

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : RAYMARK SUPERFUND SITE

NOBIS GROUP

585 Middlesex Street

Lowell, MA - 01851

Phone No: 978-683-0891

ORDER ID : P5306

ATTENTION : Adam Roy



Laboratory Certification ID # 20012



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Cover Page

Order ID : P5306

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number

P5306-01
P5306-02
P5306-03
P5306-04
P5306-05
P5306-06
P5306-07
P5306-08
P5306-09
P5306-10
P5306-11
P5306-12
P5306-13
P5306-14
P5306-15
P5306-16
P5306-17
P5306-18

Client Sample Number

OU4-VSL-07-121224
OU4-VSL-07-121224
OU4-VSL-08-121224
OU4-VSL-08-121224
OU4-VSL-09-121224
OU4-VSL-09-121224
OU4-VSL-10-121224
OU4-VSL-10-121224
OU4-VSL-11-121224
OU4-VSL-11-121224
OU4-VSL-12-121224
OU4-VSL-12-121224
OU4-VSL-13-121224
OU4-VSL-13-121224
OU4-VSL-14-121224
OU4-VSL-14-121224
OU4-VSL-06R-121224
OU4-VSL-06R-121224

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :



NYDOH CERTIFICATION NO - 11376

APPROVED

Date: 12/31/2024
By Mohammad Ahmed (Laboratory Manager) at 10:53 am, Jan 03, 2025

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Nobis Group

Project Name: Raymark Superfund Site

Project # N/A

Chemtech Project # P5306

Test Name: Herbicide Group1

A. Number of Samples and Date of Receipt:

18 Solid samples were received on 12/17/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals Group6, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SPLP MetalGroup6, SVOCMS Group3 and VOCMS Group3. This data package contains results for Herbicide Group1.

C. Analytical Techniques:

The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0.5 µm df, Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 µm df, Catalog #: 11324. The analysis of Herbicide Group1s was based on method 8151A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS {P5306-15MS} with File ID: PS028822.D recoveries met the requirements for all compounds except for Dinoseb[15%] due to matrix interference.

The MSD {P5306-15MSD} with File ID: PS028823.D recoveries met the acceptable requirements except for Dinoseb[15%] due to matrix interference.

The sample # OU4-VSL-14-121224MS and OU4-VSL-14-121224MSD is failing for Dinoseb and the original sample(OU4-VSL-14-121224) is reported with M flag for this compound.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

E. Additional Comments:

As per special requirement for this project form-1 are reported in mg/kg.

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.



Signature_____

APPROVED

By Mohammad Ahmed(Laboratory Manager) at 10:53 am, Jan 03, 2025

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5306

MATRIX: Solid

METHOD: 8151A/3541

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified.			✓
2. Standard Summary Submitted.			✓
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
4. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {P5306-15MS} with File ID: PS028822.D recoveries met the requirements for all compounds except for Dinoseb[15%] due to matrix interference. The MSD {P5306-15MSD} with File ID: PS028823.D recoveries met the acceptable requirements except for Dinoseb[15%]due to matrix interference. The sample # OU4-VSL-14-121224MS and OU4-VSL-14-121224MSD is failing for Dinoseb and the original sample(OU4-VSL-14-121224) is reported with M flag for this compound. The Blank Spike met requirements for all samples . The RPD met criteria .		✓	
7. Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8. Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
9. Analysis Holding Time Met			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

As per special requirement for this project form-1 are reported in mg/kg.

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

APPROVED

By Mohammad Ahmed(Laboratory Manager) at 10:53 am, Jan 03, 2025

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5306

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: Mohammad Ahmed

Date: 01-03-2025

LAB CHRONICLE

OrderID:	P5306	OrderDate:	12/17/2024 10:24:00 AM
Client:	Nobis Group	Project:	Raymark Superfund Site
Contact:	Adam Roy	Location:	L41,L61,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5306-01	OU4-VSL-07-121224	SOIL	Herbicide Group1	8151A	12/12/24	12/20/24	12/23/24	12/17/24
			PCB	8082A		12/18/24	12/18/24	
			Pesticide-TCL	8081B		12/18/24	12/18/24	
P5306-03	OU4-VSL-08-121224	SOIL	Herbicide Group1	8151A	12/12/24	12/20/24	12/23/24	12/17/24
			PCB	8082A		12/18/24	12/18/24	
			Pesticide-TCL	8081B		12/18/24	12/18/24	
P5306-05	OU4-VSL-09-121224	SOIL	Herbicide Group1	8151A	12/12/24	12/20/24	12/23/24	12/17/24
			PCB	8082A		12/18/24	12/18/24	
			Pesticide-TCL	8081B		12/18/24	12/18/24	
P5306-07	OU4-VSL-10-121224	SOIL	Herbicide Group1	8151A	12/12/24	12/20/24	12/23/24	12/17/24
			PCB	8082A		12/18/24	12/18/24	
			Pesticide-TCL	8081B		12/18/24	12/19/24	
P5306-09	OU4-VSL-11-121224	SOIL	Herbicide Group1	8151A	12/12/24	12/20/24	12/23/24	12/17/24
			PCB	8082A		12/18/24	12/18/24	
			Pesticide-TCL	8081B		12/18/24	12/19/24	
P5306-11	OU4-VSL-12-121224	SOIL	Herbicide Group1	8151A	12/12/24	12/20/24	12/23/24	12/17/24
			PCB	8082A		12/18/24	12/18/24	
			Pesticide-TCL	8081B		12/18/24	12/19/24	
P5306-13	OU4-VSL-13-121224	SOIL	Herbicide Group1	8151A	12/12/24	12/20/24	12/26/24	12/17/24

LAB CHRONICLE

P5306-15	OU4-VSL-14-121224	SOIL	PCB	8082A	12/18/24	12/18/24	12/12/24	12/17/24
			Pesticide-TCL	8081B	12/18/24	12/19/24		
			Herbicide Group1	8151A	12/20/24	12/30/24		
			PCB	8082A	12/18/24	12/18/24		
			Pesticide-TCL	8081B	12/18/24	12/19/24		

Hit Summary Sheet
SW-846

SDG No.: P5306

Order ID: P5306

Client: Nobis Group

Project ID: Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units

Client ID :

Total Concentration: 0.000



QC SUMMARY

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Surrogate Summary

SDG No.: **P5306**

Client: **Nobis Group**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028786.D	PIBLK-PS028786.D	2,4-DCAA	1	500	469	94		32	138
		2,4-DCAA	2	500	482	96		32	138
I.BLK-PS028793.D	PIBLK-PS028793.D	2,4-DCAA	1	500	510	102		32	138
		2,4-DCAA	2	500	488	98		32	138
PB165776BL	PB165776BL	2,4-DCAA	1	500	558	112		27	122
		2,4-DCAA	2	500	511	102		27	122
PB165776BS	PB165776BS	2,4-DCAA	1	500	547	109		27	122
		2,4-DCAA	2	500	513	103		27	122
I.BLK-PS028799.D	PIBLK-PS028799.D	2,4-DCAA	1	500	525	105		32	138
		2,4-DCAA	2	500	494	99		32	138
P5306-01	OU4-VSL-07-121224	2,4-DCAA	1	500	229	46		27	122
		2,4-DCAA	2	500	196	39		27	122
P5306-03	OU4-VSL-08-121224	2,4-DCAA	1	500	396	79		27	122
		2,4-DCAA	2	500	347	69		27	122
P5306-05	OU4-VSL-09-121224	2,4-DCAA	1	500	351	70		27	122
		2,4-DCAA	2	500	313	63		27	122
P5306-07	OU4-VSL-10-121224	2,4-DCAA	1	500	311	62		27	122
		2,4-DCAA	2	500	274	55		27	122
P5306-09	OU4-VSL-11-121224	2,4-DCAA	1	500	394	79		27	122
		2,4-DCAA	2	500	342	68		27	122
P5306-11	OU4-VSL-12-121224	2,4-DCAA	1	500	373	75		27	122
		2,4-DCAA	2	500	335	67		27	122
I.BLK-PS028810.D	PIBLK-PS028810.D	2,4-DCAA	1	500	536	107		32	138
		2,4-DCAA	2	500	500	100		32	138
I.BLK-PS028819.D	PIBLK-PS028819.D	2,4-DCAA	1	500	566	113		32	138
		2,4-DCAA	2	500	504	101		32	138
P5306-13	OU4-VSL-13-121224	2,4-DCAA	1	500	295	59		27	122
		2,4-DCAA	2	500	245	49		27	122
P5306-15MS	OU4-VSL-14-121224MS	2,4-DCAA	1	500	506	101		27	122
		2,4-DCAA	2	500	414	83		27	122
P5306-15MSD	OU4-VSL-14-121224MSD	2,4-DCAA	1	500	507	101		27	122
		2,4-DCAA	2	500	413	83		27	122
I.BLK-PS028824.D	PIBLK-PS028824.D	2,4-DCAA	1	500	559	112		32	138
		2,4-DCAA	2	500	504	101		32	138
I.BLK-PS028848.D	PIBLK-PS028848.D	2,4-DCAA	1	500	599	120		32	138
		2,4-DCAA	2	500	512	102		32	138
P5306-15	OU4-VSL-14-121224	2,4-DCAA	1	500	512	102		27	122
		2,4-DCAA	2	500	398	80		27	122
I.BLK-PS028852.D	PIBLK-PS028852.D	2,4-DCAA	1	500	602	120		32	138
		2,4-DCAA	2	500	515	103		32	138

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5306

Client: Nobis Group

Analytical Method: 8151A

DataFile : PS028822.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	OU4-VSL-14-121224MS											
P5306-15MS	DICAMBA	173.6	0	143	ug/Kg	82				38	132	
	Dalapon	173.6	0	130	ug/Kg	75				70	130	
	DICHLORPROP	173.6	0	112	ug/Kg	65				28	155	
	2,4-D	173.6	0	159	ug/Kg	92				28	144	
	2,4,5-TP(Silvex)	173.6	0	91.3	ug/Kg	53				43	129	
	2,4,5-T	173.6	0	110	ug/Kg	63				31	138	
	2,4-DB	173.6	0	77.7	ug/Kg	45				34	142	
	Dinoseb	173.6	0	25.5	ug/Kg	15	*			57	152	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5306

Client: Nobis Group

Analytical Method: 8151A

DataFile : PS028823.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: OU4-VSL-14-121224MSD												
P5306-15MSD	DICAMBA	173.4	0	142	ug/Kg	82		0		38	132	20
	Dalapon	173.4	0	137	ug/Kg	79		5		70	130	20
	DICHLORPROP	173.4	0	112	ug/Kg	65		0		28	155	20
	2,4-D	173.4	0	163	ug/Kg	94		2		28	144	20
	2,4,5-TP(Silvex)	173.4	0	90.9	ug/Kg	52		2		43	129	20
	2,4,5-T	173.4	0	114	ug/Kg	66		5		31	138	20
	2,4-DB	173.4	0	77.8	ug/Kg	45		0		34	142	20
	Dinoseb	173.4	0	26.0	ug/Kg	15	*	0		57	152	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5306

Client: Nobis Group

Analytical Method: 8151A Datafile : PS028798.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB165776BS	DICAMBA	166.6	171	ug/Kg	103				38	132	
	Dalapon	166.6	161	ug/Kg	97				70	130	
	DICHLORPROP	166.6	171	ug/Kg	103				28	155	
	2,4-D	166.6	171	ug/Kg	103				28	144	
	2,4,5-TP(Silvex)	166.6	174	ug/Kg	104				43	129	
	2,4,5-T	166.6	174	ug/Kg	104				31	138	
	2,4-DB	166.6	165	ug/Kg	99				34	142	
	Dinoseb	166.6	171	ug/Kg	103				57	152	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165776BL

Lab Name: CHEMTECH

Contract: NOBI03

Lab Code: CHEM Case No.: P5306

SAS No.: P5306 SDG NO.: P5306

Lab Sample ID: PB165776BL

Lab File ID: PS028797.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 12/20/2024

Date Analyzed (1): 12/23/2024

Date Analyzed (2): 12/23/2024

Time Analyzed (1): 15:22

Time Analyzed (2): 15:22

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm)

GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB165776BS	PB165776BS	PS028798.D	12/23/2024	12/23/2024
OU4-VSL-07-121224	P5306-01	PS028801.D	12/23/2024	12/23/2024
OU4-VSL-08-121224	P5306-03	PS028802.D	12/23/2024	12/23/2024
OU4-VSL-09-121224	P5306-05	PS028803.D	12/23/2024	12/23/2024
OU4-VSL-10-121224	P5306-07	PS028804.D	12/23/2024	12/23/2024
OU4-VSL-11-121224	P5306-09	PS028805.D	12/23/2024	12/23/2024
OU4-VSL-12-121224	P5306-11	PS028806.D	12/23/2024	12/23/2024
OU4-VSL-13-121224	P5306-13	PS028821.D	12/26/2024	12/26/2024
OU4-VSL-14-121224MS	P5306-15MS	PS028822.D	12/26/2024	12/26/2024
OU4-VSL-14-121224MSD	P5306-15MSD	PS028823.D	12/26/2024	12/26/2024
OU4-VSL-14-121224	P5306-15	PS028851.D	12/30/2024	12/30/2024

COMMENTS: _____



SAMPLE DATA

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Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-07-121224	SDG No.:	P5306
Lab Sample ID:	P5306-01	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	90.8 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028801.D	1	12/20/24 08:20	12/23/24 16:58	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0095	0.036	0.074	mg/Kg
75-99-0	DALAPON	0.055	U	0.027	0.055	0.074	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.011	0.036	0.074	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.074	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.074	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.074	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.074	mg/Kg
88-85-7	DINOSEB	0.055	U	0.014	0.055	0.074	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	229		27 - 122		46%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028801.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 16:58
Operator : AR\AJ
Sample : P5306-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:54:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.208	7.699	516.9E6	220.7E6	228.510	196.078m

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028801.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 16:58
Operator : AR\AJ
Sample : P5306-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

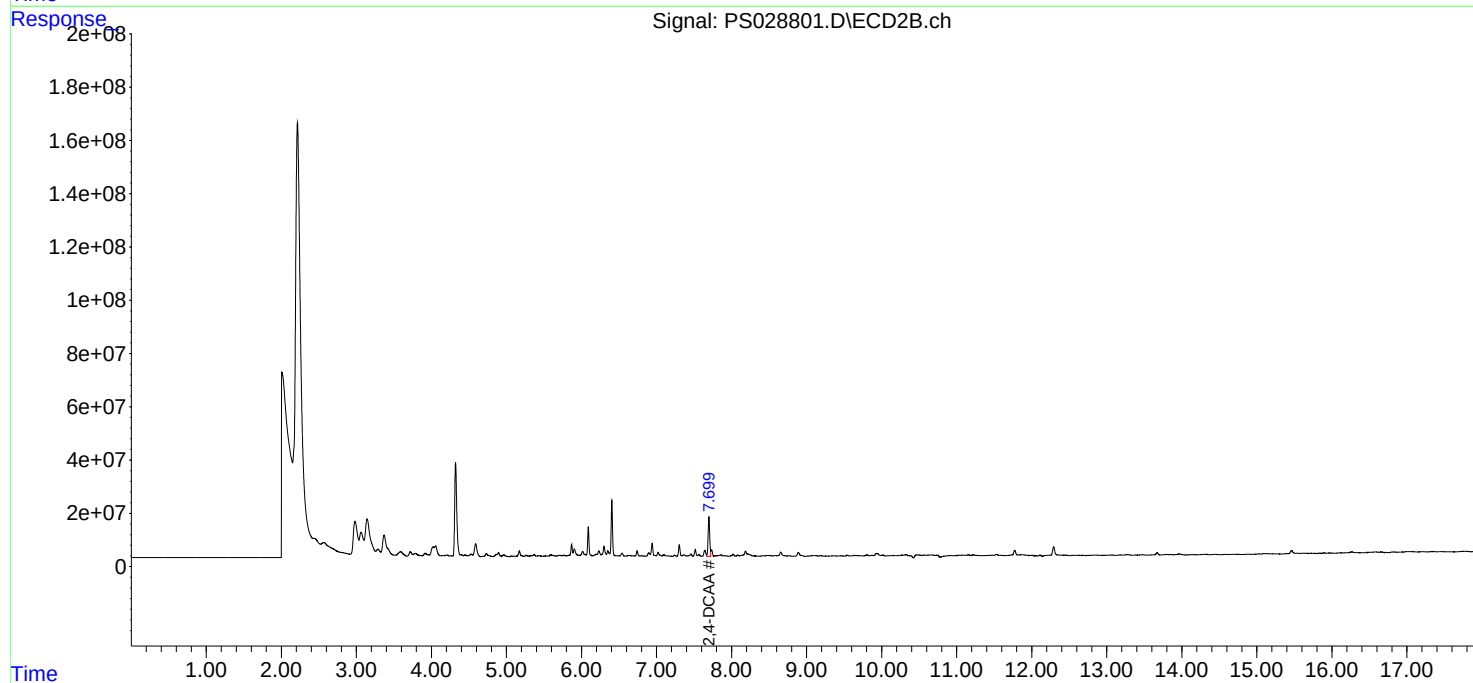
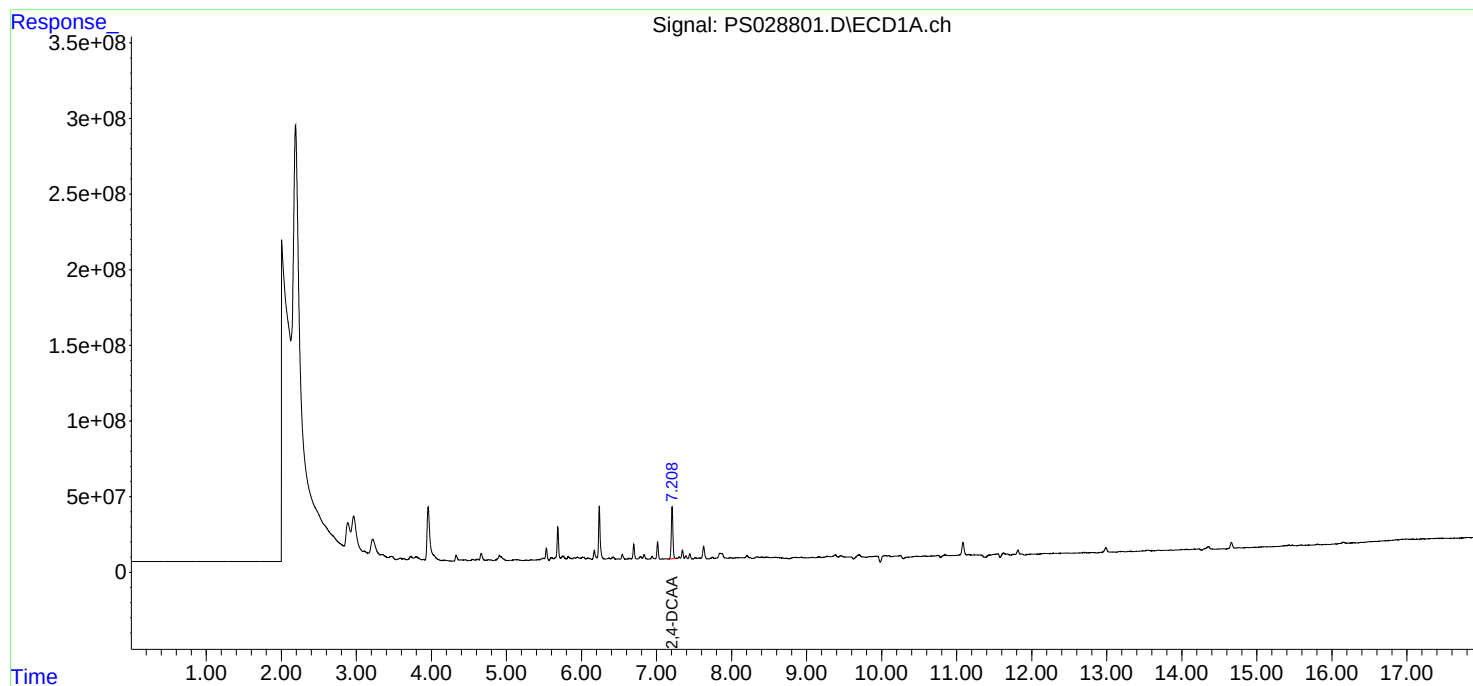
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224

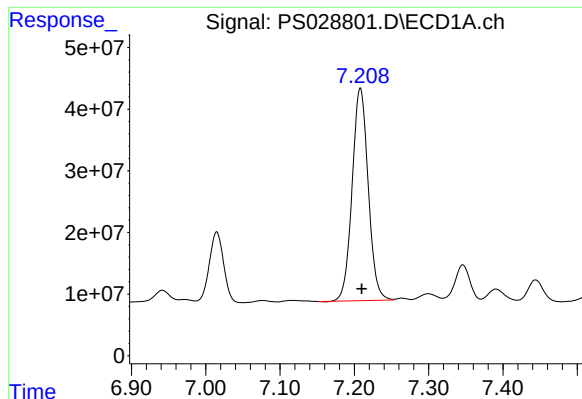
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:54:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





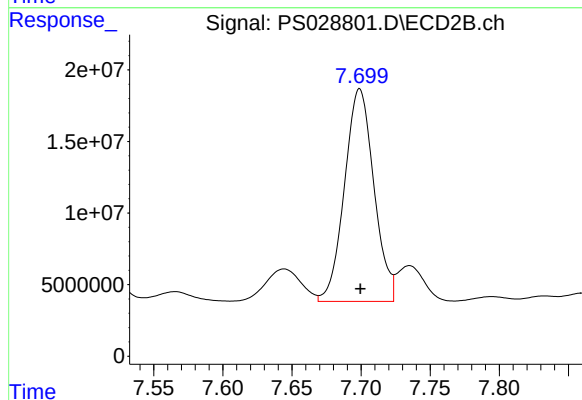
#4 2,4-DCAA

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 516895298
Conc: 228.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



#4 2,4-DCAA

R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 220693494
Conc: 196.08 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-08-121224	SDG No.:	P5306
Lab Sample ID:	P5306-03	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	90.8
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028802.D	1	12/20/24 08:20	12/23/24 17:22	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0095	0.036	0.074	mg/Kg
75-99-0	DALAPON	0.055	U	0.027	0.055	0.074	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.011	0.036	0.074	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.074	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.074	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.074	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.074	mg/Kg
88-85-7	DINOSEB	0.055	U	0.014	0.055	0.074	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	396		27 - 122		79%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028802.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 17:22
Operator : AR\AJ
Sample : P5306-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.206	7.695	896.6E6	391.0E6	396.391	347.399m

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028802.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 17:22
Operator : AR\AJ
Sample : P5306-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

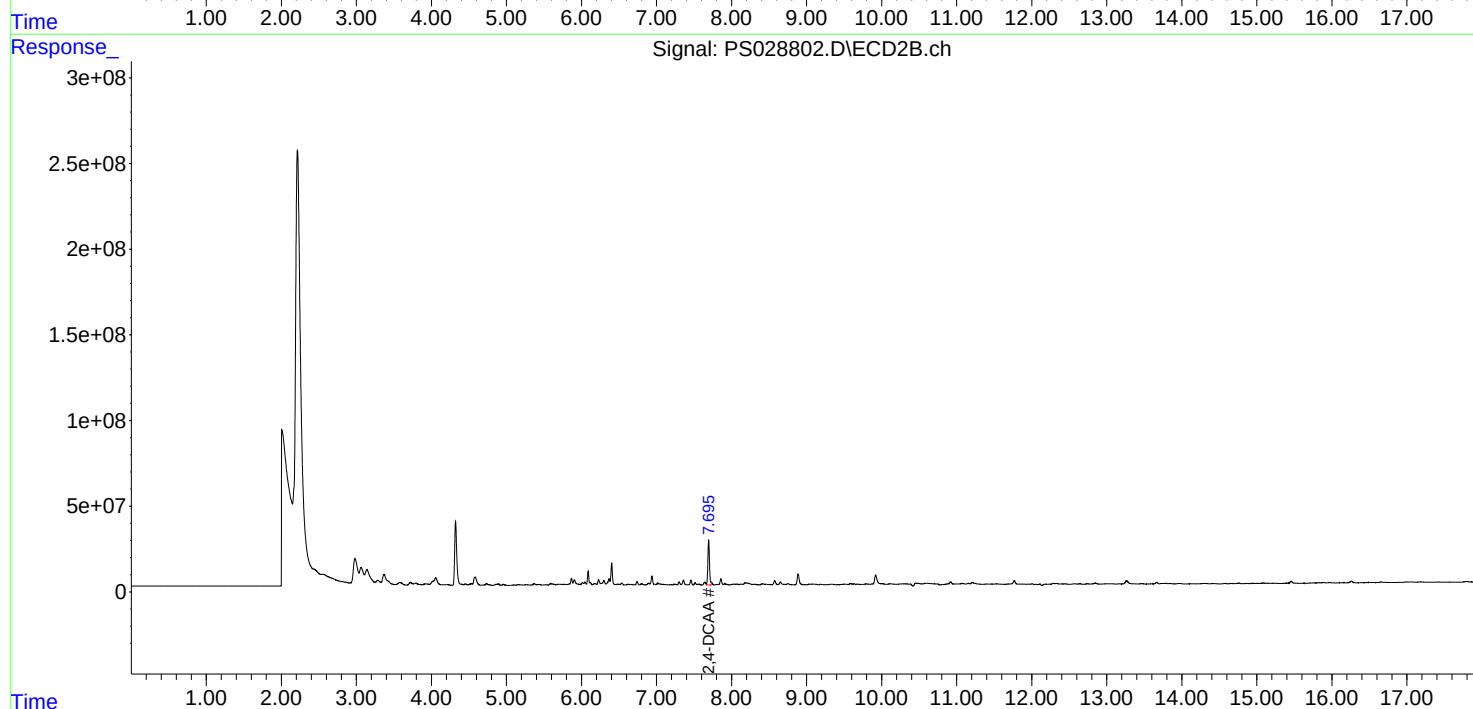
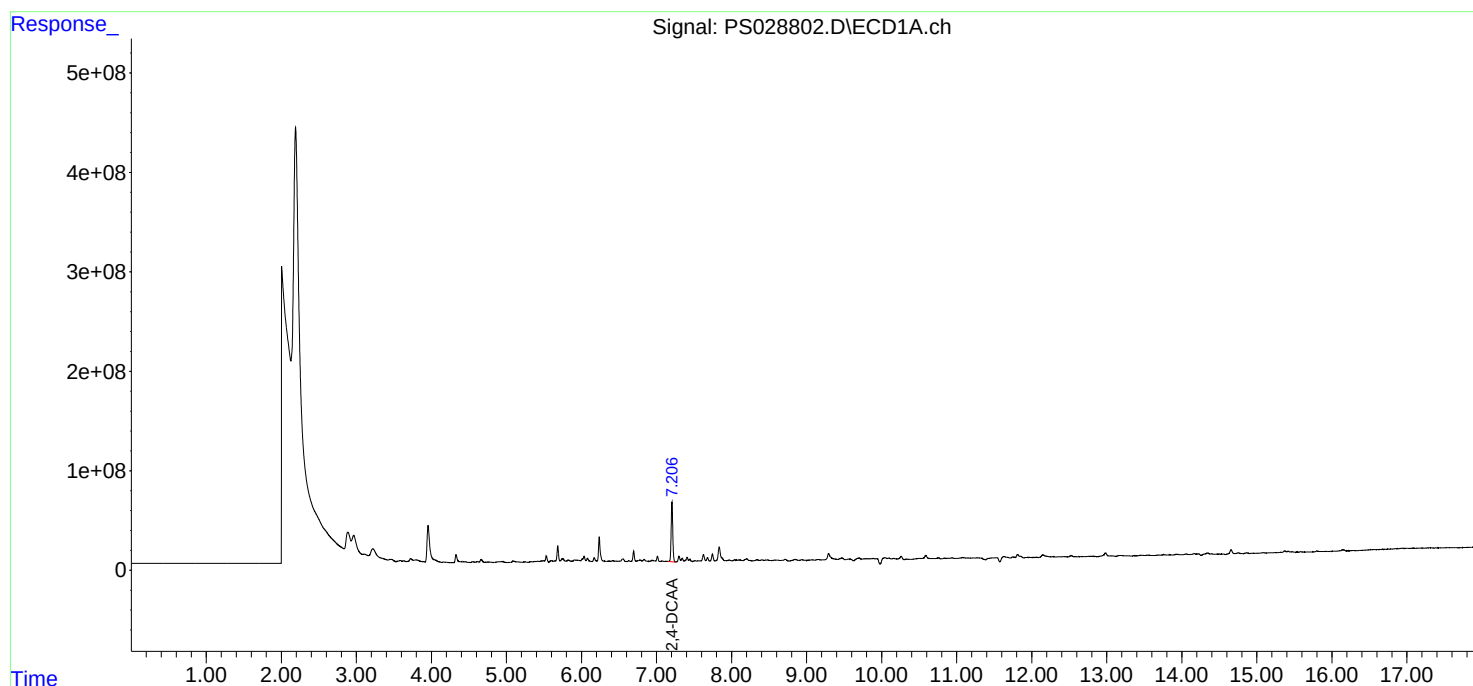
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224

