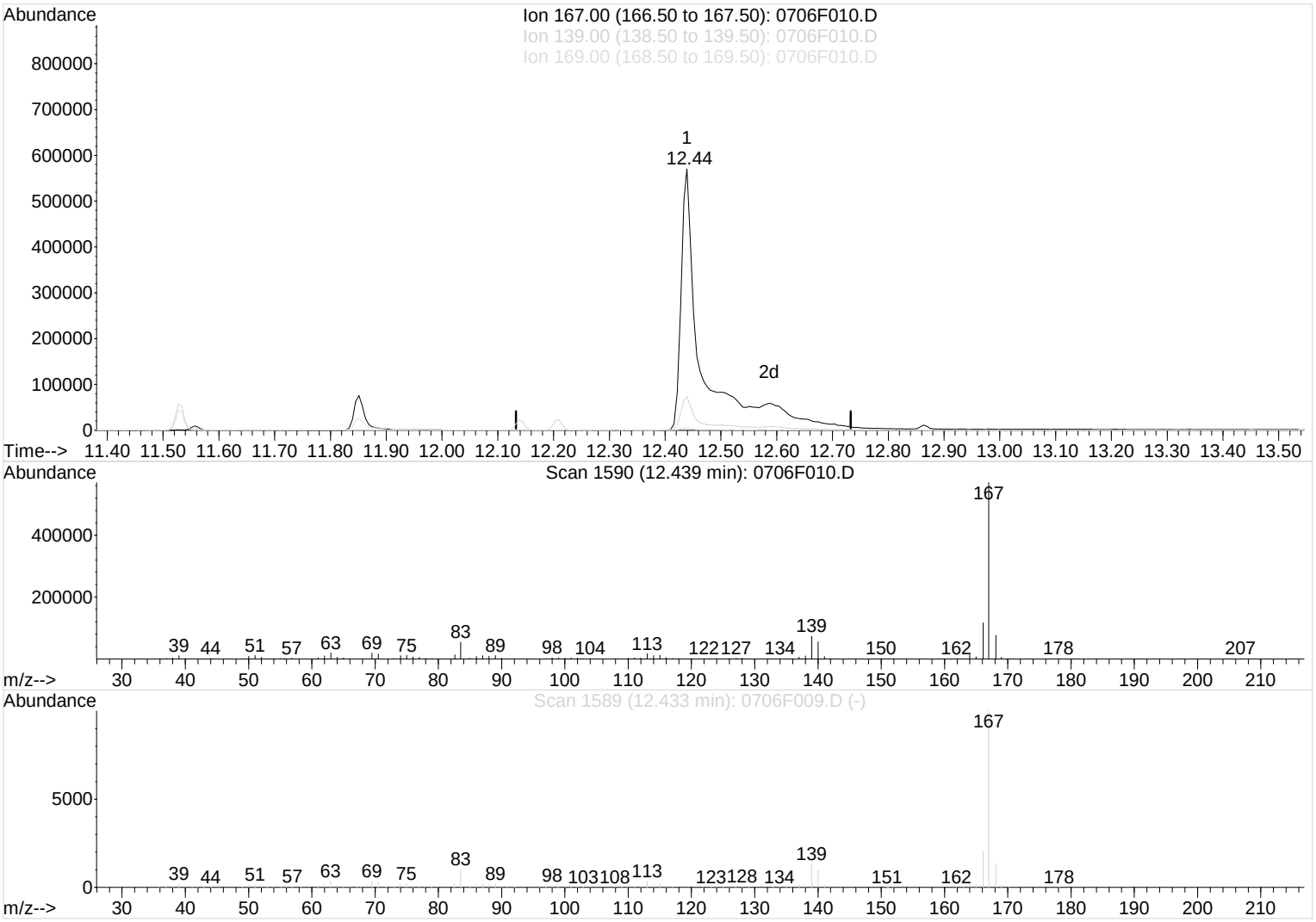
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Multiple Level Calibration



TIC: 0706F010.D

(66) Carbazole (T)

12.44min 4779.45ng/ml m

response 1601344

Ion	Exp%	Act%
167.00	100	100
139.00	12.80	12.80
169.00	0.90	0.93
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

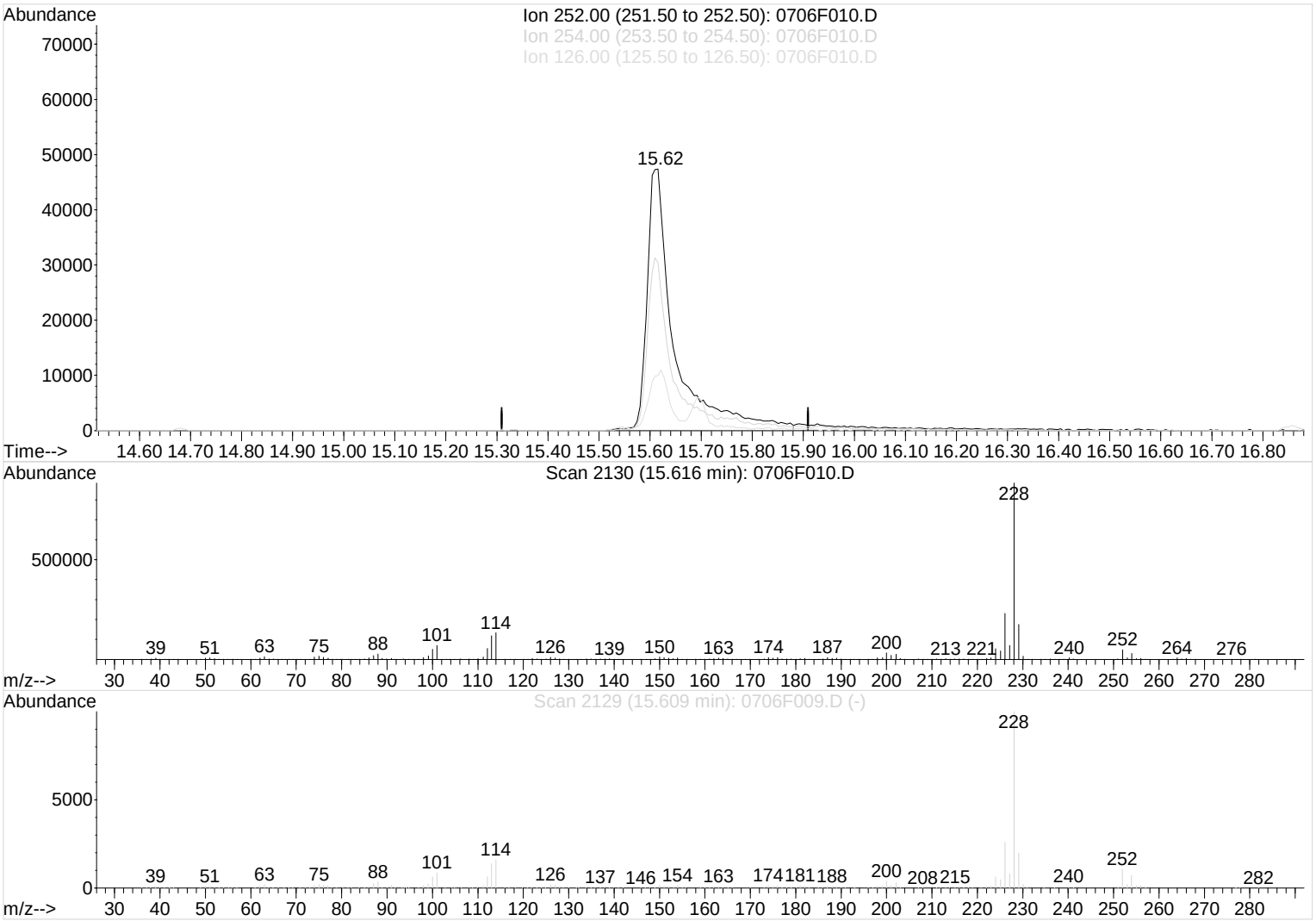
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Multiple Level Calibration



TIC: 0706F010.D

(73) 3,3'-Dichlorobenzidine (T)

15.62min 2214.39ng/ml

response 177036

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	64.29
126.00	19.10	20.65
0.00	0.00	0.00

Manual Integration:

Before

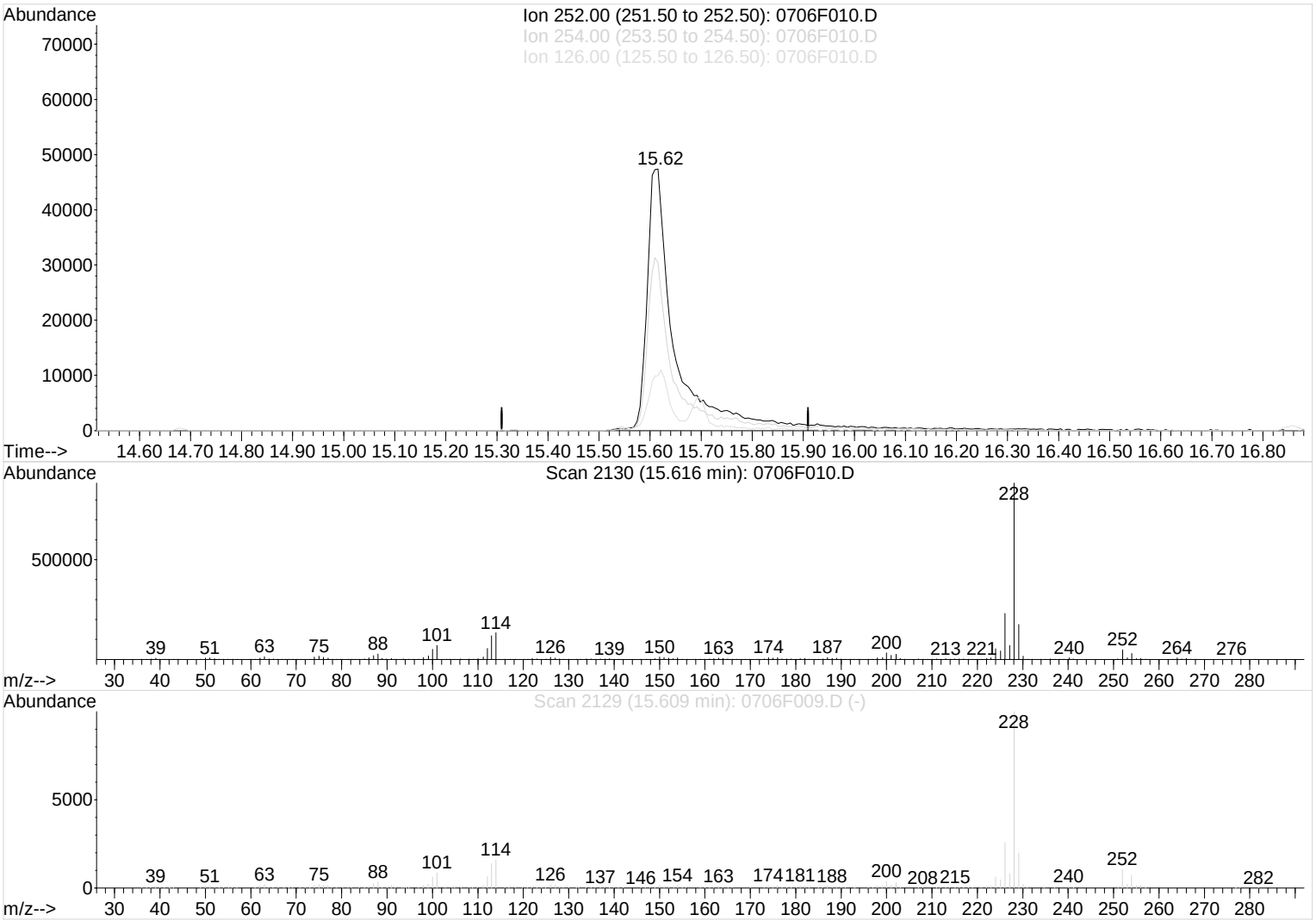
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F010.D Vial: 9
Acq On : 6 Jul 2023 3:06 pm Operator: CSD
Sample : SVO_LL ICAL 5.0ppm SVM70-29J Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:07:17 2023
Response via : Multiple Level Calibration



TIC: 0706F010.D

(73) 3,3'-Dichlorobenzidine (T)

15.62min 2364.70ng/ml m

response 189053

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	64.29
126.00	19.10	20.98
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/11/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : I:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 18 16:46:47 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	134999	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.37	136	528419	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.80	164	278717	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	369813	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	344549	1000.00	ng/ml	0.00
77) Perylene-d12	18.76	264	305683	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	1219448	7667.66	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 204.47%#			
6) Phenol-d6	4.72	99	1416697	7704.86	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 205.46%#			
19) Nitrobenzene-d5	5.58	82	1275539	7947.10	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 317.88%#			
39) 2-Fluorobiphenyl	8.31	172	2537961	7176.87	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 287.07%#			
60) 2,4,6-Tribromophenol	11.14	330	295869	8170.31	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 217.87%#			
71) Terphenyl-d14	14.01	244	2363738	6595.54	ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 263.82%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.15	42	641066	7427.58	ng/ml	94
3) Pyridine	3.17	79	1507468	7092.49	ng/ml	98
5) Bis(2-chloroethyl) Ether	4.84	93	1333351	7271.26	ng/ml	98
7) Phenol	4.73	94	1544684	7652.44	ng/ml	99
8) Aniline	4.80	93	1095734	7001.78	ng/ml	98
9) 2-Chlorophenol	4.89	128	1280806	7663.83	ng/ml	99
10) 1,3-Dichlorobenzene	5.03	146	1373992	6937.86	ng/ml	100
11) 1,4-Dichlorobenzene	5.09	146	1428953	6972.00	ng/ml	99
12) 1,2-Dichlorobenzene	5.23	146	1322653	6944.60	ng/ml	98
13) Benzyl Alcohol	5.19	108	813870	7093.20	ng/ml	98
14) 2,2'-oxybis(1-chloropropan	5.29	45	1548421	6958.27	ng/ml	99
15) 2-Methylphenol	5.26	107	987410	7687.43	ng/ml	99
16) Hexachloroethane	5.53	117	554922	7291.58	ng/ml	99
17) N-Nitrosodi-n-propylamine	5.42	70	868930	7929.59	ng/ml	99
18) 4-Methylphenol	5.40	107	1327274	7934.46	ng/ml	99
20) Nitrobenzene	5.60	77	1280418	7651.01	ng/ml	98
22) Isophorone	5.83	82	2174497	8032.37	ng/ml	100
23) 2-Nitrophenol	5.92	139	687367	6858.98	ng/ml	96
24) 2,4-Dimethylphenol	5.93	122	1077118	7627.02	ng/ml	99
25) Bis(2-chloroethoxy)methane	6.05	93	1430122	7344.81	ng/ml	99
26) 2,4-Dichlorophenol	6.17	162	965475	7035.60	ng/ml	99
27) Benzoic Acid	6.02	122	487021	6949.04	ng/ml	98
28) 1,2,4-Trichlorobenzene	6.28	180	1081578	6974.84	ng/ml	99
29) Naphthalene	6.39	128	3624279	6885.65	ng/ml	99
30) 4-Chloroaniline	6.46	127	311138m	2796.68	ng/ml	
31) Hexachlorobutadiene	6.52	225	589082	6942.35	ng/ml	99
32) 4-Chloro-3-methylphenol	7.17	107	984286	7063.17	ng/ml	98
33) 2-Methylnaphthalene	7.48	141	2129069	7417.98	ng/ml	100
34) 1-Methylnaphthalene	7.68	141	2145392	7249.05	ng/ml	99
36) Hexachlorocyclopentadiene	7.76	237	623389	7089.72	ng/ml	99
37) 2,4,6-Trichlorophenol	8.07	196	660113	7053.11	ng/ml	99
38) 2,4,5-Trichlorophenol	8.15	196	686085m	7982.46	ng/ml	
40) 2-Chloronaphthalene	8.61	162	2108422	7331.61	ng/ml	100
41) 2-Nitroaniline	8.89	65	582784	7080.86	ng/ml	99
42) Acenaphthylene	9.52	152	3312868	7879.37	ng/ml	99
43) Dimethyl Phthalate	9.32	163	2291327	7780.97	ng/ml	99

(#) = qualifier out of range (m) = manual integration

1st CO 07/14/23
2nd 07/18/23

Data File : I:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 18 16:46:47 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	2,6-Dinitrotoluene	9.45	165	516334	7004.93	ng/ml	99
45)	Acenaphthene	9.86	154	1998553	7089.30	ng/ml	98
47)	2,4-Dinitrophenol	9.97	184	183773	7038.84	ng/ml	96
48)	Dibenzofuran	10.19	168	3066577	7056.09	ng/ml	99
49)	4-Nitrophenol	10.10	109	200786	6967.30	ng/ml	98
50)	2,4-Dinitrotoluene	10.21	165	604656	6909.90	ng/ml	99
51)	2,3,4,6-Tetrachlorophenol	10.40	232	501370	6992.17	ng/ml	99
52)	Fluorene	10.77	166	2307205	7425.48	ng/ml	98
53)	4-Chlorophenyl Phenyl Ethe	10.80	204	1072588	7122.15	ng/ml	99
54)	Diethyl Phthalate	10.66	149	1948504	7080.75	ng/ml	99
55)	4-Nitroaniline	10.87	138	241826m	6901.13	ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.87	198	280621	7021.44	ng/ml	95
57)	Diphenylamine	11.00	169	1385604	7181.85	ng/ml	100
58)	Azobenzene	11.05	77	2339054	6957.34	ng/ml	98
61)	4-Bromophenyl Phenyl Ether	11.53	248	583972	7906.35	ng/ml	95
62)	Hexachlorobenzene	11.56	284	666594	7528.47	ng/ml	96
63)	Pentachlorophenol	11.85	266	342742	7039.05	ng/ml	99
64)	Phenanthrene	12.15	178	2787220	7046.91	ng/ml	100
65)	Anthracene	12.21	178	2707150	7620.87	ng/ml	100
66)	Carbazole	12.45	167	2248946m	7813.11	ng/ml	
67)	Di-n-butyl Phthalate	12.86	149	3096050	7213.67	ng/ml	100
68)	Fluoranthene	13.55	202	2692630	7755.50	ng/ml	98
70)	Pyrene	13.82	202	2727263	5763.82	ng/ml	100
72)	Butyl Benzyl Phthalate	14.68	149	1563661	7067.89	ng/ml	99
73)	3,3'-Dichlorobenzidine	15.61	252	233347m	Below Cal		
74)	Benz(a)anthracene	15.63	228	2994226	7956.91	ng/ml	99
75)	Chrysene	15.70	228	2736723	6659.67	ng/ml	100
76)	Bis(2-ethylhexyl) Phthalat	15.68	149	2184669	6942.39	ng/ml	100
78)	Di-n-octyl Phthalate	17.36	149	3412812	7182.82	ng/ml	99
79)	Benzo(b)fluoranthene	18.13	252	2788630	7205.71	ng/ml	99
80)	Benzo(k)fluoranthene	18.19	252	2817933	7897.18	ng/ml	100
81)	Benzo(a)pyrene	18.67	252	2476444	7109.96	ng/ml	99
82)	Indeno(1,2,3-cd)pyrene	20.57	276	1803387	7133.43	ng/ml	99
83)	Dibenz(a,h)anthracene	20.62	278	2212017	7879.67	ng/ml	99
84)	Benzo(g,h,i)perylene	21.07	276	1771609	6680.23	ng/ml	99

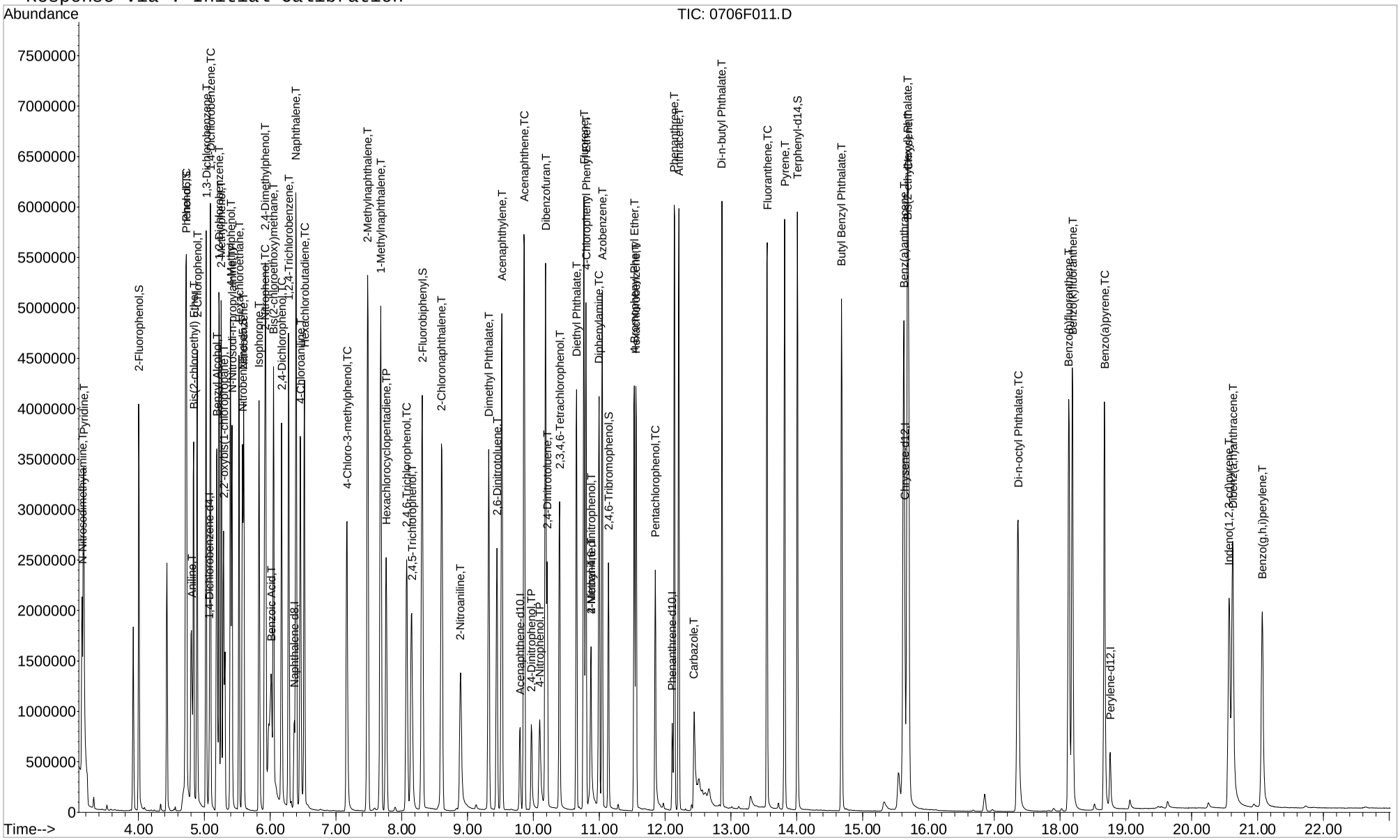
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : I:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 18 16:46 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

07/14/23
07/18/23
1st
2nd

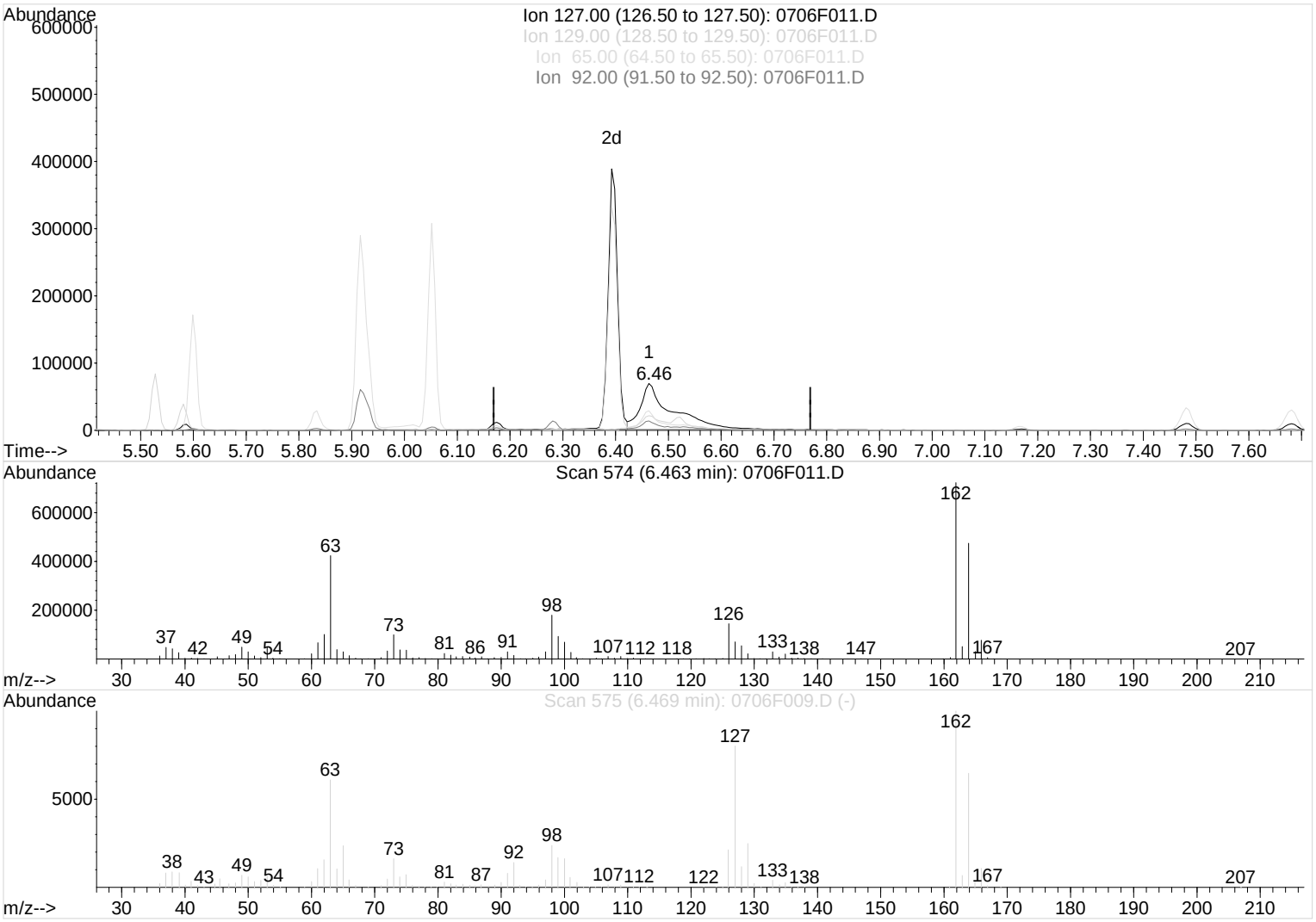


Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:14 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(30) 4-Chloroaniline (T)

6.46min 4214.48ng/ml

response 287391

Ion	Exp%	Act%
127.00	100	100
129.00	31.30	30.63
65.00	29.50	41.20
92.00	17.30	19.98

Manual Integration:

Before

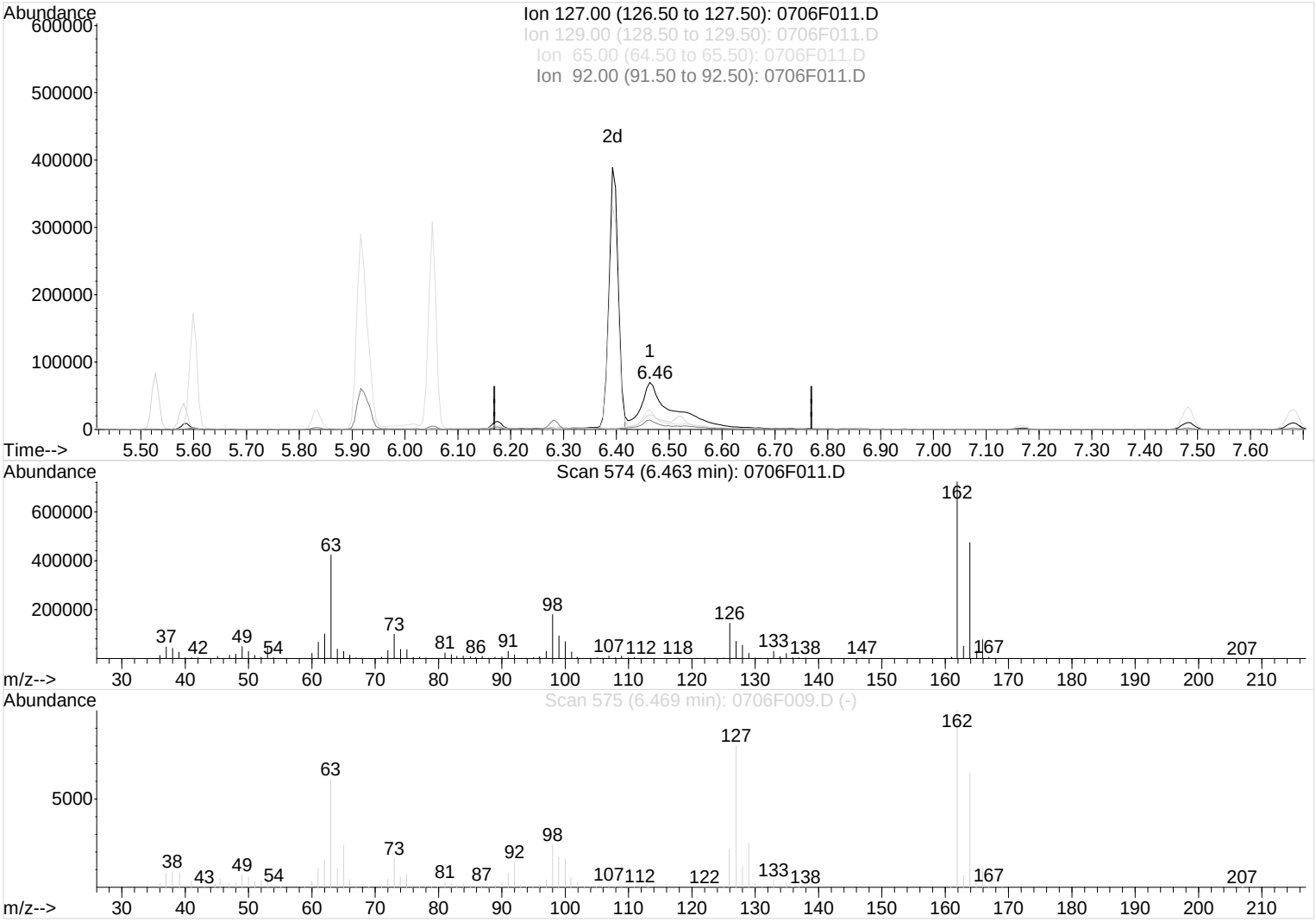
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:15 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(30) 4-Chloroaniline (T)

6.46min 4562.72ng/ml m

response 311138

Ion	Exp%	Act%
127.00	100	100
129.00	31.30	30.68
65.00	29.50	41.29
92.00	17.30	20.04

Manual Integration:

After

Baseline correction

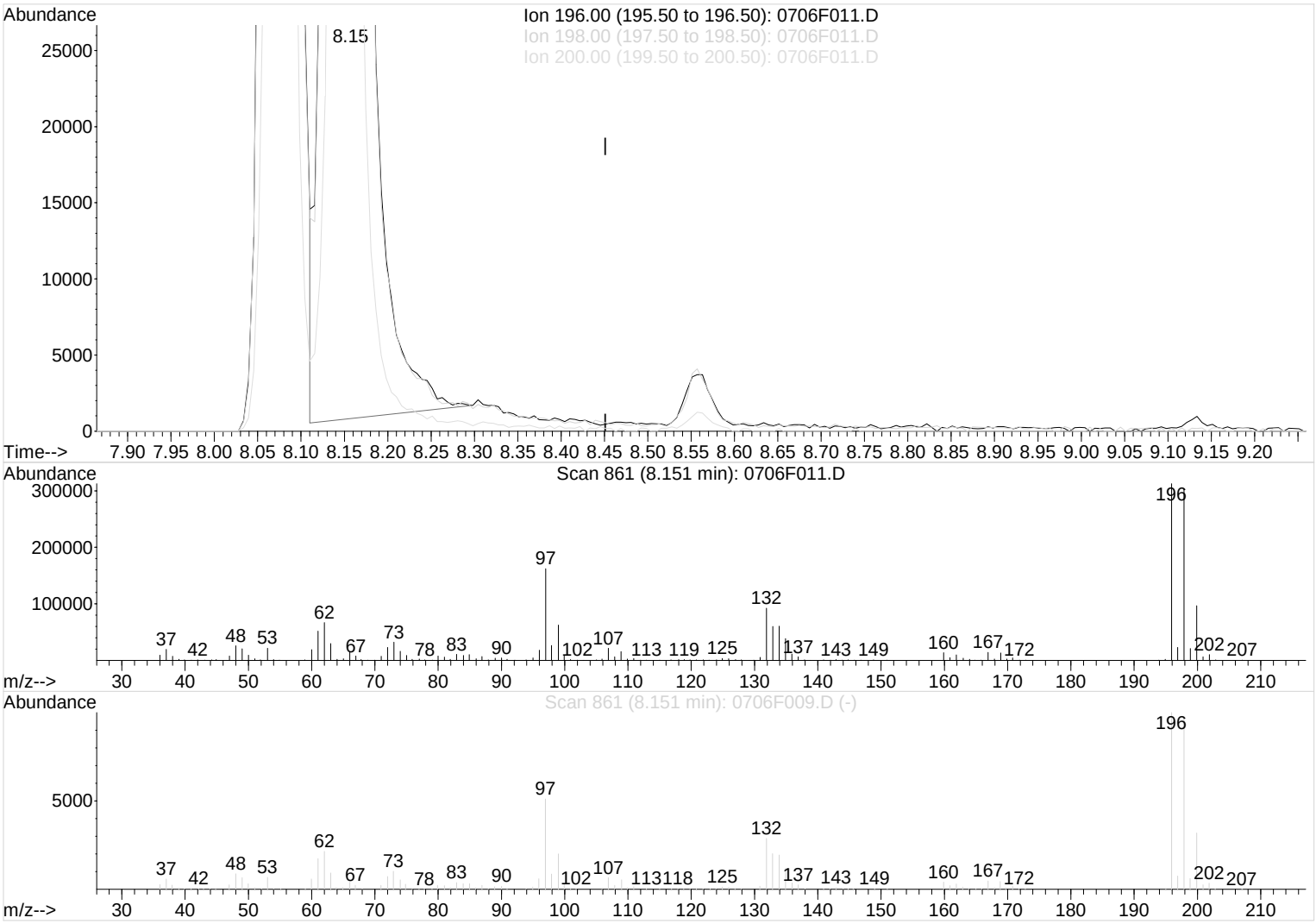
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:15 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(38) 2,4,5-Trichlorophenol (T)

8.15min 0.00ng/ml

response 664566

Ion	Exp%	Act%
196.00	100	100
198.00	96.50	97.01
200.00	31.40	30.99
0.00	0.00	0.00

Manual Integration:

Before

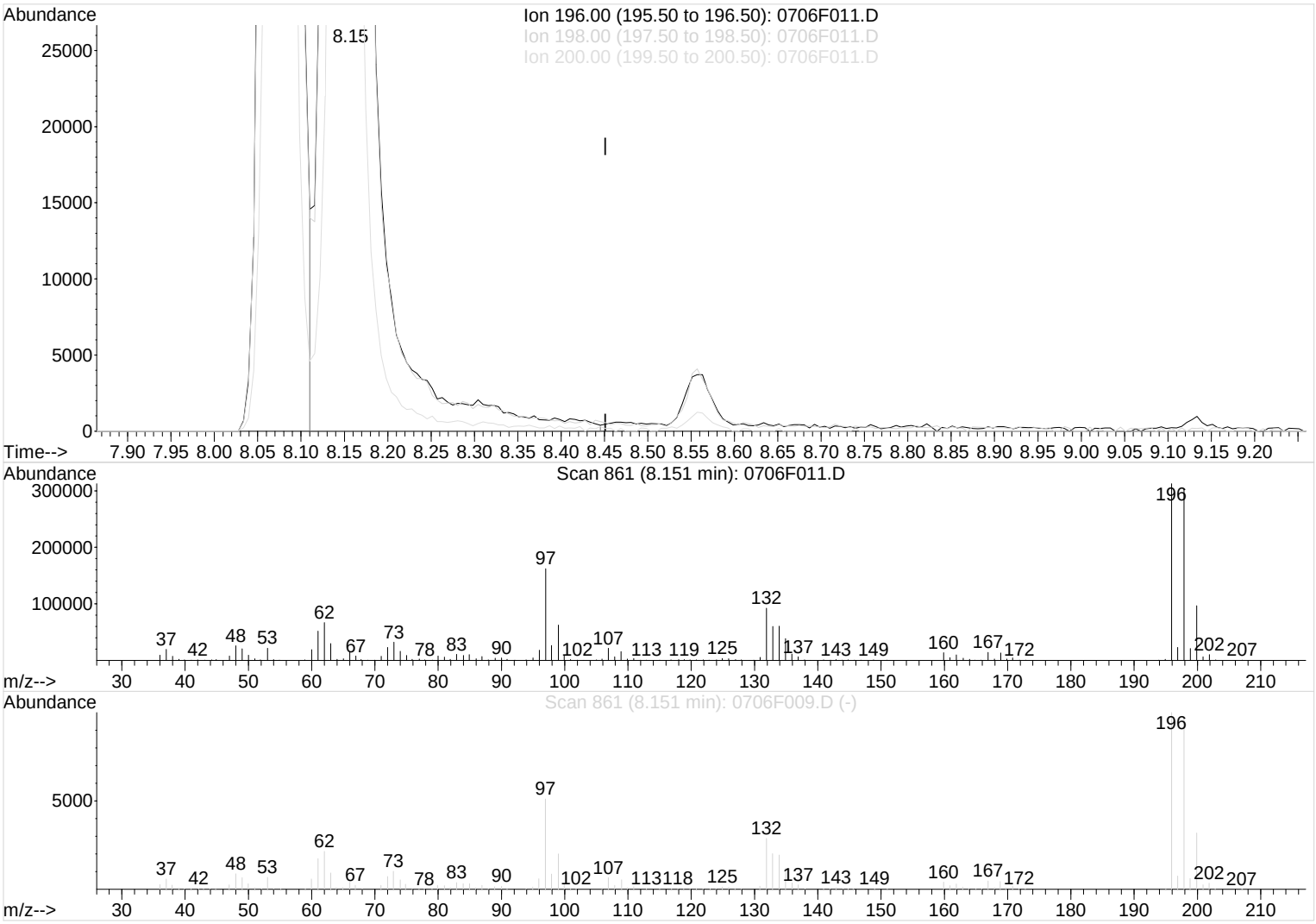
07/11/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:15 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(38) 2,4,5-Trichlorophenol (T)

8.15min 0.00ng/ml m

response 686085

Ion	Exp%	Act%
196.00	100	100
198.00	96.50	96.95
200.00	31.40	30.94
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

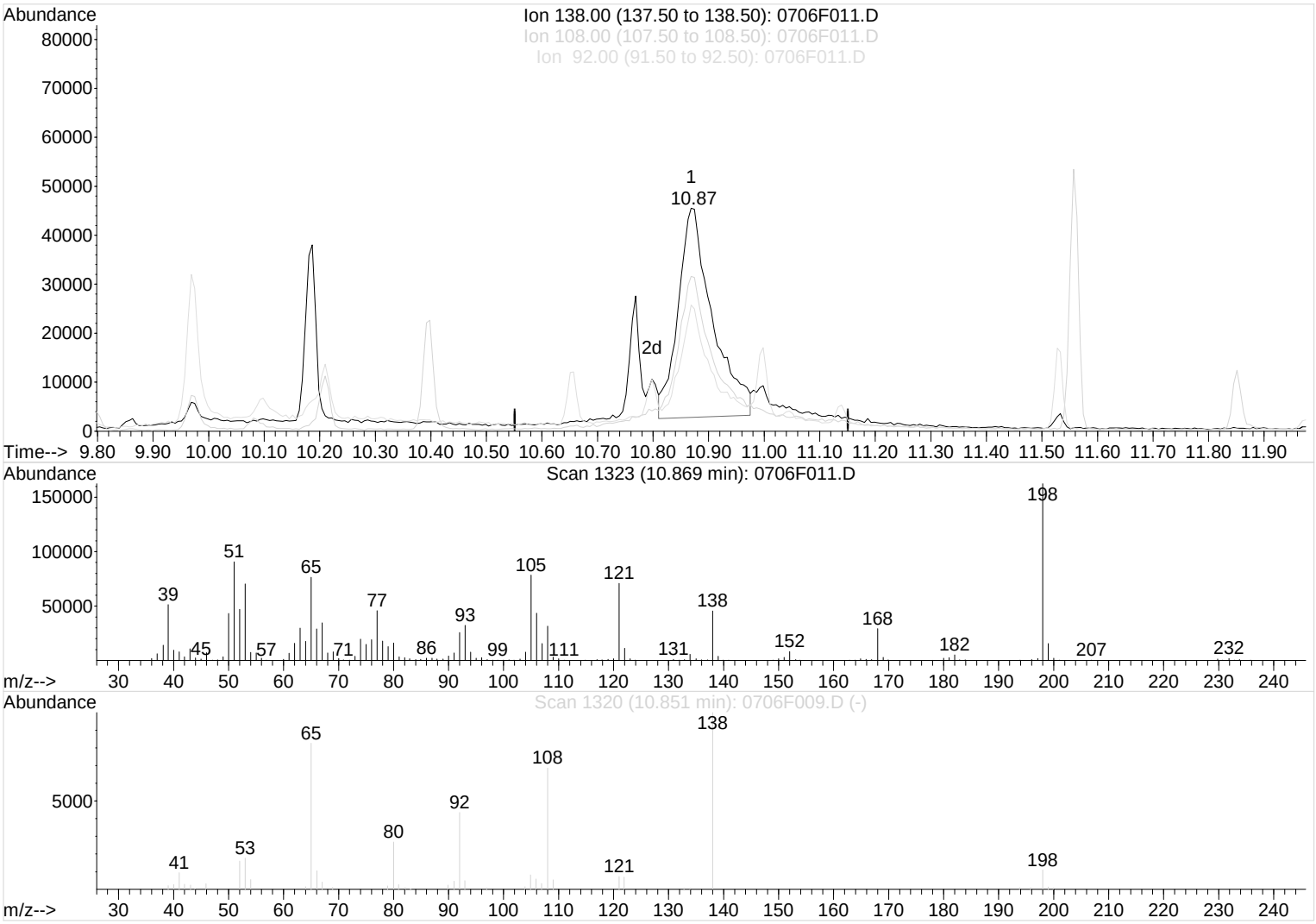
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:15 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(55) 4-Nitroaniline (T)

10.87min 0.00ng/ml

response 183900

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	71.65
92.00	47.20	54.28
0.00	0.00	0.00

Manual Integration:

Before

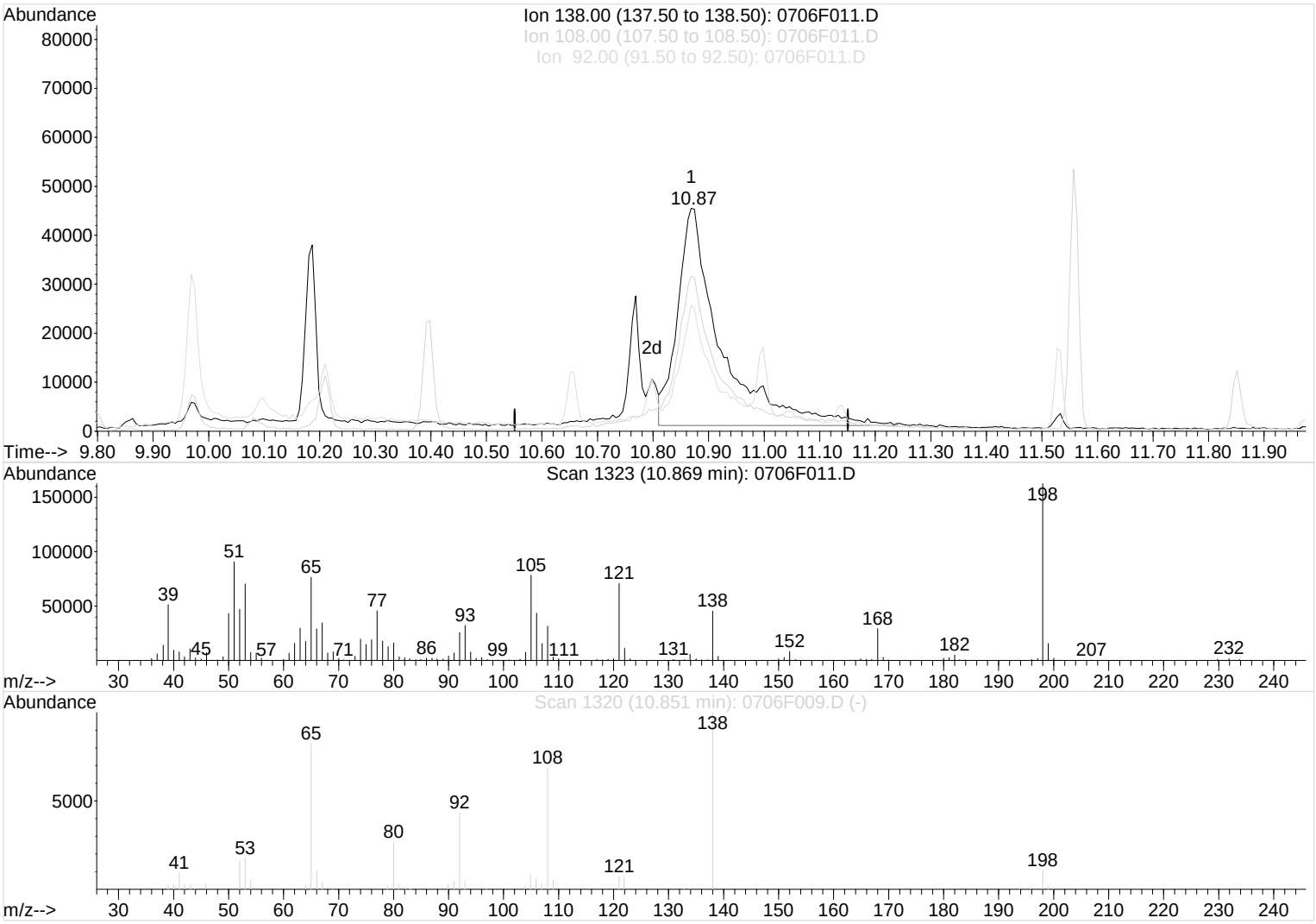
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:16 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(55) 4-Nitroaniline (T)

10.87min 0.00ng/ml m

response 241826

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	69.34
92.00	47.20	56.48
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

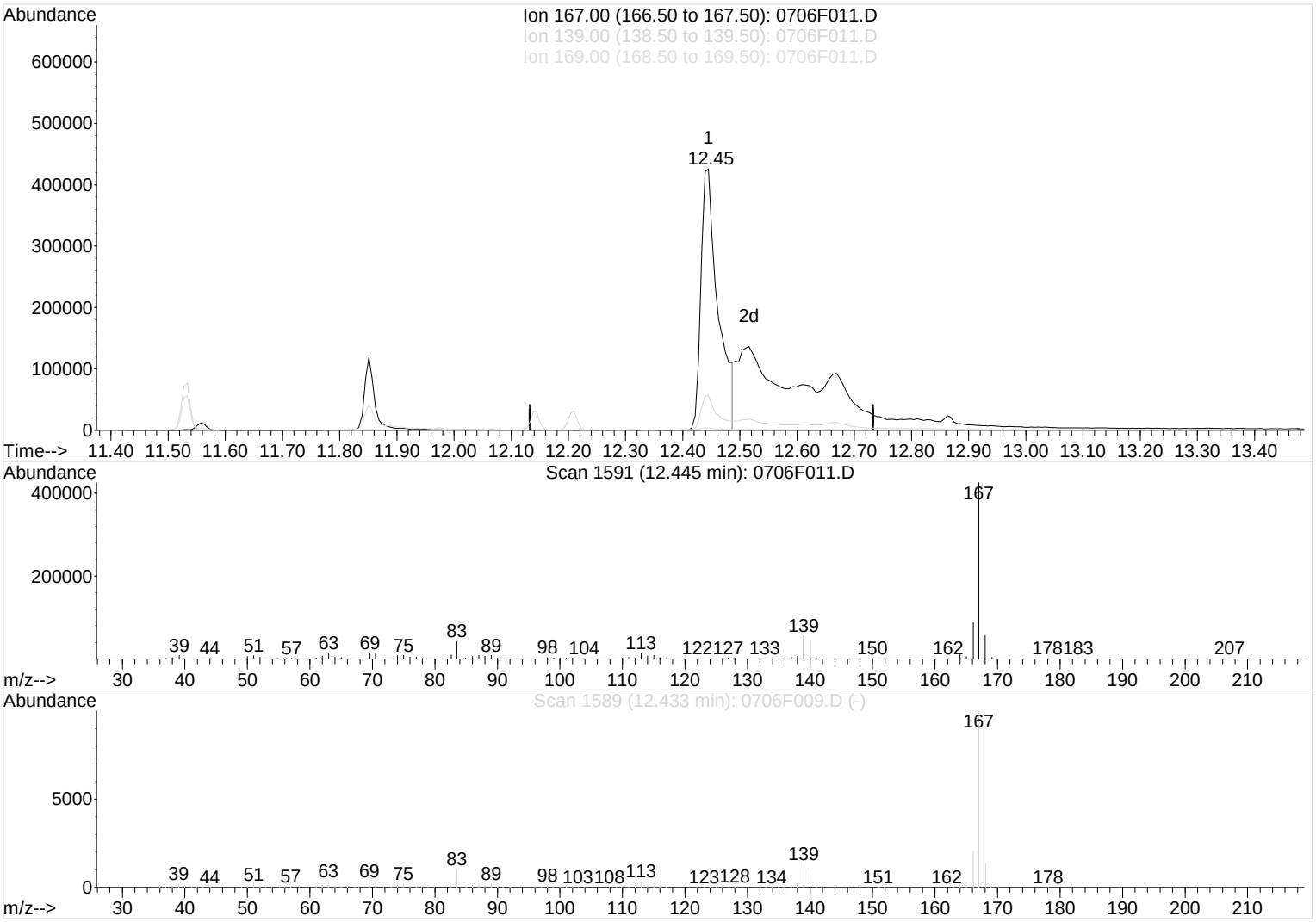
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:16 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(66) Carbazole (T)

12.45min 2942.06ng/ml

response 888341

Ion	Exp%	Act%
167.00	100	100
139.00	12.80	13.07
169.00	0.90	0.82
0.00	0.00	0.00

Manual Integration:

Before

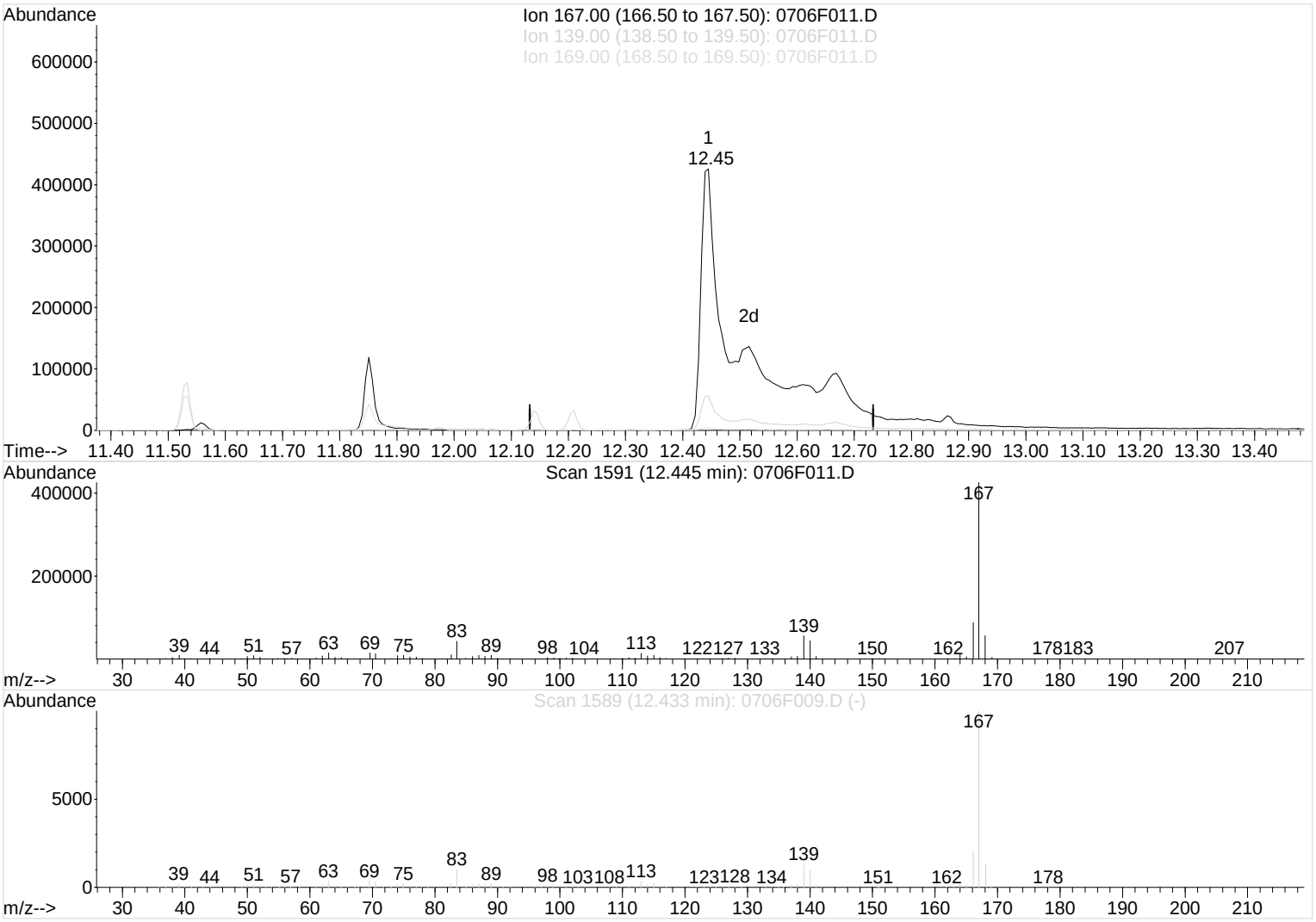
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:16 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(66) Carbazole (T)

12.45min 7448.20ng/ml m

response 2248946

Ion	Exp%	Act%
167.00	100	100
139.00	12.80	13.13
169.00	0.90	0.87
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

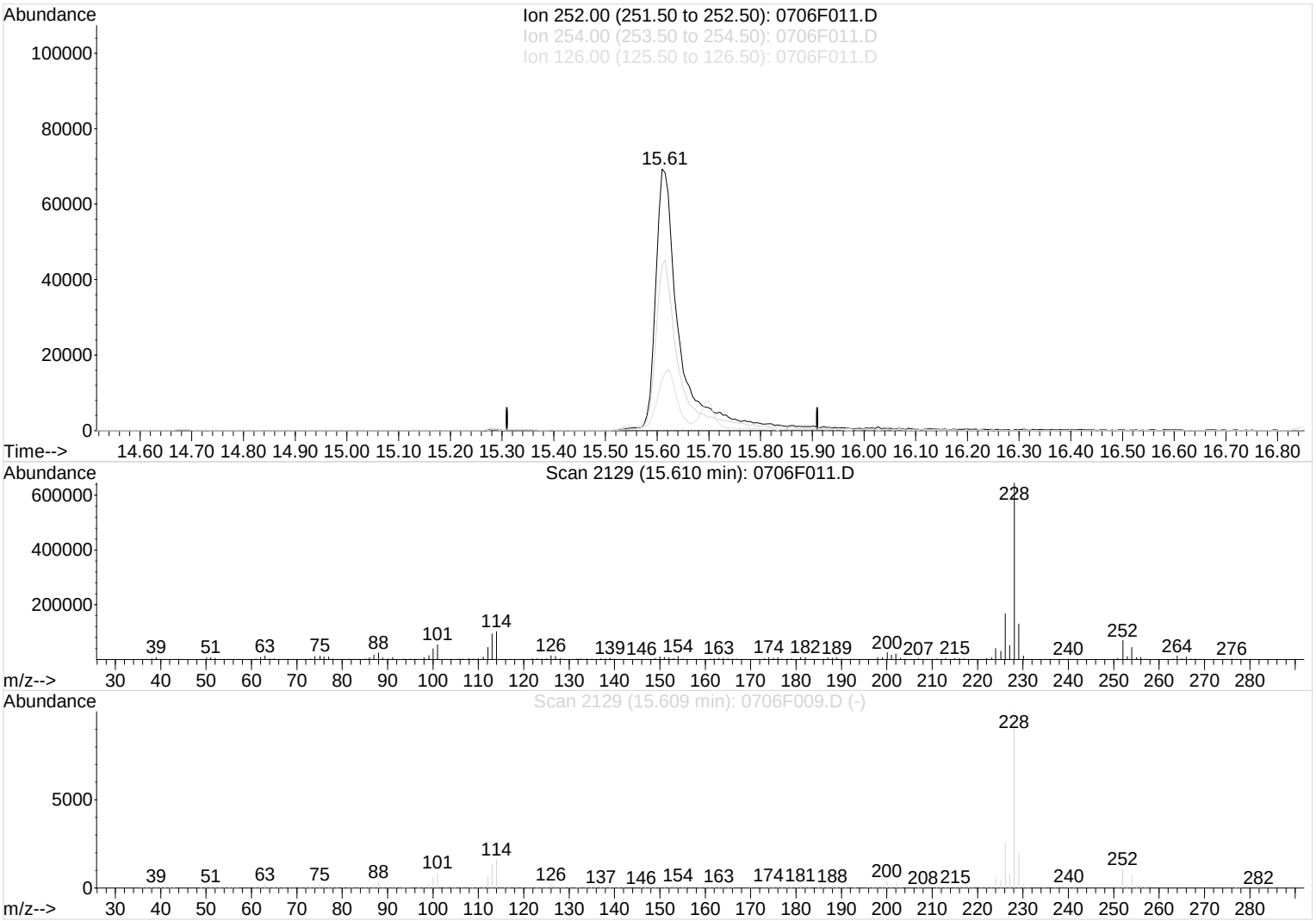
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:16 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(73) 3,3'-Dichlorobenzidine (T)

15.61min 4818.79ng/ml

response 222571

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	63.28
126.00	19.10	19.43
0.00	0.00	0.00

Manual Integration:

Before

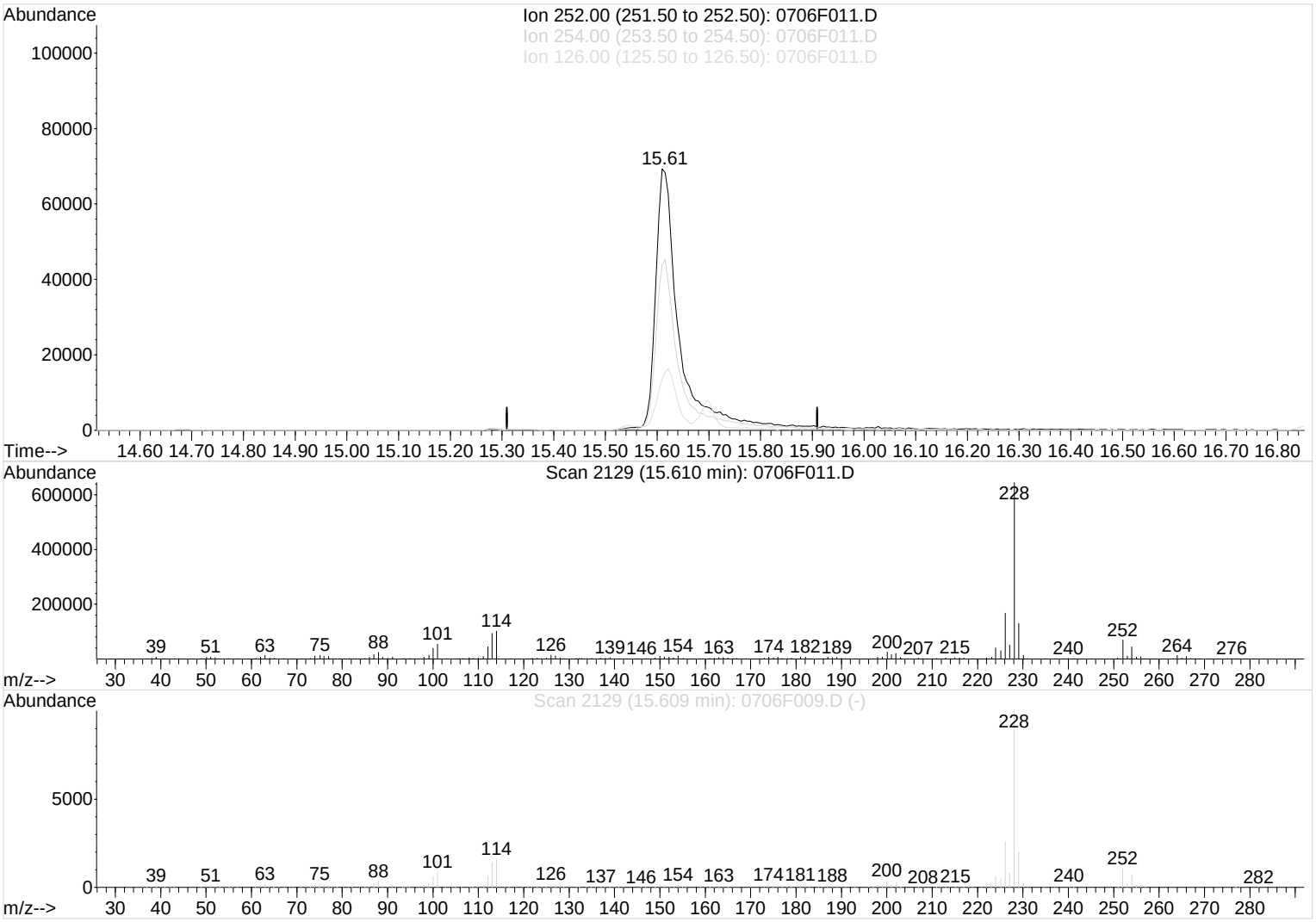
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F011.D Vial: 10
Acq On : 6 Jul 2023 3:35 pm Operator: CSD
Sample : SVO_LL ICAL 7.0ppm SVM70-29K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:13:56 2023
Response via : Multiple Level Calibration



TIC: 0706F011.D

(73) 3,3'-Dichlorobenzidine (T)

15.61min 5052.10ng/ml m

response 233347

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	63.28
126.00	19.10	19.69
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/11/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:17:47 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	135552	1000.00 ng/ml	0.00
21) Naphthalene-d8	6.37	136	523939	1000.00 ng/ml	0.00
35) Acenaphthene-d10	9.80	164	275416	1000.00 ng/ml	0.00
59) Phenanthrene-d10	12.11	188	366241	1000.00 ng/ml	0.00
69) Chrysene-d12	15.64	240	350459	1000.00 ng/ml	0.00
77) Perylene-d12	18.76	264	315963	1000.00 ng/ml	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.00	112	1753916	10139.31 ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 270.38%#		
6) Phenol-d6	4.72	99	2033916	10142.12 ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 270.46%#		
19) Nitrobenzene-d5	5.58	82	1838641	10304.18 ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 412.17%#		
39) 2-Fluorobiphenyl	8.32	172	3617844	10165.07 ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 406.60%#		
60) 2,4,6-Tribromophenol	11.15	330	430471	9680.61 ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 258.15%#		
71) Terphenyl-d14	14.01	244	3448372	10278.97 ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 411.16%#		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.15	42	918133	10136.67 ng/ml	92
3) Pyridine	3.16	79	2165612	10300.85 ng/ml	99
5) Bis(2-chloroethyl) Ether	4.84	93	1877369	10050.91 ng/ml	99
7) Phenol	4.73	94	2188738	10028.38 ng/ml	99
8) Aniline	4.80	93	1160698	6622.59 ng/ml	98
9) 2-Chlorophenol	4.89	128	1818165	10043.60 ng/ml	98
10) 1,3-Dichlorobenzene	5.03	146	1957596	9922.15 ng/ml	99
11) 1,4-Dichlorobenzene	5.09	146	2001107	9840.76 ng/ml	100
12) 1,2-Dichlorobenzene	5.23	146	1874974	9875.71 ng/ml	99
13) Benzyl Alcohol	5.19	108	1165443	10129.25 ng/ml	98
14) 2,2'-oxybis(1-chloropropan	5.29	45	2194253	9898.35 ng/ml	100
15) 2-Methylphenol	5.26	107	1410527	10088.14 ng/ml	98
16) Hexachloroethane	5.53	117	795322	10066.92 ng/ml	100
17) N-Nitrosodi-n-propylamine	5.43	70	1240724	10120.85 ng/ml	99
18) 4-Methylphenol	5.40	107	1912450	10065.72 ng/ml	98
20) Nitrobenzene	5.60	77	1836230	10131.13 ng/ml	97
22) Isophorone	5.83	82	3082531	10076.89 ng/ml	98
23) 2-Nitrophenol	5.92	139	965130	9362.47 ng/ml	95
24) 2,4-Dimethylphenol	5.93	122	1539560	10215.74 ng/ml	100
25) Bis(2-chloroethoxy)methane	6.05	93	2024634	10033.66 ng/ml	99
26) 2,4-Dichlorophenol	6.17	162	1388499	10331.02 ng/ml	99
27) Benzoic Acid	6.04	122	798060	12461.32 ng/ml	100
28) 1,2,4-Trichlorobenzene	6.28	180	1541115	10062.59 ng/ml	99
29) Naphthalene	6.40	128	5145013	9984.88 ng/ml	100
31) Hexachlorobutadiene	6.52	225	831458	10013.47 ng/ml	100
32) 4-Chloro-3-methylphenol	7.17	107	1424759	9717.27 ng/ml	100
33) 2-Methylnaphthalene	7.49	141	3037218	10124.82 ng/ml	100
34) 1-Methylnaphthalene	7.69	141	3054254	10098.81 ng/ml	99
36) Hexachlorocyclopentadiene	7.76	237	925638	10163.46 ng/ml	100
37) 2,4,6-Trichlorophenol	8.08	196	956761	10036.16 ng/ml	99
38) 2,4,5-Trichlorophenol	8.15	196	972553	9263.81 ng/ml	98
40) 2-Chloronaphthalene	8.61	162	3035862	10278.25 ng/ml	99
41) 2-Nitroaniline	8.90	65	795740m	9987.95 ng/ml	
42) Acenaphthylene	9.52	152	4669418	10056.65 ng/ml	99
43) Dimethyl Phthalate	9.33	163	3303314	10290.71 ng/ml	99
44) 2,6-Dinitrotoluene	9.45	165	765523	10573.65 ng/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:17:47 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	Acenaphthene	9.86	154	2855199	10127.46 ng/ml	98
47)	2,4-Dinitrophenol	9.97	184	310313	10384.42 ng/ml	98
48)	Dibenzofuran	10.19	168	4354209	10006.70 ng/ml	99
49)	4-Nitrophenol	10.10	109	301440	13220.96 ng/ml	96
50)	2,4-Dinitrotoluene	10.22	165	887714	11309.11 ng/ml	96
51)	2,3,4,6-Tetrachlorophenol	10.40	232	738642	10324.80 ng/ml	98
52)	Fluorene	10.77	166	3298570	10151.39 ng/ml	98
53)	4-Chlorophenyl Phenyl Ethe	10.80	204	1521347	10037.20 ng/ml	98
54)	Diethyl Phthalate	10.66	149	2768943	9842.18 ng/ml	100
55)	4-Nitroaniline	10.88	138	189173m	4704.39 ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.87	198	446070	10962.88 ng/ml	97
57)	Diphenylamine	11.00	169	1682577	8012.36 ng/ml	100
58)	Azobenzene	11.05	77	3346719	10126.83 ng/ml	97
61)	4-Bromophenyl Phenyl Ether	11.53	248	833554	9451.92 ng/ml	96
62)	Hexachlorobenzene	11.56	284	950178	10383.83 ng/ml	97
63)	Pentachlorophenol	11.85	266	519895	10559.27 ng/ml	100
64)	Phenanthrene	12.15	178	3945489	10000.53 ng/ml	99
65)	Anthracene	12.21	178	3823305	9972.54 ng/ml	100
66)	Carbazole	12.45	167	3787026m	12399.78 ng/ml	
67)	Di-n-butyl Phthalate	12.86	149	4568349	9707.23 ng/ml	100
68)	Fluoranthene	13.55	202	3970583	11184.56 ng/ml	99
70)	Pyrene	13.82	202	4052147	10206.22 ng/ml	100
72)	Butyl Benzyl Phthalate	14.68	149	2339347	10244.54 ng/ml	99
73)	3,3'-Dichlorobenzidine	15.62	252	290034m	6804.70 ng/ml	
74)	Benz(a)anthracene	15.63	228	4415186	10540.32 ng/ml	99
75)	Chrysene	15.70	228	4002022	9882.89 ng/ml	100
76)	Bis(2-ethylhexyl) Phthalat	15.68	149	3241273	10448.95 ng/ml	99
78)	Di-n-octyl Phthalate	17.36	149	5327496	10038.60 ng/ml	100
79)	Benzo(b)fluoranthene	18.14	252	4054079	9482.59 ng/ml	99
80)	Benzo(k)fluoranthene	18.19	252	4121029	9867.84 ng/ml	100
81)	Benzo(a)pyrene	18.68	252	3628429	10173.49 ng/ml	99
82)	Indeno(1,2,3-cd)pyrene	20.57	276	2751871	9795.93 ng/ml	99
83)	Dibenz(a,h)anthracene	20.63	278	3345457	10381.37 ng/ml	99
84)	Benzo(g,h,i)perylene	21.08	276	2599395	9954.59 ng/ml	98

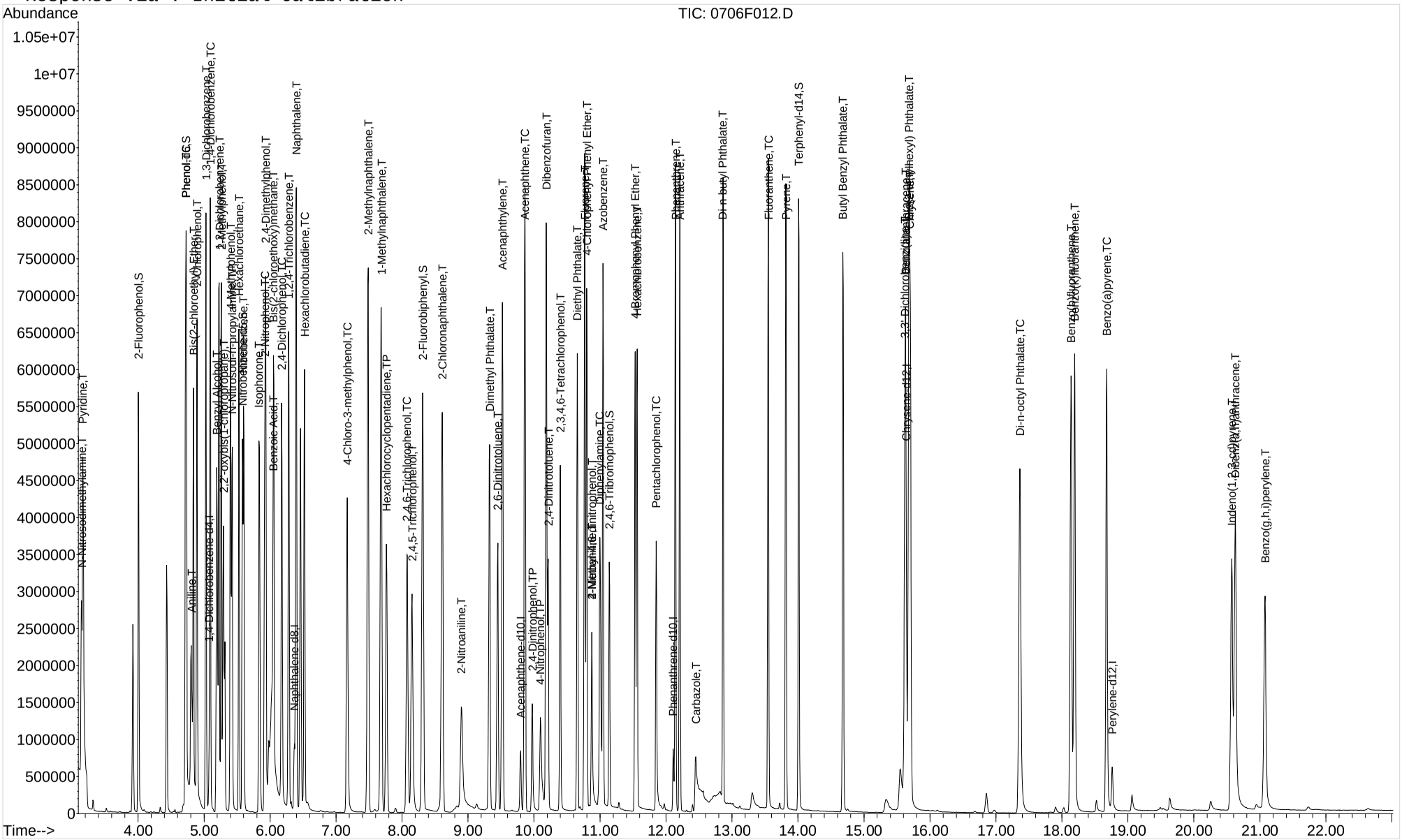
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:30 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

07/14/23
07/18/23
1st
2nd

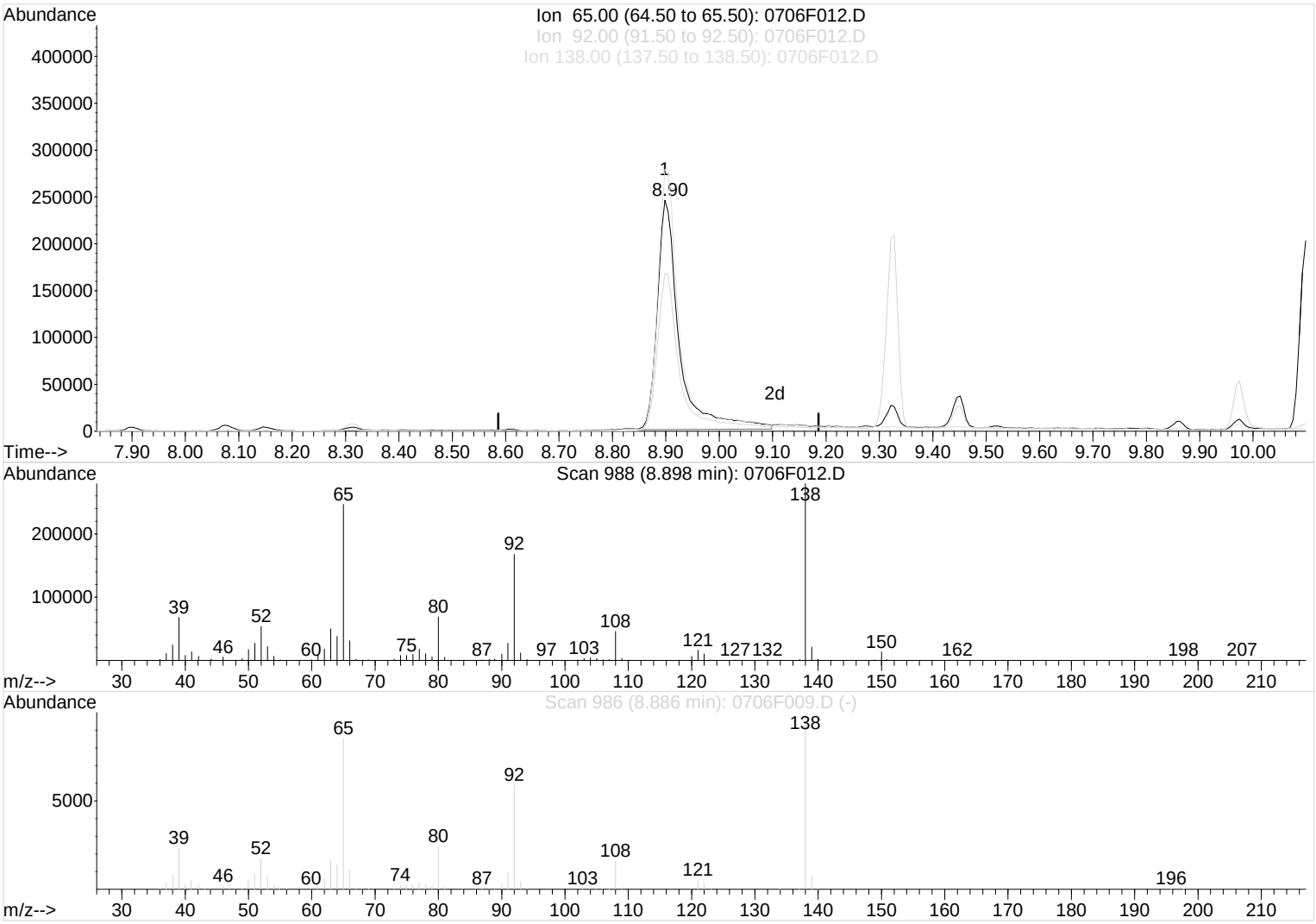


Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:28 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Multiple Level Calibration



TIC: 0706F012.D

(41) 2-Nitroaniline (T)

8.90min 8686.77ng/ml

response 702549

Ion	Exp%	Act%
65.00	100	100
92.00	69.30	67.93
138.00	117.10	114.21
0.00	0.00	0.00

Manual Integration:

Before

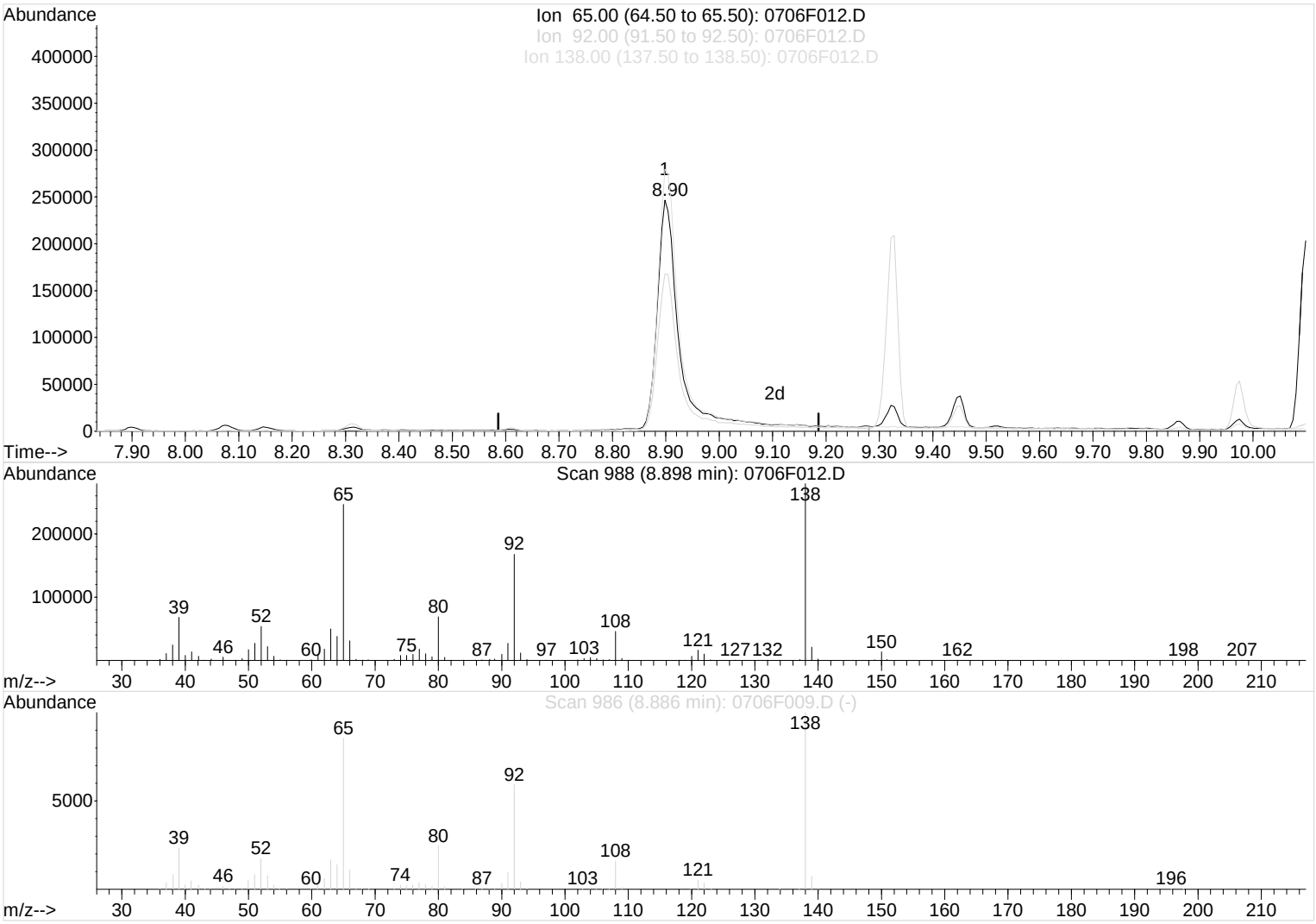
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:29 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Multiple Level Calibration



TIC: 0706F012.D

(41) 2-Nitroaniline (T)

8.90min 9987.95ng/ml m

response 795740

Ion	Exp%	Act%
65.00	100	100
92.00	69.30	68.05
138.00	117.10	113.37
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

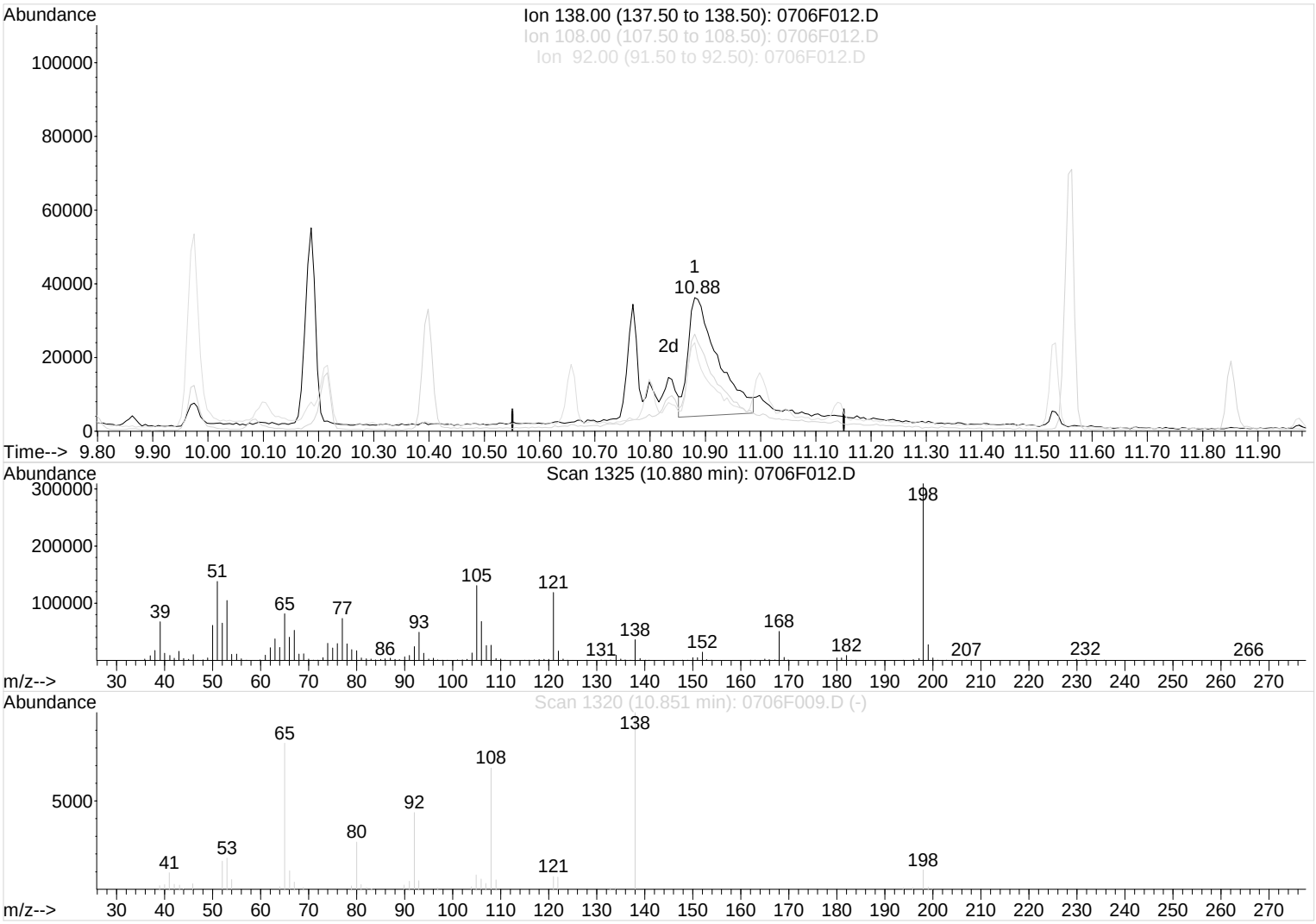
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:29 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Multiple Level Calibration



TIC: 0706F012.D

(55) 4-Nitroaniline (T)

10.88min 2627.55ng/ml

response 120452

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	79.21
92.00	47.20	68.70
0.00	0.00	0.00

Manual Integration:

Before

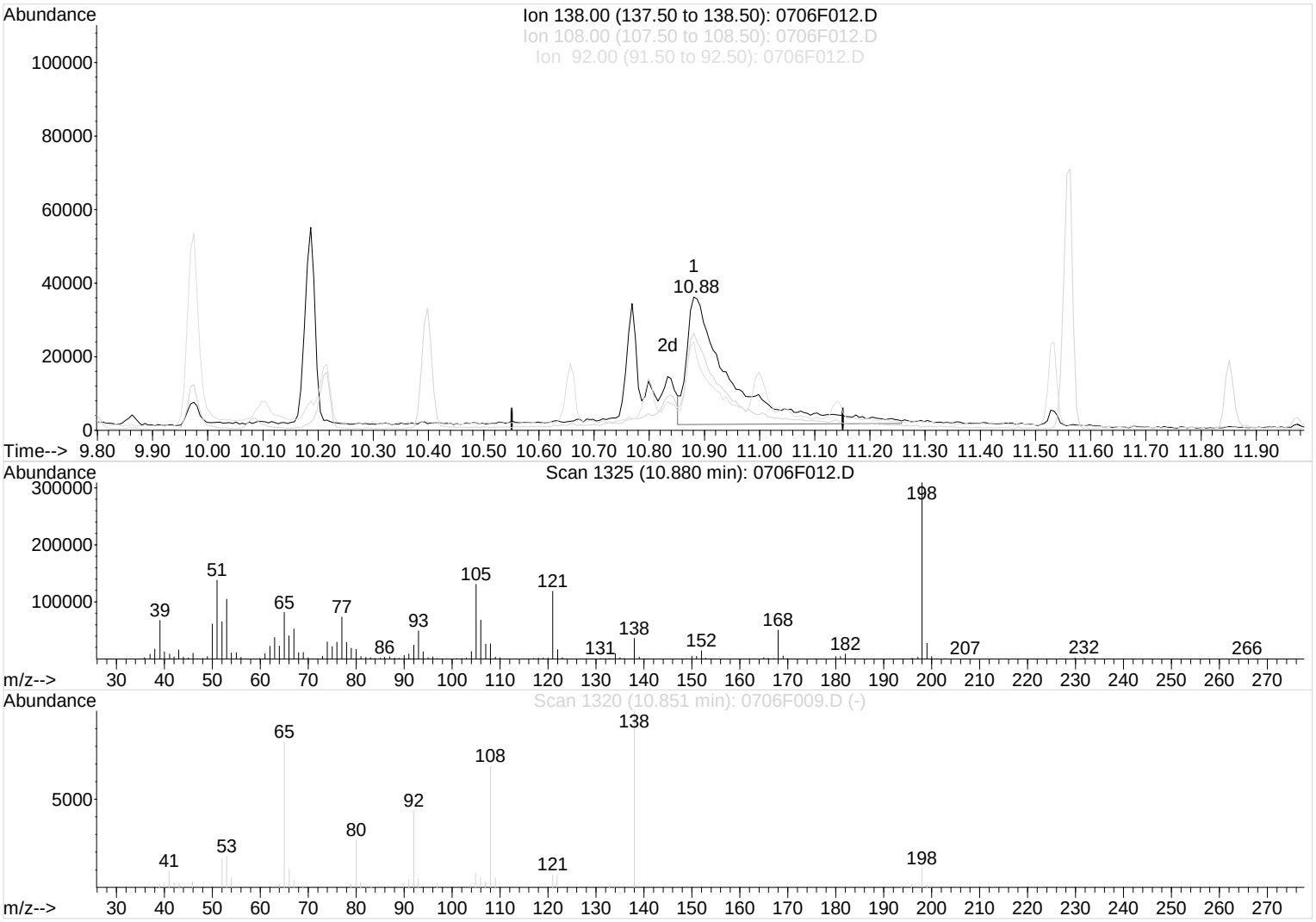
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:29 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Multiple Level Calibration



TIC: 0706F012.D

(55) 4-Nitroaniline (T)

10.88min 4704.39ng/ml m

response 189173

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	72.76
92.00	47.20	66.25
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

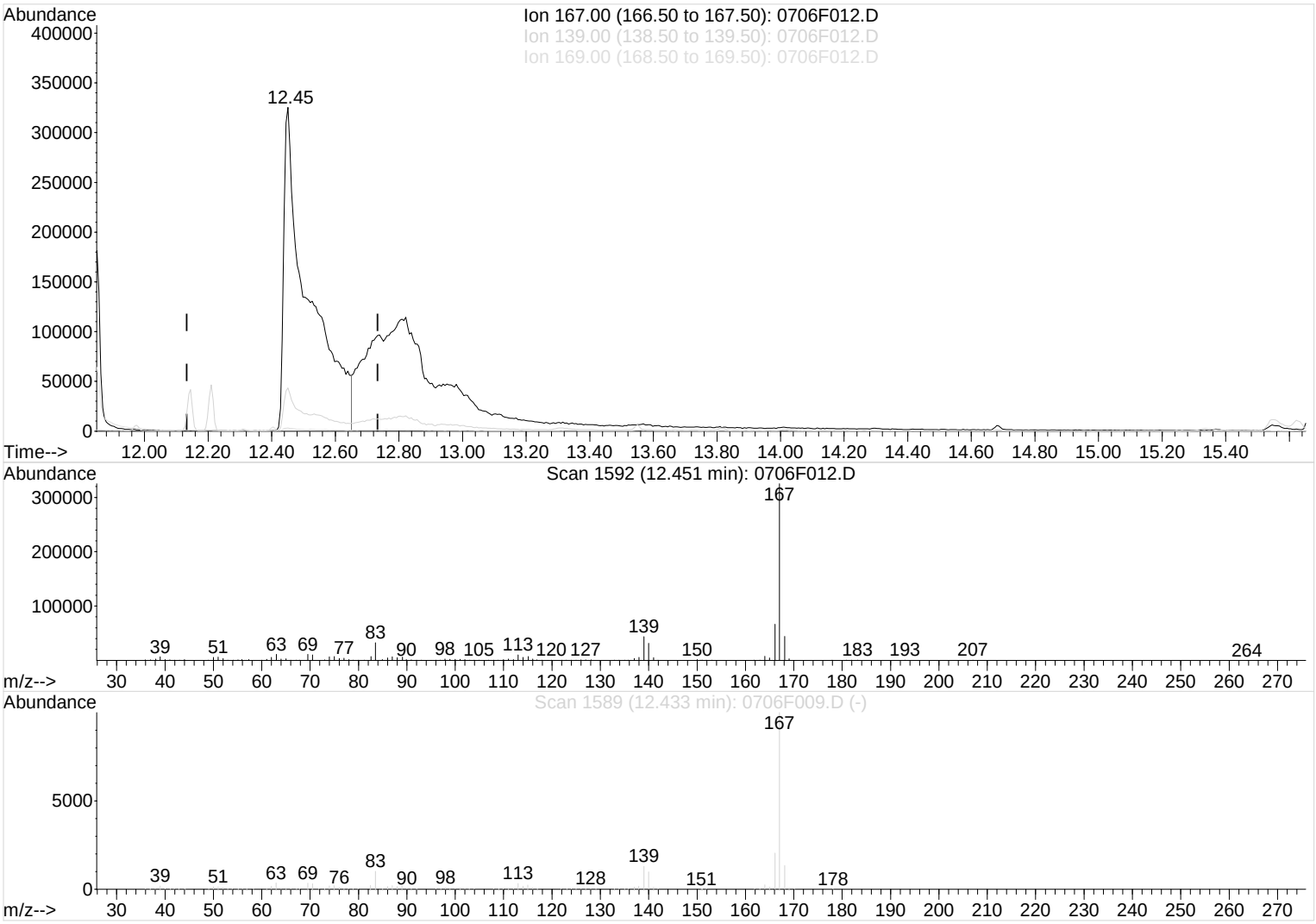
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:29 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Multiple Level Calibration



TIC: 0706F012.D

(66) Carbazole (T)

12.45min 5694.95ng/ml

response 1739299

Ion	Exp%	Act%
167.00	100	100
139.00	12.80	13.22
169.00	0.90	0.86
0.00	0.00	0.00

Manual Integration:

Before

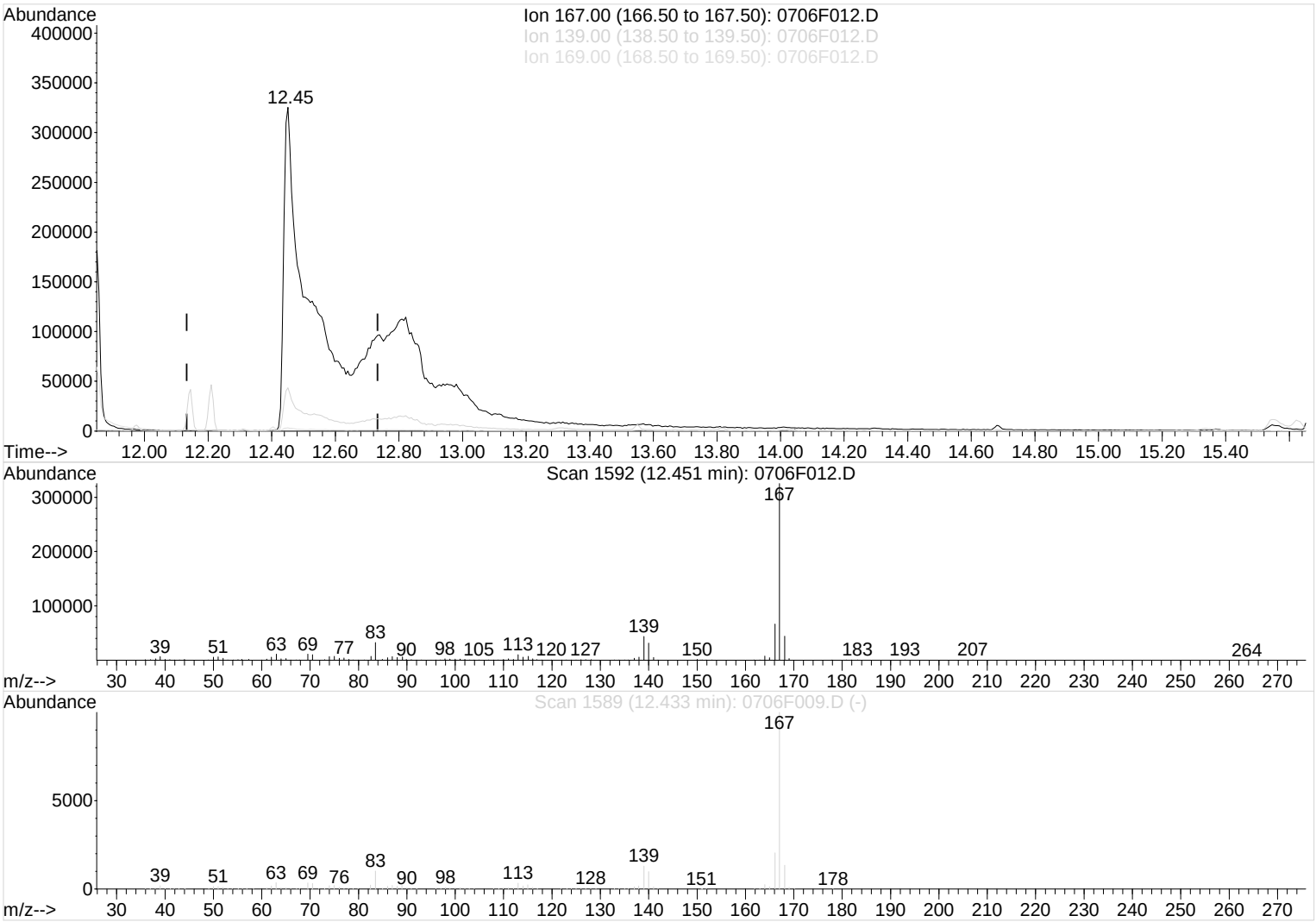
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:30 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Multiple Level Calibration



TIC: 0706F012.D

(66) Carbazole (T)

12.45min 12399.78ng/ml m

response 3787026

Ion	Exp%	Act%
167.00	100	100
139.00	12.80	13.35
169.00	0.90	0.97
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

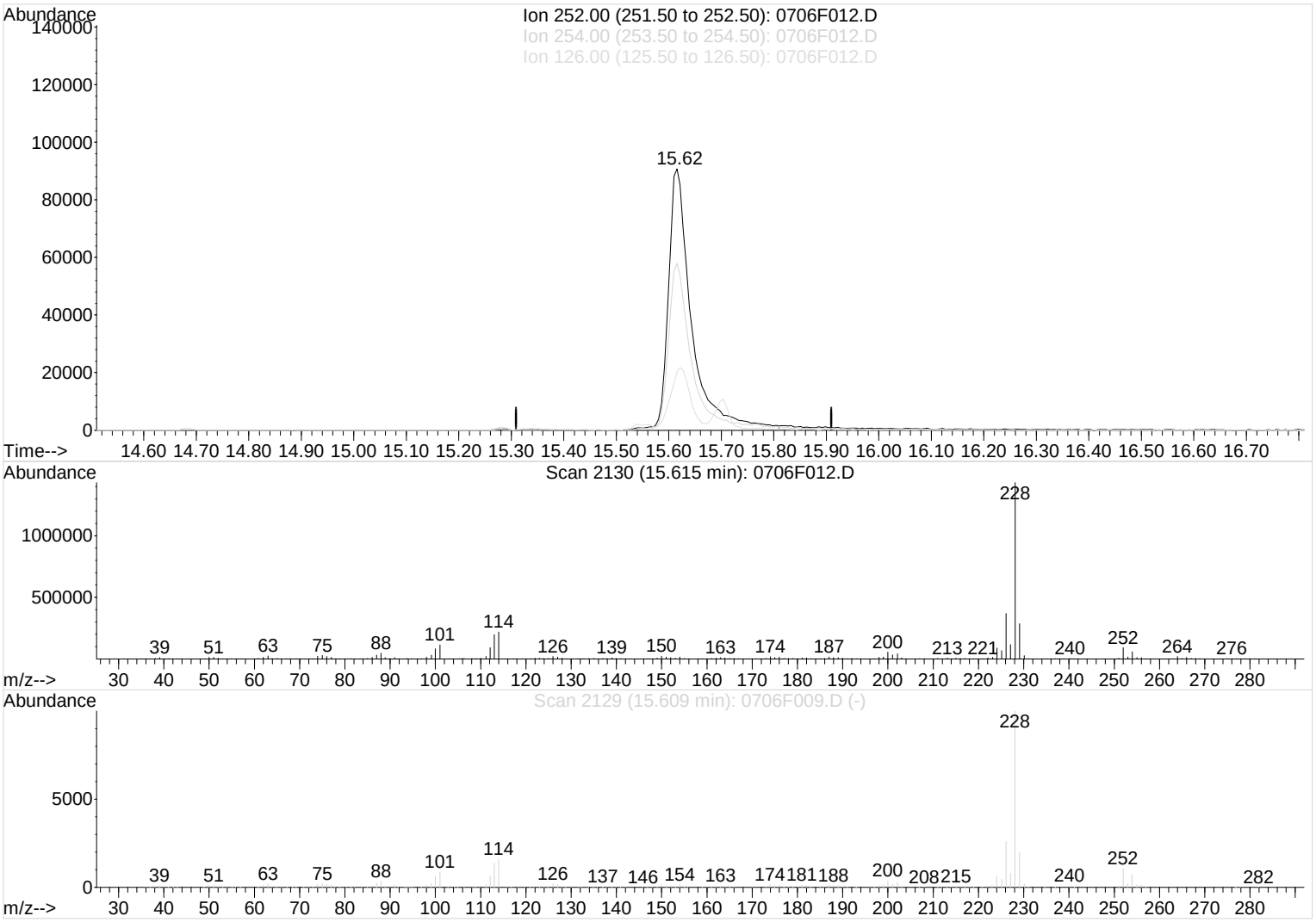
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:30 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Multiple Level Calibration



TIC: 0706F012.D

(73) 3,3'-Dichlorobenzidine (T)

15.62min 6568.58ng/ml

response 279970

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	63.72
126.00	19.10	22.35
0.00	0.00	0.00

Manual Integration:

Before

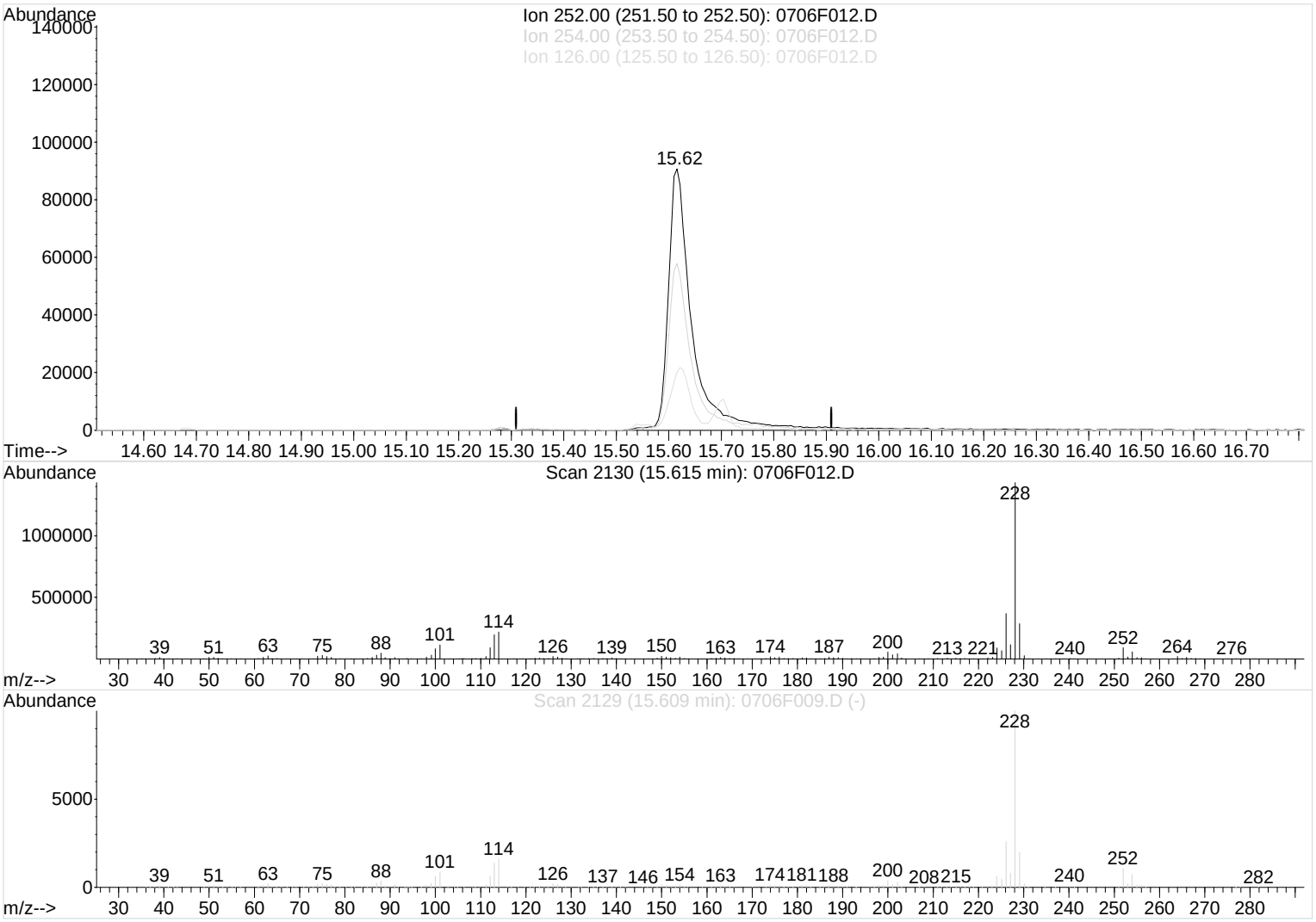
07/11/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F012.D Vial: 11
Acq On : 6 Jul 2023 4:03 pm Operator: CSD
Sample : SVO_LL ICAL 10ppm SVM70-29L Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 12:30 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Tue Jul 11 12:17:30 2023
Response via : Multiple Level Calibration