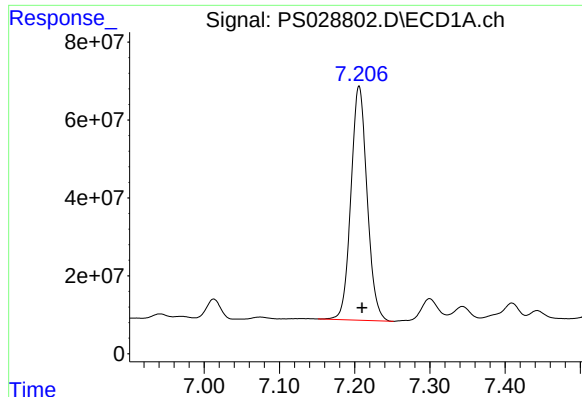
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





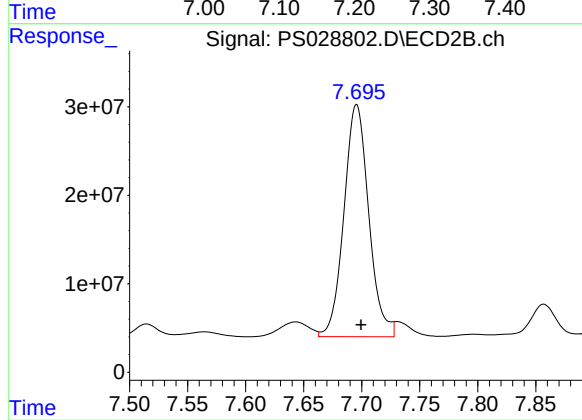
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 896646153
Conc: 396.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



#4 2,4-DCAA

R.T.: 7.695 min
Delta R.T.: -0.004 min
Response: 391010852
Conc: 347.40 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-09-121224	SDG No.:	P5306
Lab Sample ID:	P5306-05	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	90.1 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028803.D	1	12/20/24 08:20	12/23/24 17:46	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.037	U	0.0096	0.037	0.074	mg/Kg
75-99-0	DALAPON	0.055	U	0.028	0.055	0.074	mg/Kg
120-36-5	DICHLORPROP	0.037	U	0.011	0.037	0.074	mg/Kg
94-75-7	2,4-D	0.037	U	0.013	0.037	0.074	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.037	U	0.010	0.037	0.074	mg/Kg
93-76-5	2,4,5-T	0.037	U	0.011	0.037	0.074	mg/Kg
94-82-6	2,4-DB	0.037	U	0.020	0.037	0.074	mg/Kg
88-85-7	DINOSEB	0.055	U	0.014	0.055	0.074	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	351		27 - 122		70%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028803.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 17:46
Operator : AR\AJ
Sample : P5306-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.207	7.697	793.7E6	351.9E6	350.891	312.654m

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028803.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 17:46
Operator : AR\AJ
Sample : P5306-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

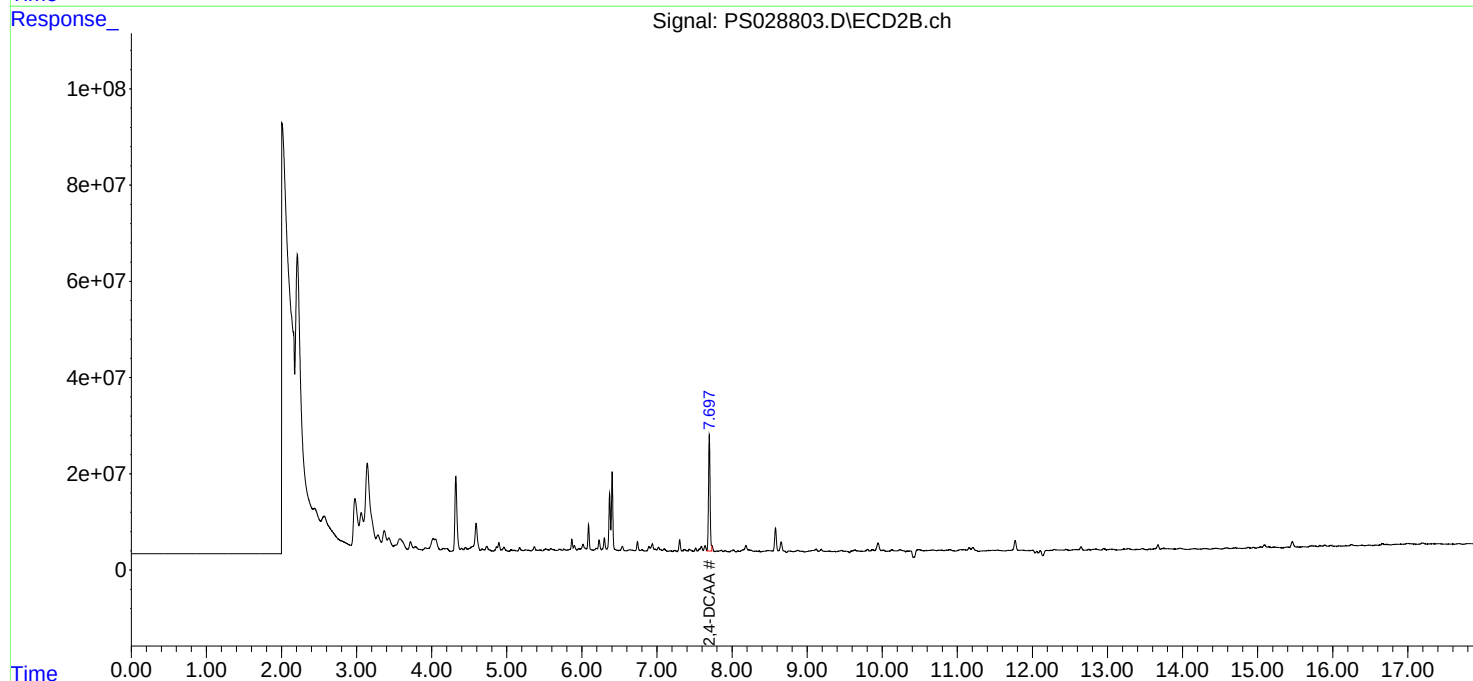
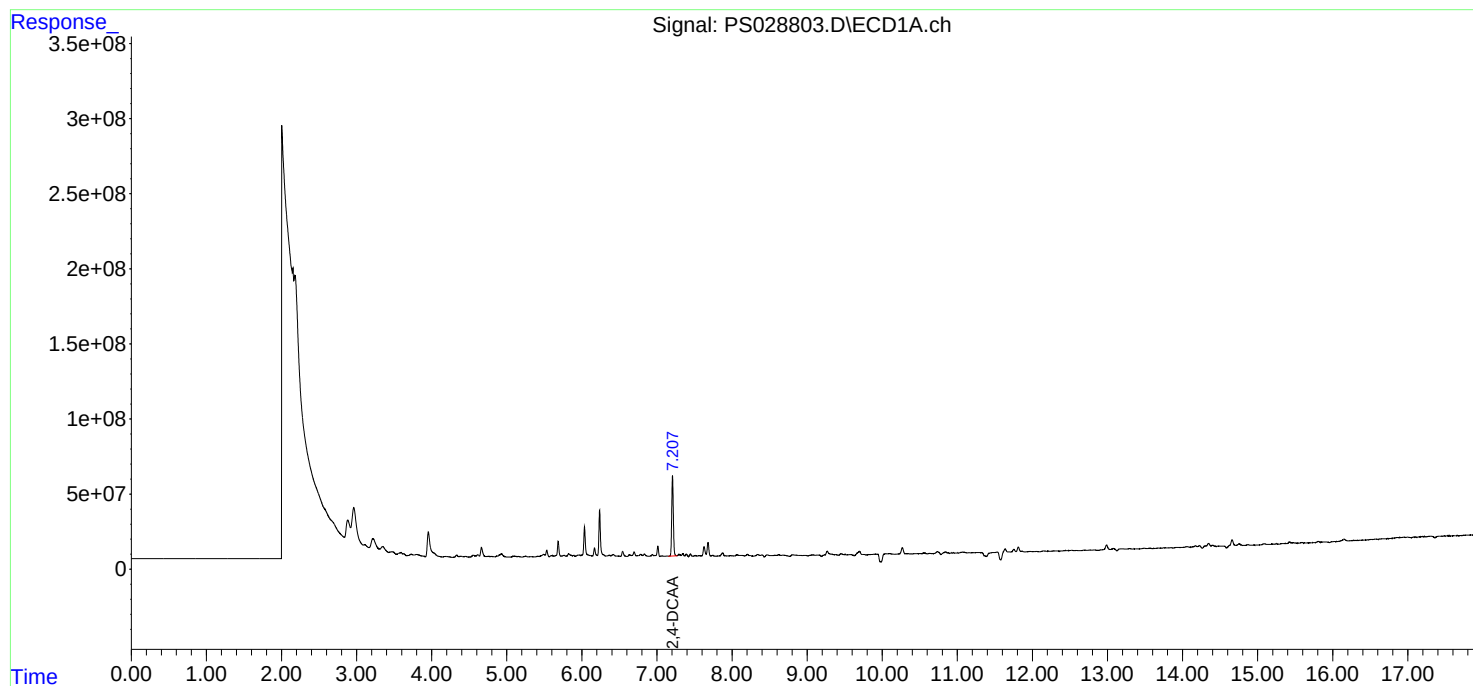
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

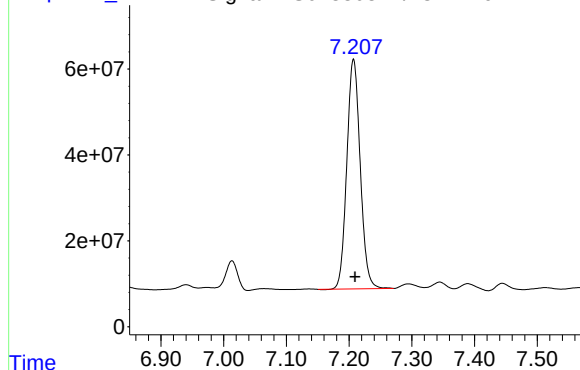
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Signal: PS028803.D\ECD1A.ch

#4 2,4-DCAA



R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 793723958
Conc: 350.89 ng/ml

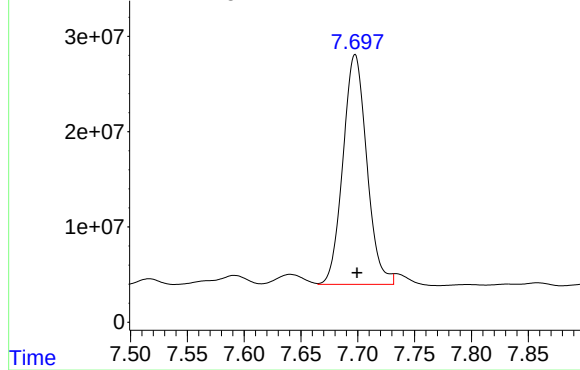
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224

**Manual Integrations
APPROVED**

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Signal: PS028803.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.697 min
Delta R.T.: -0.002 min
Response: 351903822
Conc: 312.65 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-10-121224	SDG No.:	P5306
Lab Sample ID:	P5306-07	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	95 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028804.D	1	12/20/24 08:20	12/23/24 18:10	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.035	U	0.0091	0.035	0.070	mg/Kg
75-99-0	DALAPON	0.053	U	0.026	0.053	0.070	mg/Kg
120-36-5	DICHLORPROP	0.035	U	0.010	0.035	0.070	mg/Kg
94-75-7	2,4-D	0.035	U	0.013	0.035	0.070	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.035	U	0.0099	0.035	0.070	mg/Kg
93-76-5	2,4,5-T	0.035	U	0.011	0.035	0.070	mg/Kg
94-82-6	2,4-DB	0.035	U	0.019	0.035	0.070	mg/Kg
88-85-7	DINOSEB	0.053	U	0.013	0.053	0.070	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	311		27 - 122		62%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028804.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:10
Operator : AR\AJ
Sample : P5306-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.208	7.698	703.8E6	308.1E6	311.151	273.708m

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028804.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:10
Operator : AR\AJ
Sample : P5306-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

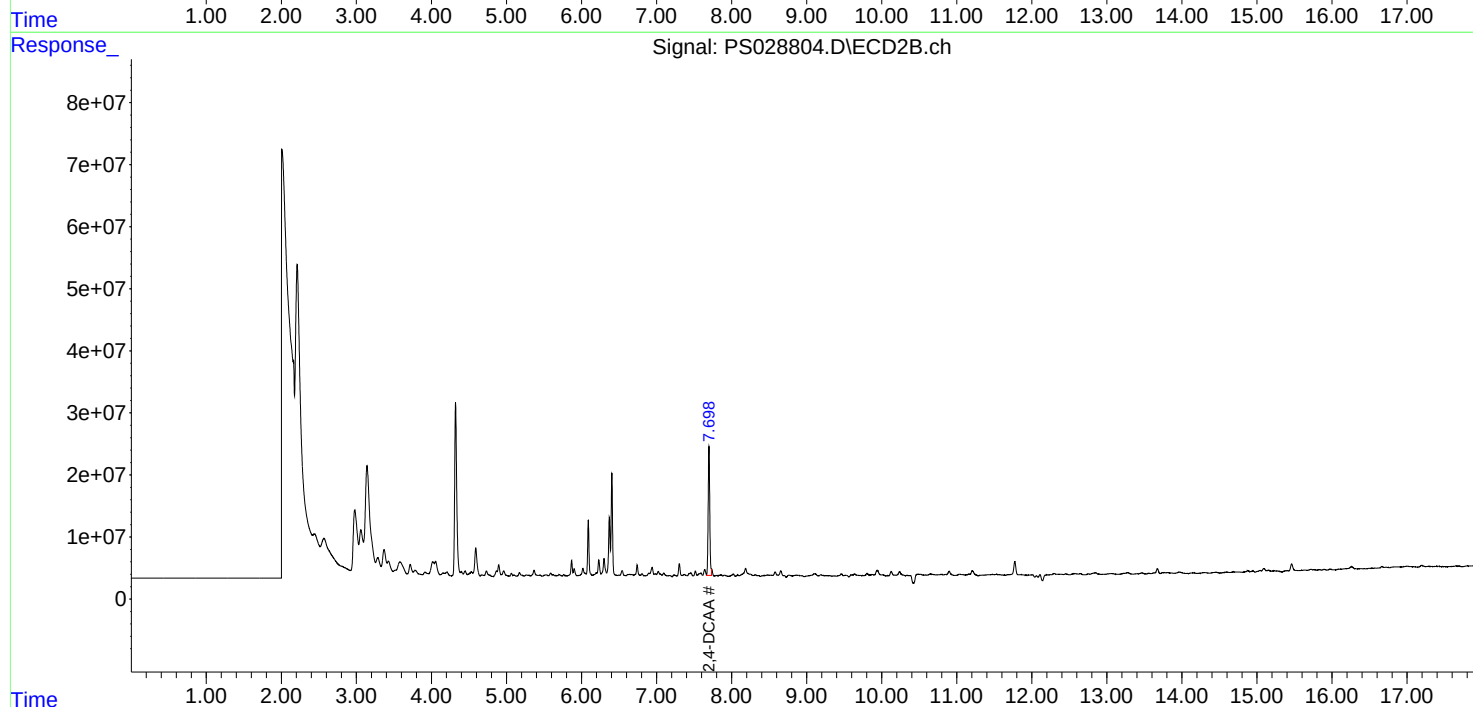
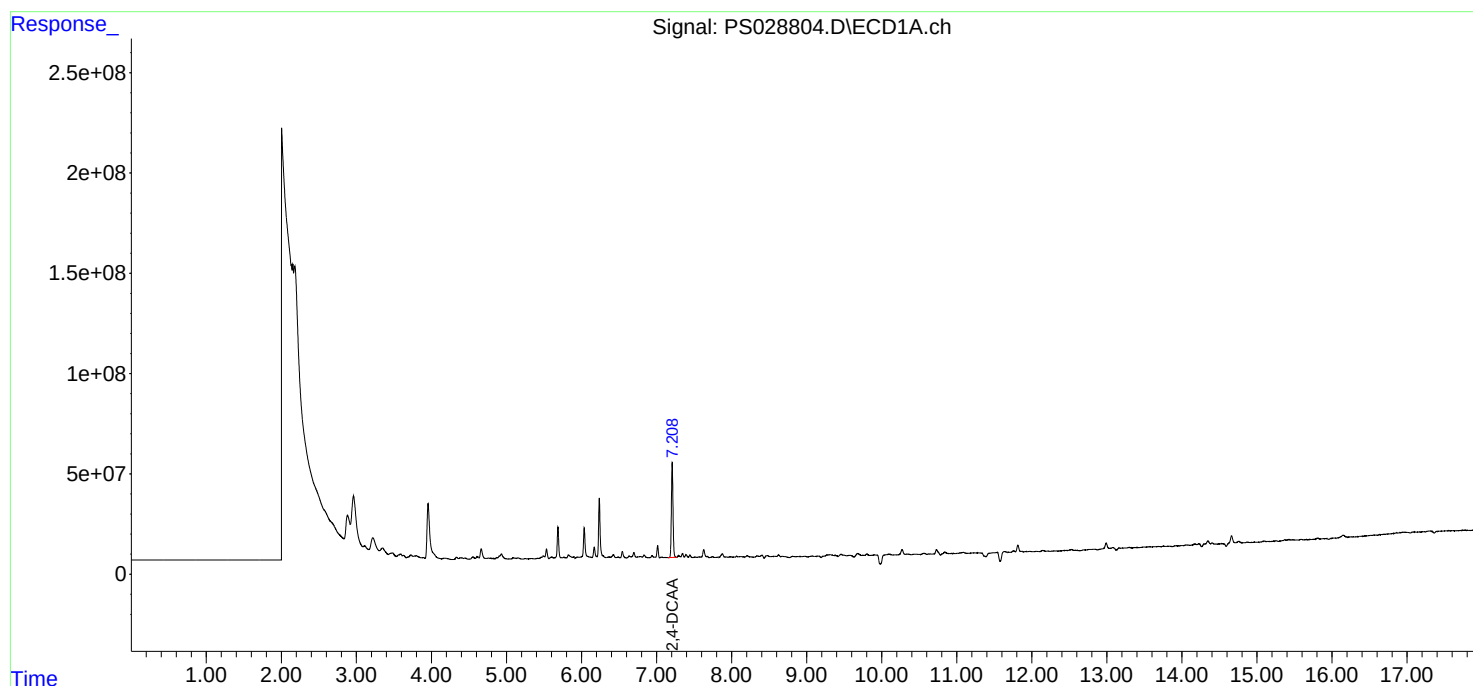
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

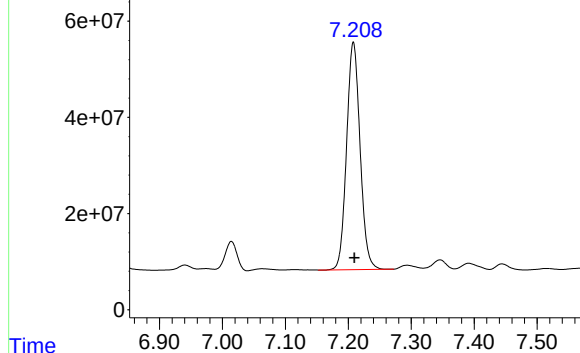
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS028804.D\ECD1A.ch

#4 2,4-DCAA



R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 703832292
Conc: 311.15 ng/ml

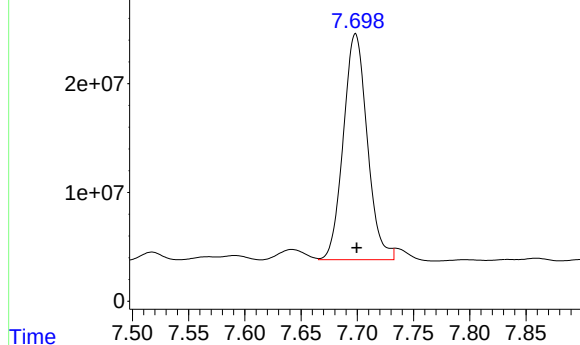
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Time Response_ Signal: PS028804.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.698 min
Delta R.T.: -0.001 min
Response: 308068923
Conc: 273.71 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-11-121224	SDG No.:	P5306
Lab Sample ID:	P5306-09	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	93.6 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028805.D	1	12/20/24 08:20	12/23/24 18:33	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.035	U	0.0093	0.035	0.072	mg/Kg
75-99-0	DALAPON	0.053	U	0.027	0.053	0.072	mg/Kg
120-36-5	DICHLORPROP	0.035	U	0.010	0.035	0.072	mg/Kg
94-75-7	2,4-D	0.035	U	0.013	0.035	0.072	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.035	U	0.010	0.035	0.072	mg/Kg
93-76-5	2,4,5-T	0.035	U	0.011	0.035	0.072	mg/Kg
94-82-6	2,4-DB	0.035	U	0.020	0.035	0.072	mg/Kg
88-85-7	DINOSEB	0.053	U	0.013	0.053	0.072	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	394		27 - 122		79%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028805.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:33
Operator : AR\AJ
Sample : P5306-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:56:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.206	7.695	891.1E6	385.0E6	393.938	342.042m

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028805.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:33
Operator : AR\AJ
Sample : P5306-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

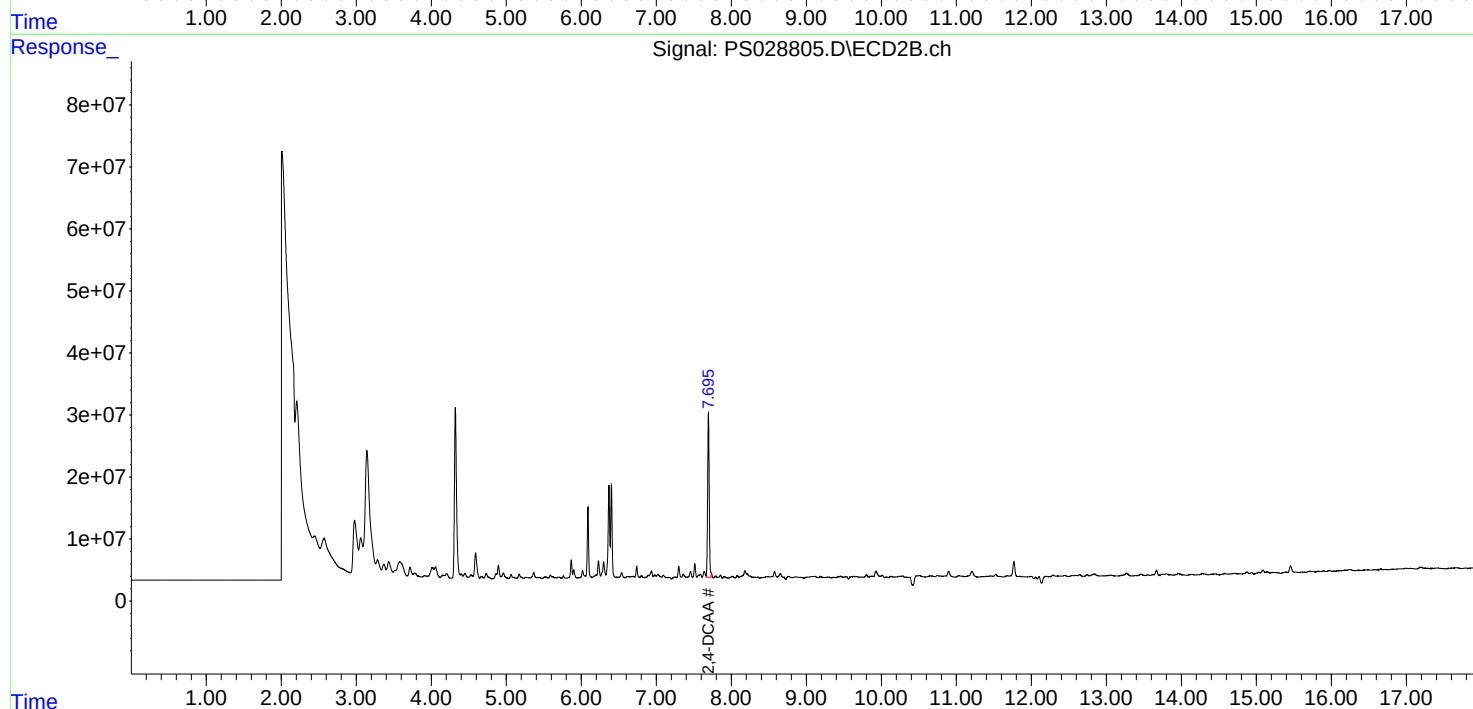
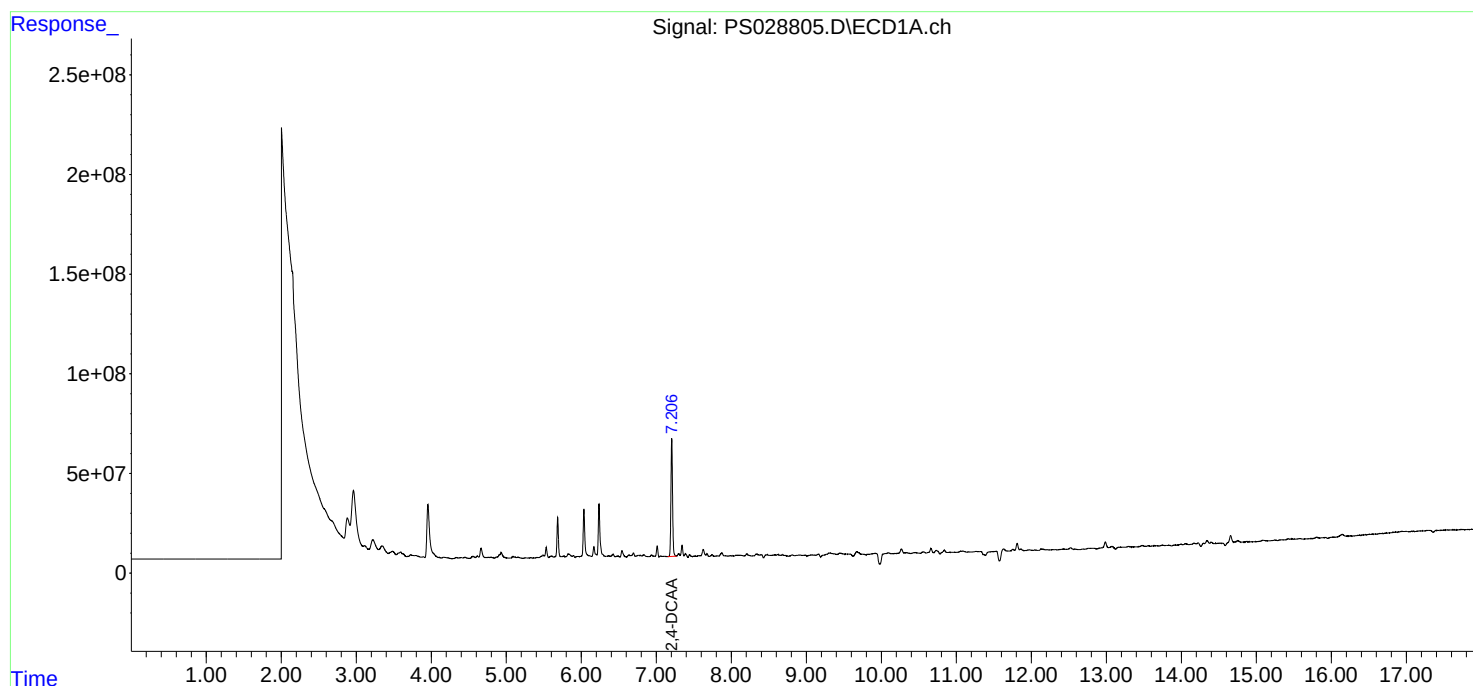
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224

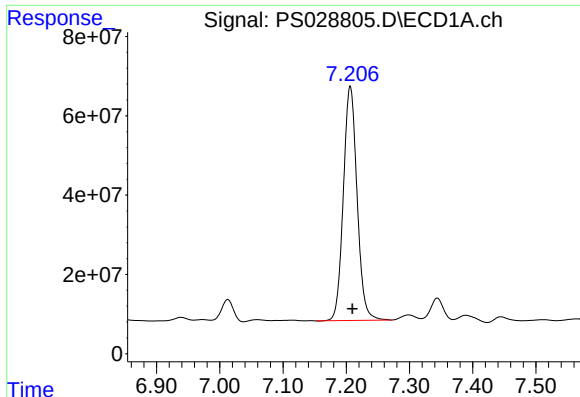
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 12/26/2024
Supervised By : Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:56:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





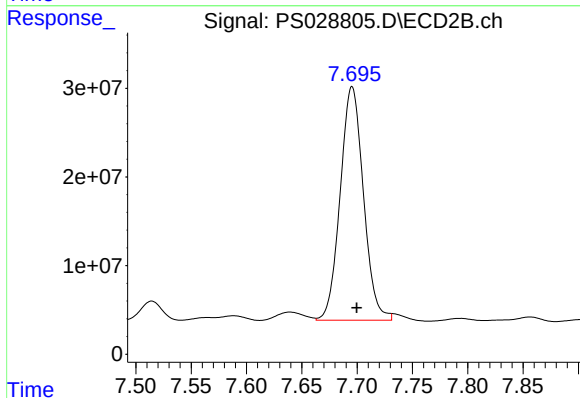
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.003 min
Response: 891096840
Conc: 393.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



#4 2,4-DCAA

R.T.: 7.695 min
Delta R.T.: -0.004 min
Response: 384981295
Conc: 342.04 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-12-121224	SDG No.:	P5306
Lab Sample ID:	P5306-11	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	90.8
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028806.D	1	12/20/24 08:20	12/23/24 18:57	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.036	U	0.0095	0.036	0.074	mg/Kg
75-99-0	DALAPON	0.055	U	0.027	0.055	0.074	mg/Kg
120-36-5	DICHLORPROP	0.036	U	0.011	0.036	0.074	mg/Kg
94-75-7	2,4-D	0.036	U	0.013	0.036	0.074	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.036	U	0.010	0.036	0.074	mg/Kg
93-76-5	2,4,5-T	0.036	U	0.011	0.036	0.074	mg/Kg
94-82-6	2,4-DB	0.036	U	0.020	0.036	0.074	mg/Kg
88-85-7	DINOSEB	0.055	U	0.014	0.055	0.074	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	373		27 - 122		75%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028806.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:57
Operator : AR\AJ
Sample : P5306-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:56:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.206	7.695	844.0E6	377.0E6	373.113	334.939m

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028806.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:57
Operator : AR\AJ
Sample : P5306-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

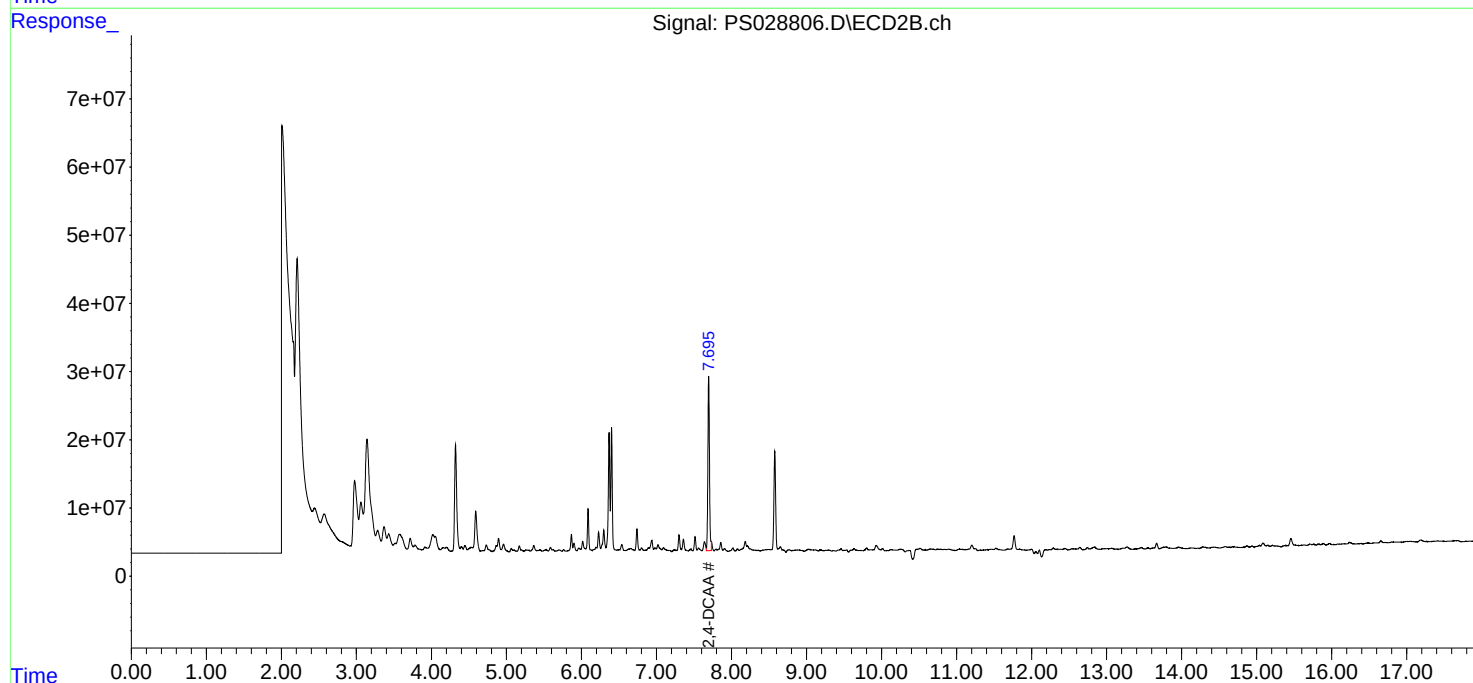
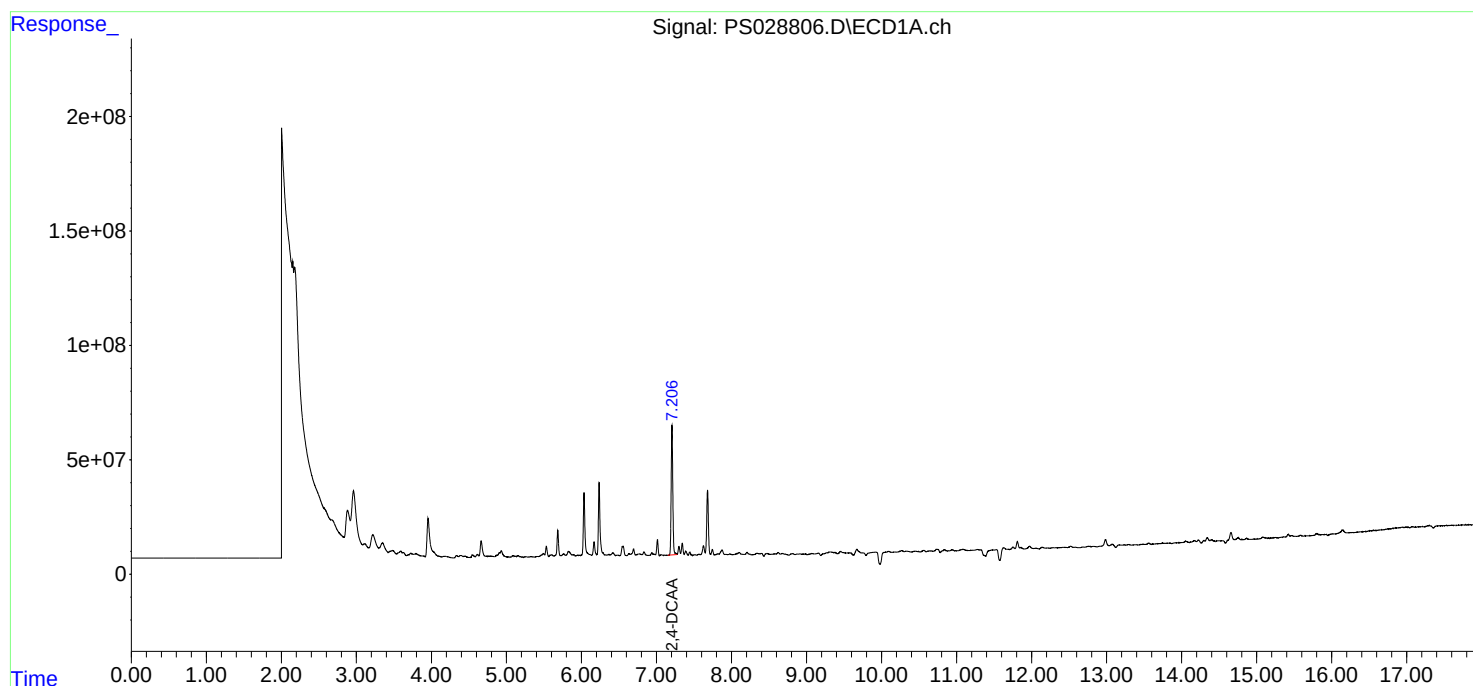
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

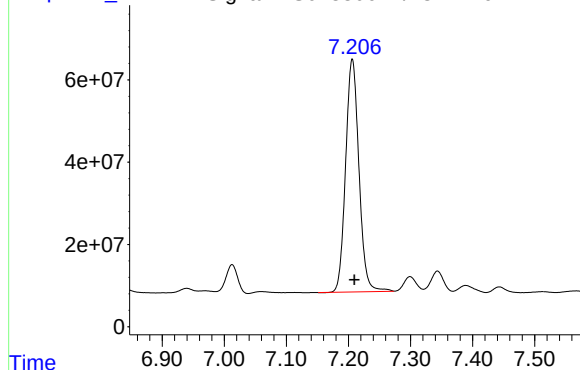
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:56:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Signal: PS028806.D\ECD1A.ch

#4 2,4-DCAA



R.T.: 7.206 min
Delta R.T.: -0.003 min
Response: 843992259
Conc: 373.11 ng/ml

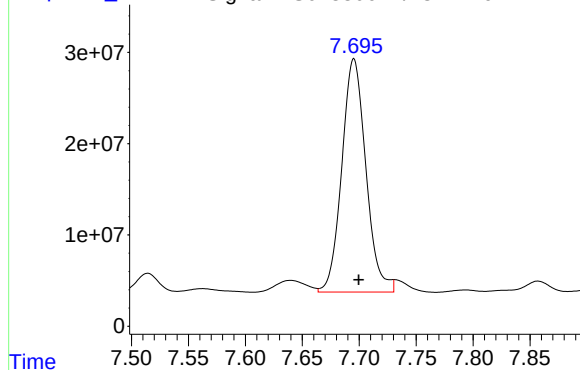
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Signal: PS028806.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.695 min
Delta R.T.: -0.005 min
Response: 376986928
Conc: 334.94 ng/ml m

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-13-121224	SDG No.:	P5306
Lab Sample ID:	P5306-13	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	90
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028821.D	1	12/20/24 08:20	12/26/24 17:05	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.037	U	0.0096	0.037	0.074	mg/Kg
75-99-0	DALAPON	0.056	U	0.028	0.056	0.074	mg/Kg
120-36-5	DICHLORPROP	0.037	U	0.011	0.037	0.074	mg/Kg
94-75-7	2,4-D	0.037	U	0.013	0.037	0.074	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.037	U	0.010	0.037	0.074	mg/Kg
93-76-5	2,4,5-T	0.037	U	0.011	0.037	0.074	mg/Kg
94-82-6	2,4-DB	0.037	U	0.020	0.037	0.074	mg/Kg
88-85-7	DINOSEB	0.056	U	0.014	0.056	0.074	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	295		27 - 122		59%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028821.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 17:05
 Operator : AR\AJ
 Sample : P5306-13
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-13-121224

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/27/2024
 Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:42:03 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.208	7.693	666.7E6	275.9E6	294.751	245.115m

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028821.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 17:05
Operator : AR\AJ
Sample : P5306-13
Misc :
ALS Vial : 4 Sample Multiplier: 1

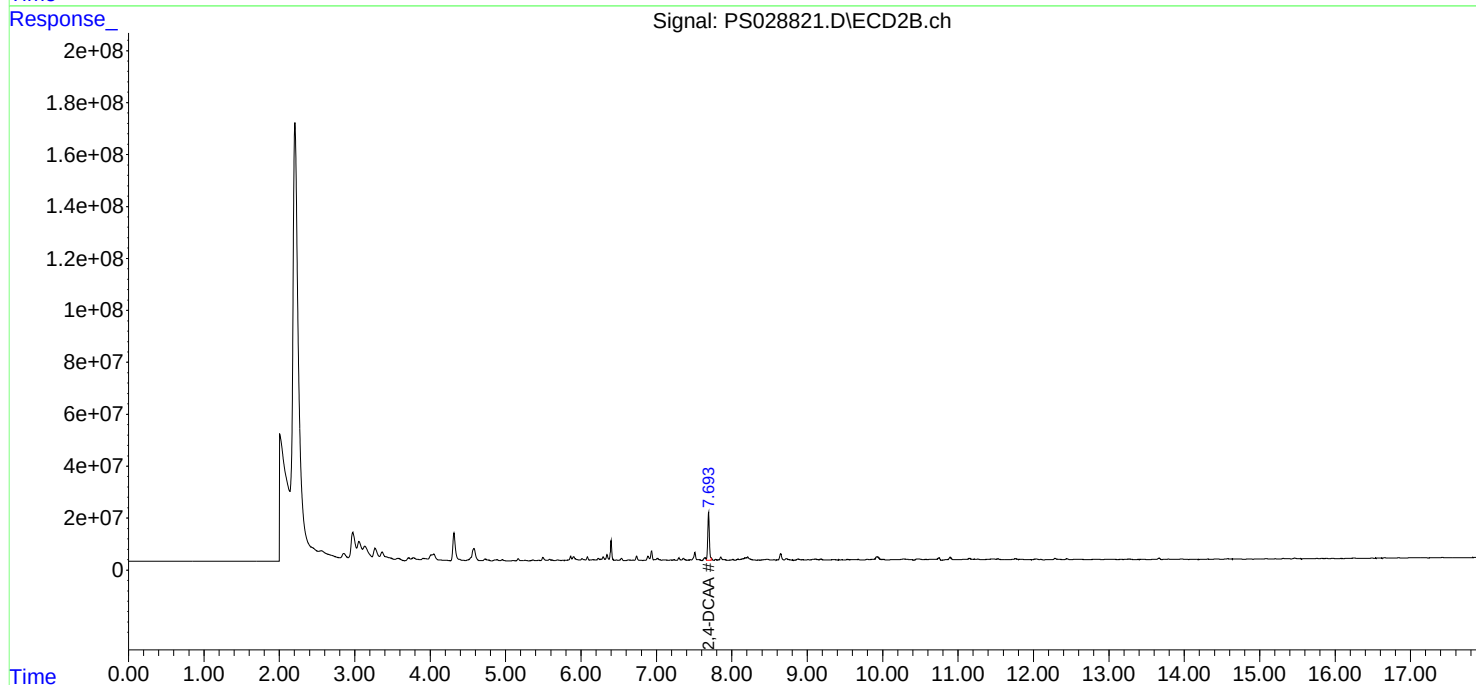
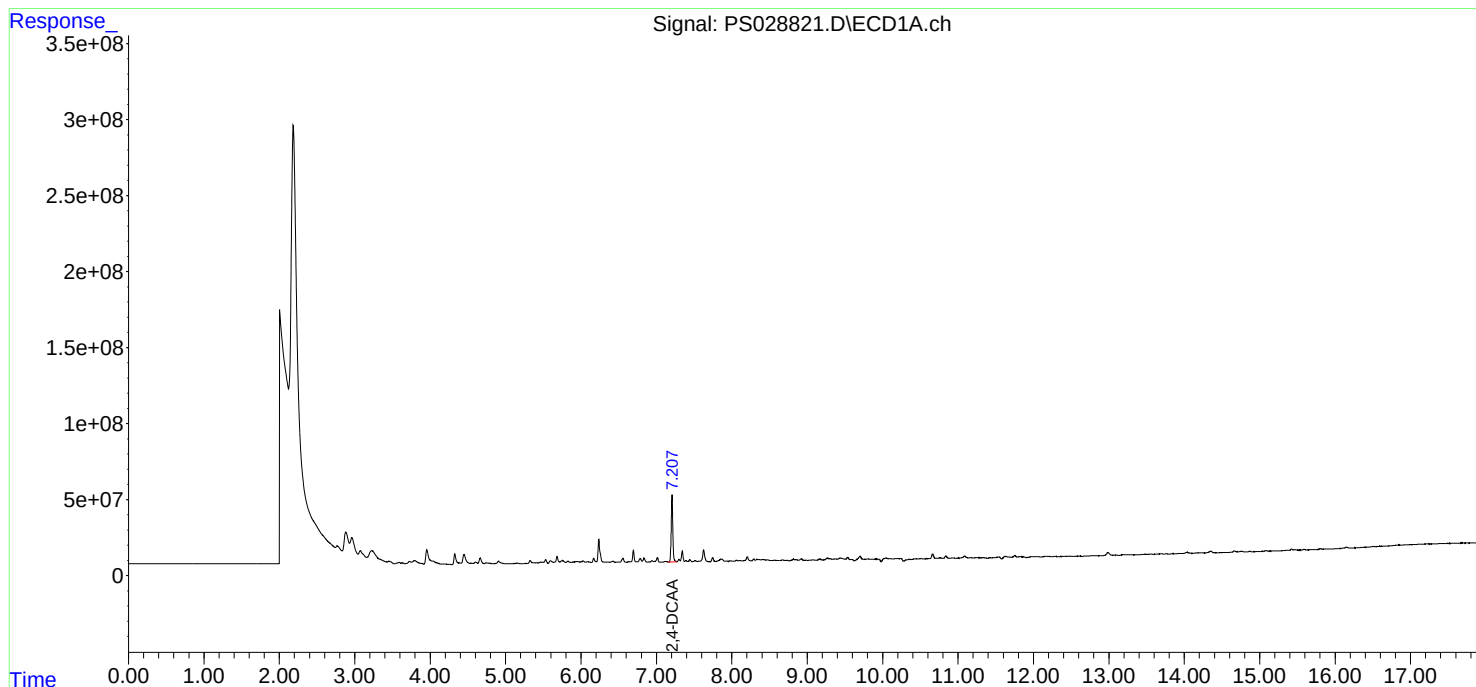
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-13-121224

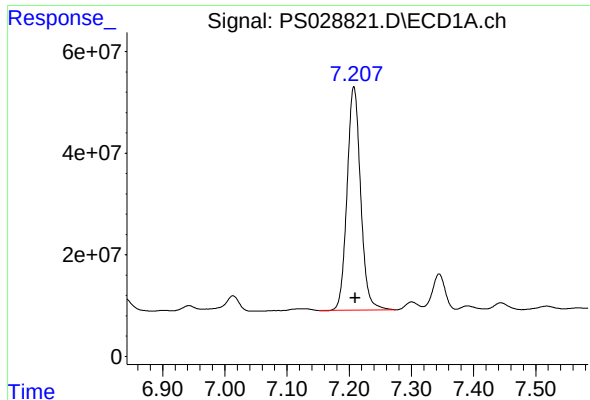
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:42:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





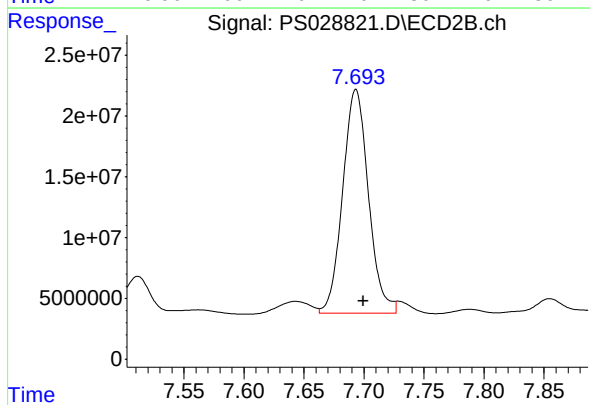
#4 2,4-DCAA

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 666735054
Conc: 294.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-13-121224

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



#4 2,4-DCAA

R.T.: 7.693 min
Delta R.T.: -0.007 min
Response: 275886286
Conc: 245.12 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-14-121224	SDG No.:	P5306
Lab Sample ID:	P5306-15	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	95.9 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028851.D	1	12/20/24 08:20	12/30/24 11:14	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.034	U	0.0090	0.034	0.070	mg/Kg
75-99-0	DALAPON	0.052	U	0.026	0.052	0.070	mg/Kg
120-36-5	DICHLORPROP	0.034	U	0.0099	0.034	0.070	mg/Kg
94-75-7	2,4-D	0.034	U	0.013	0.034	0.070	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.034	U	0.0098	0.034	0.070	mg/Kg
93-76-5	2,4,5-T	0.034	U	0.011	0.034	0.070	mg/Kg
94-82-6	2,4-DB	0.034	U	0.019	0.034	0.070	mg/Kg
88-85-7	DINOSEB	0.052	UM	0.013	0.052	0.070	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	512		27 - 122		102%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028851.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 11:14
Operator : AR\AJ
Sample : P5306-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:37:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.209	7.694	1158.9E6	448.3E6	512.340	398.260

Target Compounds

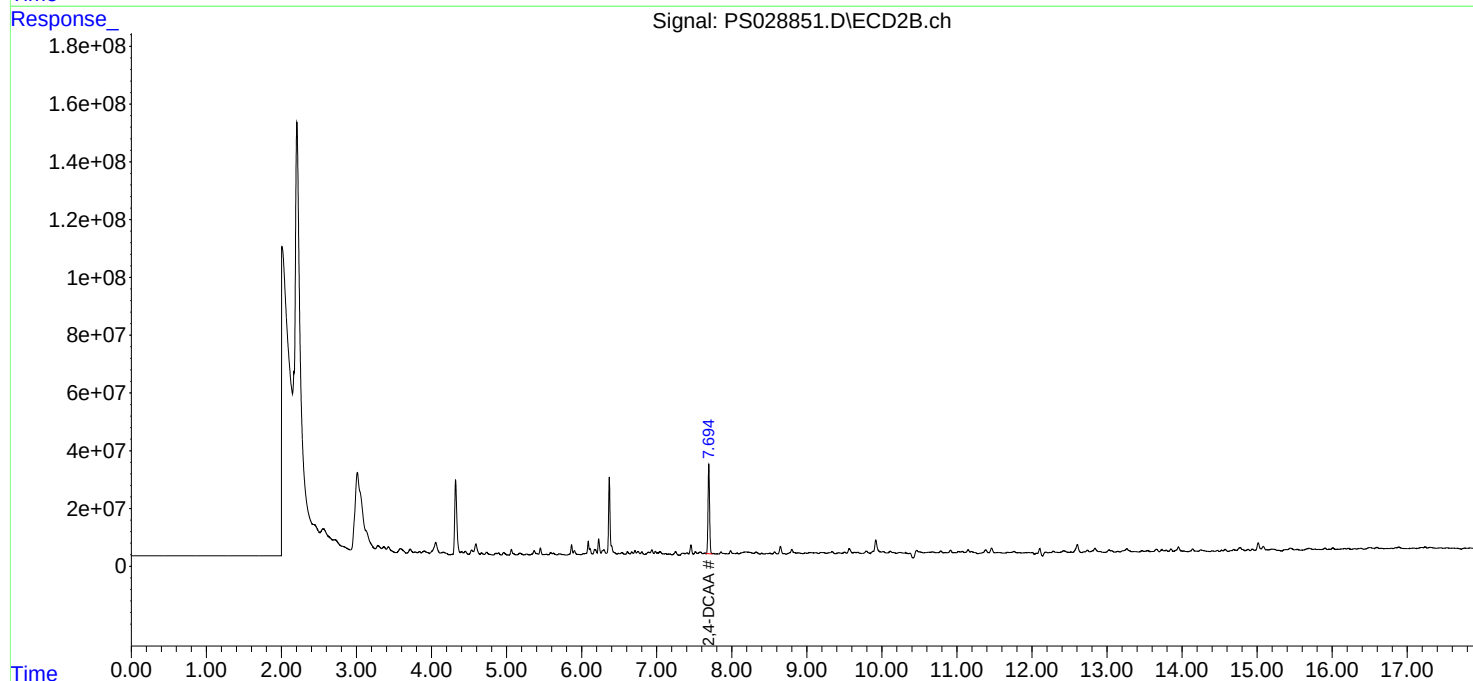
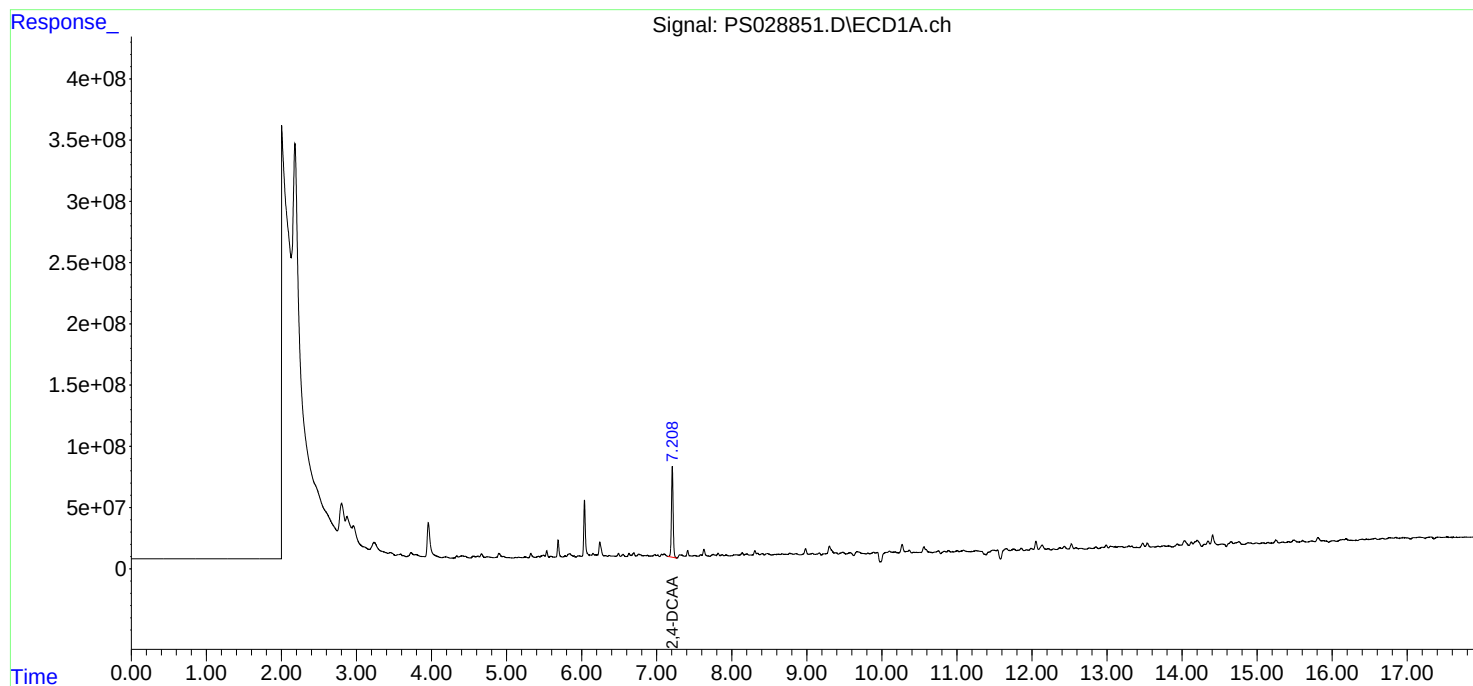
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028851.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 11:14
Operator : AR\AJ
Sample : P5306-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:37:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response