TIC: 0706F012.D

(73) 3,3'-Dichlorobenzidine (T)

15.62min 6804.70ng/ml m

response 290034

Ion	Exp%	Act%
252.00	100	100
254.00	67.90	63.72
126.00	19.10	22.35
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/11/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F013.D Vial: 12
Acq On : 6 Jul 2023 4:32 pm Operator: CSD
Sample : SVO_LL ICV 3.0ppm SVM70-21C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:15:09 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	181312	1000.00	ng/ml	0.00
21) Naphthalene-d8	6.36	136	714134	1000.00	ng/ml	0.00
35) Acenaphthene-d10	9.80	164	390513	1000.00	ng/ml	0.00
59) Phenanthrene-d10	12.11	188	535076	1000.00	ng/ml	0.00
69) Chrysene-d12	15.64	240	456644	1000.00	ng/ml	0.00
77) Perylene-d12	18.76	264	436634	1000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	618819	2897.12	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 110		Recovery = 77.26%			
6) Phenol-d6	4.72	99	722426	2925.40	ng/ml	0.00
Spiked Amount 3750.000	Range 43 - 128		Recovery = 78.01%			
19) Nitrobenzene-d5	5.58	82	665966	3089.38	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 139		Recovery = 123.58%			
39) 2-Fluorobiphenyl	8.31	172	1352135	2728.97	ng/ml	0.00
Spiked Amount 2500.000	Range 37 - 126		Recovery = 109.16%			
60) 2,4,6-Tribromophenol	11.14	330	160380	3060.95	ng/ml	0.00
Spiked Amount 3750.000	Range 38 - 157		Recovery = 81.63%			
71) Terphenyl-d14	14.01	244	1155588	2432.92	ng/ml	0.00
Spiked Amount 2500.000	Range 54 - 158		Recovery = 97.32%			

Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.14	42	321153	2770.52	ng/ml	98
3) Pyridine	3.17	79	740460	2674.17	ng/ml	96
5) Bis(2-chloroethyl) Ether	4.83	93	732247	2973.22	ng/ml	99
7) Phenol	4.73	94	861164	3176.51	ng/ml	99
8) Aniline	4.80	93	840291	3246.33	ng/ml	99
9) 2-Chlorophenol	4.89	128	715431	3187.38	ng/ml	99
10) 1,3-Dichlorobenzene	5.03	146	782989	2943.75	ng/ml	100
11) 1,4-Dichlorobenzene	5.09	146	752080	2732.17	ng/ml	99
12) 1,2-Dichlorobenzene	5.22	146	761137	2975.55	ng/ml	100
13) Benzyl Alcohol	5.18	108	438734	2959.49	ng/ml	99
14) 2,2'-oxybis(1-chloropropan	5.29	45	1027549	3438.10	ng/ml	99
15) 2-Methylphenol	5.26	107	558914	3239.91	ng/ml	99
16) Hexachloroethane	5.53	117	302621	2960.69	ng/ml	98
17) N-Nitrosodi-n-propylamine	5.42	70	514336	3494.76	ng/ml	99
18) 4-Methylphenol	5.40	107	1364568	6073.74	ng/ml	88
20) Nitrobenzene	5.60	77	725915	3229.66	ng/ml	99
22) Isophorone	5.83	82	1351729	3694.65	ng/ml	100
23) 2-Nitrophenol	5.92	139	496170	3540.44	ng/ml	99
24) 2,4-Dimethylphenol	5.93	122	644640	3377.60	ng/ml	99
25) Bis(2-chloroethoxy)methane	6.05	93	825405	3136.70	ng/ml	100
26) 2,4-Dichlorophenol	6.17	162	540623	3032.30	ng/ml	99
27) Benzoic Acid	5.99	122	228604m	3196.16	ng/ml	
28) 1,2,4-Trichlorobenzene	6.28	180	610758	2914.37	ng/ml	98
29) Naphthalene	6.39	128	2045401	2875.42	ng/ml	100
30) 4-Chloroaniline	6.47	127	459288	3054.73	ng/ml	98
31) Hexachlorobutadiene	6.52	225	347156	3027.29	ng/ml	99
32) 4-Chloro-3-methylphenol	7.16	107	543708	3073.00	ng/ml	99
33) 2-Methylnaphthalene	7.48	141	1108443	2857.64	ng/ml	99
34) 1-Methylnaphthalene	7.68	141	1132551	2831.59	ng/ml	100
36) Hexachlorocyclopentadiene	7.76	237	289754	2714.49	ng/ml	99
37) 2,4,6-Trichlorophenol	8.07	196	359364	2957.74	ng/ml	99
38) 2,4,5-Trichlorophenol	8.15	196	373916	3104.99	ng/ml	98
40) 2-Chloronaphthalene	8.60	162	1194859	2965.42	ng/ml	99
41) 2-Nitroaniline	8.89	65	334891	2930.60	ng/ml	98
42) Acenaphthylene	9.52	152	1872468	3178.55	ng/ml	100
43) Dimethyl Phthalate	9.32	163	1340885	3249.87	ng/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F013.D Vial: 12
Acq On : 6 Jul 2023 4:32 pm Operator: CSD
Sample : SVO_LL ICV 3.0ppm SVM70-21C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:15:09 2023 Quant Results File: 070623_BNALL.RES

Quant Method : J:\MS29\M...\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	2,6-Dinitrotoluene	9.45	165	307057	3256.28	ng/ml	95
45)	Acenaphthene	9.86	154	1180425	2988.51	ng/ml	98
47)	2,4-Dinitrophenol	9.97	184	91276	3552.56	ng/ml	95
48)	Dibenzofuran	10.18	168	1660856	2727.53	ng/ml	98
49)	4-Nitrophenol	10.09	109	109785	3135.67	ng/ml	96
50)	2,4-Dinitrotoluene	10.21	165	361857	3119.55	ng/ml	95
51)	2,3,4,6-Tetrachlorophenol	10.39	232	287237	3090.65	ng/ml	98
52)	Fluorene	10.76	166	1354895	3112.23	ng/ml	98
53)	4-Chlorophenyl Phenyl Ethe	10.80	204	605752	2870.79	ng/ml	99
54)	Diethyl Phthalate	10.65	149	1119249	2902.91	ng/ml	100
55)	4-Nitroaniline	10.86	138	205265m	3403.80	ng/ml	
56)	2-Methyl-4,6-dinitrophenol	10.87	198	135596	3129.83	ng/ml	92
57)	Diphenylamine	10.99	169	1089416	4030.13	ng/ml	100
58)	Azobenzene	11.05	77	1370837	2929.96	ng/ml	100
61)	4-Bromophenyl Phenyl Ether	11.53	248	337677	3159.75	ng/ml	93
62)	Hexachlorobenzene	11.56	284	390664	3049.41	ng/ml	99
63)	Pentachlorophenol	11.85	266	215484	3503.30	ng/ml	99
64)	Phenanthrene	12.14	178	1634835	2856.72	ng/ml	99
65)	Anthracene	12.21	178	1618690	3149.36	ng/ml	100
66)	Carbazole	12.43	167	1279542	3072.32	ng/ml	100
67)	Di-n-butyl Phthalate	12.86	149	1564318	2940.92	ng/ml	100
68)	Fluoranthene	13.54	202	1489132	2964.37	ng/ml	99
70)	Pyrene	13.82	202	1479015	2358.47	ng/ml	100
72)	Butyl Benzyl Phthalate	14.68	149	818238	3038.89	ng/ml	99
73)	3,3'-Dichlorobenzidine	15.61	252	253253	3998.47	ng/ml	93
74)	Benz(a)anthracene	15.62	228	1678619	3365.78	ng/ml	99
75)	Chrysene	15.70	228	1585082	2910.36	ng/ml	99
76)	Bis(2-ethylhexyl) Phthalat	15.68	149	1222477	3036.11	ng/ml	99
78)	Di-n-octyl Phthalate	17.36	149	1805672	3223.00	ng/ml	100
79)	Benzo(b)fluoranthene	18.13	252	1505300	2885.38	ng/ml	100
80)	Benzo(k)fluoranthene	18.19	252	1660620	3258.11	ng/ml	99
81)	Benzo(a)pyrene	18.67	252	1429750	2990.13	ng/ml	99
82)	Indeno(1,2,3-cd)pyrene	20.56	276	976462	3013.60	ng/ml	99
83)	Dibenz(a,h)anthracene	20.62	278	1223504	3051.26	ng/ml	98
84)	Benzo(g,h,i)perylene	21.07	276	1049755	2771.18	ng/ml	99

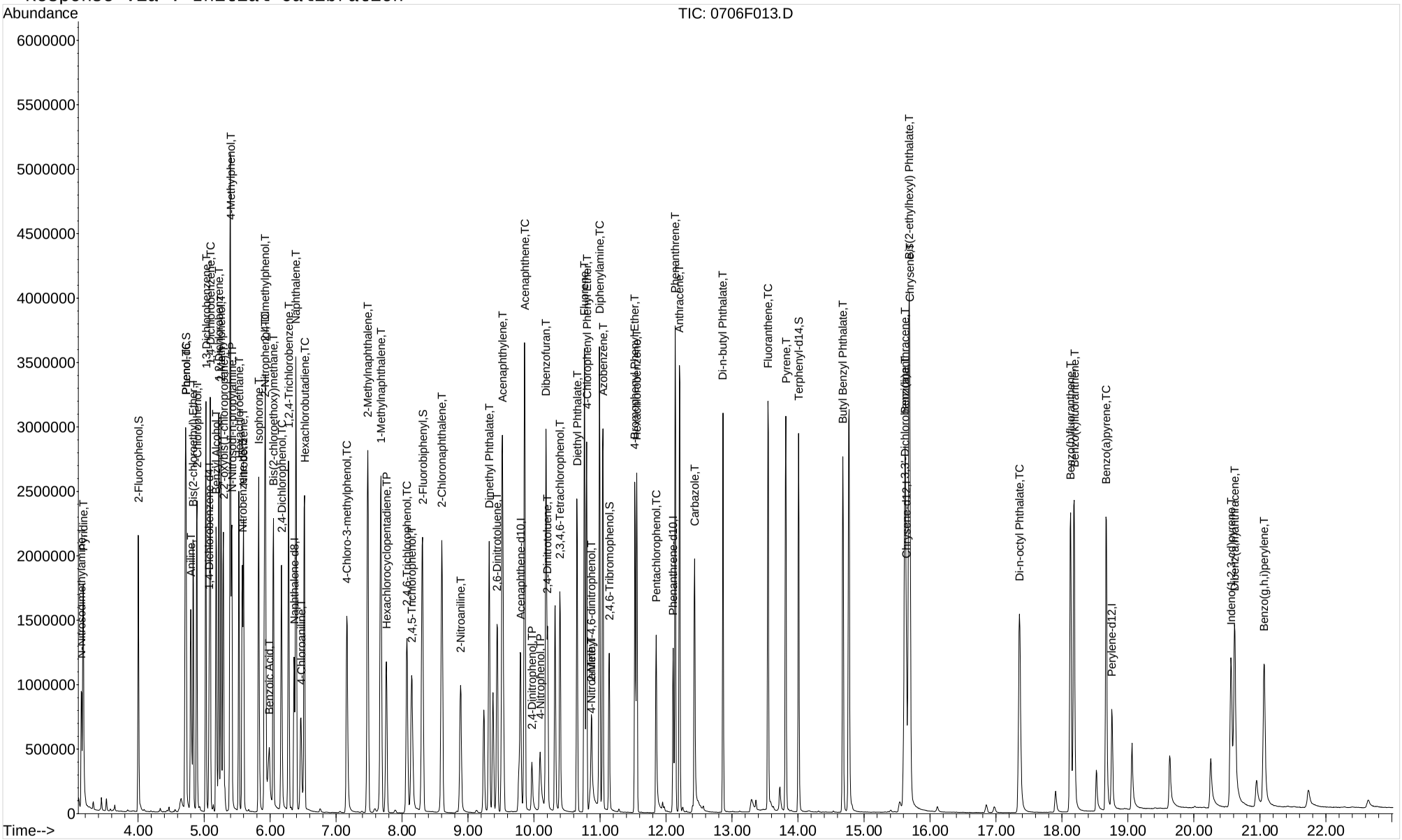
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : J:\MS29\DATA\070623\0706F013.D Vial: 12
Acq On : 6 Jul 2023 4:32 pm Operator: CSD
Sample : SVO_LL ICV 3.0ppm SVM70-21C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:17 2023 Quant Results File: 070623_BNALL.RES

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Initial Calibration

07/14/23 07/18/23 1st 2nd

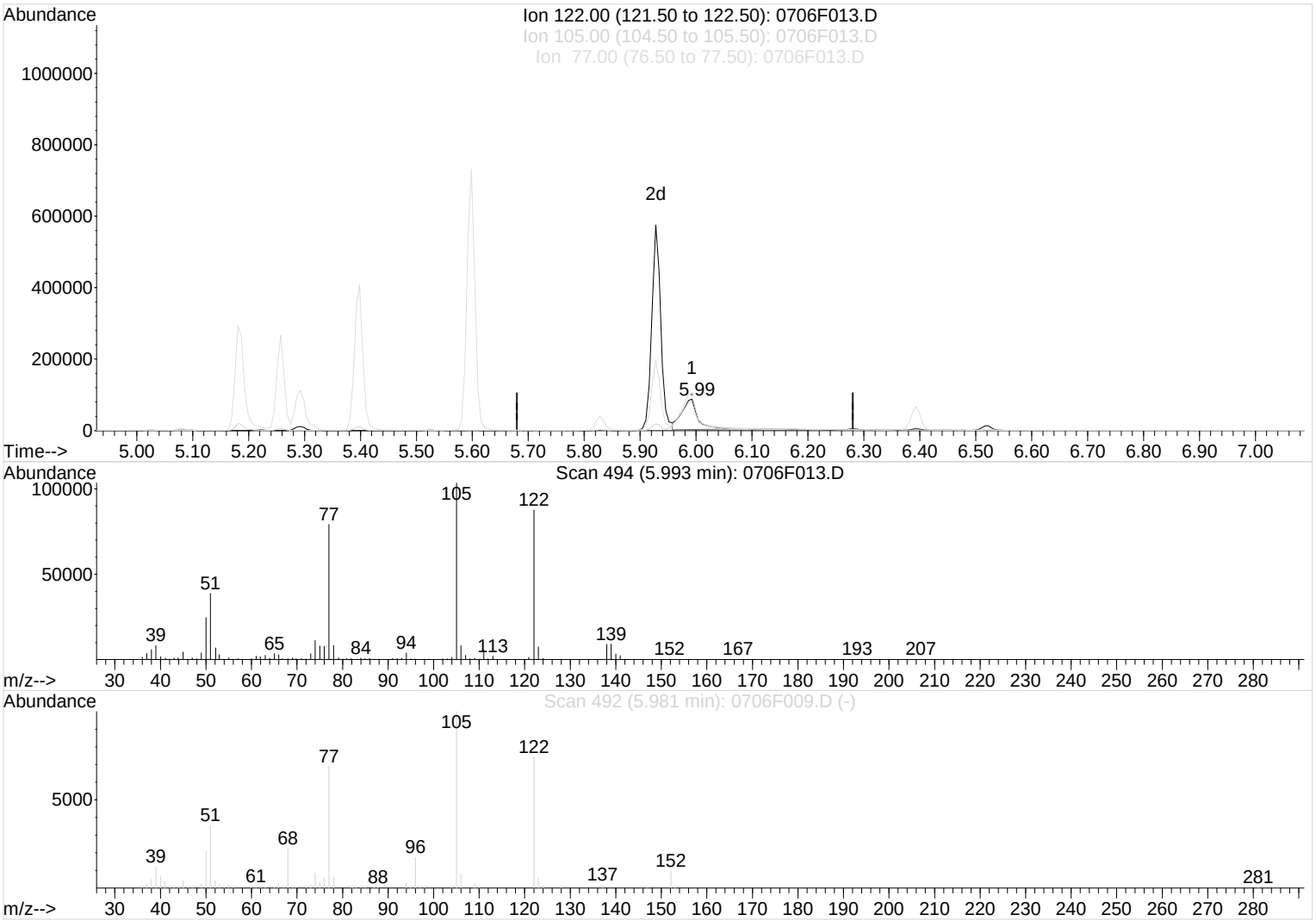


Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F013.D Vial: 12
Acq On : 6 Jul 2023 4:32 pm Operator: CSD
Sample : SVO_LL ICV 3.0ppm SVM70-21C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:15 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Multiple Level Calibration



TIC: 0706F013.D

(27) Benzoic Acid (T)

5.99min 2601.73ng/ml

response 170906

Ion	Exp%	Act%
122.00	100	100
105.00	118.90	117.60
77.00	91.30	89.62
0.00	0.00	0.00

Manual Integration:

Before

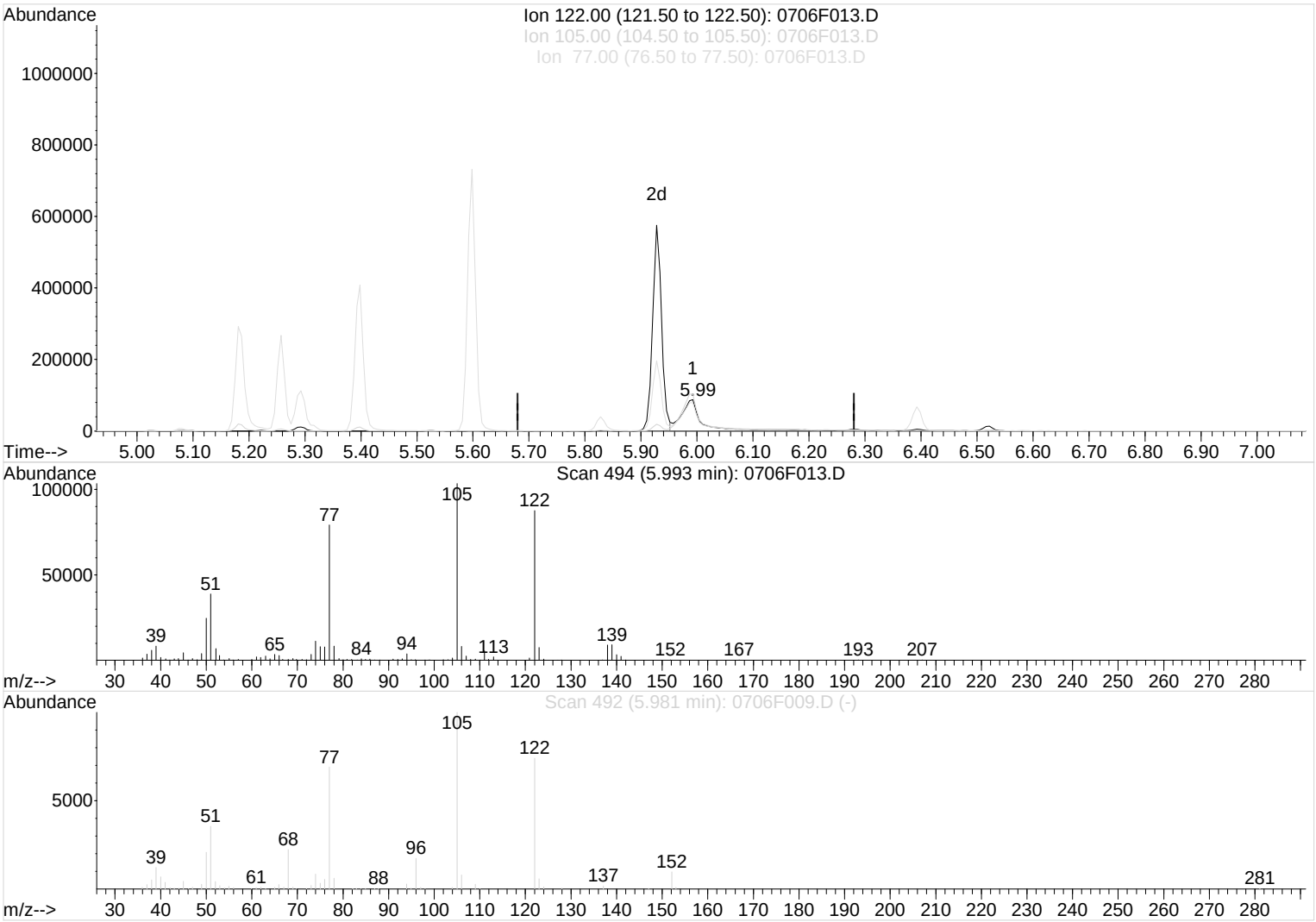
07/14/23

Quantitation Report (Qedit)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F013.D Vial: 12
Acq On : 6 Jul 2023 4:32 pm Operator: CSD
Sample : SVO_LL ICV 3.0ppm SVM70-21C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Multiple Level Calibration



TIC: 0706F013.D

(27) Benzoic Acid (T)

5.99min 3196.16ng/ml m

response 228604

Ion	Exp%	Act%
122.00	100	100
105.00	118.90	118.20
77.00	91.30	90.38
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

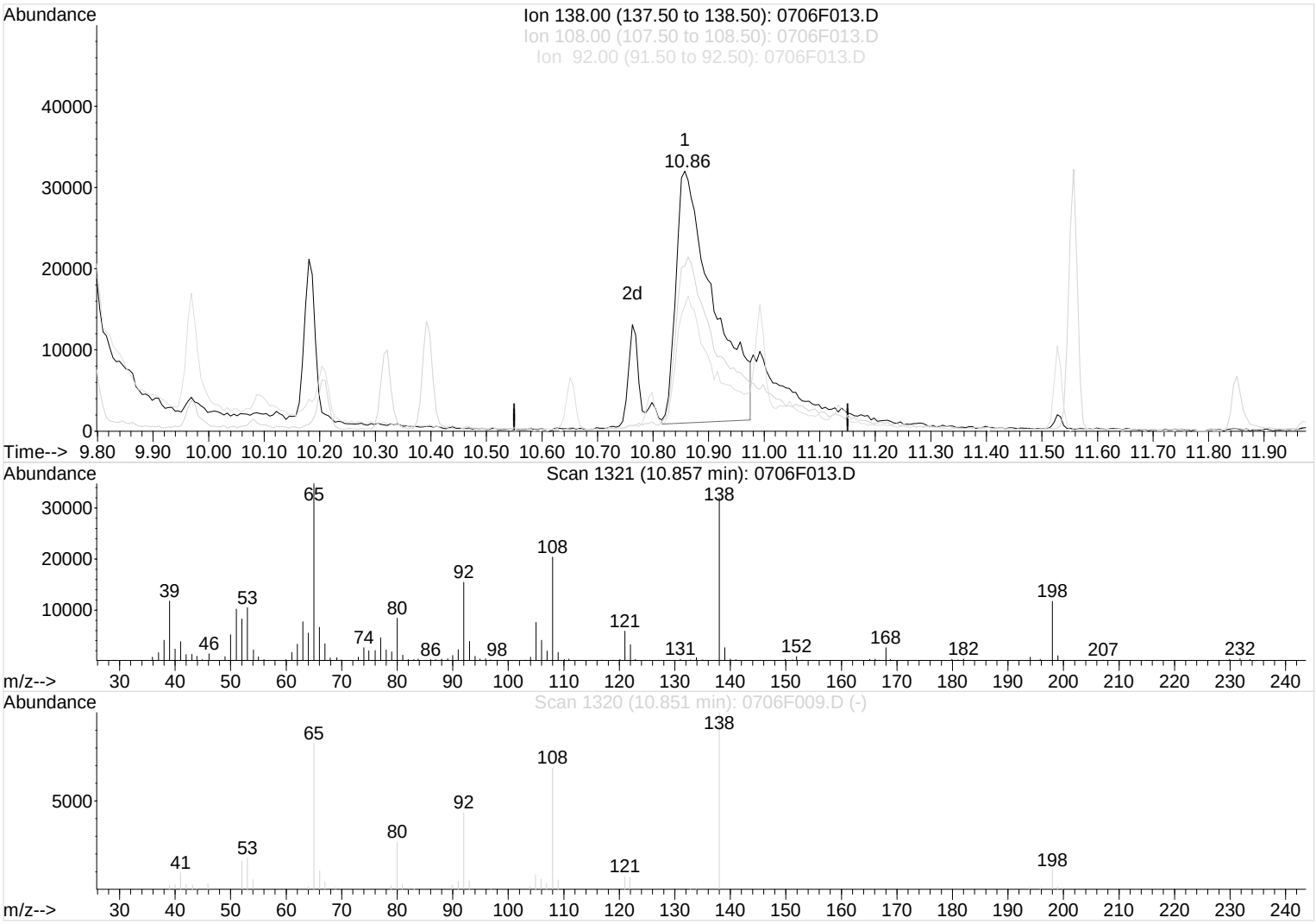
07/14/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F013.D Vial: 12
Acq On : 6 Jul 2023 4:32 pm Operator: CSD
Sample : SVO_LL ICV 3.0ppm SVM70-21C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Multiple Level Calibration



TIC: 0706F013.D

(55) 4-Nitroaniline (T)

10.86min 2288.49ng/ml

response 145118

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	62.59
92.00	47.20	47.43
0.00	0.00	0.00

Manual Integration:

Before

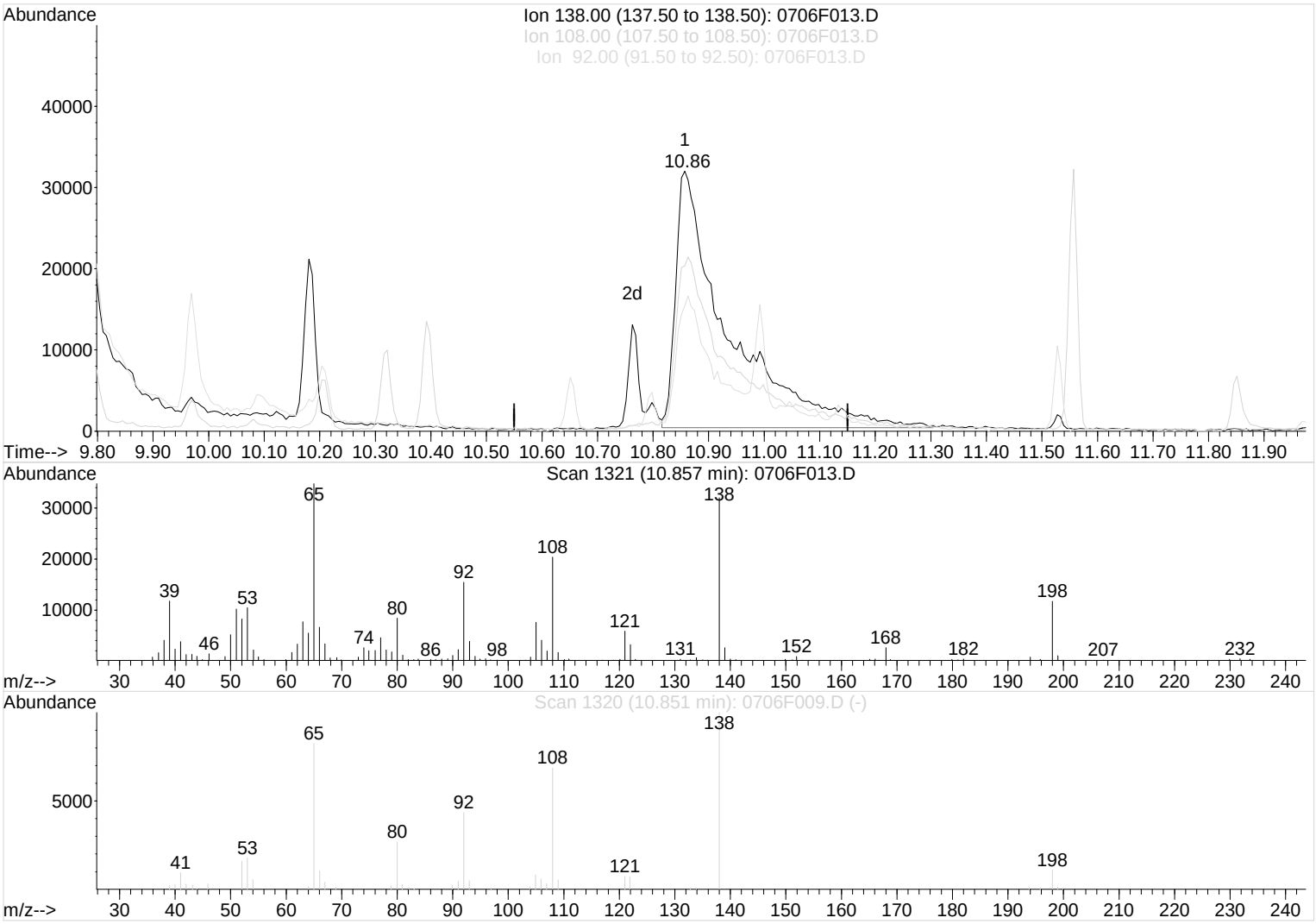
07/14/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F013.D Vial: 12
Acq On : 6 Jul 2023 4:32 pm Operator: CSD
Sample : SVO_LL ICV 3.0ppm SVM70-21C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:17 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BNALL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 11:41:30 2023
Response via : Multiple Level Calibration



TIC: 0706F013.D

(55) 4-Nitroaniline (T)

10.86min 3403.80ng/ml m

response 205265

Ion	Exp%	Act%
138.00	100	100
108.00	70.50	63.55
92.00	47.20	48.28
0.00	0.00	0.00

Manual Integration:

After

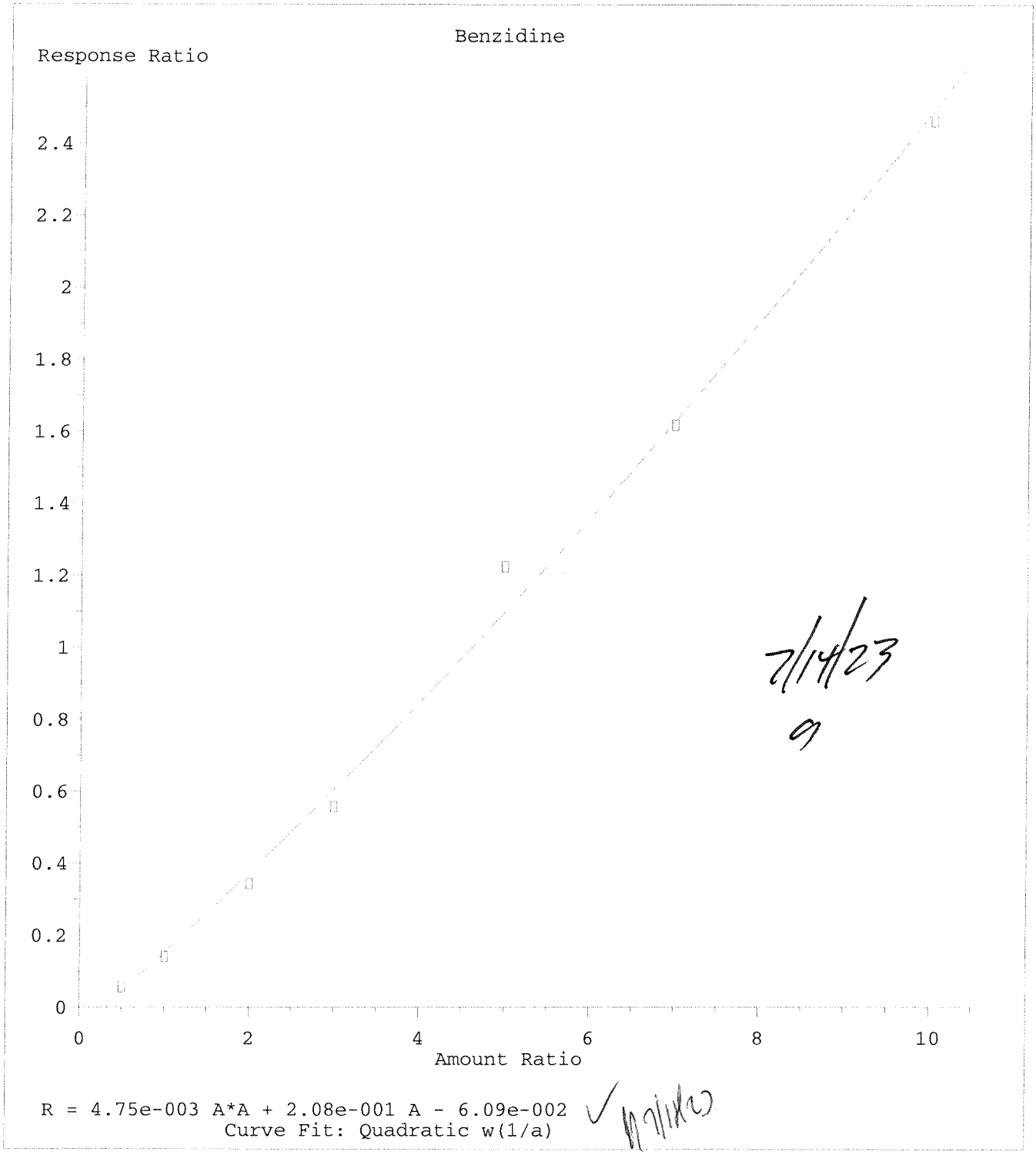
Baseline correction

07/14/23

Injection Log

Directory: J:\MS29\DATA\070623

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0706f001.d	1.	TUNE SVM70-19C		6 Jul 2023 10:53
2	141	0706f002.d	1.	IB		6 Jul 2023 11:20
3	2	0706f003.d	1.	SVO_LL ICAL 0.05ppm SVM70-38C		6 Jul 2023 11:48
4	3	0706f004.d	1.	SVO_LL ICAL 0.1ppm SVM70...		6 Jul 2023 12:17
5	4	0706f005.d	1.	SVO_LL ICAL 0.2ppm SVM70...		6 Jul 2023 12:45
6	5	0706f006.d	1.	SVO_LL ICAL 0.5ppm SVM70...		6 Jul 2023 13:13
7	6	0706f007.d	1.	SVO_LL ICAL 1.0ppm SVM70...		6 Jul 2023 13:41
8	7	0706f008.d	1.	SVO_LL ICAL 2.0ppm SVM70...		6 Jul 2023 14:10
9	8	0706f009.d	1.	SVO_LL ICAL 3.0ppm SVM70...		6 Jul 2023 14:38
10	9	0706f010.d	1.	SVO_LL ICAL 5.0ppm SVM70...		6 Jul 2023 15:06
11	10	0706f011.d	1.	SVO_LL ICAL 7.0ppm SVM70...		6 Jul 2023 15:35
12	11	0706f012.d	1.	SVO_LL ICAL 10ppm SVM70...		6 Jul 2023 16:03
13	12	0706f013.d	1.	SVO_LL ICV 3.0ppm SVM7...		6 Jul 2023 16:32
14	141	0706f014.d	1.	IB		6 Jul 2023 17:00
15	21	0706f015.d	1.	Benzidine LL ICAL 0.20ppm ...	KC 2300423	6 Jul 2023 17:29
16	22	0706f016.d	1.	Benzidine LL ICAL 0.50ppm ...		6 Jul 2023 17:57
17	23	0706f017.d	1.	Benzidine LL ICAL 1.0ppm ...	7/14/23	6 Jul 2023 18:25
18	24	0706f018.d	1.	Benzidine LL ICAL 2.0ppm ...		6 Jul 2023 18:54
19	25	0706f019.d	1.	Benzidine LL ICAL 3.0ppm ...		6 Jul 2023 19:22
20	26	0706f020.d	1.	Benzidine LL ICAL 5.0ppm ...		6 Jul 2023 19:51
21	27	0706f021.d	1.	Benzidine LL ICAL 7.0ppm ...	D	6 Jul 2023 20:19
22	28	0706f022.d	1.	Benzidine LL ICAL 10ppm ...		6 Jul 2023 20:47
23	29	0706f023.d	1.	Benzidine LL ICV 5.0ppm ...	7/18/23	6 Jul 2023 21:15
24	1	0706f024.d	1.	TUNE SVM70-19C		6 Jul 2023 22:12
25	141	0706f025.d	1.	IB		6 Jul 2023 22:40
26	31	0706f026.d	1.	CLP LL ICAL 0.10ppm SVM68-85A		6 Jul 2023 23:08
27	32	0706f027.d	1.	CLP LL ICAL 0.20ppm SVM68-85B		6 Jul 2023 23:36
28	33	0706f028.d	1.	CLP LL ICAL 0.50ppm SVM68-85C		7 Jul 2023 00:04
29	34	0706f029.d	1.	CLP LL ICAL 1.0ppm SVM68...		7 Jul 2023 00:32
30	35	0706f030.d	1.	CLP LL ICAL 2.0ppm SVM68...		7 Jul 2023 01:00
31	36	0706f031.d	1.	CLP LL ICAL 3.0ppm SVM68...		7 Jul 2023 01:28
32	37	0706f032.d	1.	CLP LL ICAL 5.0ppm SVM68...		7 Jul 2023 01:56
33	38	0706f033.d	1.	CLP LL ICAL 7.0ppm SVM68...		7 Jul 2023 02:24
34	39	0706f034.d	1.	CLP LL ICV 3.0ppm SVM6...		7 Jul 2023 02:52
35	131	0706f090.d	1.	DCM		6 Jul 2023 21:44



Method Name: J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M
Calibration Table Last Updated: Fri Jul 14 13:12:59 2023

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F016.D Vial: 22
Acq On : 6 Jul 2023 5:57 pm Operator: CSD
Sample : Benzidine LL ICAL 0.50ppm SVM69-48C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:12:22 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:12 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.64	240	280686	1000.00	ng/ml	0.00
Target Compounds						Qvalue
2) Benzidine	13.74	184	15704m	405.01	ng/ml	

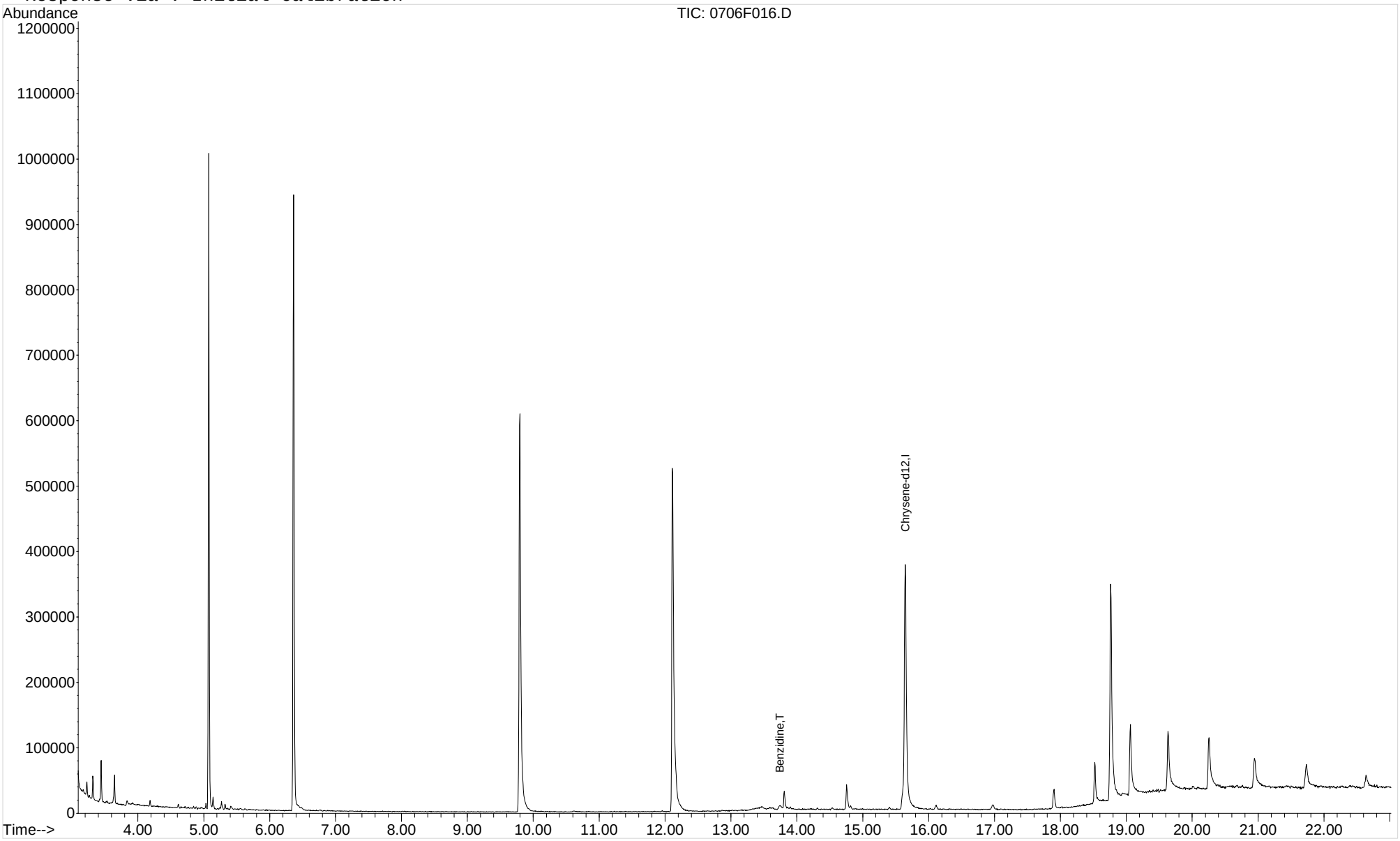
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F016.D Vial: 22
Acq On : 6 Jul 2023 5:57 pm Operator: CSD
Sample : Benzidine LL ICAL 0.50ppm SVM69-48C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:12 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:59 2023
Response via : Initial Calibration

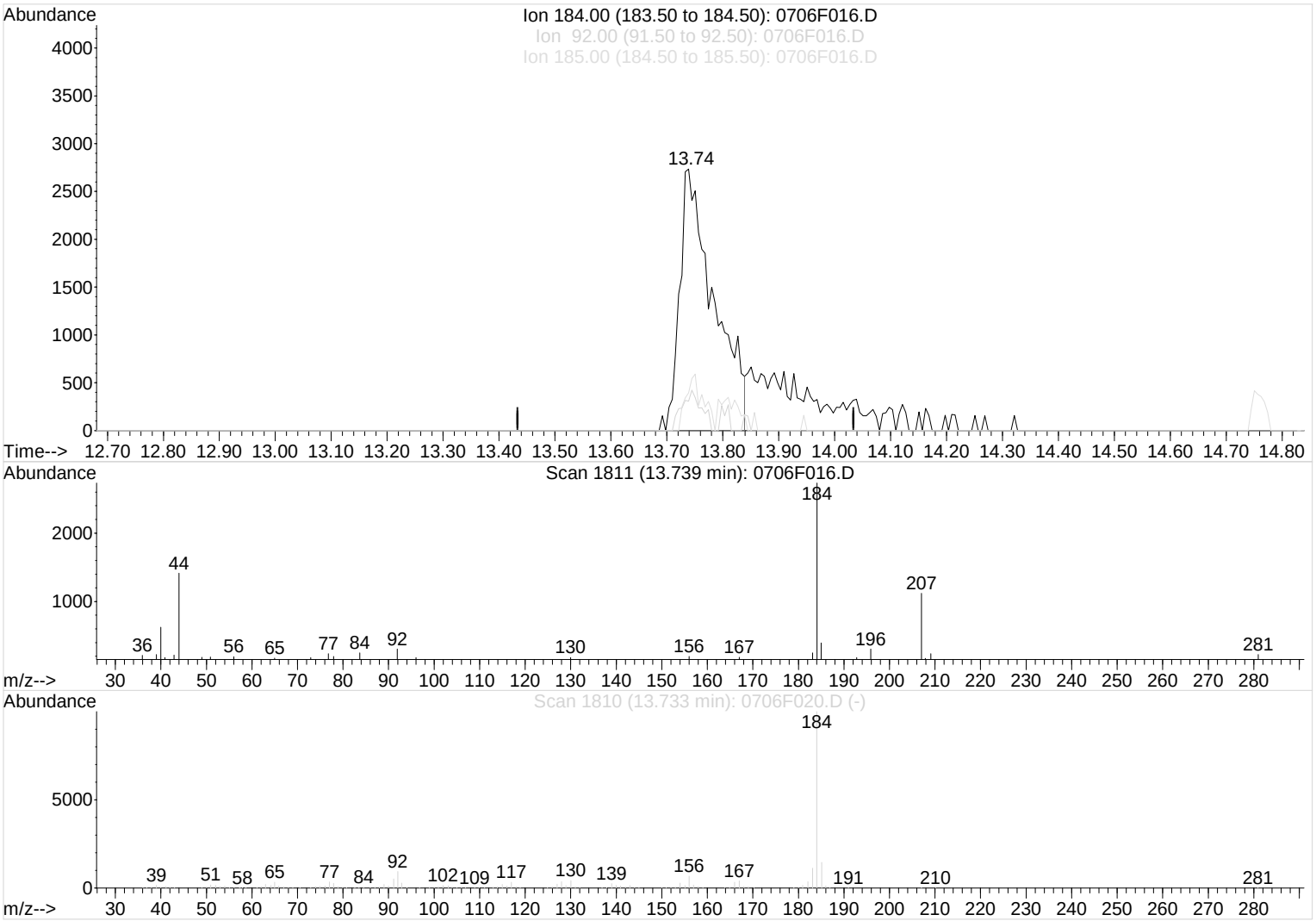


Quantitation Report (Qedit)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F016.D Vial: 22
Acq On : 6 Jul 2023 5:57 pm Operator: CSD
Sample : Benzidine LL ICAL 0.50ppm SVM69-48C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:12 2023
Response via : Multiple Level Calibration



TIC: 0706F016.D

(2) Benzidine (T)

13.74min 329.26ng/ml

response 11600

Ion	Exp%	Act%
184.00	100	100
92.00	9.40	11.27
185.00	14.50	14.41
0.00	0.00	0.00

Manual Integration:

Before

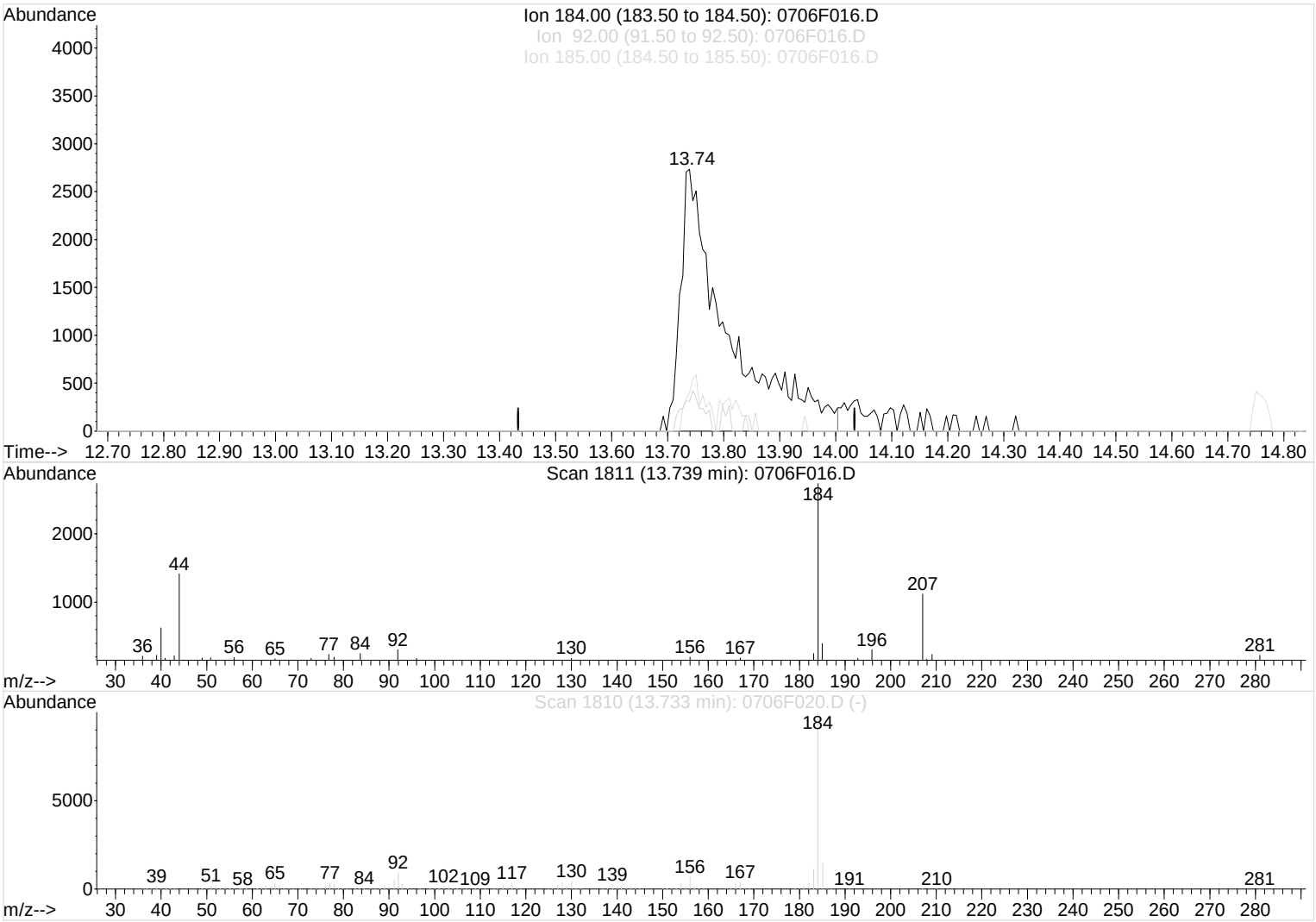
07/14/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F016.D Vial: 22
Acq On : 6 Jul 2023 5:57 pm Operator: CSD
Sample : Benzidine LL ICAL 0.50ppm SVM69-48C Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:12 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:12 2023
Response via : Multiple Level Calibration



TIC: 0706F016.D

(2) Benzidine (T)

13.74min 405.01ng/ml m

response 15704

Ion	Exp%	Act%
184.00	100	100
92.00	9.40	11.27
185.00	14.50	14.41
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/14/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F017.D Vial: 23
Acq On : 6 Jul 2023 6:25 pm Operator: CSD
Sample : Benzidine LL ICAL 1.0ppm SVM69-48D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:11:44 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:11:33 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.64	240	295845	1000.00	ng/ml	0.00
Target Compounds						Qvalue
2) Benzidine	13.74	184	41784m	714.96	ng/ml	