Signal: PS028851.D\ECD1A.ch

#4 2,4-DCAA

R.T.: 7.209 min

Delta R.T.: -0.001 min

Response: 1158925510

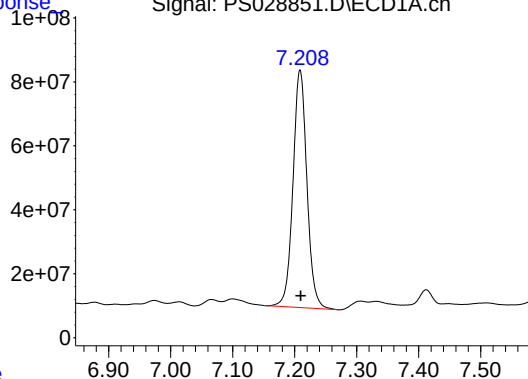
Conc: 512.34 ng/ml

Instrument :

ECD_S

ClientSampleId :

OU4-VSL-14-121224



Time

Response_

Signal: PS028851.D\ECD2B.ch

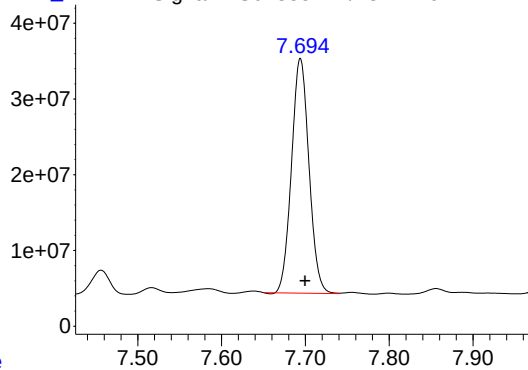
#4 2,4-DCAA

R.T.: 7.694 min

Delta R.T.: -0.005 min

Response: 448256950

Conc: 398.26 ng/ml



Time



CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: NOBI03
Lab Code: CHEM **Case No.:** P5306 **SAS No.:** P5306 **SDG NO.:** P5306
Instrument ID: ECD_S **Calibration Date(s):** 12/23/2024 12/23/2024
Calibration Times: 11:23 12:59

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID:	RT 200 = <u>PS028787.D</u>	RT 500 = <u>PS028788.D</u>
RT 750 = <u>PS028789.D</u>	RT 1000 = <u>PS028790.D</u>	RT 1500 = <u>PS028791.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	9.50	9.50	9.50	9.50	9.50	9.50	9.40	9.60
2,4,5-TP(Silvex)	9.21	9.21	9.21	9.21	9.21	9.21	9.11	9.31
2,4-D	8.33	8.33	8.33	8.33	8.33	8.33	8.23	8.43
2,4-DB	10.07	10.07	10.07	10.07	10.07	10.07	9.97	10.17
2,4-DCAA	7.21	7.21	7.21	7.21	7.21	7.21	7.11	7.31
Dalapon	2.62	2.62	2.62	2.62	2.62	2.62	2.52	2.72
DICAMBA	7.40	7.40	7.40	7.40	7.40	7.40	7.30	7.50
DICHLORPROP	8.10	8.10	8.10	8.10	8.10	8.10	8.00	8.20
Dinoseb	11.28	11.28	11.28	11.28	11.28	11.28	11.18	11.38

RETENTION TIMES OF INITIAL CALIBRATION

Contract: NOBI03
Lab Code: CHEM **Case No.:** P5306 **SAS No.:** P5306 **SDG NO.:** P5306
Instrument ID: ECD_S **Calibration Date(s):** 12/23/2024 12/23/2024
Calibration Times: 11:23 12:59

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID:	RT 200 = <u>PS028787.D</u>	RT 500 = <u>PS028788.D</u>
RT 750 = <u>PS028789.D</u>	RT 1000 = <u>PS028790.D</u>	RT 1500 = <u>PS028791.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	10.26	10.26	10.26	10.26	10.26	10.26	10.16	10.36
2,4,5-TP(Silvex)	9.84	9.84	9.84	9.84	9.84	9.84	9.74	9.94
2,4-D	8.94	8.94	8.94	8.94	8.94	8.94	8.84	9.04
2,4-DB	10.83	10.83	10.83	10.83	10.83	10.83	10.73	10.93
2,4-DCAA	7.70	7.70	7.70	7.70	7.70	7.70	7.60	7.80
Dalapon	2.67	2.68	2.67	2.68	2.67	2.67	2.57	2.77
DICAMBA	7.90	7.90	7.90	7.90	7.90	7.90	7.80	8.00
DICHLORPROP	8.61	8.61	8.61	8.61	8.61	8.61	8.51	8.71
Dinoseb	11.20	11.20	11.20	11.20	11.20	11.20	11.10	11.30

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03
Lab Code: CHEM **Case No.:** P5306 **SAS No.:** P5306 **SDG NO.:** P5306
Instrument ID: ECD_S **Calibration Date(s):** 12/23/2024 12/23/2024
Calibration Times: 11:23 12:59
GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:CF 200 = PS028787.DCF 500 = PS028788.D CF 750 = PS028789.DCF 1000 = PS028790.DCF 1500 = PS028791.D							
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	17580500000	16639500000	16347600000	15779000000	14999300000	16269200000	6
2,4,5-TP(Silvex)	16812700000	15996100000	15801400000	15298000000	14638400000	15709300000	5
2,4-D	3146520000	2896320000	2842430000	2725340000	2637060000	2849530000	7
2,4-DB	3660040000	3051700000	3033080000	2964890000	2898270000	3121600000	10
2,4-DCAA	2519360000	2280310000	2254700000	2149750000	2106010000	2262030000	7
Dalapon	2747460000	2784650000	2846620000	2846290000	2858230000	2816650000	2
DICAMBA	10167200000	9942320000	9945990000	9754170000	9493500000	9860640000	3
DICHLORPROP	2932600000	2679710000	2628040000	2561420000	2464120000	2653180000	7
Dinoseb	14555700000	13638800000	13476300000	13043200000	12494700000	13441700000	6

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03
Lab Code: CHEM **Case No.:** P5306 **SAS No.:** P5306 **SDG NO.:** P5306
Instrument ID: ECD_S **Calibration Date(s):** 12/23/2024 12/23/2024
Calibration Times: 11:23 12:59
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028787.D</u>		CF 500 = <u>PS028788.D</u>			
CF 750 = <u>PS028789.D</u>		CF 1000 = <u>PS028790.D</u>		CF 1500 = <u>PS028791.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	8965890000	8783850000	8794420000	8621760000	8380000000	8709190000	3
2,4,5-TP(Silvex)	9147430000	9053780000	9109830000	8920050000	8686470000	8983510000	2
2,4-D	1472990000	1449810000	1452790000	1429890000	1410250000	1443150000	2
2,4-DB	921491000	976969000	990274000	982299000	984454000	971097000	3
2,4-DCAA	1184820000	1126220000	1123240000	1104090000	1089310000	1125540000	3
Dalapon	1992810000	1963420000	1977050000	1960700000	1949030000	1968600000	1
DICAMBA	5310780000	5440880000	5583590000	5567420000	5546680000	5489870000	2
DICHLORPROP	1417420000	1382350000	1388470000	1363260000	1346790000	1379660000	2
Dinoseb	6619850000	6117440000	6148830000	6024900000	5884730000	6159150000	5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028787.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 11:23
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/26/2024

Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 13:43:30 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.210	7.699	503.9E6	237.0E6	222.752	210.534
Target Compounds							
1) T	Dalapon	2.620	2.673	500.0E6	362.7E6	177.529	184.238
2) T	3,5-DICHL...	6.385	6.661	668.9E6	323.0E6	203.004	194.854
3) T	4-Nitroph...	7.008	7.228	299.9E6	166.2E6	199.645	198.584
5) T	DICAMBA	7.396	7.897	1911.4E6	998.4E6	193.846	181.867
6) T	MCPD	7.574	7.997	100.3E6	58391123	16.119m	17.869
7) T	MCPA	7.723	8.239	151.0E6	85488472	17.227	18.453
8) T	DICHLORPROP	8.101	8.611	551.3E6	266.5E6	207.799	193.146
9) T	2,4-D	8.331	8.939	591.5E6	276.9E6	207.594	191.888
10) T	Pentachlo...	8.628	9.464	8263.2E6	4286.0E6	211.512	196.616
11) T	2,4,5-TP ...	9.205	9.842	3194.4E6	1738.0E6	203.346	193.467
12) T	2,4,5-T	9.498	10.260	3340.3E6	1703.5E6	205.314	195.600
13) T	2,4-DB	10.069	10.826	695.4E6	175.1E6	222.773	180.294
14) T	DINOSEB	11.276	11.204	2736.5E6	1244.5E6	203.581	202.062
15) T	Picloram	11.084	12.292	5334.3E6	2328.7E6	198.947	181.377
16) T	DCPA	11.570	12.245	4983.4E6	2065.0E6	207.201	192.188

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:23
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

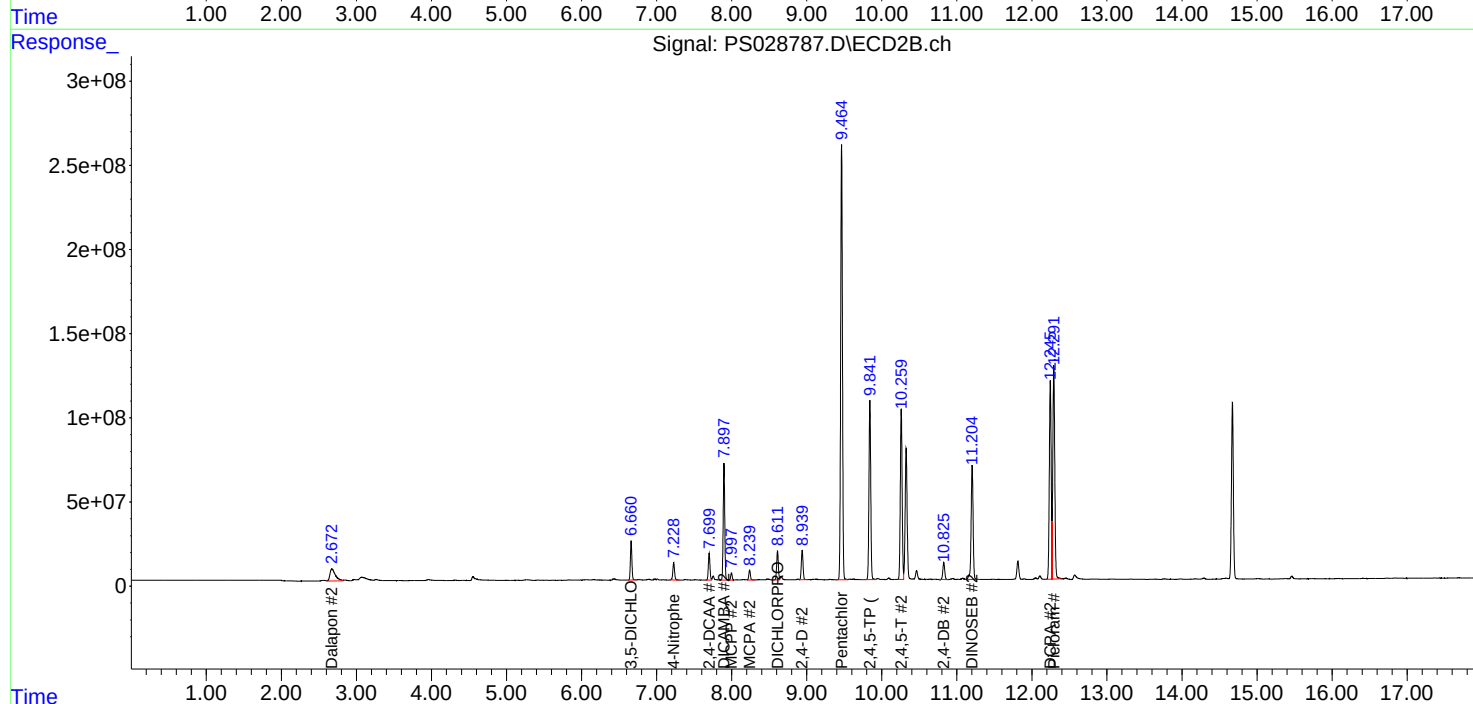
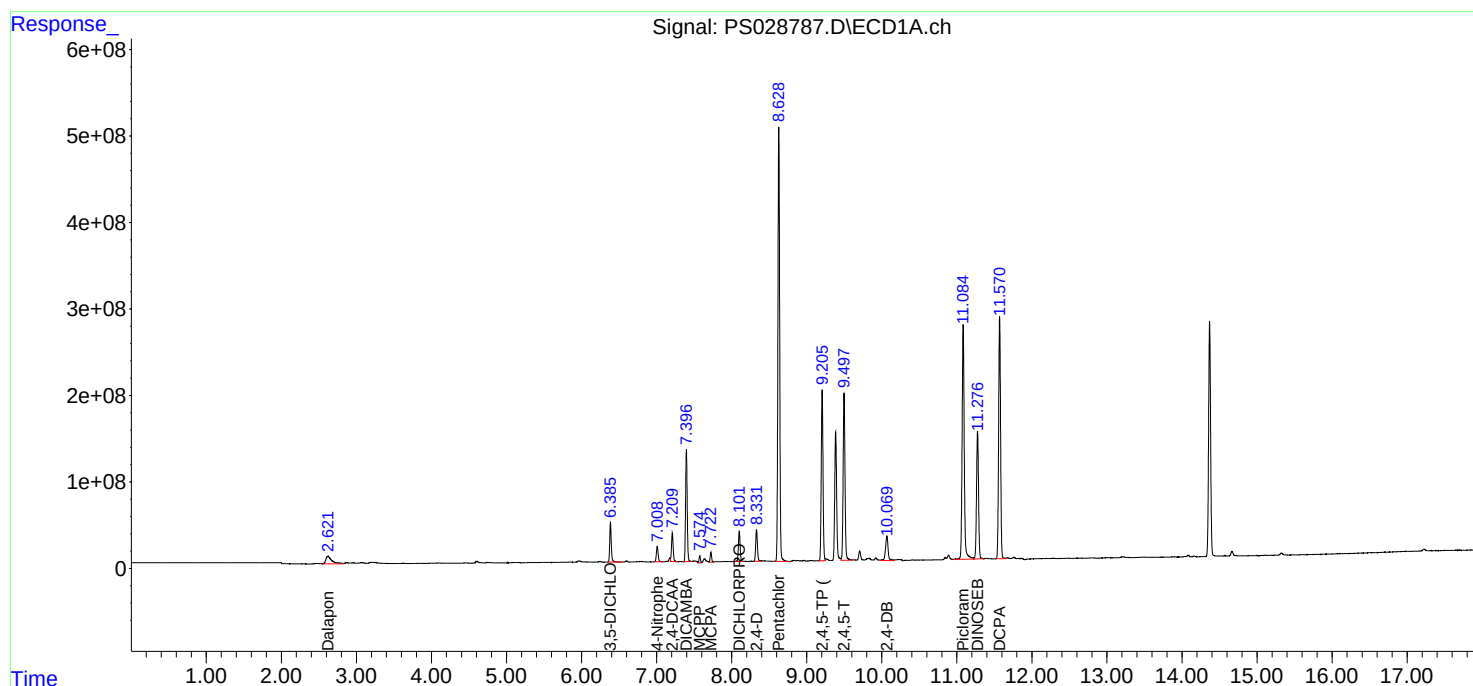
APPROVED

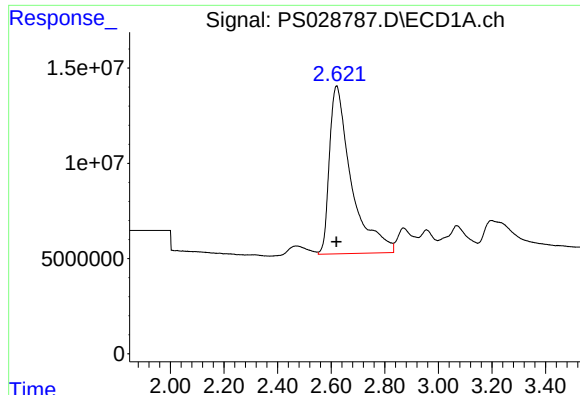
Reviewed By :Abdul Mirza 12/26/2024

Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:43:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





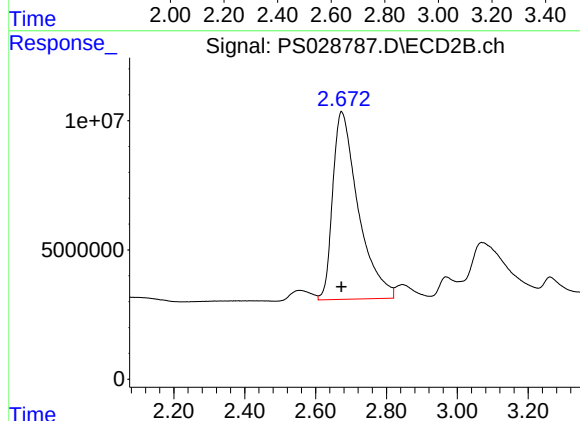
#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 500038468
Conc: 177.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

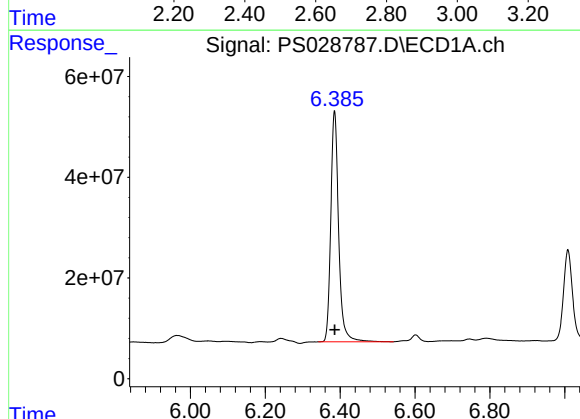
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



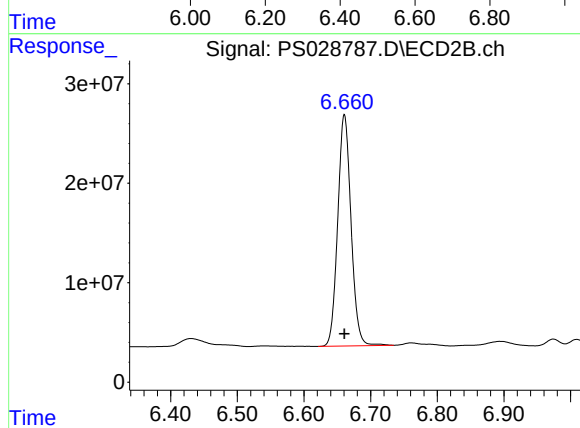
#1 Dalapon

R.T.: 2.673 min
Delta R.T.: 0.000 min
Response: 362691844
Conc: 184.24 ng/ml



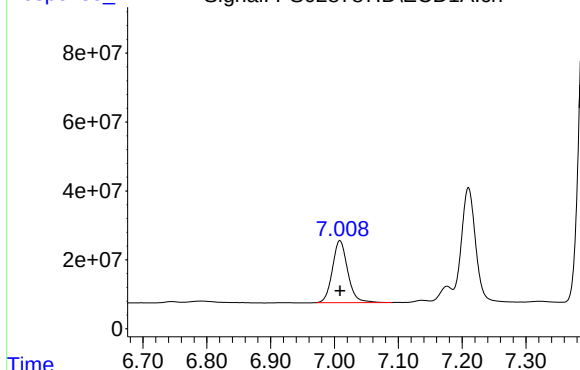
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 668926243
Conc: 203.00 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.661 min
Delta R.T.: 0.000 min
Response: 322985148
Conc: 194.85 ng/ml



R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 299878461
Conc: 199.65 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

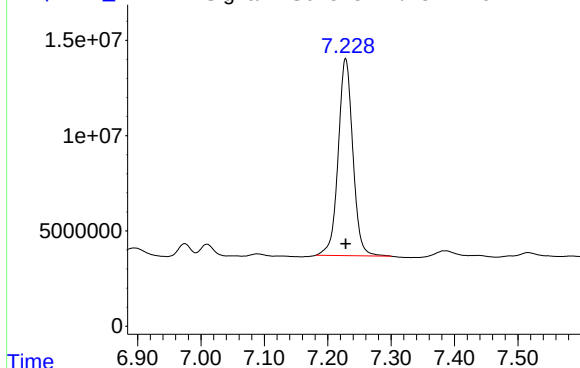
Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Time

Response_

Signal: PS028787.D\ECD2B.ch

#3 4-Nitrophenol



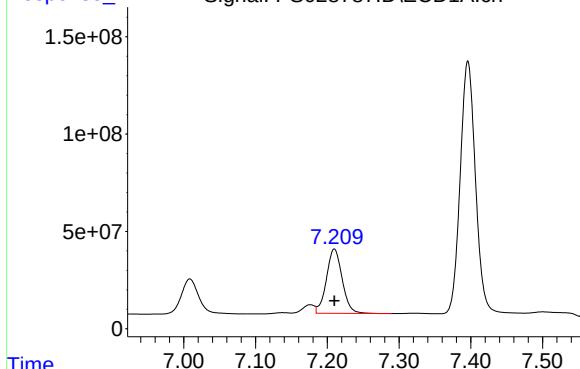
R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 166193367
Conc: 198.58 ng/ml

Time

Response_

Signal: PS028787.D\ECD1A.ch

#4 2,4-DCAA



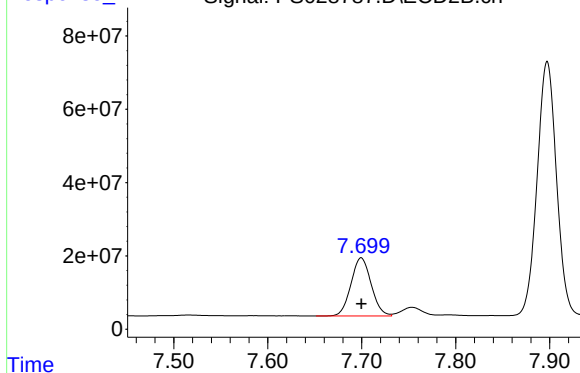
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 503871113
Conc: 222.75 ng/ml

Time

Response_

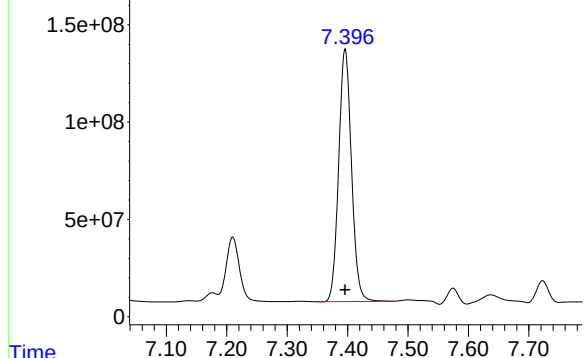
Signal: PS028787.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 236963416
Conc: 210.53 ng/ml

Response_ Signal: PS028787.D\ECD1A.ch



#5 DICAMBA

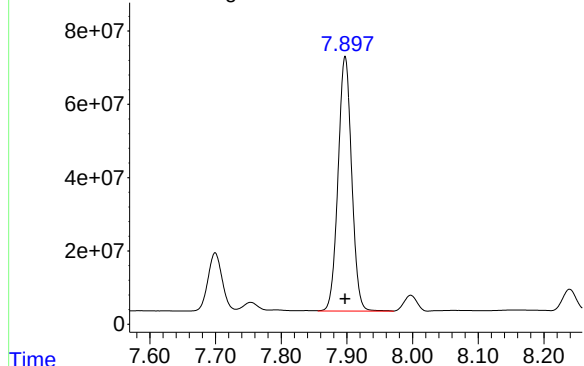
R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 1911442793
Conc: 193.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

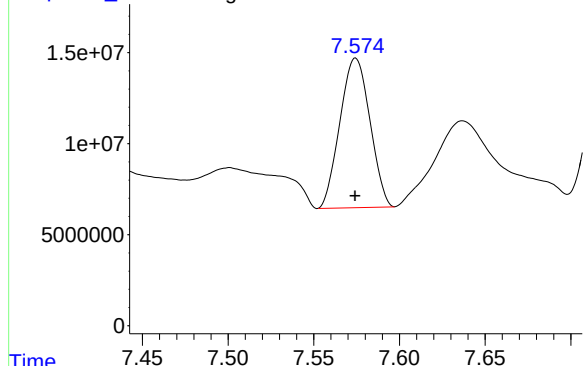
Time Response_ Signal: PS028787.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.897 min
Delta R.T.: 0.000 min
Response: 998426779
Conc: 181.87 ng/ml

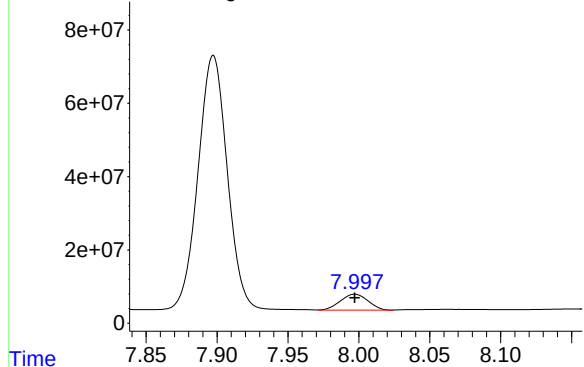
Time Response_ Signal: PS028787.D\ECD1A.ch



#6 MCP

R.T.: 7.574 min
Delta R.T.: 0.000 min
Response: 100286284
Conc: 16.12 ug/ml m

Time Response_ Signal: PS028787.D\ECD2B.ch



#6 MCP

R.T.: 7.997 min
Delta R.T.: 0.000 min
Response: 58391123
Conc: 17.87 ug/ml

Response_ Signal: PS028787.D\ECD1A.ch

#7 MCPA

R.T.: 7.723 min
Delta R.T.: 0.000 min
Response: 151004248
Conc: 17.23 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Time

Response_ Signal: PS028787.D\ECD2B.ch

#7 MCPA

R.T.: 8.239 min
Delta R.T.: 0.000 min
Response: 85488472
Conc: 18.45 ug/ml

Time

Response_ Signal: PS028787.D\ECD1A.ch

#8 DICHLORPROP

R.T.: 8.101 min
Delta R.T.: 0.000 min
Response: 551327966
Conc: 207.80 ng/ml

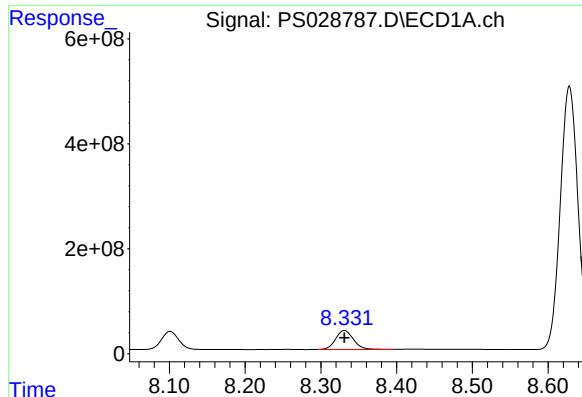
Time

Response_ Signal: PS028787.D\ECD2B.ch

#8 DICHLORPROP

R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 266475549
Conc: 193.15 ng/ml