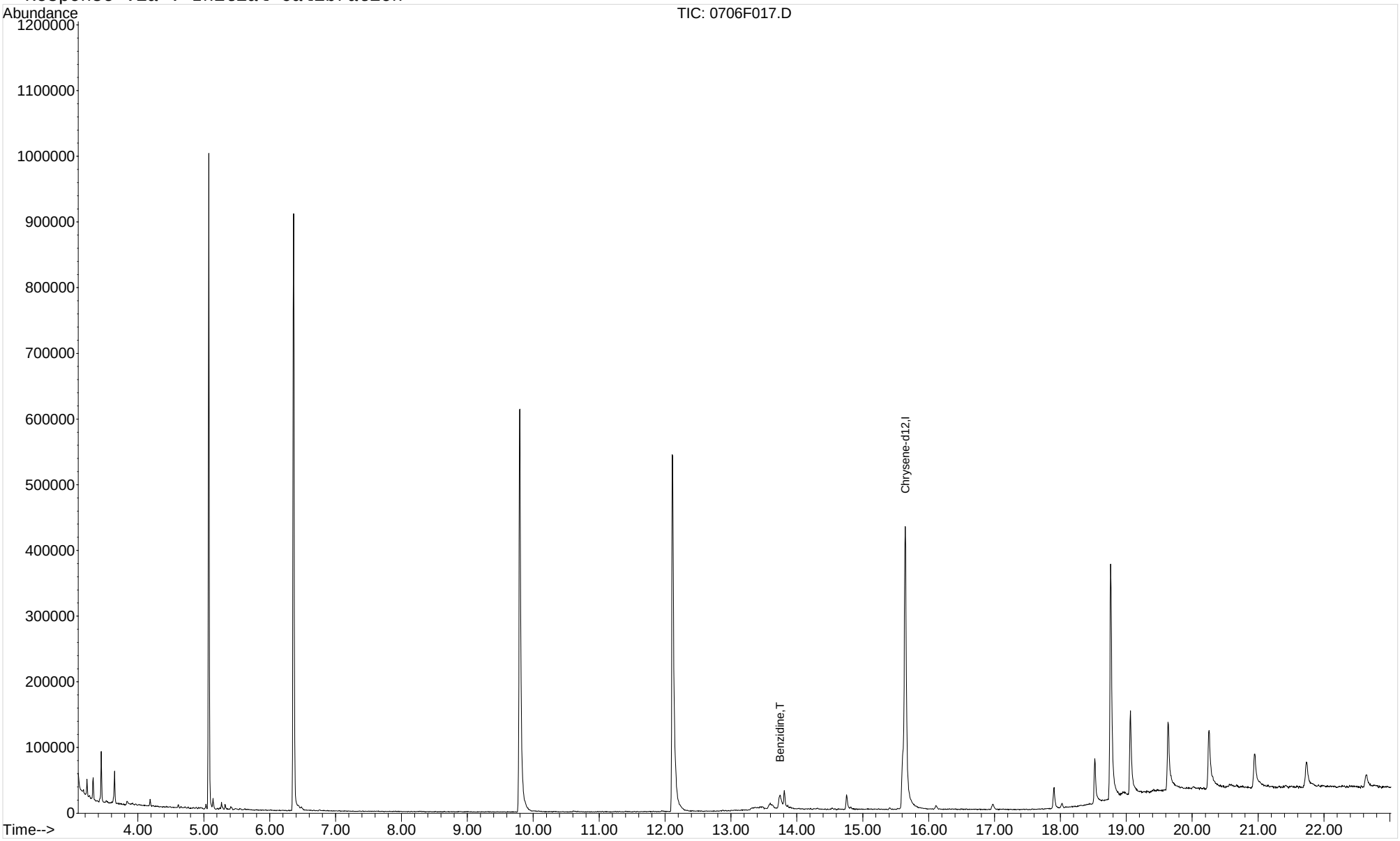
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F017.D Vial: 23
Acq On : 6 Jul 2023 6:25 pm Operator: CSD
Sample : Benzidine LL ICAL 1.0ppm SVM69-48D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:11 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:59 2023
Response via : Initial Calibration

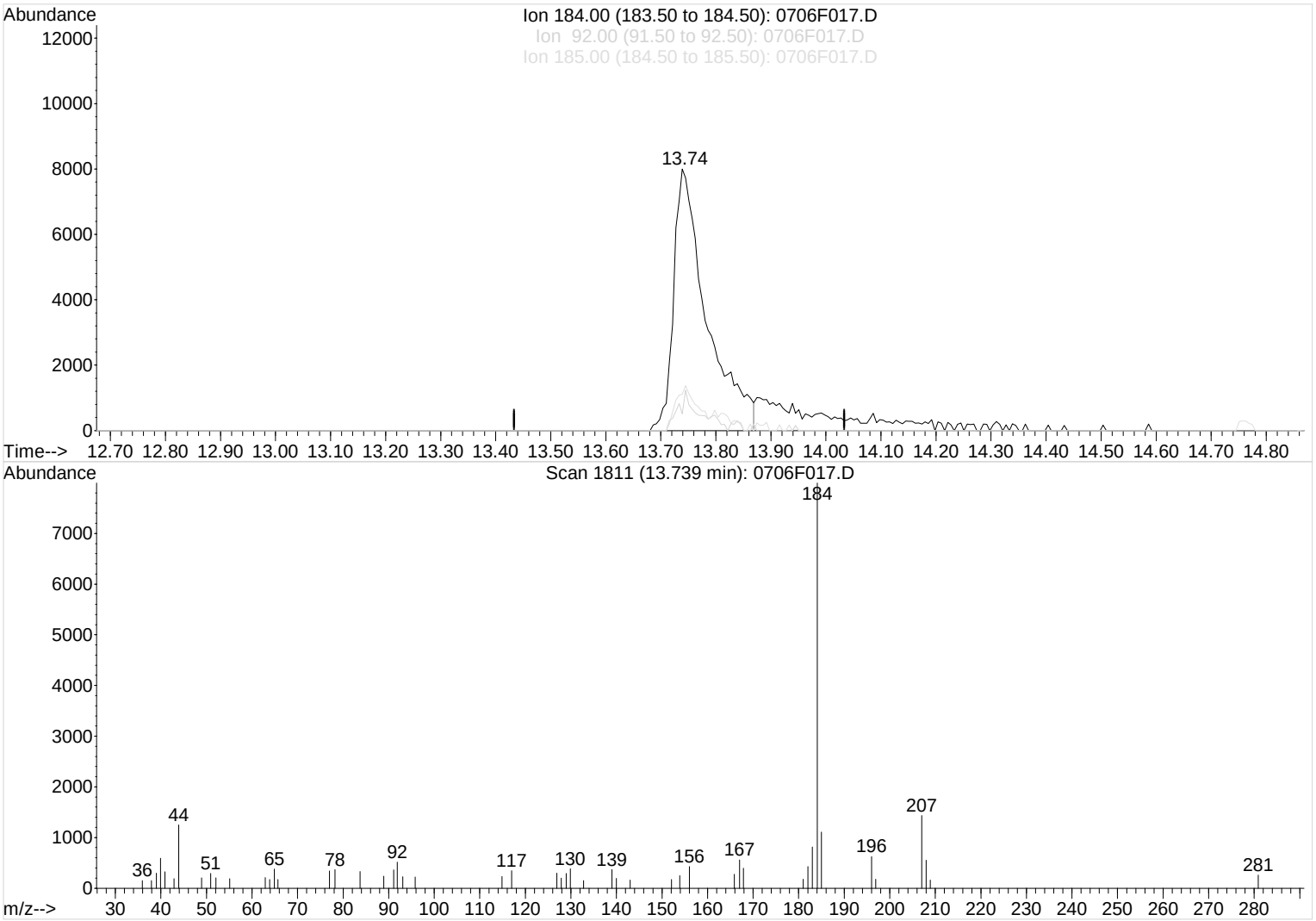


Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F017.D Vial: 23
Acq On : 6 Jul 2023 6:25 pm Operator: CSD
Sample : Benzidine LL ICAL 1.0ppm SVM69-48D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:11 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:11:33 2023
Response via : Multiple Level Calibration



TIC: 0706F017.D

(2) Benzidine (T)

13.74min 563.88ng/ml

response 33075

Ion	Exp%	Act%
184.00	100	100
92.00	9.40	6.41
185.00	14.50	13.83
0.00	0.00	0.00

Manual Integration:

Before

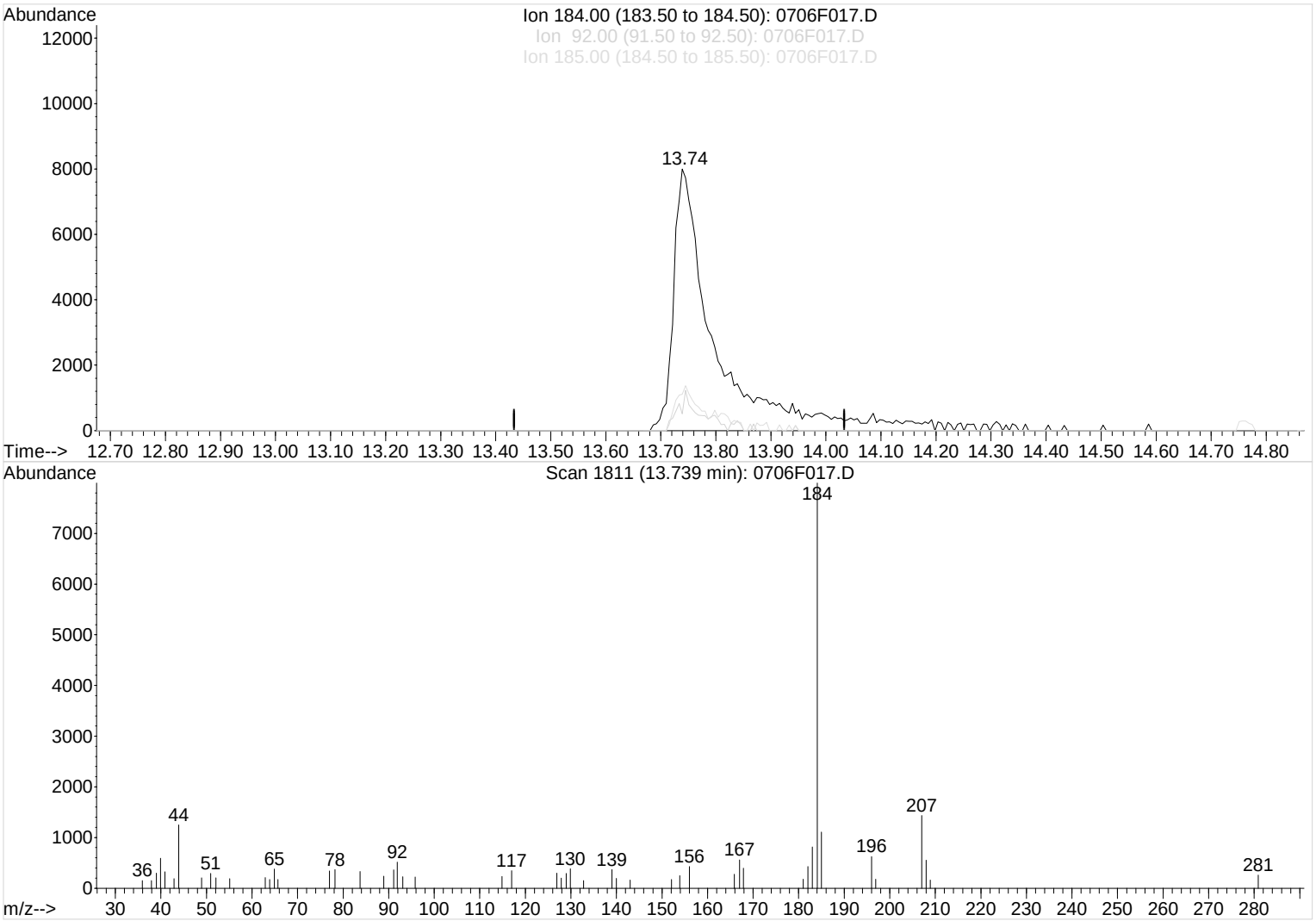
07/14/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F017.D Vial: 23
Acq On : 6 Jul 2023 6:25 pm Operator: CSD
Sample : Benzidine LL ICAL 1.0ppm SVM69-48D Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:11 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:11:33 2023
Response via : Multiple Level Calibration



TIC: 0706F017.D

(2) Benzidine (T)

13.74min 714.96ng/ml m

response 41784

Ion	Exp%	Act%
184.00	100	100
92.00	9.40	6.41
185.00	14.50	13.83
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/14/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F018.D Vial: 24
Acq On : 6 Jul 2023 6:54 pm Operator: CSD
Sample : Benzidine LL ICAL 2.0ppm SVM69-48E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:10:31 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:10:20 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.64	240	332931	1000.00	ng/ml	0.00
Target Compounds						Qvalue
2) Benzidine	13.74	184	114107m	1487.87	ng/ml	

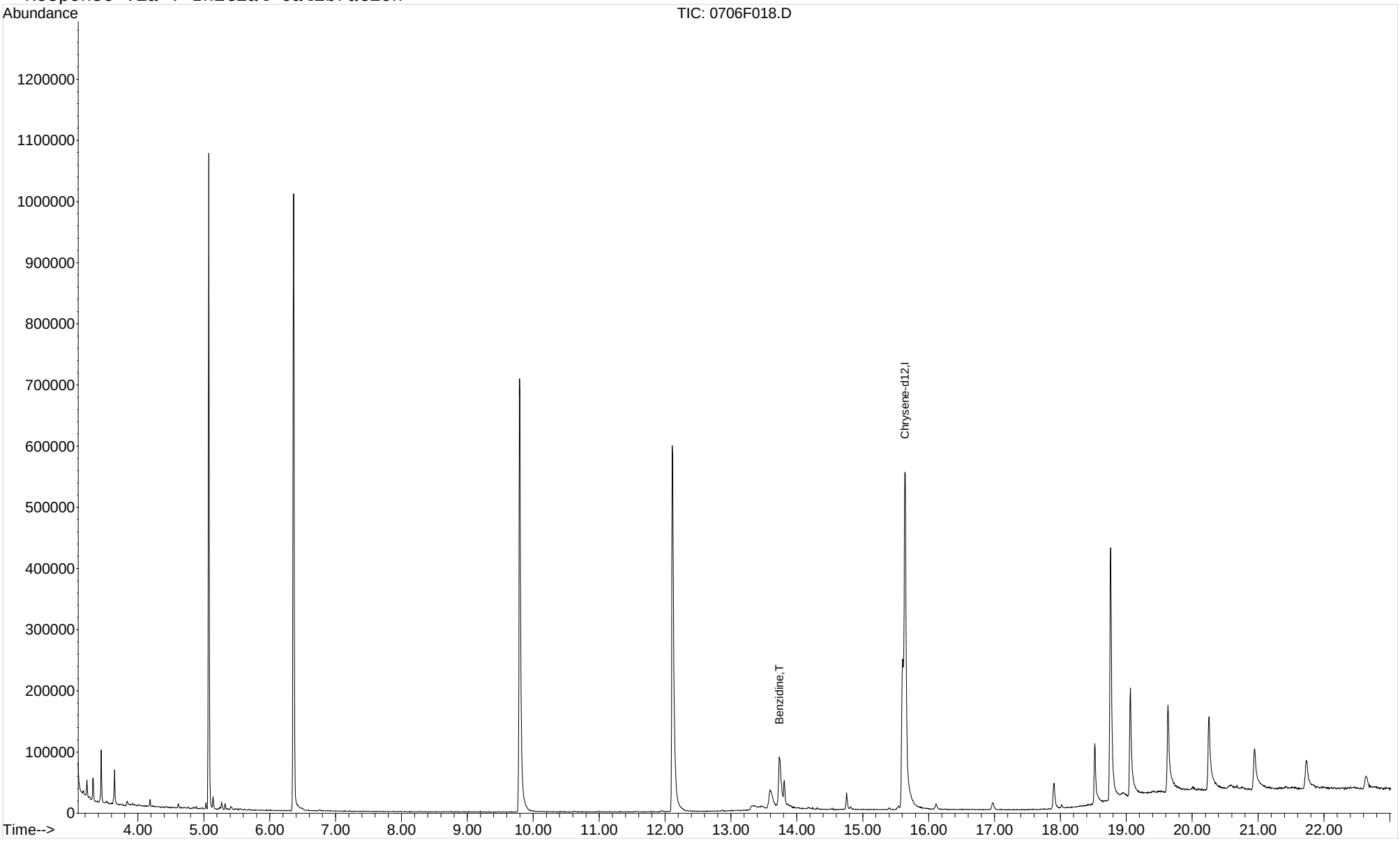
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F018.D Vial: 24
Acq On : 6 Jul 2023 6:54 pm Operator: CSD
Sample : Benzidine LL ICAL 2.0ppm SVM69-48E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:11 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:59 2023
Response via : Initial Calibration

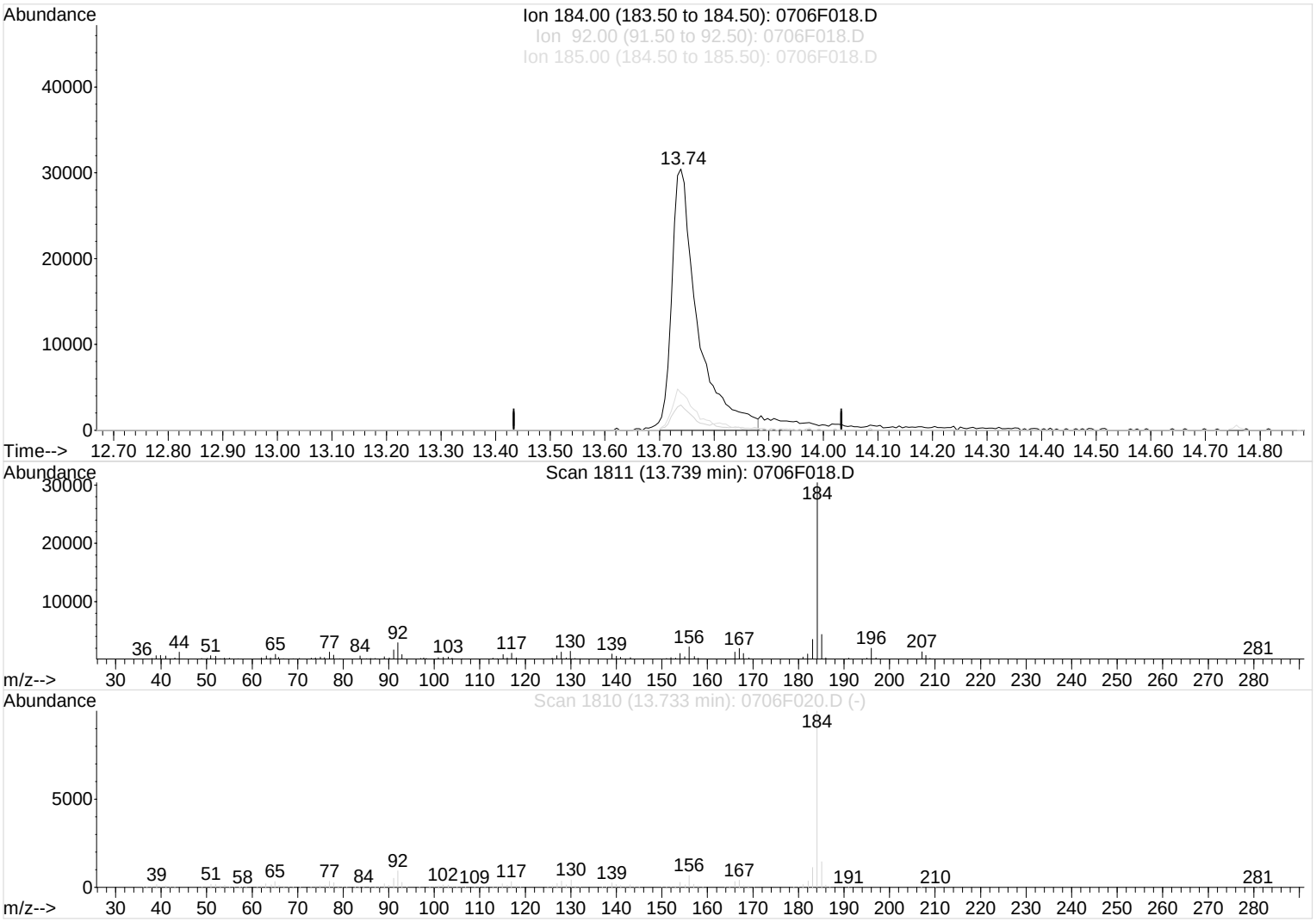


Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F018.D Vial: 24
Acq On : 6 Jul 2023 6:54 pm Operator: CSD
Sample : Benzidine LL ICAL 2.0ppm SVM69-48E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:10 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:10:20 2023
Response via : Multiple Level Calibration



TIC: 0706F018.D

(2) Benzidine (T)

13.74min 1319.96ng/ml

response 100906

Ion	Exp%	Act%
184.00	100	100
92.00	9.40	9.63
185.00	14.50	14.34
0.00	0.00	0.00

Manual Integration:

Before

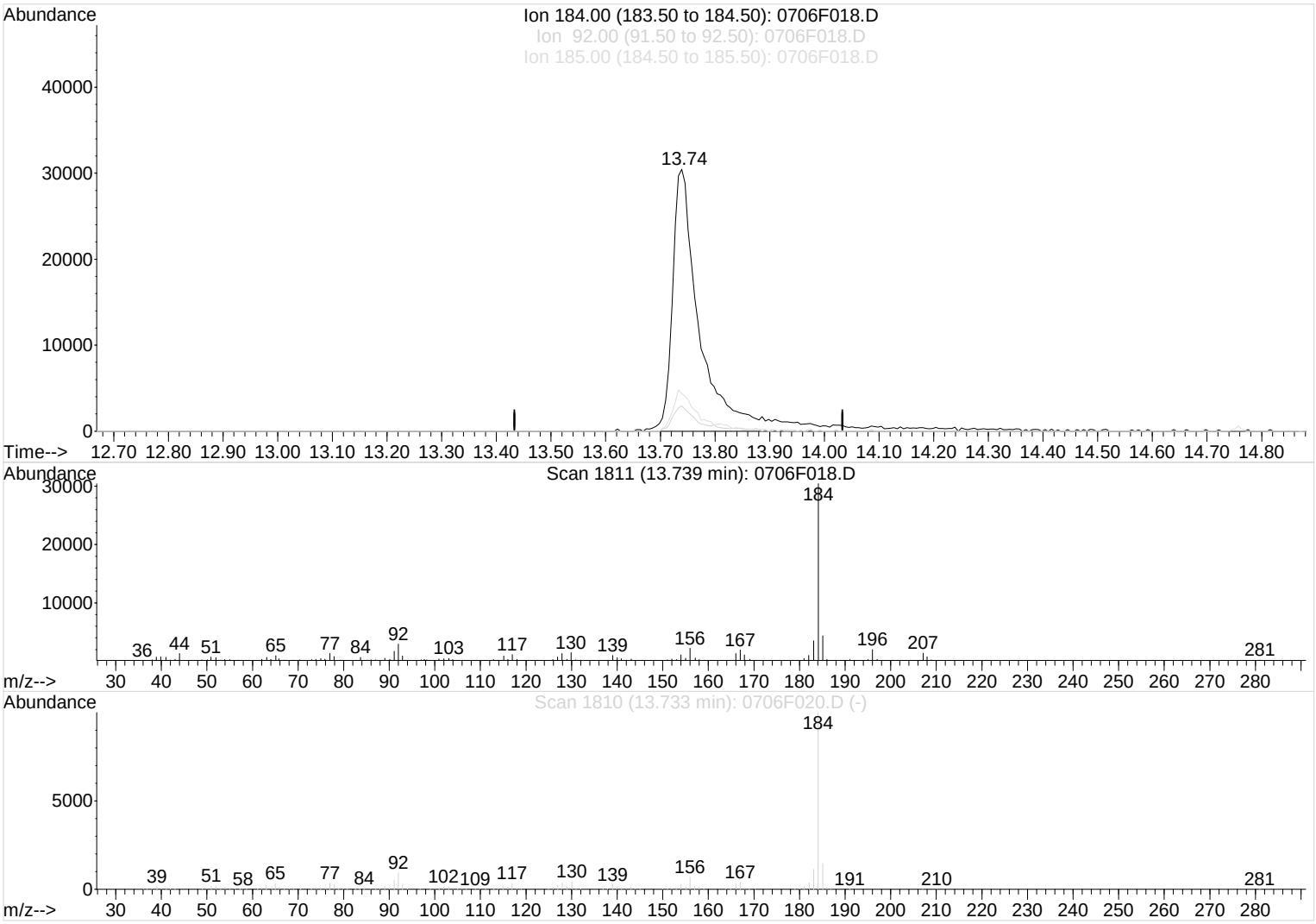
07/14/23

Quantitation Report (Qedit)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F018.D Vial: 24
Acq On : 6 Jul 2023 6:54 pm Operator: CSD
Sample : Benzidine LL ICAL 2.0ppm SVM69-48E Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:11 2023 Quant Results File: temp.res

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:10:20 2023
Response via : Multiple Level Calibration



TIC: 0706F018.D

(2) Benzidine (T)

13.74min 1487.87ng/ml m

response 114107

Ion	Exp%	Act%
184.00	100	100
92.00	9.40	9.63
185.00	14.50	14.34
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

07/14/23

Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F019.D Vial: 25
Acq On : 6 Jul 2023 7:22 pm Operator: CSD
Sample : Benzidine LL ICAL 3.0ppm SVM69-48F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:09:58 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:09:47 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.64	240	357284	1000.00	ng/ml	0.00
Target Compounds						Qvalue
2) Benzidine	13.73	184	198820	2041.57	ng/ml	99