Time



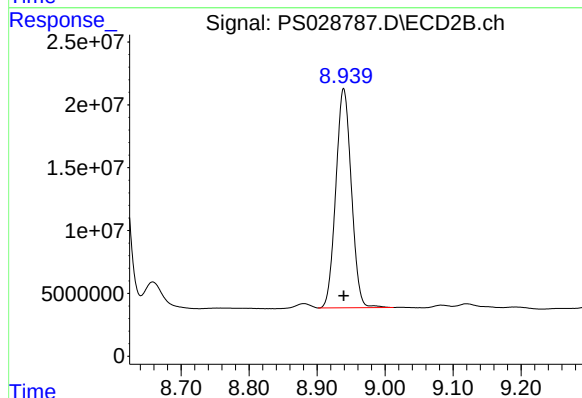
#9 2,4-D

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 591545661
Conc: 207.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

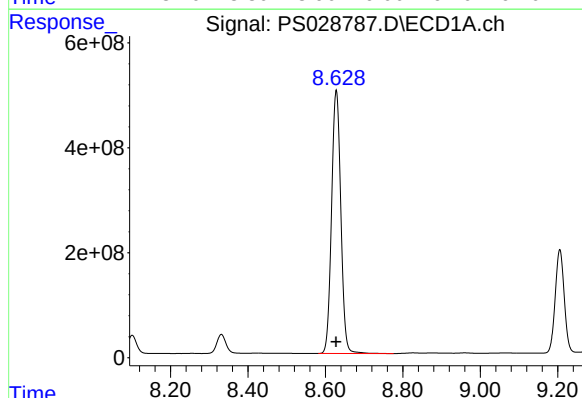
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



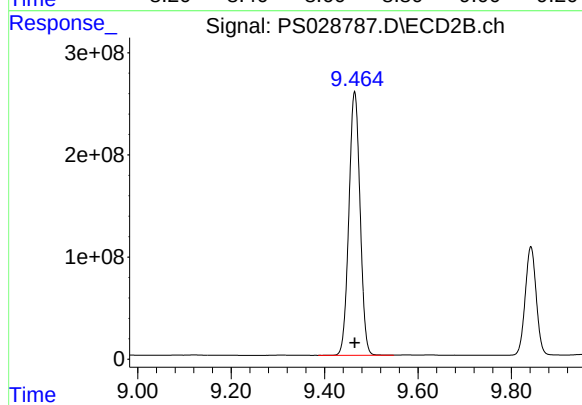
#9 2,4-D

R.T.: 8.939 min
Delta R.T.: 0.000 min
Response: 276921663
Conc: 191.89 ng/ml



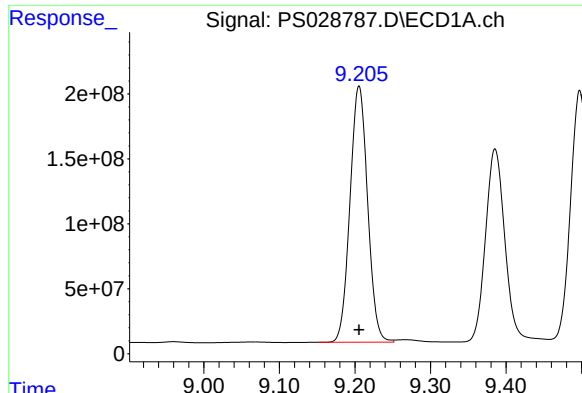
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 8263150461
Conc: 211.51 ng/ml



#10 Pentachlorophenol

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 4285983917
Conc: 196.62 ng/ml



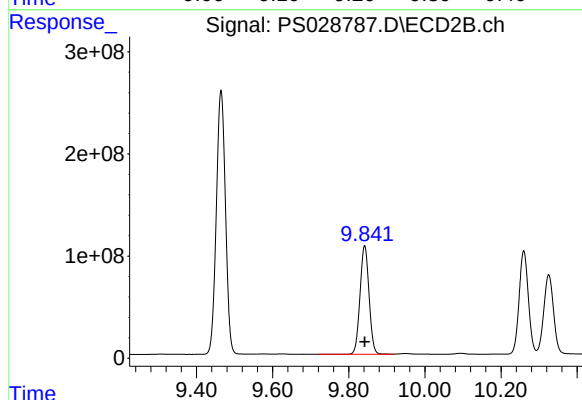
#11 2,4,5-TP (SILVEX)

R.T.: 9.205 min
Delta R.T.: 0.000 min
Response: 3194421416
Conc: 203.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

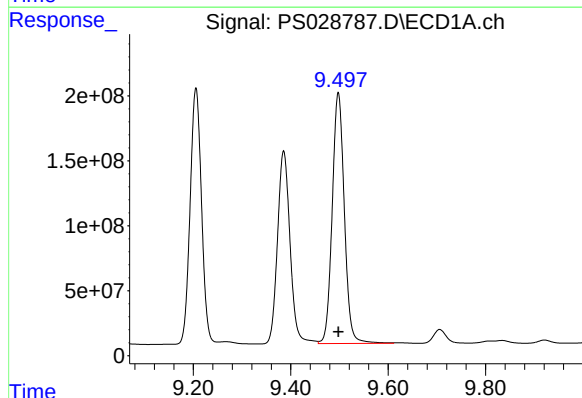
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



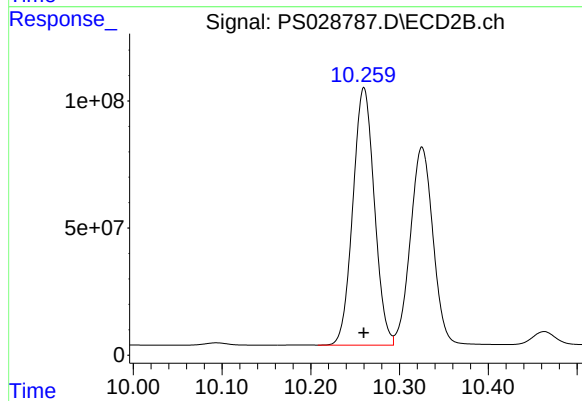
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 1738011876
Conc: 193.47 ng/ml



#12 2,4,5-T

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 3340298408
Conc: 205.31 ng/ml



#12 2,4,5-T

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 1703520011
Conc: 195.60 ng/ml

Response_ Signal: PS028787.D\ECD1A.ch

#13 2,4-DB

R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 695408240
Conc: 222.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Time

Response_ Signal: PS028787.D\ECD2B.ch

#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 175083291
Conc: 180.29 ng/ml

Time

Response_ Signal: PS028787.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml

Time

Response_ Signal: PS028787.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml

Time

Response_ Signal: PS028787.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml

Time

Response_ Signal: PS028787.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml

Time

Response_ Signal: PS028787.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml

Time

Response_ Signal: PS028787.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml

Time

Response_ Signal: PS028787.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml

Time

Response_ Signal: PS028787.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml

Time

Response_ Signal: PS028787.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml

Time

Response_ Signal: PS028787.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml

Time

Response_ Signal: PS028787.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml

Time

Response_ Signal: PS028787.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml

Time

Response_ Signal: PS028787.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml

Time

Response_ Signal: PS028787.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml

Time

Response_ Signal: PS028787.D\ECD1A.ch

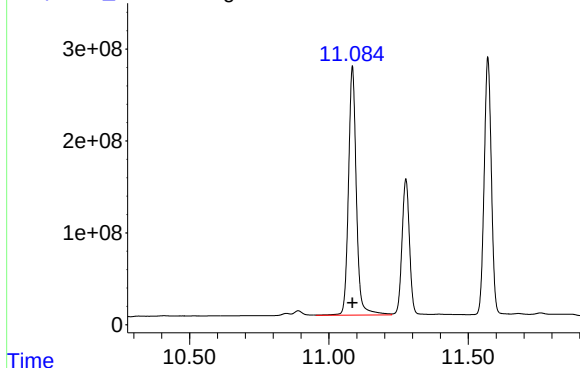
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml

Time

Response_ Signal: PS028787.D\ECD2B.ch

#14 DINOSEB

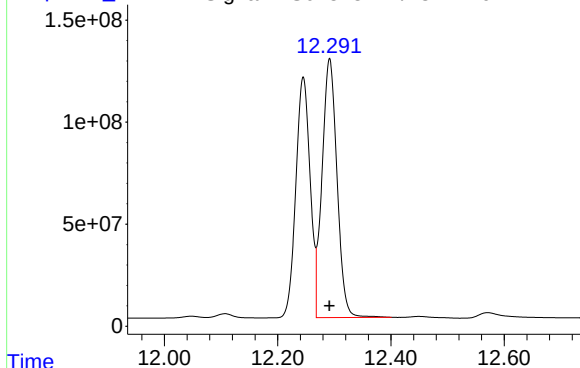


R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 5334309678
Conc: 198.95 ng/ml

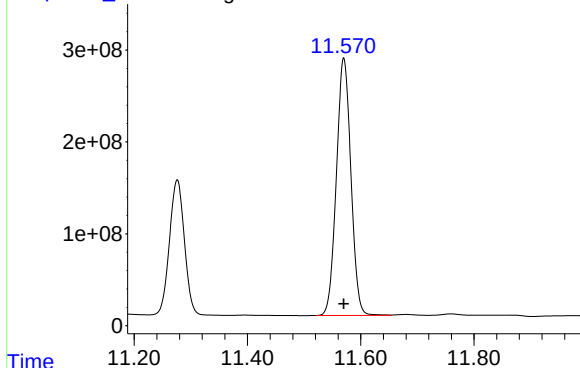
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

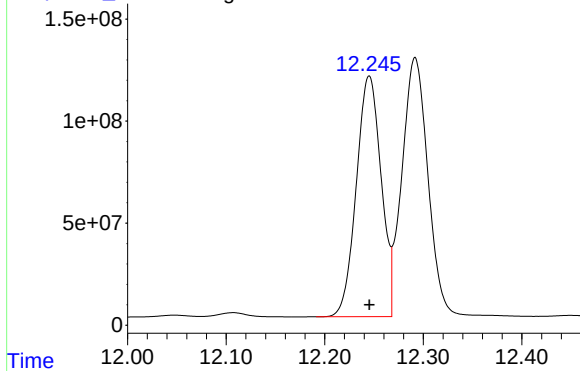
Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 2328698069
Conc: 181.38 ng/ml



R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 4983398928
Conc: 207.20 ng/ml



R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 2064979082
Conc: 192.19 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028788.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 11:47
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 13:41:31 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.210	7.699	1140.2E6	563.1E6	518.796	506.979
Target Compounds							
1) T	Dalapon	2.620	2.675	1267.0E6	893.4E6	447.085	455.201
2) T	3,5-DICHL...	6.385	6.660	1544.2E6	770.3E6	479.600	470.291
3) T	4-Nitroph...	7.009	7.228	669.6E6	375.2E6	456.834	458.816
5) T	DICAMBA	7.396	7.898	4672.9E6	2557.2E6	477.606	462.038
6) T	MCPD	7.577	8.000	285.1E6	152.1E6	44.195	45.964
7) T	MCPA	7.726	8.242	401.7E6	215.2E6	44.993	46.357
8) T	DICHLORPROP	8.102	8.611	1259.5E6	649.7E6	487.537	474.162
9) T	2,4-D	8.331	8.940	1361.3E6	681.4E6	490.497	474.623
10) T	Pentachlo...	8.629	9.465	19572.0E6	10612.4E6	515.580	491.111
11) T	2,4,5-TP ...	9.206	9.842	7598.2E6	4300.5E6	492.316	480.909
12) T	2,4,5-T	9.497	10.260	7903.8E6	4172.3E6	495.804	482.629
13) T	2,4-DB	10.069	10.826	1449.6E6	464.1E6	485.291	471.846
14) T	DINOSEB	11.276	11.204	6410.2E6	2875.2E6	486.980	475.713
15) T	Picloram	11.085	12.293	12828.2E6	6048.5E6	484.133	465.818
16) T	DCPA	11.571	12.245	11834.6E6	5192.5E6	502.000	483.387

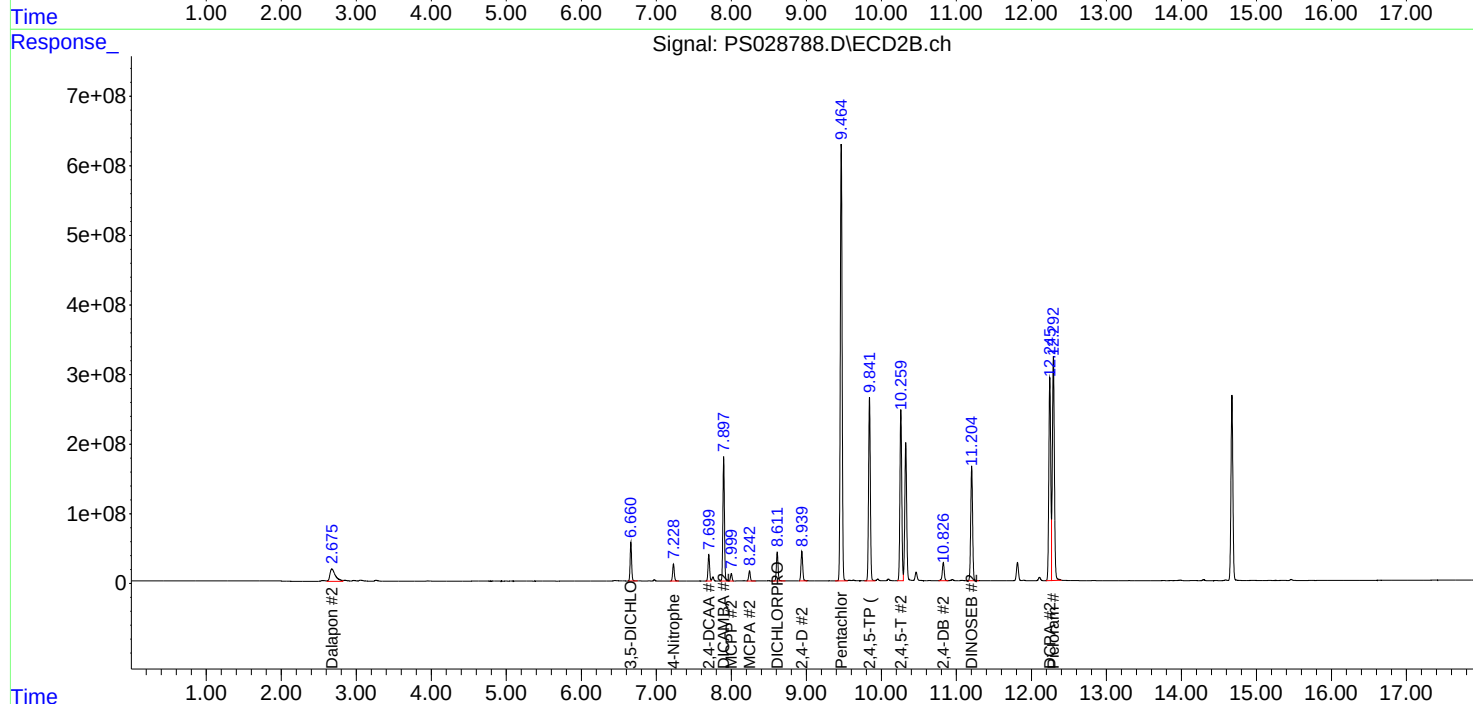
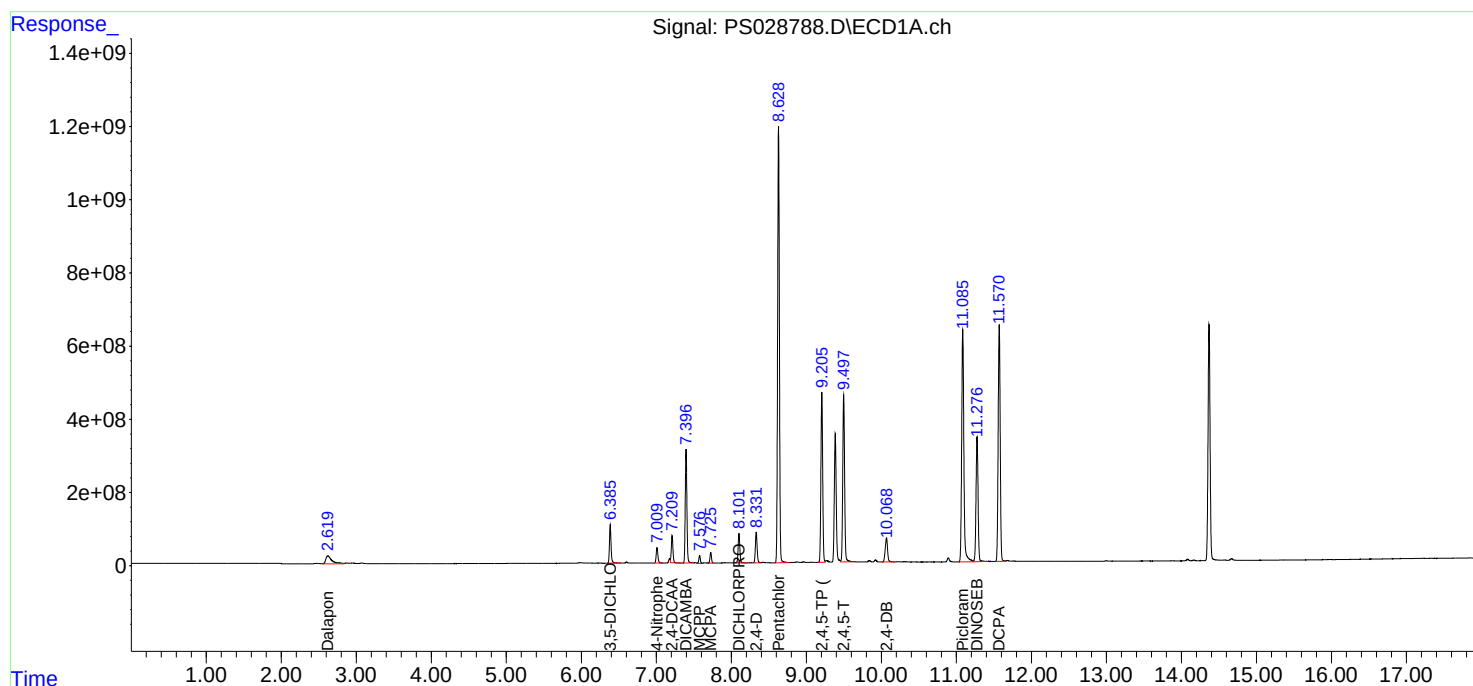
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028788.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:47
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:41:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS028788.D\ECD1A.ch

#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1267014462
Conc: 447.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_ Signal: PS028788.D\ECD2B.ch

#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.000 min
Response: 893354018
Conc: 455.20 ng/ml

Time

Response_ Signal: PS028788.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 1544227113
Conc: 479.60 ng/ml

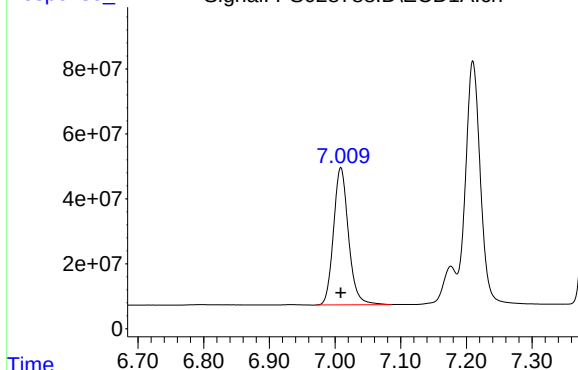
Time

Response_ Signal: PS028788.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 770264057
Conc: 470.29 ng/ml

Time



R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 669559334
Conc: 456.83 ng/ml

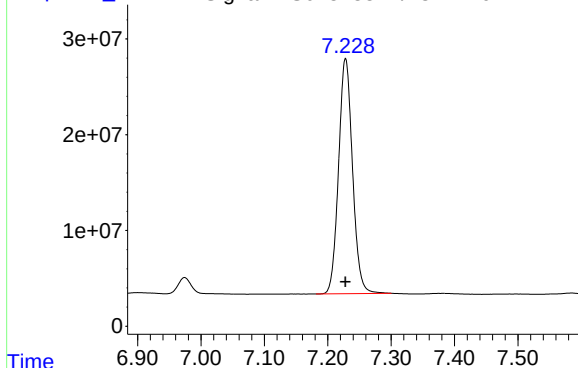
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS028788.D\ECD2B.ch

#3 4-Nitrophenol



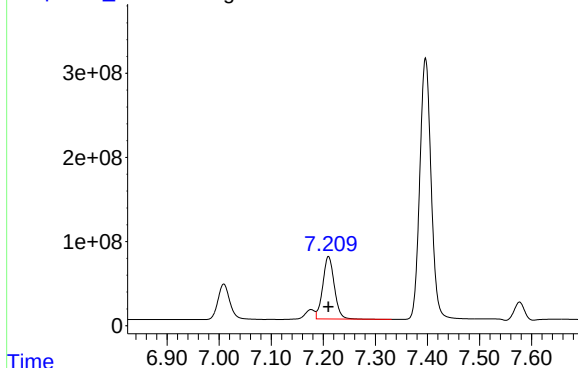
R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 375233371
Conc: 458.82 ng/ml

Time

Response_

Signal: PS028788.D\ECD1A.ch

#4 2,4-DCAA



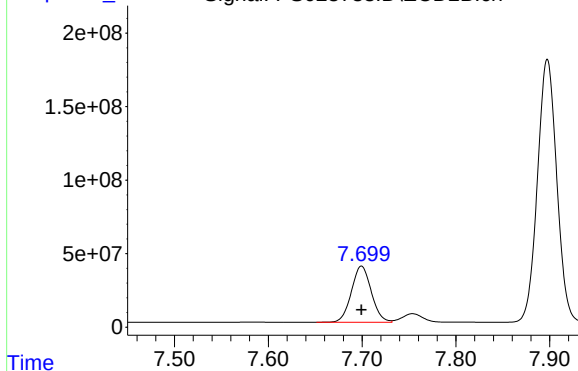
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1140153645
Conc: 518.80 ng/ml

Time

Response_

Signal: PS028788.D\ECD2B.ch

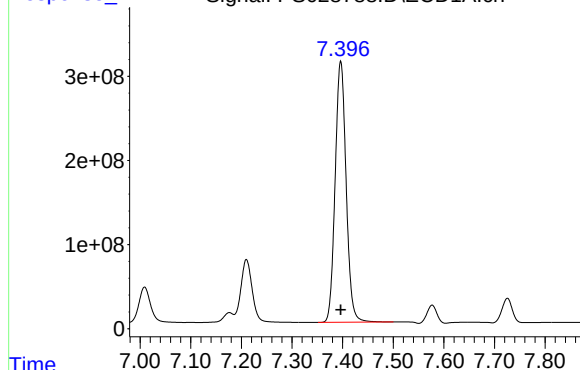
#4 2,4-DCAA



R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 563110781
Conc: 506.98 ng/ml

Time

Response_ Signal: PS028788.D\ECD1A.ch

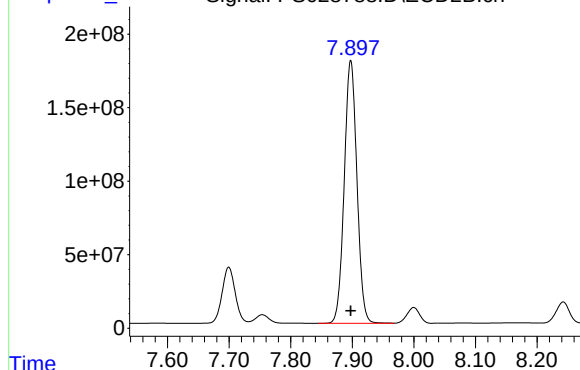


#5 DICAMBA

R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 4672891528
Conc: 477.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

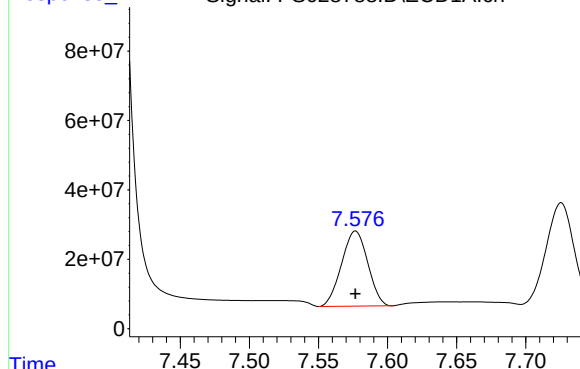
Response_ Signal: PS028788.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 2557214077
Conc: 462.04 ng/ml

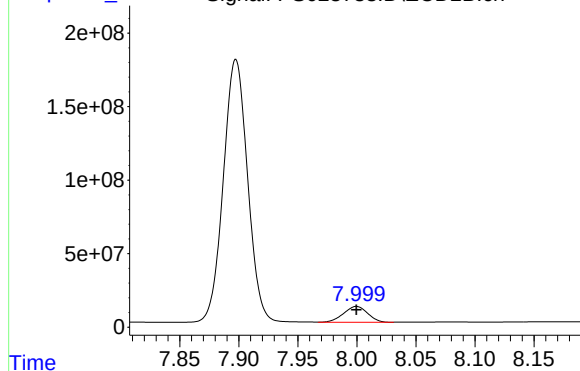
Response_ Signal: PS028788.D\ECD1A.ch



#6 MCPP

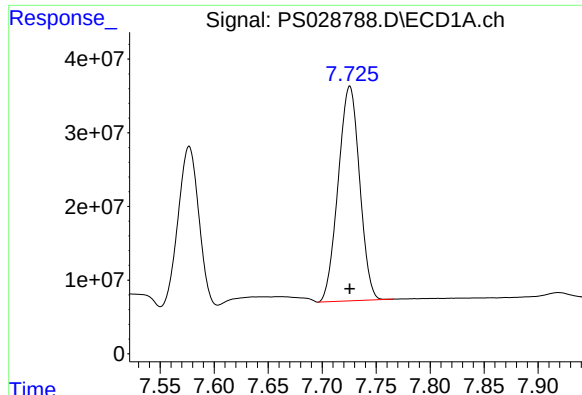
R.T.: 7.577 min
Delta R.T.: 0.000 min
Response: 285079042
Conc: 44.20 ug/ml

Response_ Signal: PS028788.D\ECD2B.ch



#6 MCPP

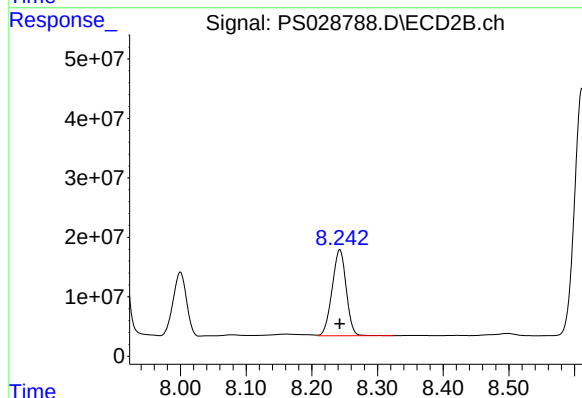
R.T.: 8.000 min
Delta R.T.: 0.000 min
Response: 152060546
Conc: 45.96 ug/ml



#7 MCPA

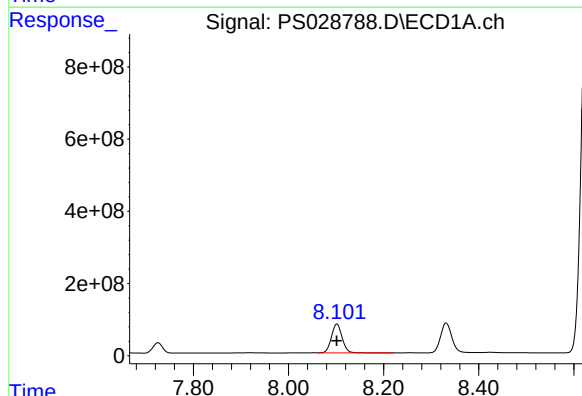
R.T.: 7.726 min
Delta R.T.: 0.000 min
Response: 401657279
Conc: 44.99 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



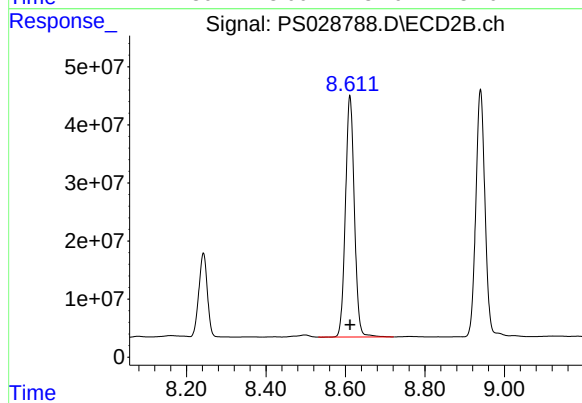
#7 MCPA

R.T.: 8.242 min
Delta R.T.: 0.000 min
Response: 215192782
Conc: 46.36 ug/ml



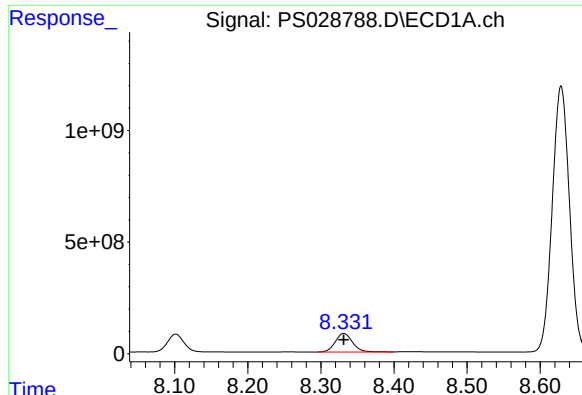
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 1259463977
Conc: 487.54 ng/ml



#8 DICHLORPROP

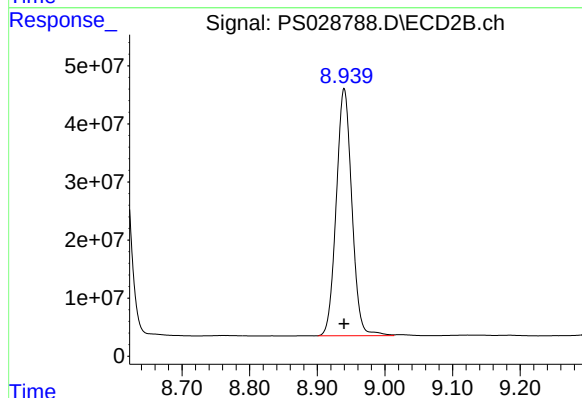
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 649705655
Conc: 474.16 ng/ml



#9 2,4-D

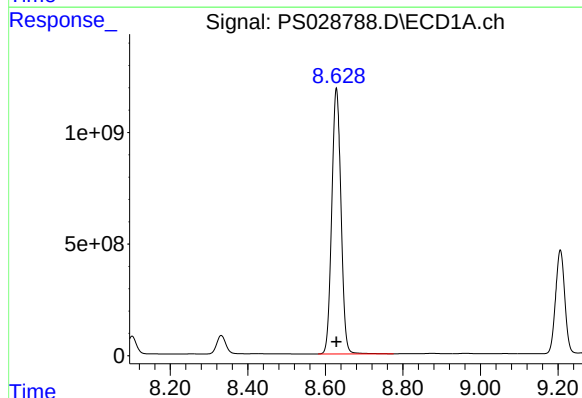
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 1361269635
Conc: 490.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



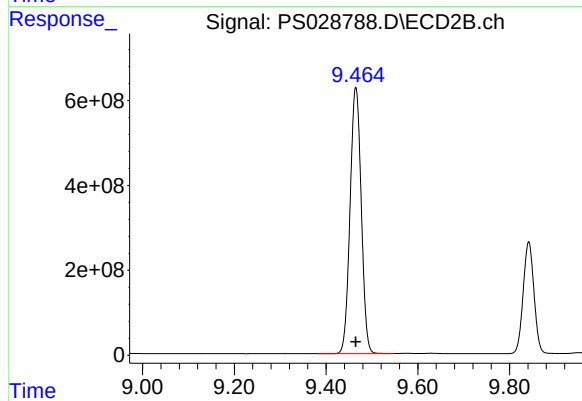
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 681409441
Conc: 474.62 ng/ml



#10 Pentachlorophenol

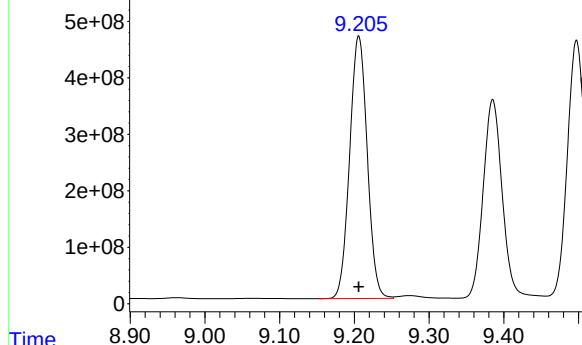
R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 19572039175
Conc: 515.58 ng/ml



#10 Pentachlorophenol

R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 10612380681
Conc: 491.11 ng/ml

Response_ Signal: PS028788.D\ECD1A.ch

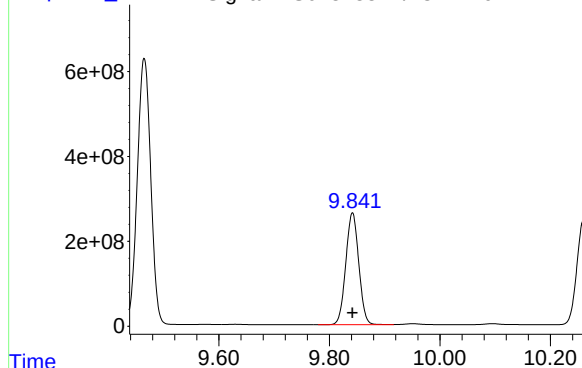


#11 2,4,5-TP (SILVEX)

R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 7598153113
Conc: 492.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

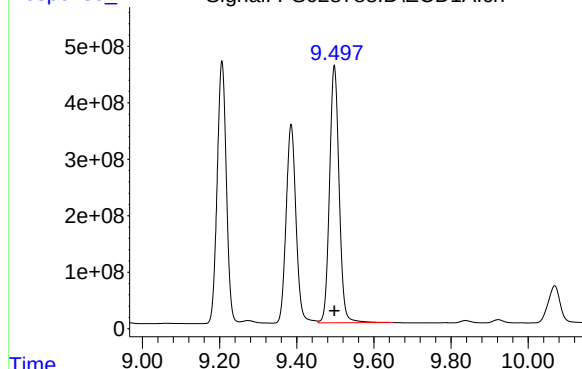
Time Response_ Signal: PS028788.D\ECD2B.ch



#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 4300547739
Conc: 480.91 ng/ml

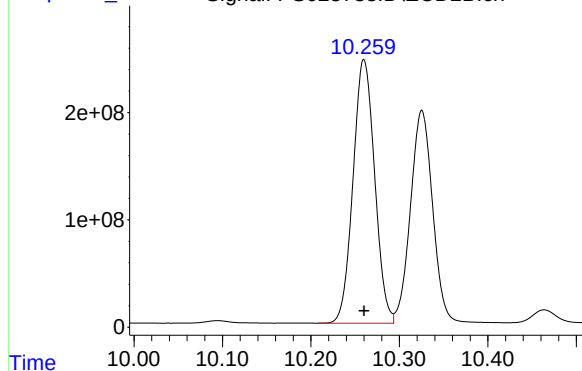
Time Response_ Signal: PS028788.D\ECD1A.ch



#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 7903783723
Conc: 495.80 ng/ml

Time Response_ Signal: PS028788.D\ECD2B.ch



#12 2,4,5-T

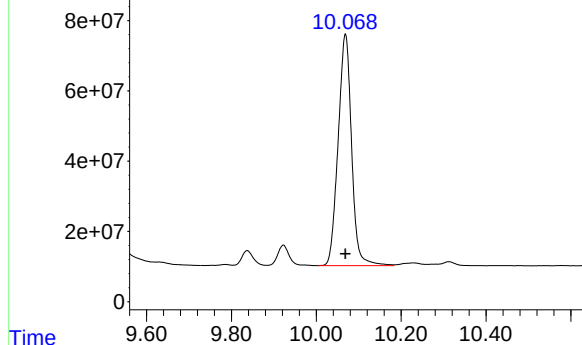
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 4172330240
Conc: 482.63 ng/ml

Response_ Signal: PS028788.D\ECD1A.ch

#13 2,4-DB

R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 1449558622
Conc: 485.29 ng/ml

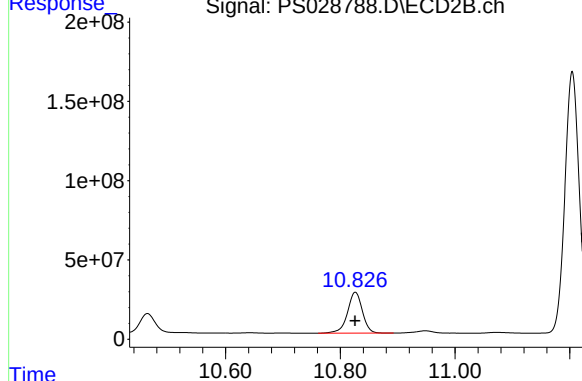
Instrument :
ECD_S
ClientSampleId :
HSTDICC500



Time Response_ Signal: PS028788.D\ECD2B.ch

#13 2,4-DB

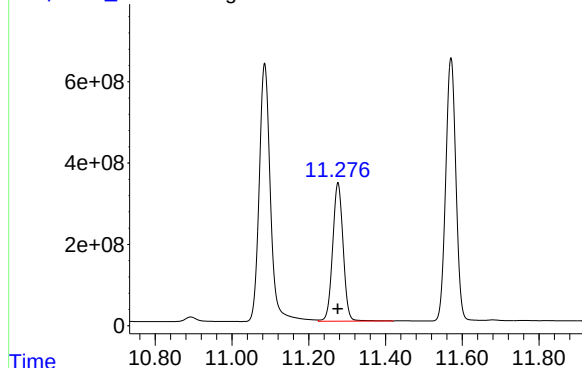
R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 464060495
Conc: 471.85 ng/ml



Time Response_ Signal: PS028788.D\ECD1A.ch

#14 DINOSEB

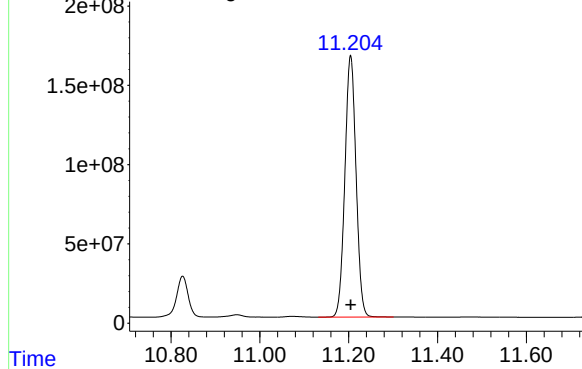
R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 6410222068
Conc: 486.98 ng/ml

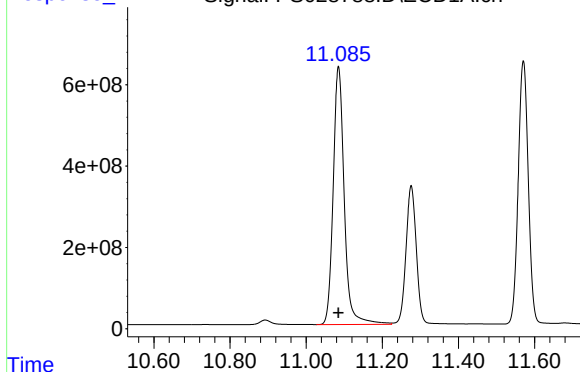


Time Response_ Signal: PS028788.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 2875195093
Conc: 475.71 ng/ml





R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 12828150222
Conc: 484.13 ng/ml

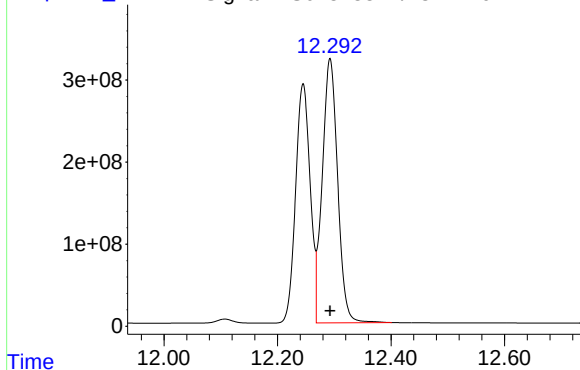
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS028788.D\ECD2B.ch

#15 Picloram



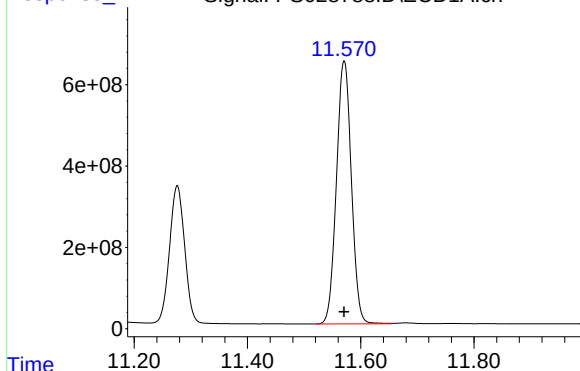
R.T.: 12.293 min
Delta R.T.: 0.000 min
Response: 6048506679
Conc: 465.82 ng/ml

Time

Response_

Signal: PS028788.D\ECD1A.ch

#16 DCPA



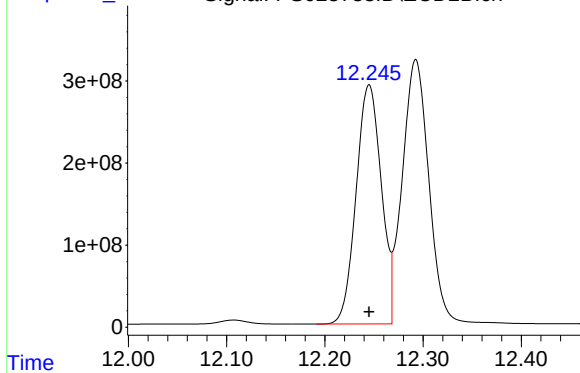
R.T.: 11.571 min
Delta R.T.: 0.000 min
Response: 11834645347
Conc: 502.00 ng/ml

Time

Response_

Signal: PS028788.D\ECD2B.ch

#16 DCPA



R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 5192521894
Conc: 483.39 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028789.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:11
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:35:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.210	7.700	1691.0E6	842.4E6	750.000	750.000
Target Compounds						
1) T Dalapon	2.620	2.674	1942.8E6	1349.3E6	682.500	682.500
2) T 3,5-DICHL...	6.385	6.660	2285.6E6	1155.6E6	697.500	697.500
3) T 4-Nitroph...	7.009	7.228	1007.9E6	559.5E6	682.500	682.500
5) T DICAMBA	7.397	7.898	7011.9E6	3936.4E6	705.000	705.000
6) T MCPP	7.579	8.002	455.0E6	235.2E6	70.500	70.500
7) T MCPA	7.729	8.245	625.6E6	327.4E6	69.750	69.750
8) T DICHLORPROP	8.102	8.612	1852.8E6	978.9E6	705.000	705.000
9) T 2,4-D	8.332	8.940	2003.9E6	1024.2E6	705.000	705.000
10) T Pentachlo...	8.629	9.465	28730.9E6	15836.1E6	712.500	712.500
11) T 2,4,5-TP ...	9.206	9.842	11258.5E6	6490.8E6	712.500	712.500
12) T 2,4,5-T	9.497	10.260	11647.7E6	6266.0E6	712.500	712.500
13) T 2,4-DB	10.069	10.826	2161.1E6	705.6E6	712.500	712.500
14) T DINOSEB	11.276	11.204	9500.8E6	4334.9E6	705.000	705.000
15) T Picloram	11.085	12.292	19296.4E6	9378.2E6	712.500	712.500
16) T DCPA	11.571	12.245	17447.7E6	7888.2E6	720.000	720.000

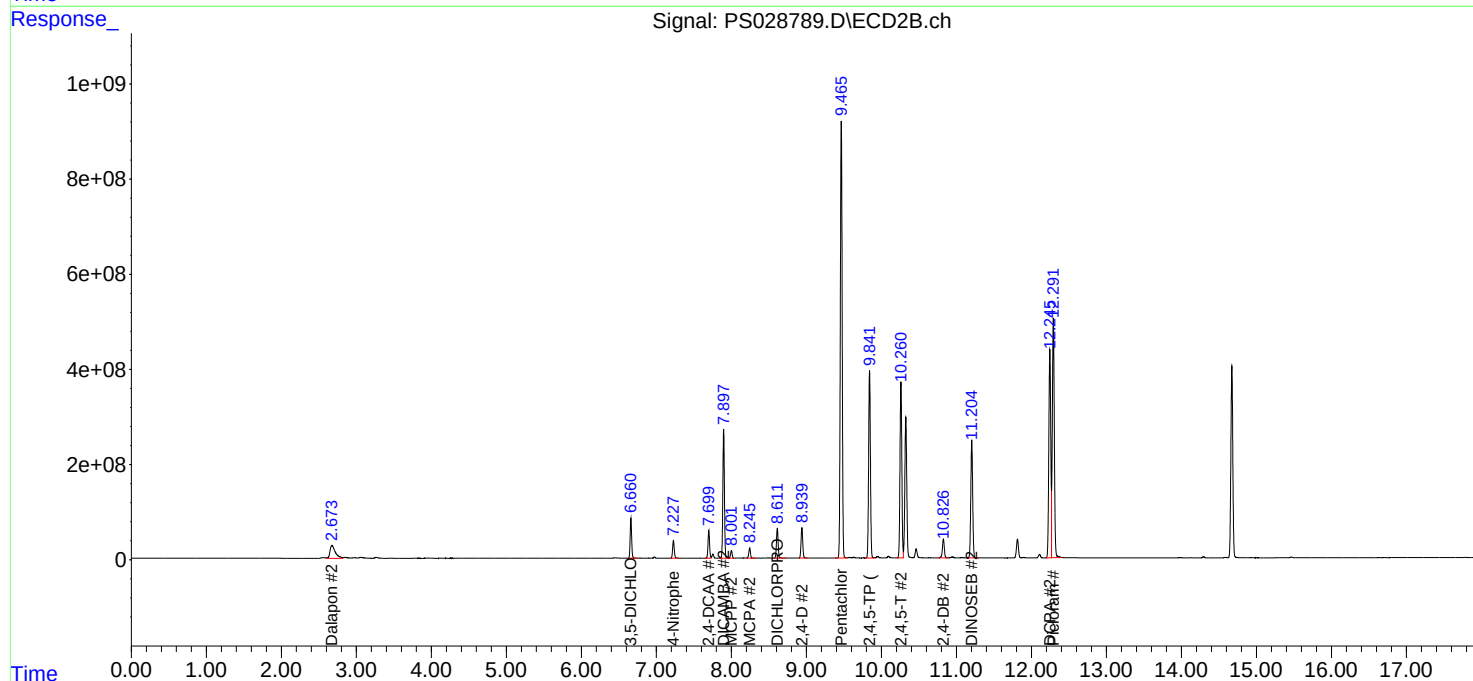
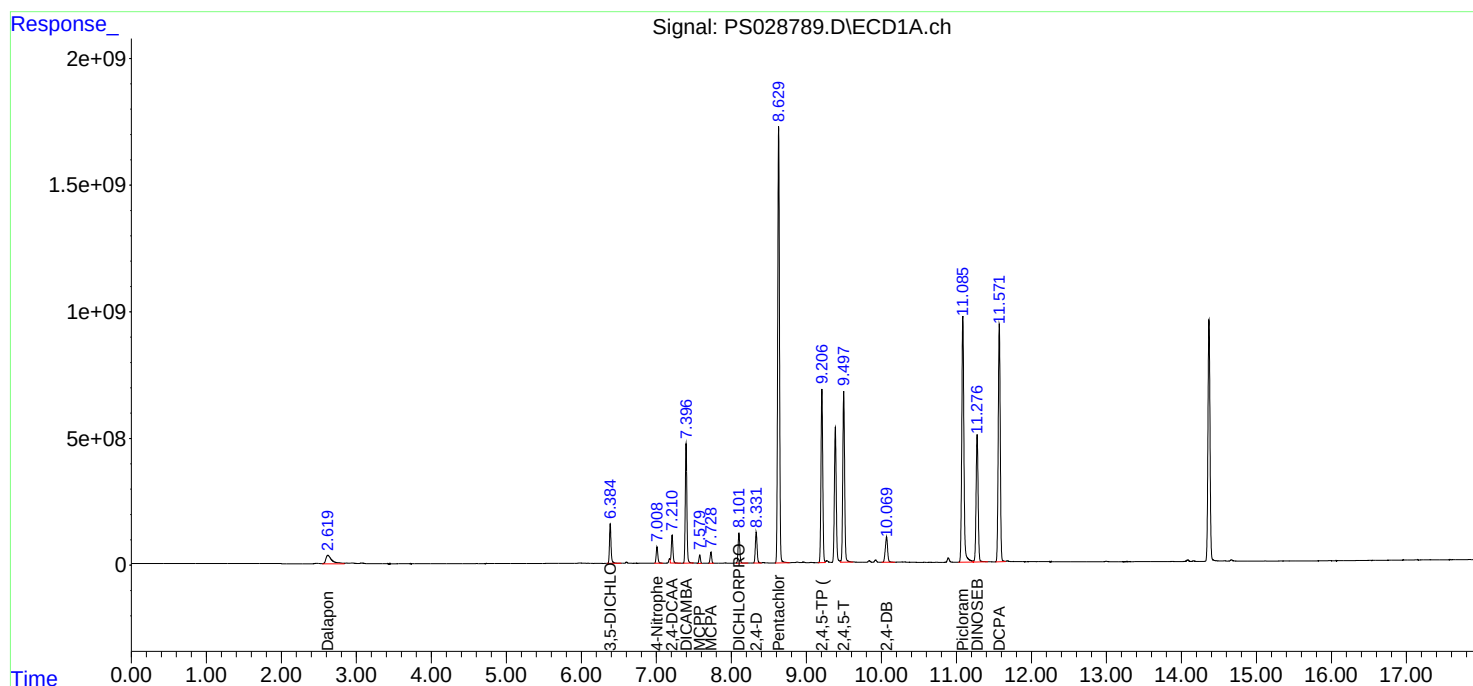
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028789.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:11
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:35:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS028789.D\ECD1A.ch

#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1942818105
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_ Signal: PS028789.D\ECD2B.ch

#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.000 min
Response: 1349337704
Conc: 682.50 ng/ml

Time

Response_ Signal: PS028789.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2285586505
Conc: 697.50 ng/ml

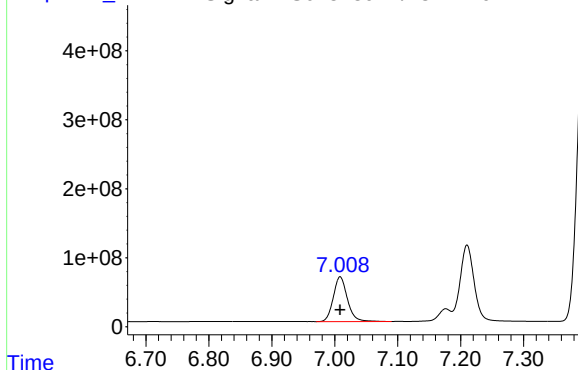
Time

Response_ Signal: PS028789.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 1155579085
Conc: 697.50 ng/ml

Time



R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 1007897476
Conc: 682.50 ng/ml

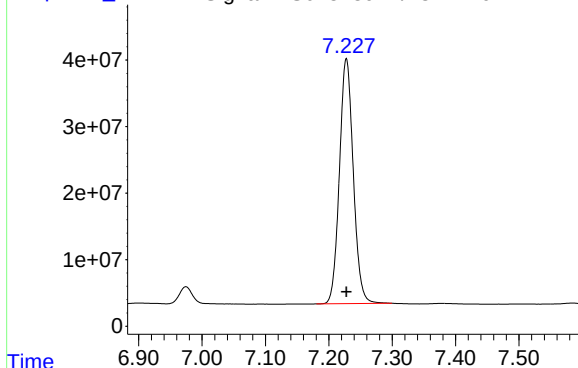
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_

Signal: PS028789.D\ECD2B.ch

#3 4-Nitrophenol



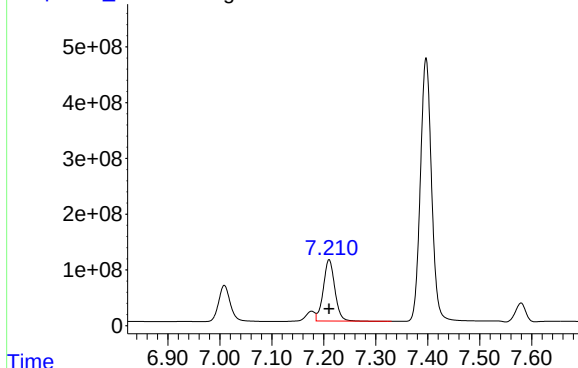
R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 559532310
Conc: 682.50 ng/ml

Time

Response_

Signal: PS028789.D\ECD1A.ch

#4 2,4-DCAA



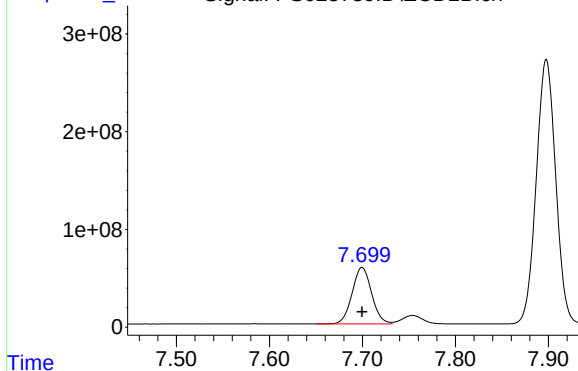
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1691026527
Conc: 750.00 ng/ml

Time

Response_

Signal: PS028789.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 842430336
Conc: 750.00 ng/ml

Time

Response_ Signal: PS028789.D\ECD1A.ch

#5 DICAMBA

R.T.: 7.397 min
Delta R.T.: 0.000 min
Response: 7011922706
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_ Signal: PS028789.D\ECD2B.ch

#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 3936433556
Conc: 705.00 ng/ml