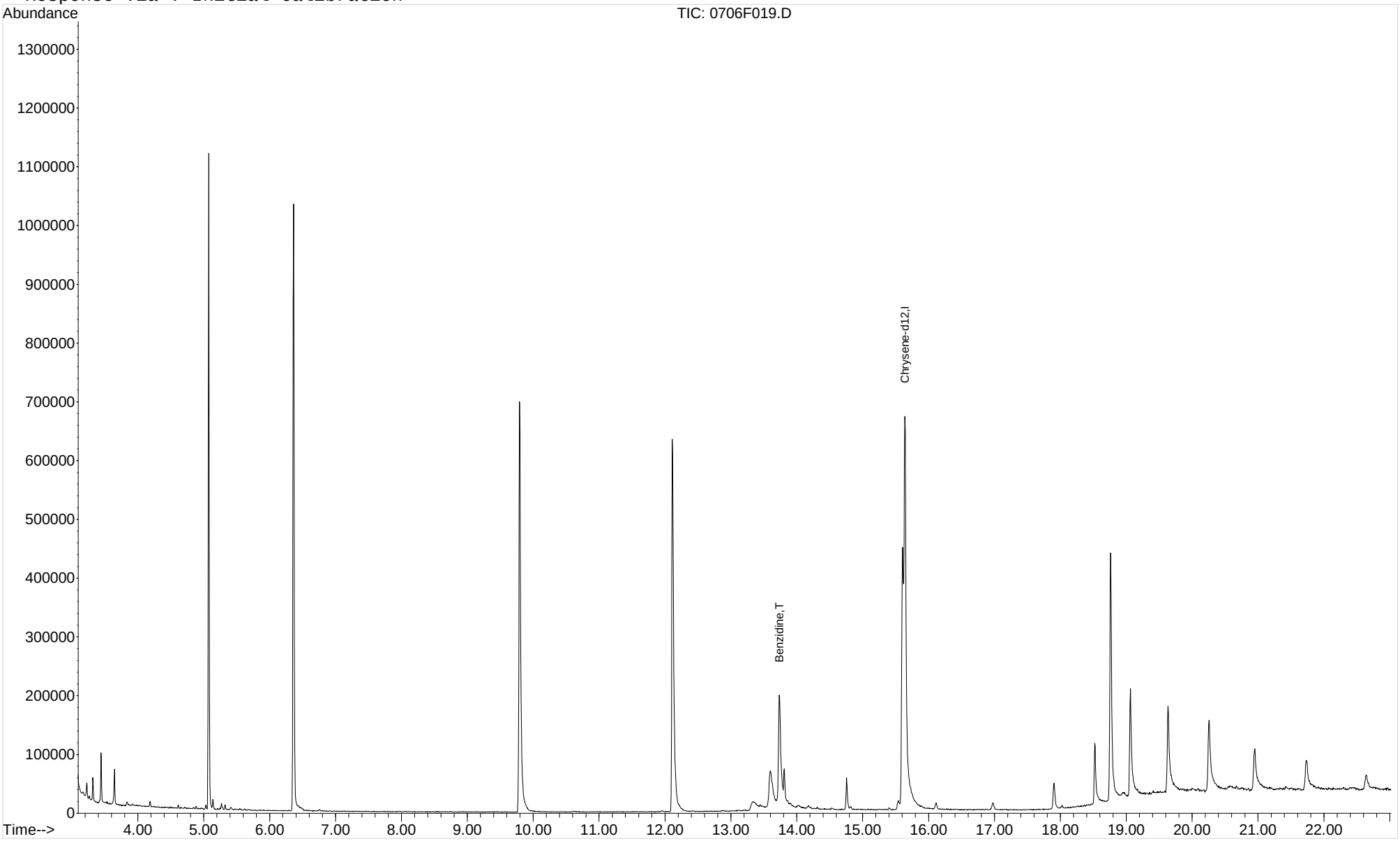
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F019.D Vial: 25
Acq On : 6 Jul 2023 7:22 pm Operator: CSD
Sample : Benzidine LL ICAL 3.0ppm SVM69-48F Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:09 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:59 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F020.D Vial: 26
Acq On : 6 Jul 2023 7:51 pm Operator: CSD
Sample : Benzidine LL ICAL 5.0ppm SVM69-48G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:08:04 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Wed Jun 28 10:25:32 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.64	240	389900m	1000.00	ng/ml	-0.96
Target Compounds						Qvalue
2) Benzidine	13.73	184	477119m	3932.06	ng/ml	

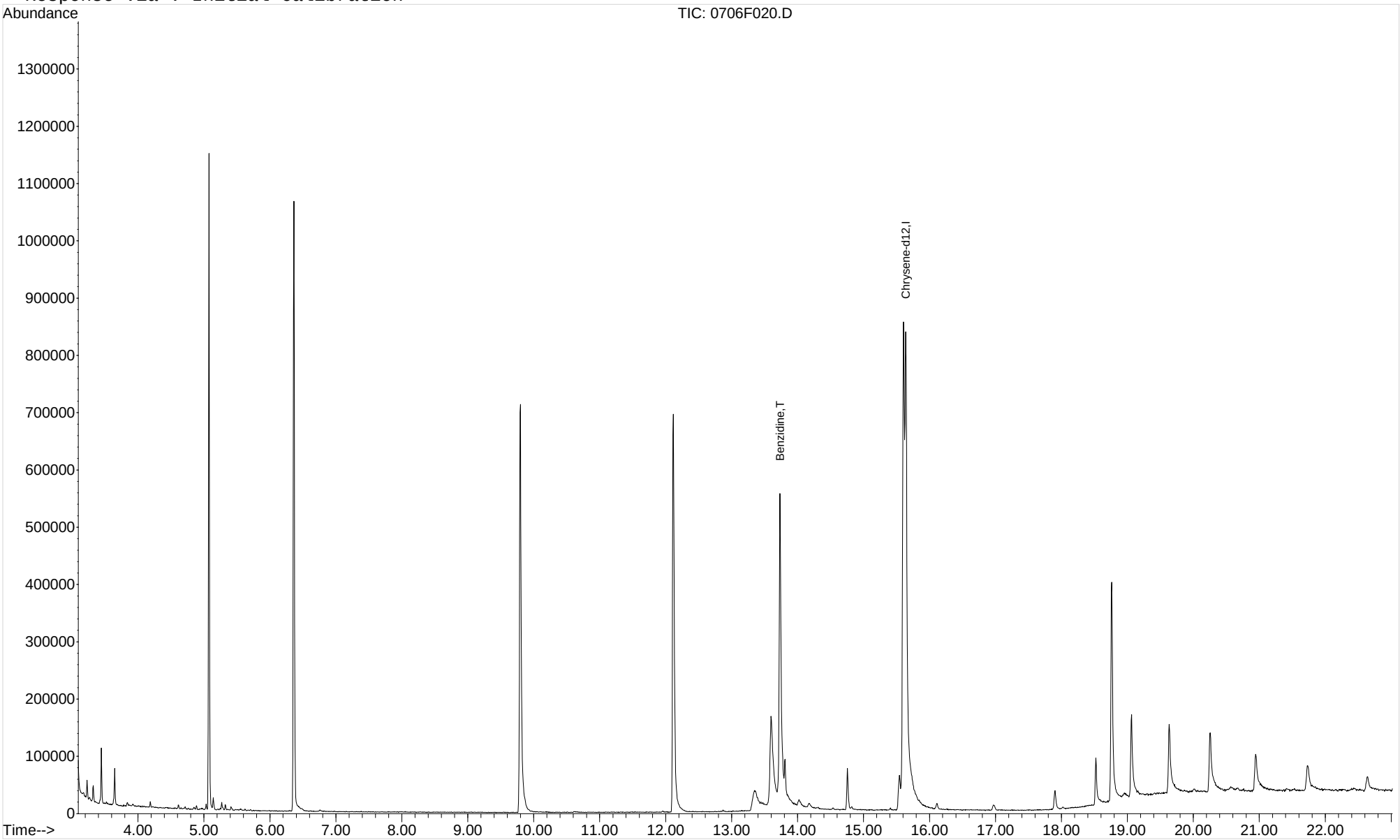
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F020.D Vial: 26
Acq On : 6 Jul 2023 7:51 pm Operator: CSD
Sample : Benzidine LL ICAL 5.0ppm SVM69-48G Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:08 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:59 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st CD 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F021.D Vial: 27
Acq On : 6 Jul 2023 8:19 pm Operator: CSD
Sample : Benzidine LL ICAL 7.0ppm SVM69-48H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:09:04 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:08:47 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.64	240	381435	1000.00	ng/ml	0.00
Target Compounds						Qvalue
2) Benzidine	13.73	184	616664	5692.93	ng/ml	100

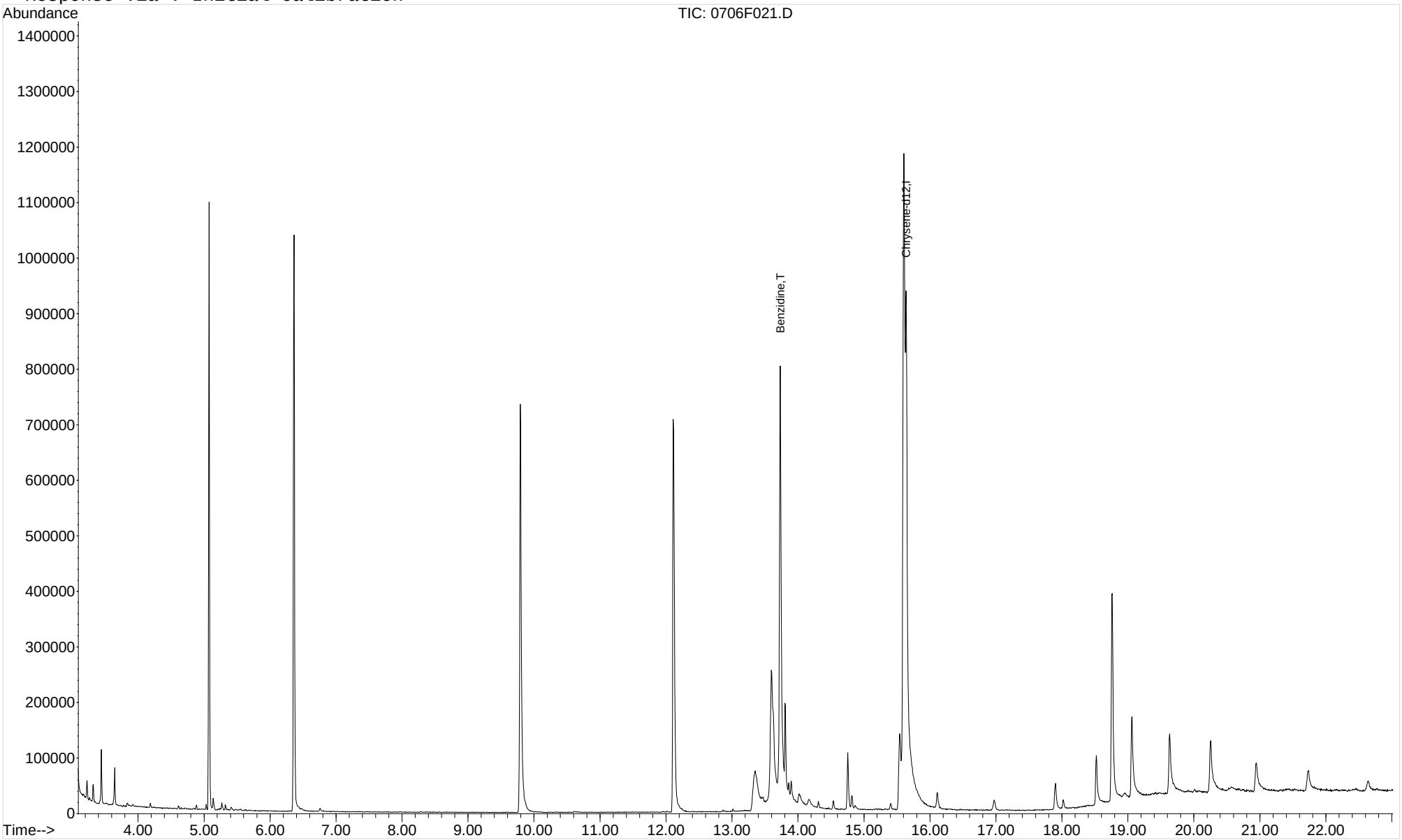
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F021.D Vial: 27
Acq On : 6 Jul 2023 8:19 pm Operator: CSD
Sample : Benzidine LL ICAL 7.0ppm SVM69-48H Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:09 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:59 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F022.D Vial: 28
Acq On : 6 Jul 2023 8:47 pm Operator: CSD
Sample : Benzidine LL ICAL 10ppm SVM69-48I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:09:32 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:09:23 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.64	240	335964	1000.00	ng/ml	0.00
Target Compounds						Qvalue
2) Benzidine	13.73	184	827500	9686.72	ng/ml	99

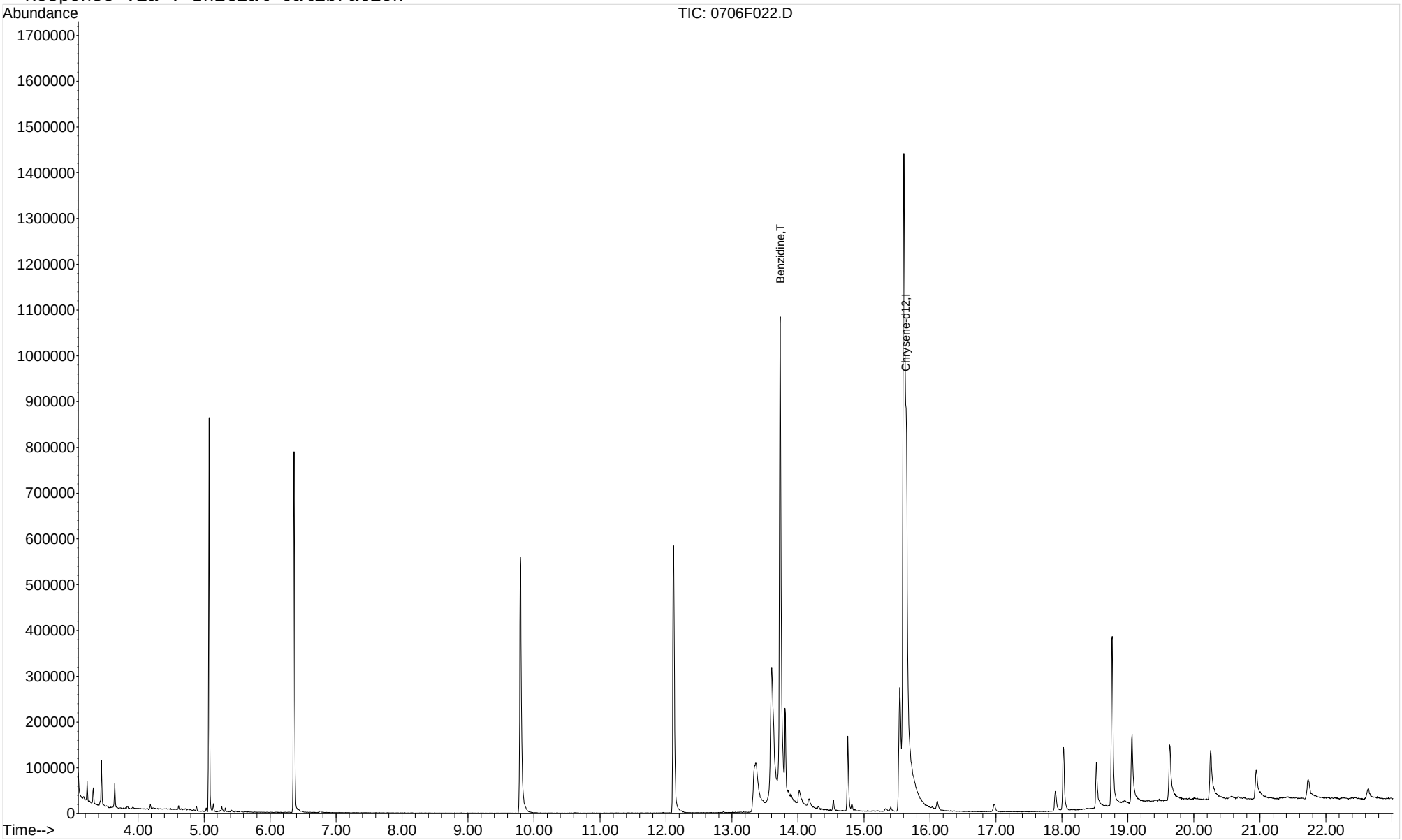
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F022.D Vial: 28
Acq On : 6 Jul 2023 8:47 pm Operator: CSD
Sample : Benzidine LL ICAL 10ppm SVM69-48I Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:09 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:59 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st CO 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F023.D Vial: 29
Acq On : 6 Jul 2023 9:15 pm Operator: CSD
Sample : Benzidine LL ICV 5.0ppm SVM69-48K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:45:12 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Quant Method : J:\MS29\M...\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:59 2023
Response via : Initial Calibration
DataAcq Meth : 625_SVOLL_ZB5

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Chrysene-d12	15.64	240	302557	1000.00	ng/ml	0.00
Target Compounds						Qvalue
2) Benzidine	13.73	184	379643	5604.28	ng/ml	98

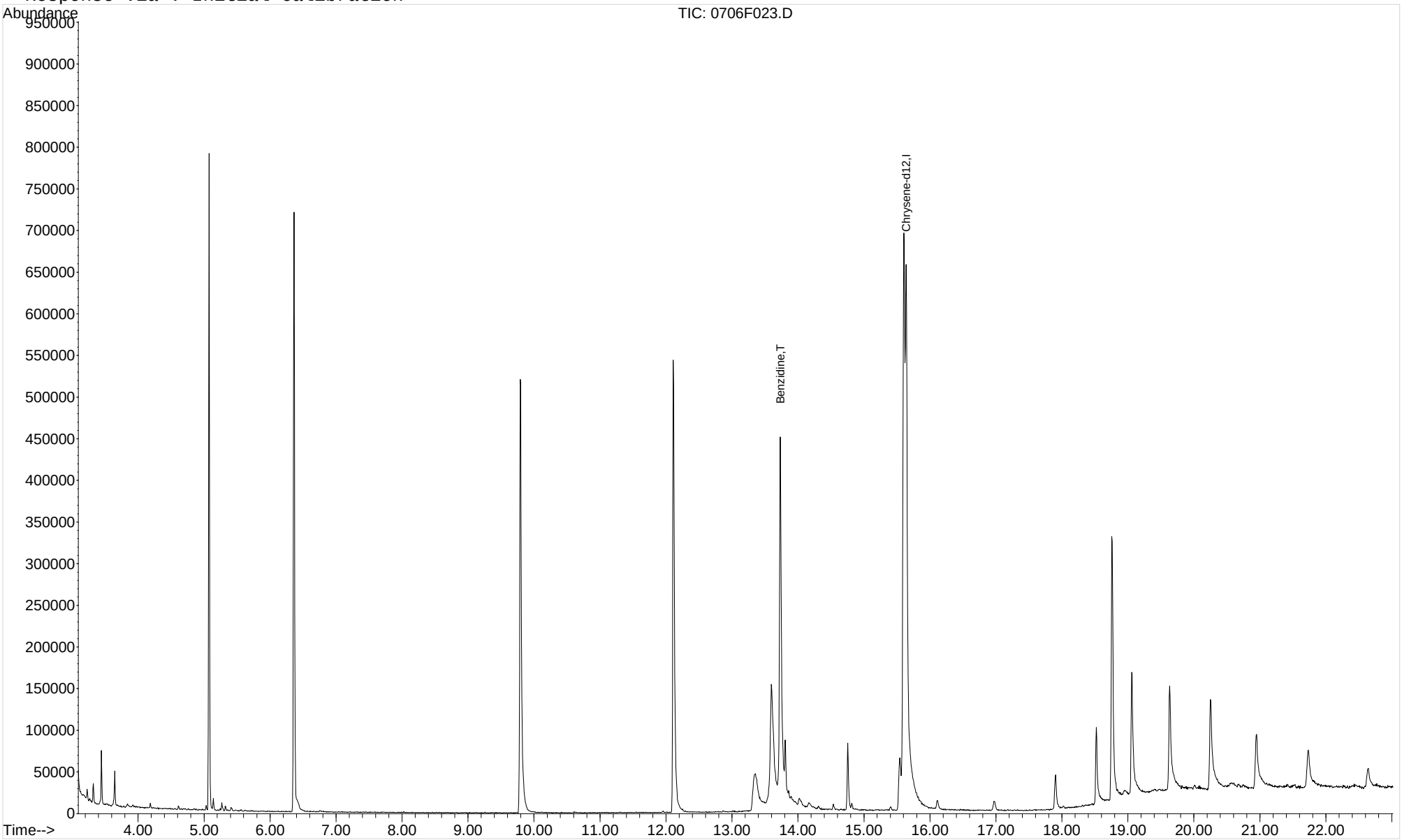
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

1st 07/14/23
2nd 07/18/23

Data File : J:\MS29\DATA\070623\0706F023.D Vial: 29
Acq On : 6 Jul 2023 9:15 pm Operator: CSD
Sample : Benzidine LL ICV 5.0ppm SVM69-48K Inst : MS29
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 14 13:45 2023 Quant Results File: 070623_BENZIDINE_LL.RES

Method : J:\MS29\METHODS\SCAN\070623_BENZIDINE_LL.M (RTE Integrator)
Title : 8270LL ICAL
Last Update : Fri Jul 14 13:12:59 2023
Response via : Initial Calibration



Injection Log

Directory: J:\MS29\DATA\102623

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1026f001.d	1.	DFTPP SVM70-34K		26 Oct 2023 13:47
2	2	1026f002.d	1.	SVO LL CCV @ 3ppm SVM70-75E		26 Oct 2023 14:15
3	3	1026f003.d	1.	BENZIDINE LL CCV @ 3ppm SV...		26 Oct 2023 14:43
4	4	1026f004.d	1.	KQ2317294-01 MB		26 Oct 2023 15:53
5	5	1026f005.d	1.	KQ2317686-01 MB		26 Oct 2023 16:24
6	6	1026f006.d	1.	KQ2317887-01 MB		26 Oct 2023 16:57
7	7	1026f007.d	1.	KQ2317294-02 LCS	KC230042	26 Oct 2023 17:25
8	8	1026f008.d	1.	KQ2317686-02 LCS		26 Oct 2023 17:52
9	9	1026f009.d	1.	KQ2317686-03 DLCS		26 Oct 2023 18:20
10	10	1026f010.d	1.	KQ2317887-02 LCS	822275	26 Oct 2023 18:48
11	11	1026f011.d	1.	KQ2317887-03 DLCS		26 Oct 2023 19:16
12	12	1026f012.d	1.	KQ2317294-03 K2310962-005 MS	10/31/23	26 Oct 2023 19:44
13	13	1026f013.d	1.	KQ2317294-04 K2310962-005 ...		26 Oct 2023 20:12
14	14	1026f014.d	1.	KQ2317686-04 K2311358-005 MS	06	26 Oct 2023 20:39
15	15	1026f015.d	1.	KQ2317686-05 K2311358-005 ... DMJ	07	26 Oct 2023 21:07
16	16	1026f016.d	1.	KQ2317887-03 K2311468-011 MS	46	26 Oct 2023 21:35
17	17	1026f017.d	1.	KQ2317887-04 K2311468-011 ... DMJ	57	26 Oct 2023 22:03
18	18	1026f018.d	1.	K2310962-005		26 Oct 2023 22:30
19	19	1026f019.d	1.	K2310979-002		26 Oct 2023 22:58
20	20	1026f020.d	1.	K2311468-003	11/6/23	26 Oct 2023 23:31
21	21	1026f021.d	1.	K2311468-005		26 Oct 2023 23:58
22	22	1026f022.d	1.	K2311468-008		27 Oct 2023 00:26
23	23	1026f023.d	1.	K2311468-011		27 Oct 2023 00:53
24	24	1026f024.d	1.	K2311468-013		27 Oct 2023 01:21
25	25	1026f025.d	1.	K2311358-005	11/6/23	27 Oct 2023 01:49
26	26	1026f026.d	1.	K2311371-001		27 Oct 2023 02:16
27	27	1026f027.d	1.	K2311403-001		27 Oct 2023 02:44
28	28	1026f028.d	1.	K2311404-001		27 Oct 2023 03:11
29	29	1026f029.d	1.	K2311341-001	NR - Matrix	27 Oct 2023 03:39
30	131	1026f090.d	1.	DCM		27 Oct 2023 04:18

Injection Log

Directory: J:\MS29\DATA\102623_Benzidine

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1026f001.d	1.	DFTPP SVM70-34K		26 Oct 2023 13:47
2	3	1026f003.d	1.	BENZIDINE LL CCV @ 3ppm SV...		26 Oct 2023 14:43
3	4	1026f004.d	1.	KQ2317294-01 MB		26 Oct 2023 15:53
4	5	1026f005.d	1.	KQ2317686-01 MB		26 Oct 2023 16:24
5	7	1026f007.d	1.	KQ2317294-02 LCS		26 Oct 2023 17:25
6	8	1026f008.d	1.	KQ2317686-02 LCS		26 Oct 2023 17:52
7	9	1026f009.d	1.	KQ2317686-03 DLCS		26 Oct 2023 18:20
8	12	1026f012.d	1.	KQ2317294-03 K2310962-005 MS		26 Oct 2023 19:44
9	13	1026f013.d	1.	KQ2317294-04 K2310962-005 ...		26 Oct 2023 20:12
10	14	1026f014.d	1.	KQ2317686-04 K2311358-005 MS		26 Oct 2023 20:39
11	15	1026f015.d	1.	KQ2317686-04 K2311358-005 ...		26 Oct 2023 21:07
12	18	1026f018.d	1.	K2310962-005		26 Oct 2023 22:30
13	19	1026f019.d	1.	K2310979-002		26 Oct 2023 22:58
14	25	1026f025.d	1.	K2311358-005		27 Oct 2023 01:49
15	26	1026f026.d	1.	K2311371-001		27 Oct 2023 02:16
16	27	1026f027.d	1.	K2311403-001		27 Oct 2023 02:44
17	28	1026f028.d	1.	K2311404-001		27 Oct 2023 03:11