Time

Response_ Signal: PS028789.D\ECD1A.ch

#6 MCP

R.T.: 7.579 min
Delta R.T.: 0.000 min
Response: 454999618
Conc: 70.50 ug/ml

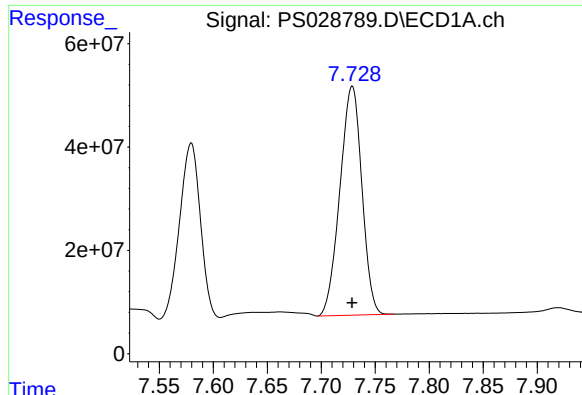
Time

Response_ Signal: PS028789.D\ECD2B.ch

#6 MCP

R.T.: 8.002 min
Delta R.T.: 0.000 min
Response: 235166572
Conc: 70.50 ug/ml

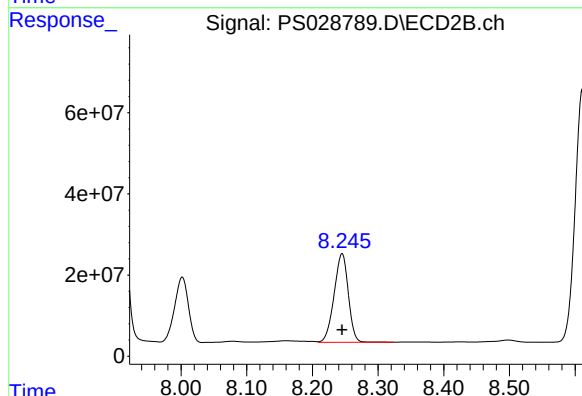
Time



#7 MCPA

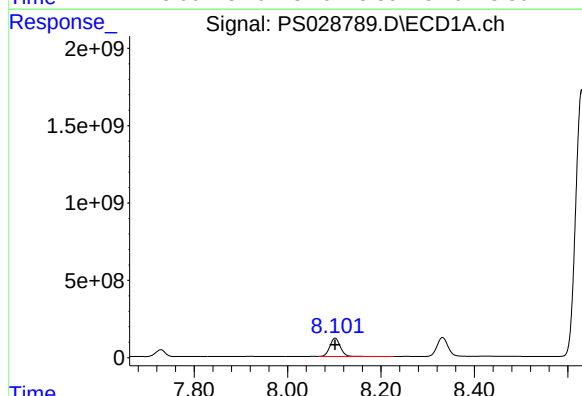
R.T.: 7.729 min
Delta R.T.: 0.000 min
Response: 625598808
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



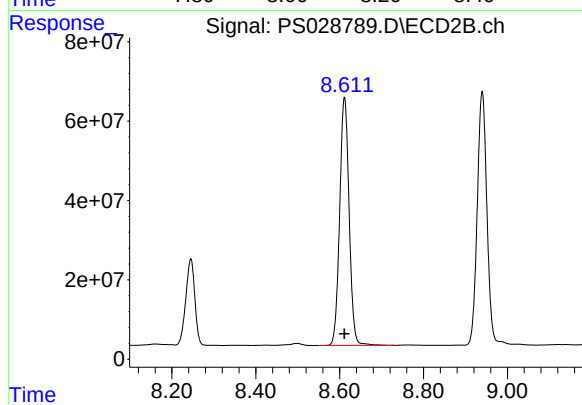
#7 MCPA

R.T.: 8.245 min
Delta R.T.: 0.000 min
Response: 327396163
Conc: 69.75 ug/ml



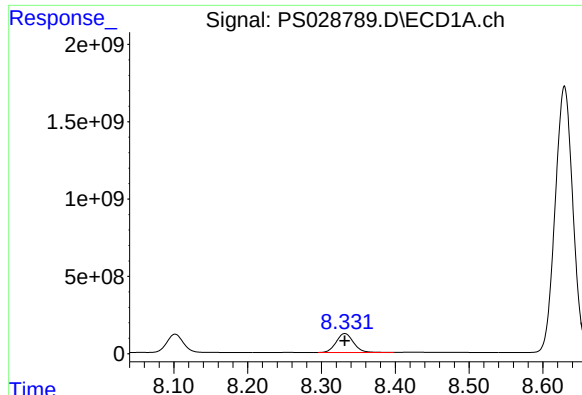
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 1852766267
Conc: 705.00 ng/ml



#8 DICHLORPROP

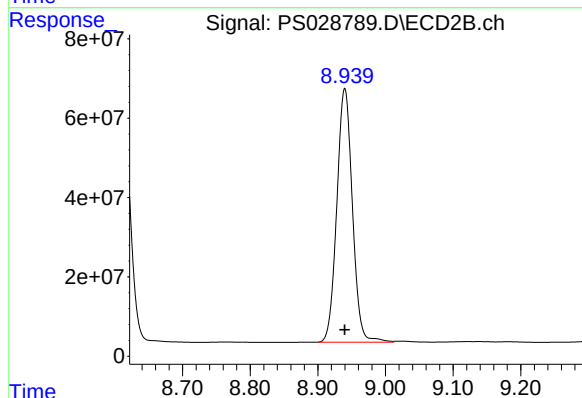
R.T.: 8.612 min
Delta R.T.: 0.000 min
Response: 978869433
Conc: 705.00 ng/ml



#9 2,4-D

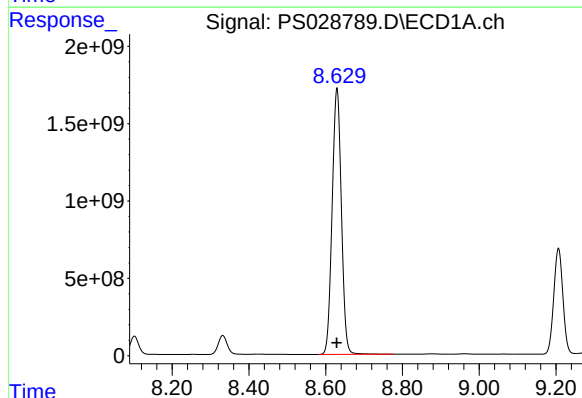
R.T.: 8.332 min
Delta R.T.: 0.000 min
Response: 2003909814
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



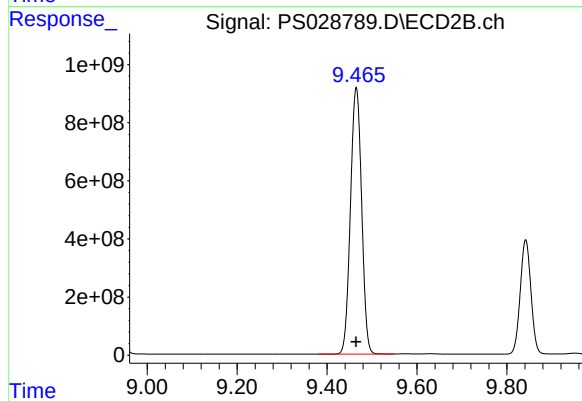
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1024218782
Conc: 705.00 ng/ml



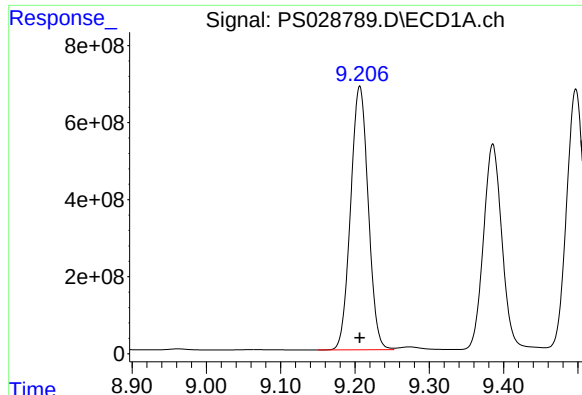
#10 Pentachlorophenol

R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 28730925166
Conc: 712.50 ng/ml



#10 Pentachlorophenol

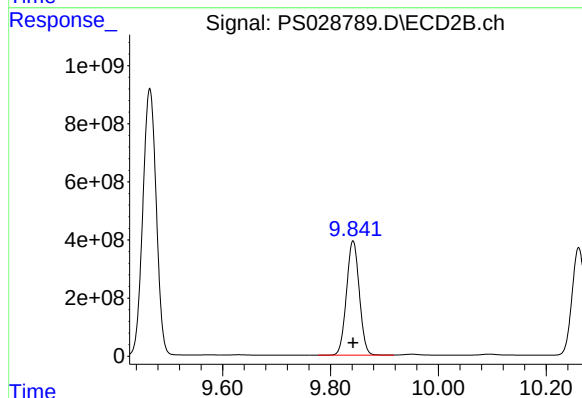
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 15836075707
Conc: 712.50 ng/ml



#11 2,4,5-TP (SILVEX)

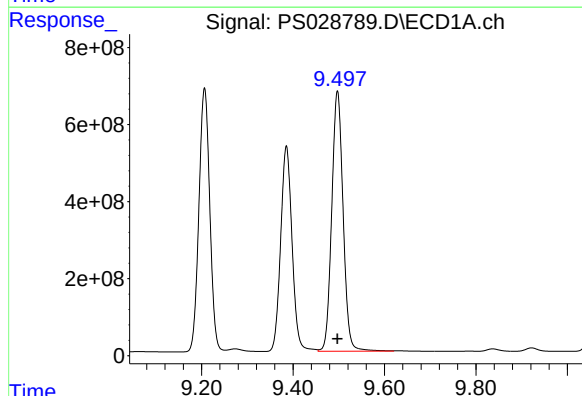
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 11258465941
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



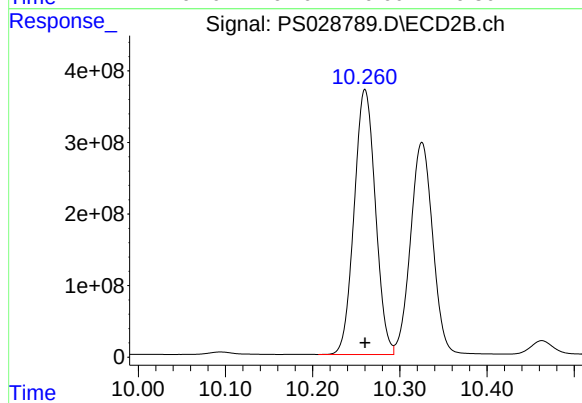
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 6490757412
Conc: 712.50 ng/ml



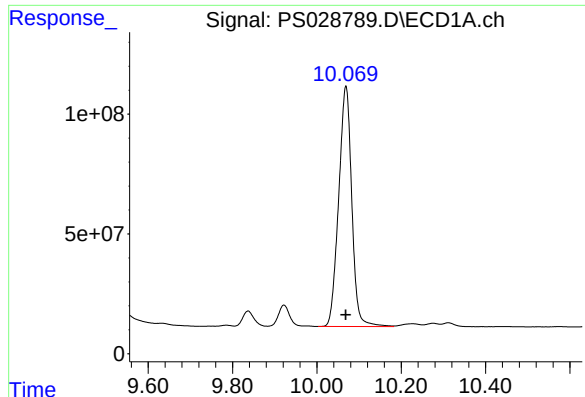
#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 11647661713
Conc: 712.50 ng/ml



#12 2,4,5-T

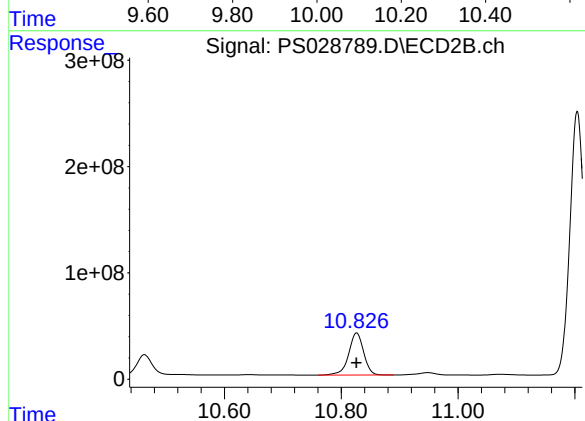
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 6266023592
Conc: 712.50 ng/ml



#13 2,4-DB

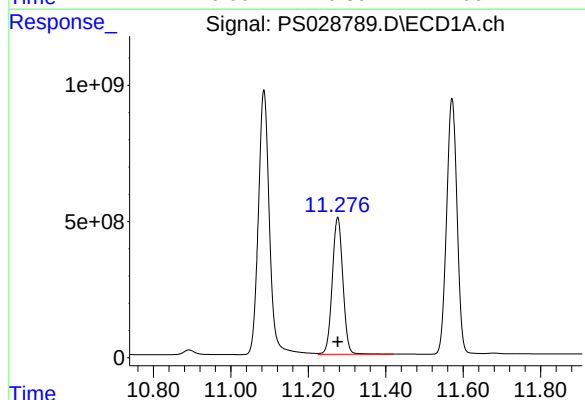
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 2161070472
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



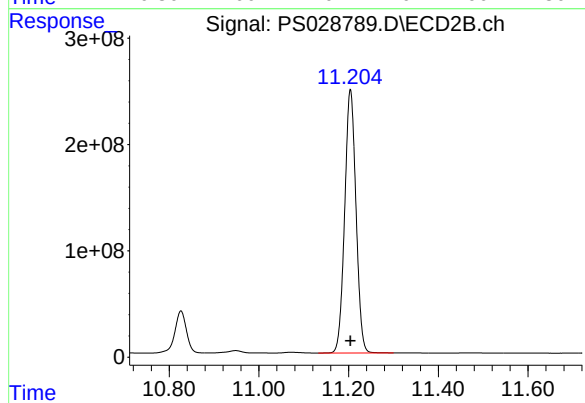
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 705569948
Conc: 712.50 ng/ml



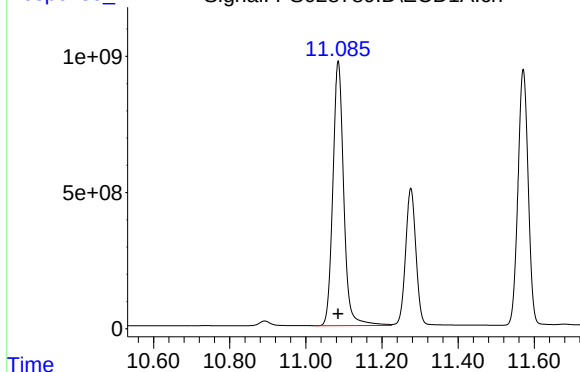
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 9500799958
Conc: 705.00 ng/ml



#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 4334922840
Conc: 705.00 ng/ml



R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 19296433932
Conc: 712.50 ng/ml

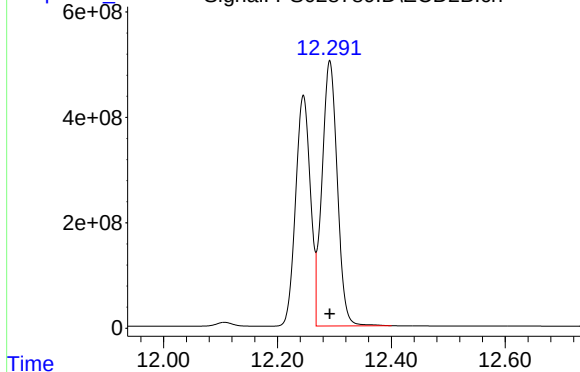
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response

Signal: PS028789.D\ECD2B.ch

#15 Picloram



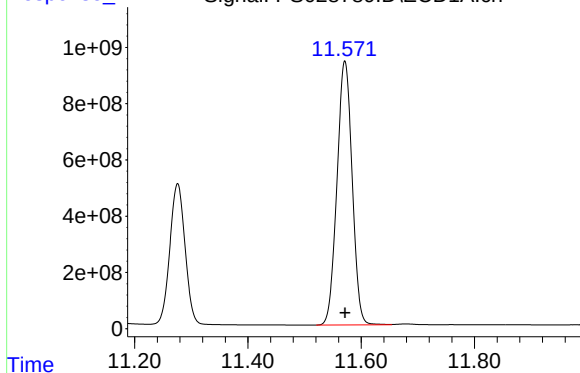
R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 9378150390
Conc: 712.50 ng/ml

Time

Response_

Signal: PS028789.D\ECD1A.ch

#16 DCPA



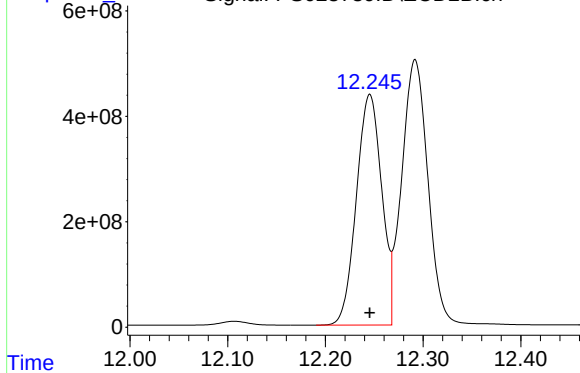
R.T.: 11.571 min
Delta R.T.: 0.000 min
Response: 17447708328
Conc: 720.00 ng/ml

Time

Response

Signal: PS028789.D\ECD2B.ch

#16 DCPA



R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 7888172996
Conc: 720.00 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028790.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 12:35
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
 Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 13:39:39 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.210	7.700	2149.7E6	1104.1E6	994.267m	998.684
Target Compounds							
1) T	Dalapon	2.620	2.675	2590.1E6	1784.2E6	908.696	909.276
2) T	3,5-DICHL...	6.385	6.660	2970.3E6	1521.1E6	932.245	932.254
3) T	4-Nitroph...	7.008	7.228	1335.0E6	747.4E6	912.099	916.441
5) T	DICAMBA	7.397	7.898	9168.9E6	5233.4E6	942.217	940.257
6) T	MCPD	7.581	8.004	613.6E6	312.6E6	93.266	93.797
7) T	MCPA	7.731	8.247	836.7E6	431.0E6	92.726	92.759
8) T	DICHLORPROP	8.102	8.611	2407.7E6	1281.5E6	943.767	937.998
9) T	2,4-D	8.331	8.940	2561.8E6	1344.1E6	936.700	939.288
10) T	Pentachlo...	8.629	9.465	36738.0E6	20389.3E6	996.145	954.348
11) T	2,4,5-TP ...	9.206	9.842	14533.1E6	8474.0E6	953.244	951.557
12) T	2,4,5-T	9.497	10.260	14990.1E6	8190.7E6	954.258	952.545
13) T	2,4-DB	10.069	10.826	2816.6E6	933.2E6	949.832	946.746
14) T	DINOSEB	11.276	11.204	12260.6E6	5663.4E6	942.779	940.845
15) T	Picloram	11.085	12.292	25059.4E6	12444.4E6	951.841	952.255
16) T	DCPA	11.570	12.245	22401.4E6	10328.8E6	964.963	963.806

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028790.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:35
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_S

Client SampleId :

HSTDICC1000

Manual Integrations

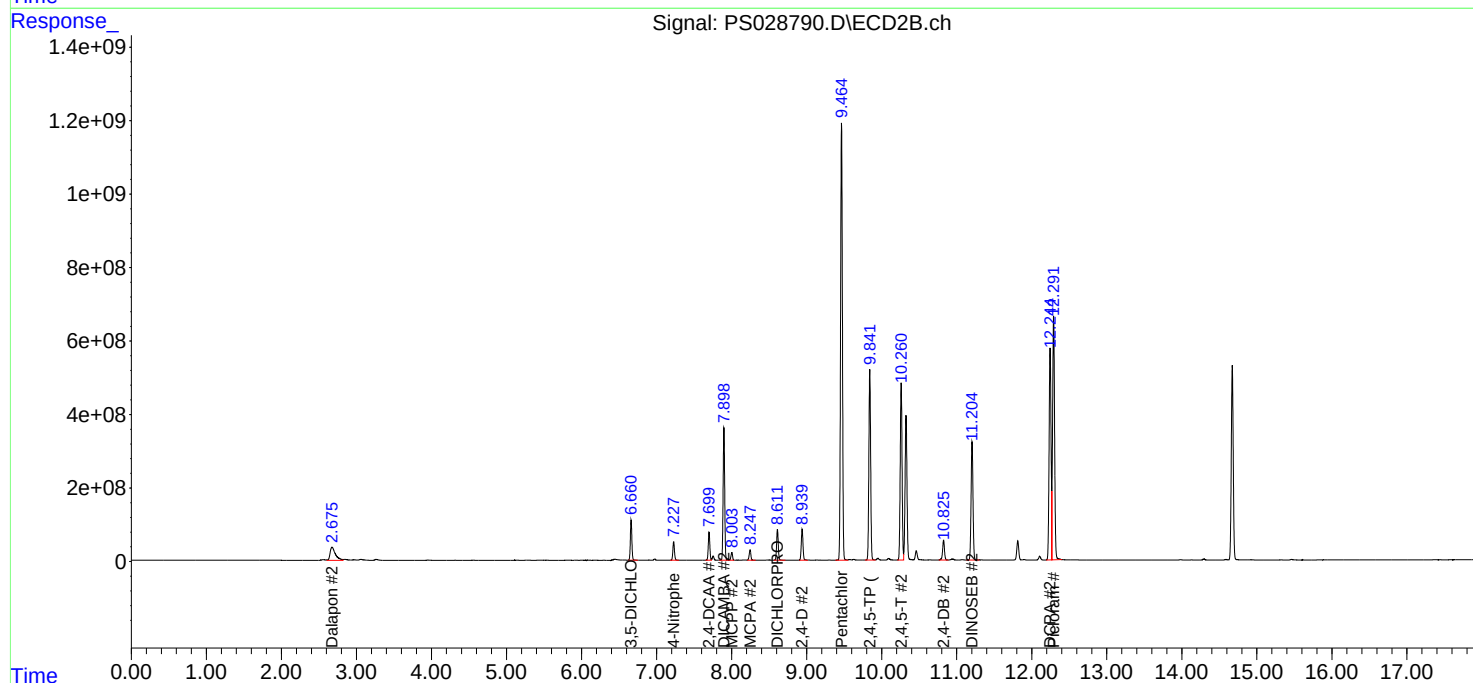
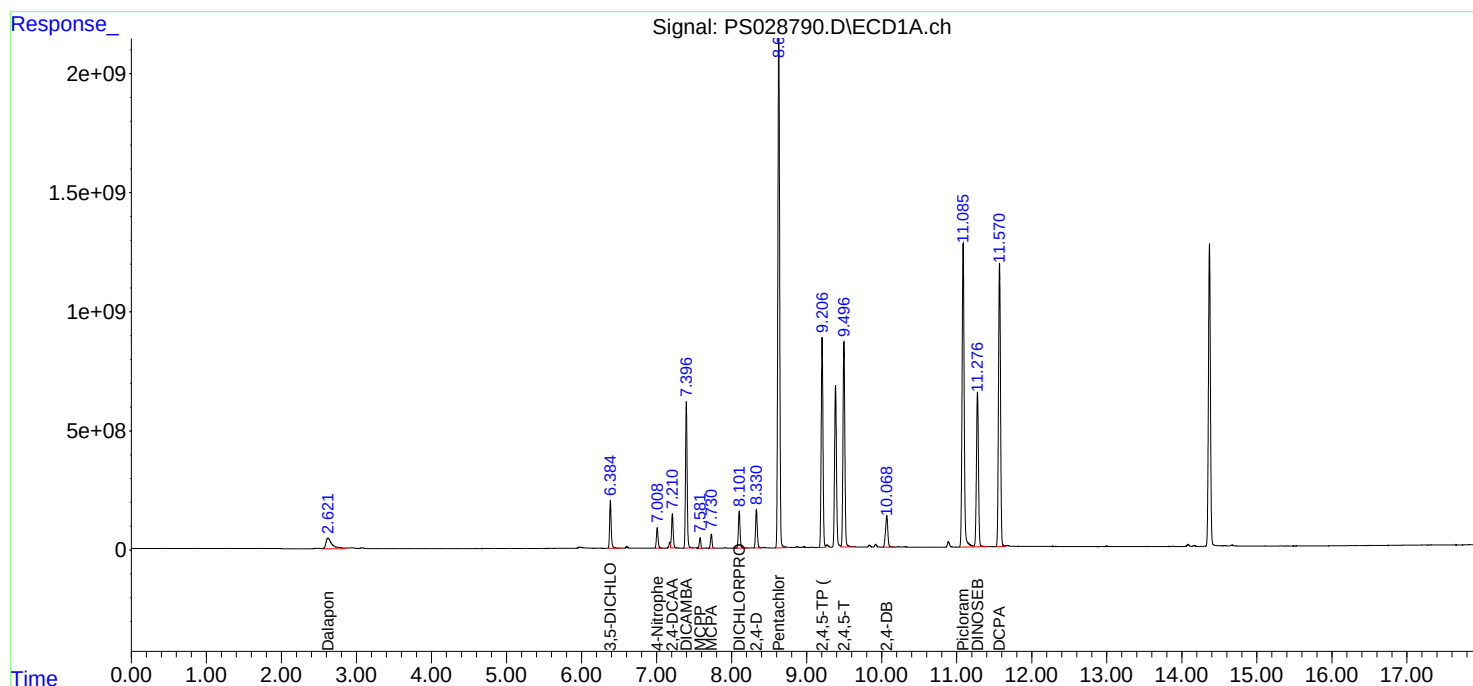
APPROVED

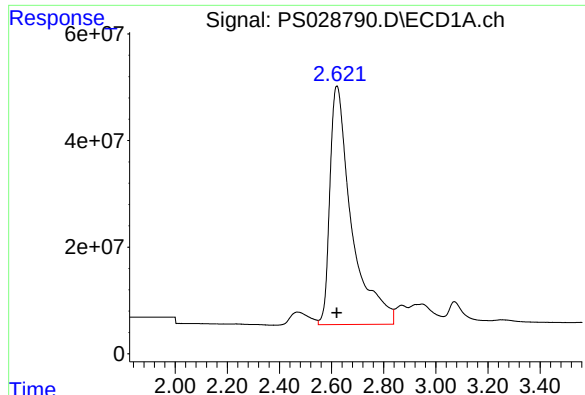
Reviewed By :Abdul Mirza 12/26/2024

Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:39:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





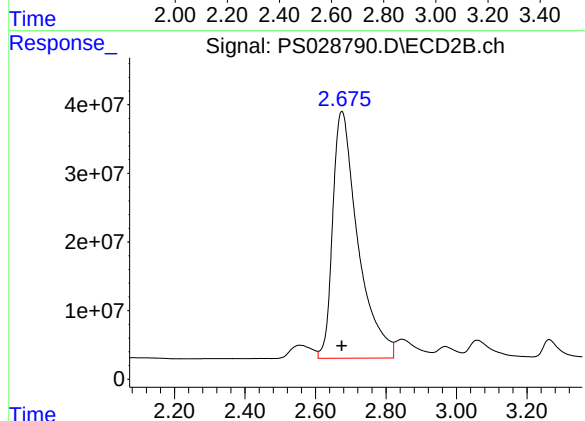
#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 2590128401
Conc: 908.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

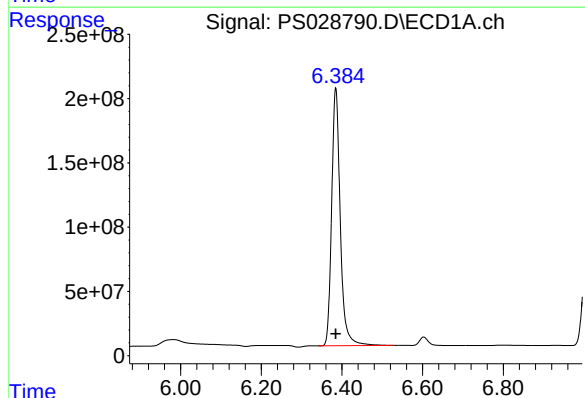
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



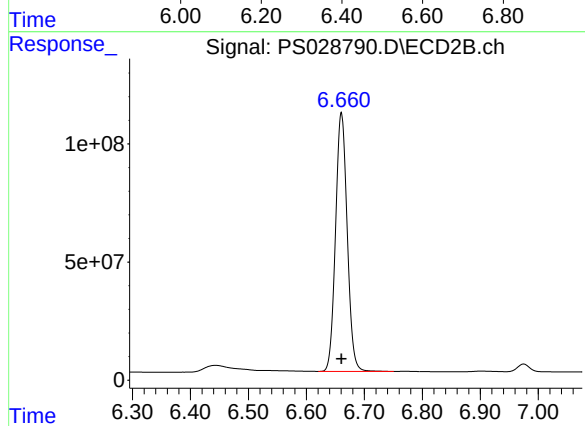
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.000 min
Response: 1784237725
Conc: 909.28 ng/ml



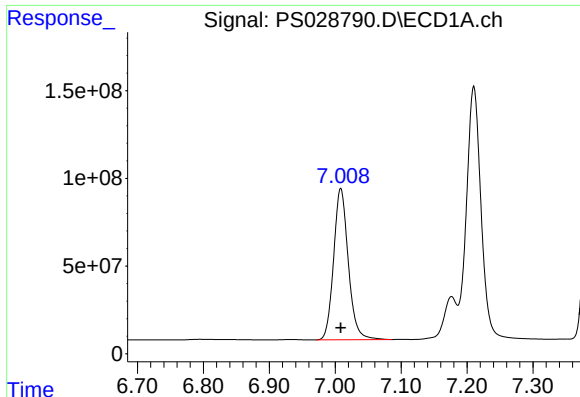
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2970251089
Conc: 932.25 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 1521097294
Conc: 932.25 ng/ml



#3 4-Nitrophenol

R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1335023608
Conc: 912.10 ng/ml

Instrument :

ECD_S

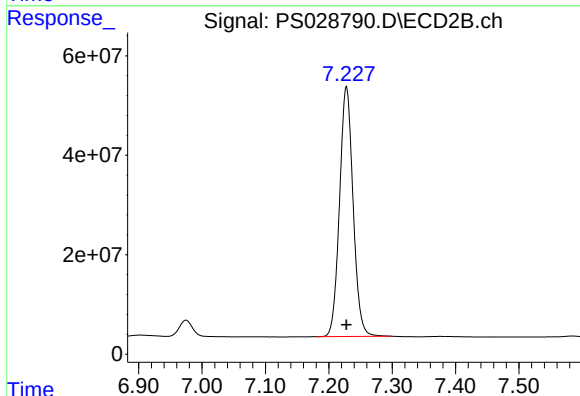
ClientSampleId :

HSTDICC1000

Manual Integrations

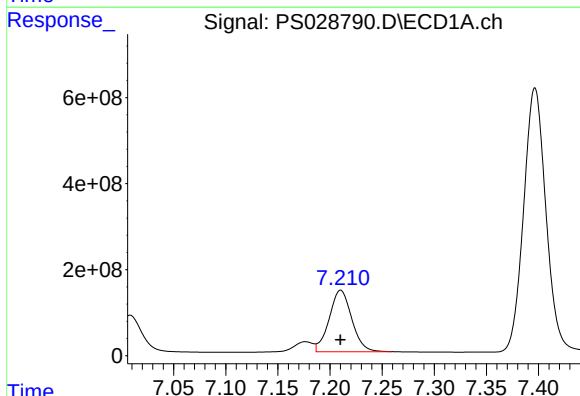
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



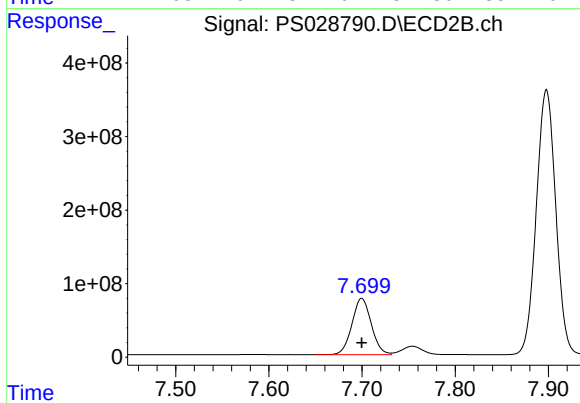
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 747396809
Conc: 916.44 ng/ml



#4 2,4-DCAA

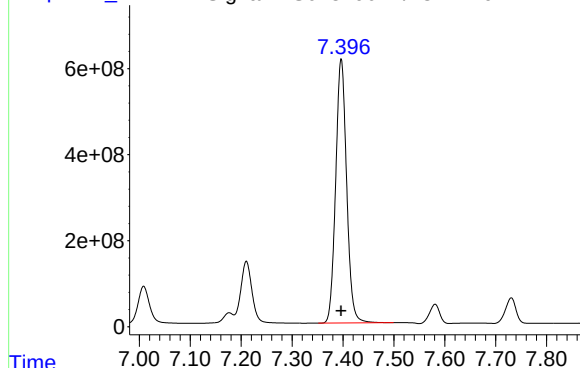
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 2149749343
Conc: 994.27 ng/ml m



#4 2,4-DCAA

R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 1104094634
Conc: 998.68 ng/ml

Response_ Signal: PS028790.D\ECD1A.ch



#5 DICAMBA

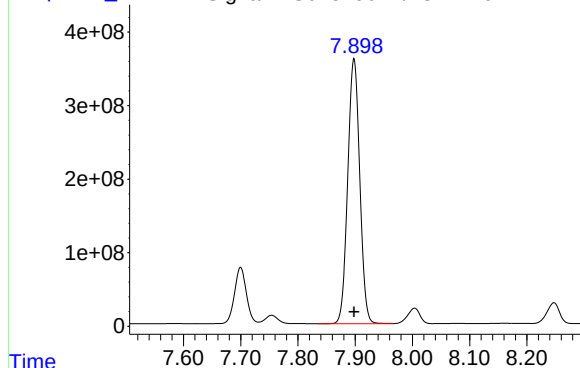
R.T.: 7.397 min
Delta R.T.: 0.000 min
Response: 9168915637
Conc: 942.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

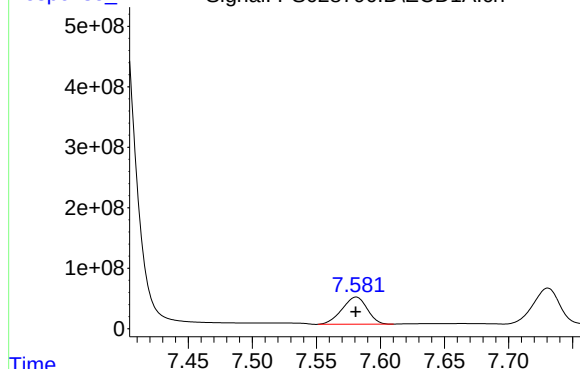
Response_ Signal: PS028790.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 5233373016
Conc: 940.26 ng/ml

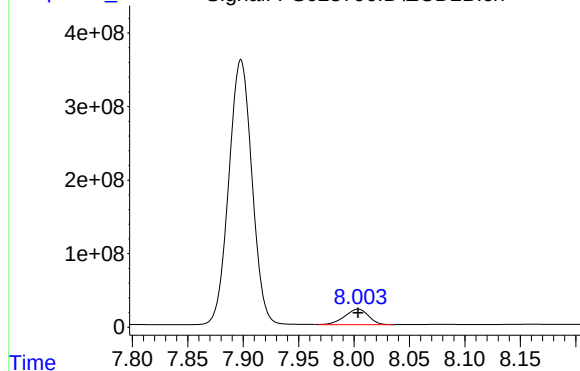
Response_ Signal: PS028790.D\ECD1A.ch



#6 MCP

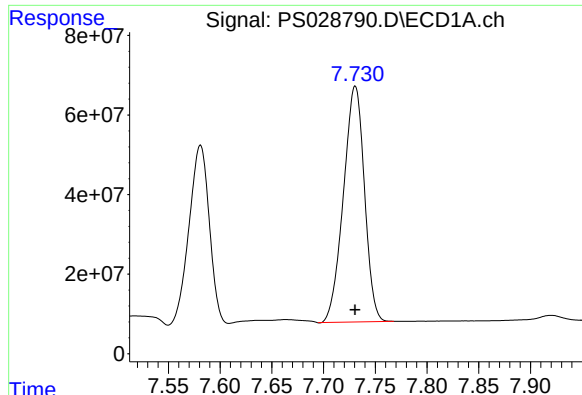
R.T.: 7.581 min
Delta R.T.: 0.000 min
Response: 613570466
Conc: 93.27 ug/ml

Response_ Signal: PS028790.D\ECD2B.ch



#6 MCP

R.T.: 8.004 min
Delta R.T.: 0.000 min
Response: 312584461
Conc: 93.80 ug/ml



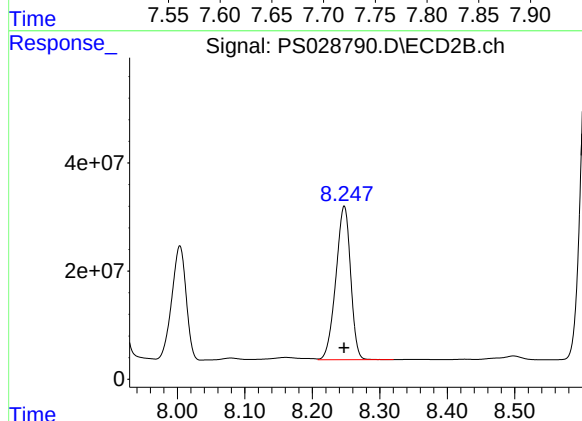
#7 MCPA

R.T.: 7.731 min
Delta R.T.: 0.000 min
Response: 836729639
Conc: 92.73 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

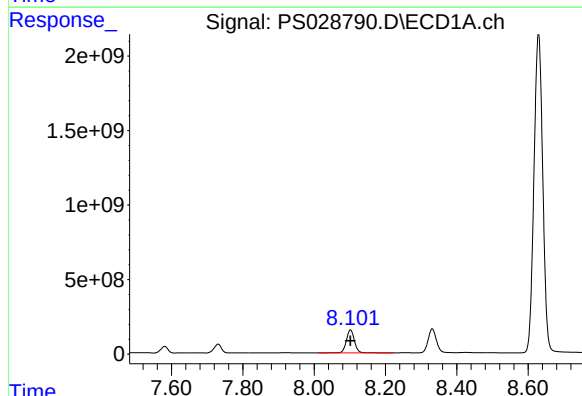
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



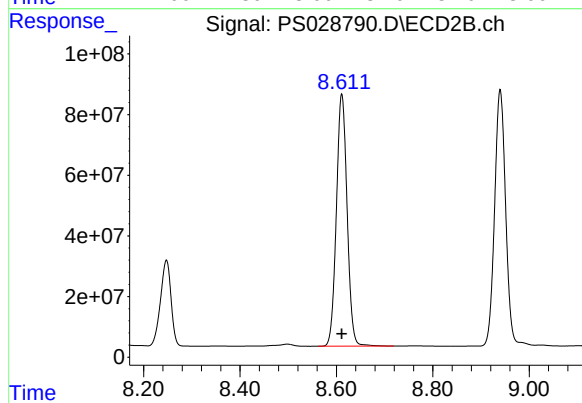
#7 MCPA

R.T.: 8.247 min
Delta R.T.: 0.000 min
Response: 431033829
Conc: 92.76 ug/ml



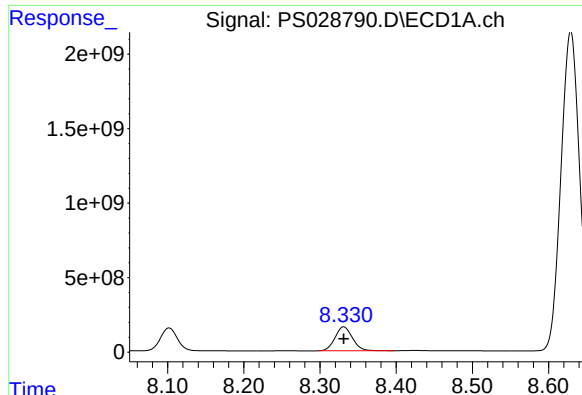
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 2407731346
Conc: 943.77 ng/ml



#8 DICHLORPROP

R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 1281467502
Conc: 938.00 ng/ml



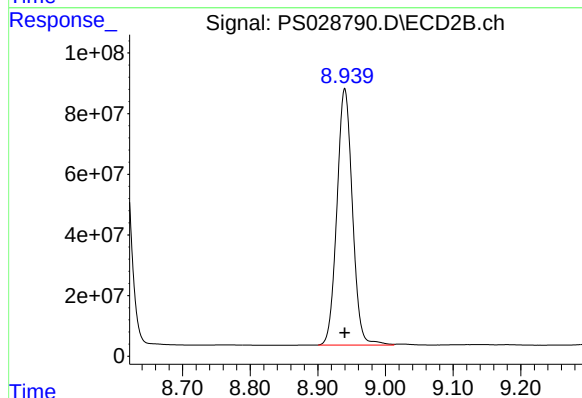
#9 2,4-D

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 2561822082
Conc: 936.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

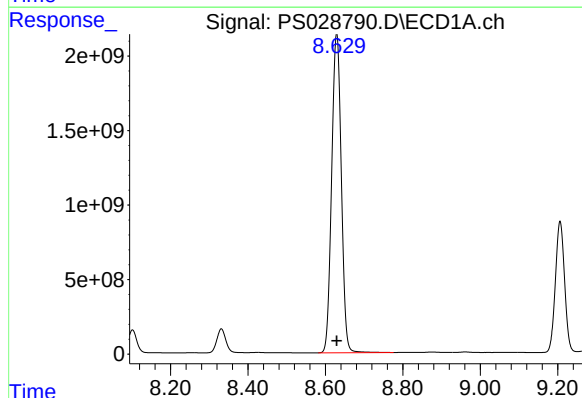
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



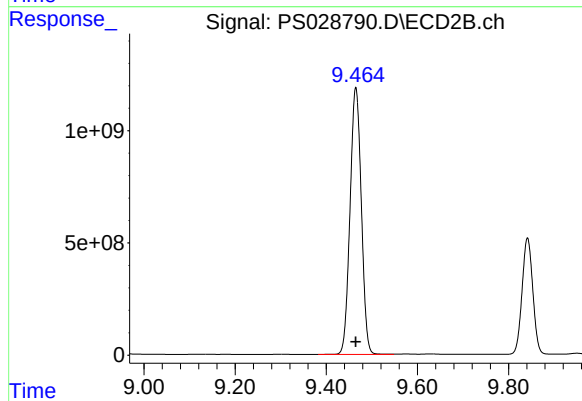
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1344098924
Conc: 939.29 ng/ml



#10 Pentachlorophenol

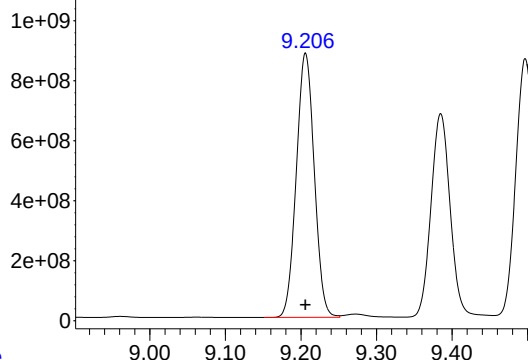
R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 36737981703
Conc: 996.15 ng/ml



#10 Pentachlorophenol

R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 20389309944
Conc: 954.35 ng/ml

Response_ Signal: PS028790.D\ECD1A.ch



#11 2,4,5-TP (SILVEX)

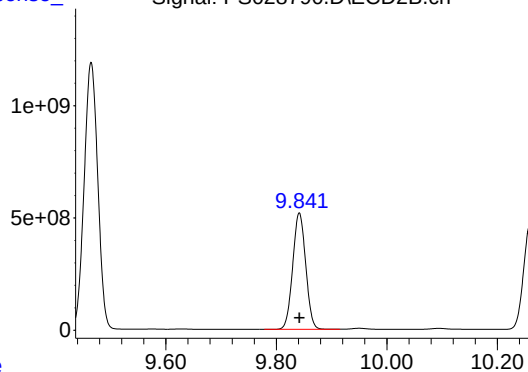
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 14533086349
Conc: 953.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

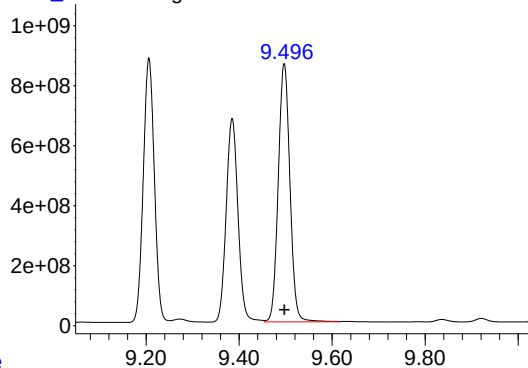
Time Response_ Signal: PS028790.D\ECD2B.ch



#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 8474047803
Conc: 951.56 ng/ml

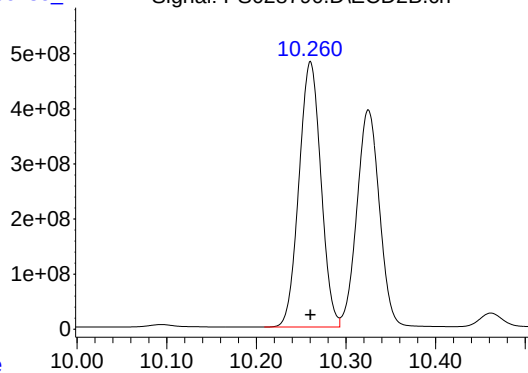
Time Response_ Signal: PS028790.D\ECD1A.ch



#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 14990081895
Conc: 954.26 ng/ml

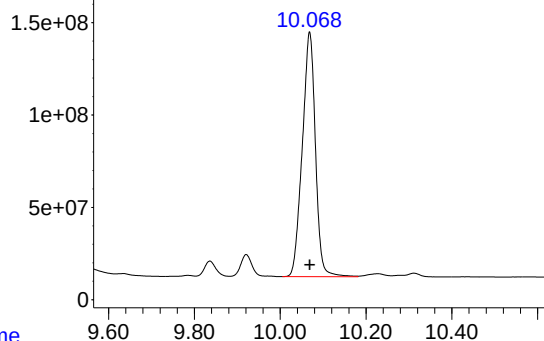
Time Response_ Signal: PS028790.D\ECD2B.ch



#12 2,4,5-T

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 8190674112
Conc: 952.55 ng/ml

Response_ Signal: PS028790.D\ECD1A.ch



#13 2,4-DB

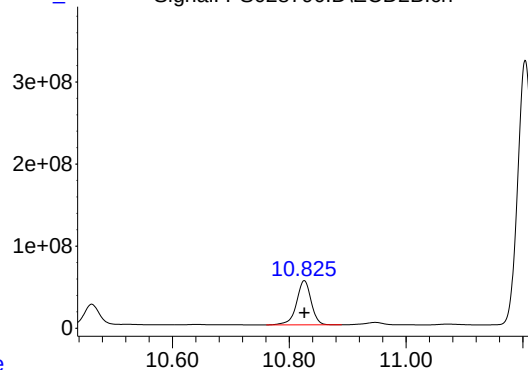
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 2816645135
Conc: 949.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

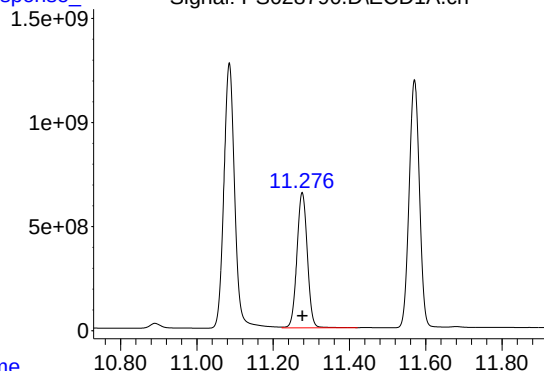
Time Response_ Signal: PS028790.D\ECD2B.ch



#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 933183960
Conc: 946.75 ng/ml

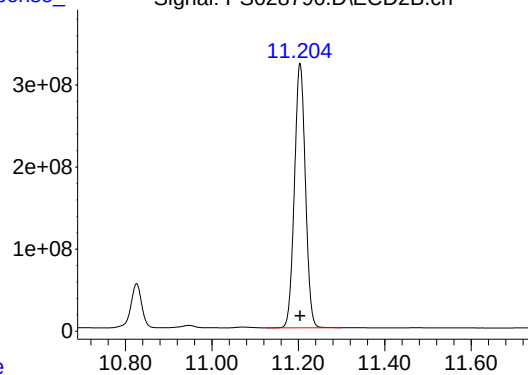
Time Response_ Signal: PS028790.D\ECD1A.ch



#14 DINOSEB

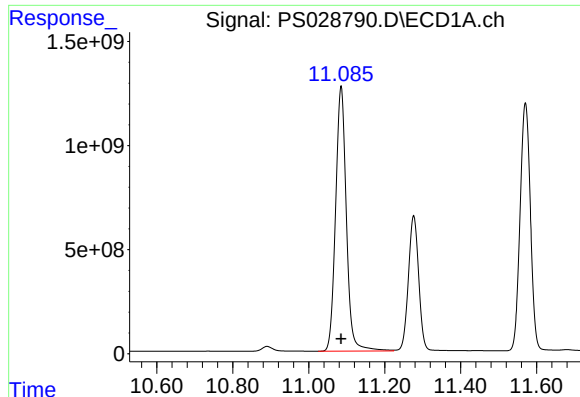
R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 12260566434
Conc: 942.78 ng/ml

Time Response_ Signal: PS028790.D\ECD2B.ch



#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 5663401402
Conc: 940.85 ng/ml



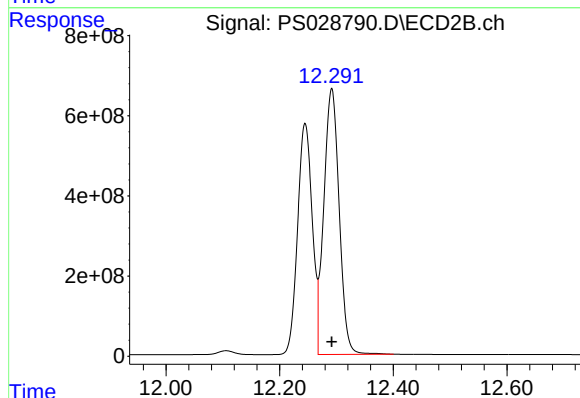
#15 Picloram

R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 25059396827
Conc: 951.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

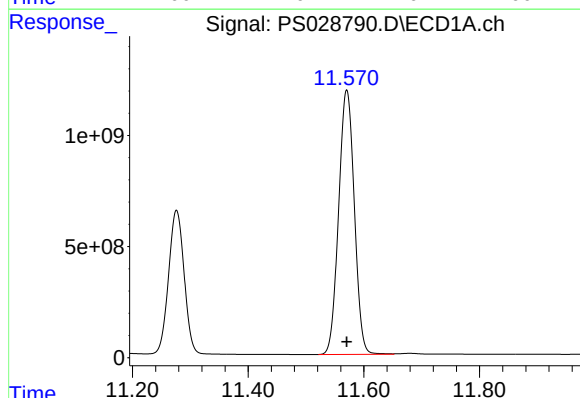
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



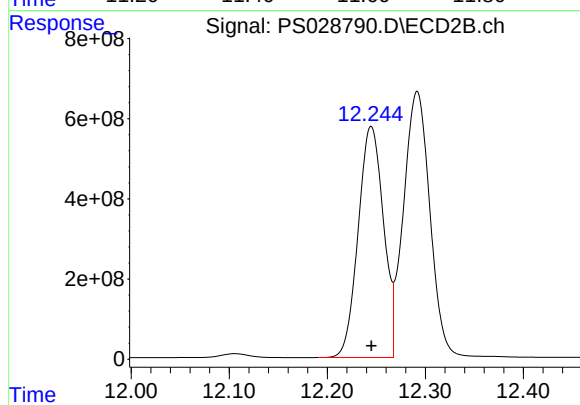
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 12444414253
Conc: 952.26 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 22401440664
Conc: 964.96 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 10328797190
Conc: 963.81 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028791.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:59
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:37:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.210	7.700	3159.0E6	1634.0E6	1448.854	1477.000
Target Compounds						
1) T Dalapon	2.620	2.674	3901.5E6	2660.4E6	1367.777	1355.258
2) T 3,5-DICHL...	6.384	6.660	4307.4E6	2235.6E6	1353.554	1371.814
3) T 4-Nitroph...	7.007	7.228	1975.5E6	1099.5E6	1351.202	1352.954
5) T DICAMBA	7.396	7.898	13385.8E6	7820.8E6	1377.179	1405.324
6) T MCPP	7.584	8.007	952.4E6	470.5E6	144.213	141.020
7) T MCPA	7.735	8.252	1270.1E6	643.3E6	140.546	138.269
8) T DICHLORPROP	8.102	8.612	3474.4E6	1899.0E6	1364.612	1388.514
9) T 2,4-D	8.331	8.940	3718.3E6	1988.4E6	1357.155	1389.047
10) T Pentachlo...	8.631	9.465	45093.8E6	29077.7E6	1253.147	1364.143
11) T 2,4,5-TP ...	9.206	9.842	20859.8E6	12378.2E6	1370.560	1391.100
12) T 2,4,5-T	9.497	10.260	21373.9E6	11941.5E6	1363.706	1390.614
13) T 2,4-DB	10.068	10.826	4130.0E6	1402.8E6	1392.613	1420.801
14) T DINOSEB	11.276	11.204	17617.5E6	8297.5E6	1356.705	1379.055
15) T Picloram	11.084	12.292	36367.3E6	18444.3E6	1382.691	1413.049
16) T DCPA	11.570	12.246	31790.5E6	15026.5E6	1372.953	1404.946

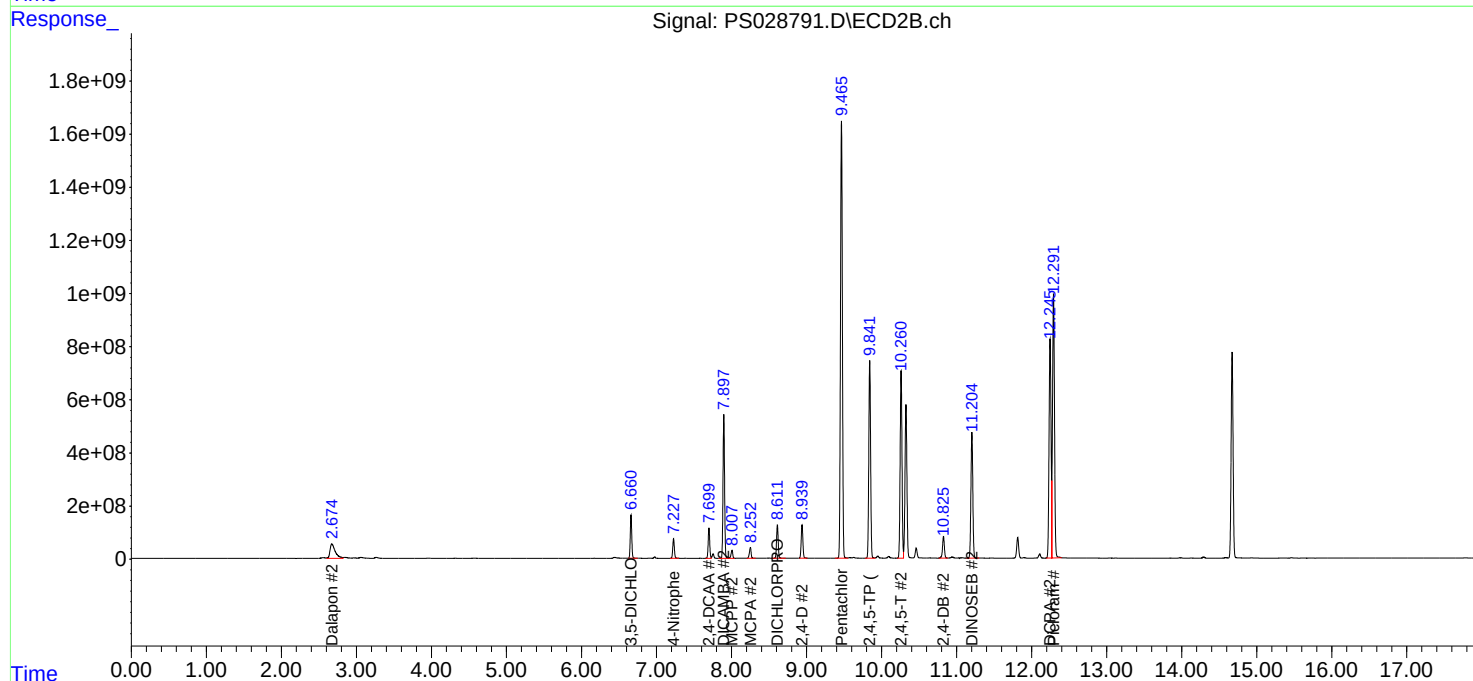
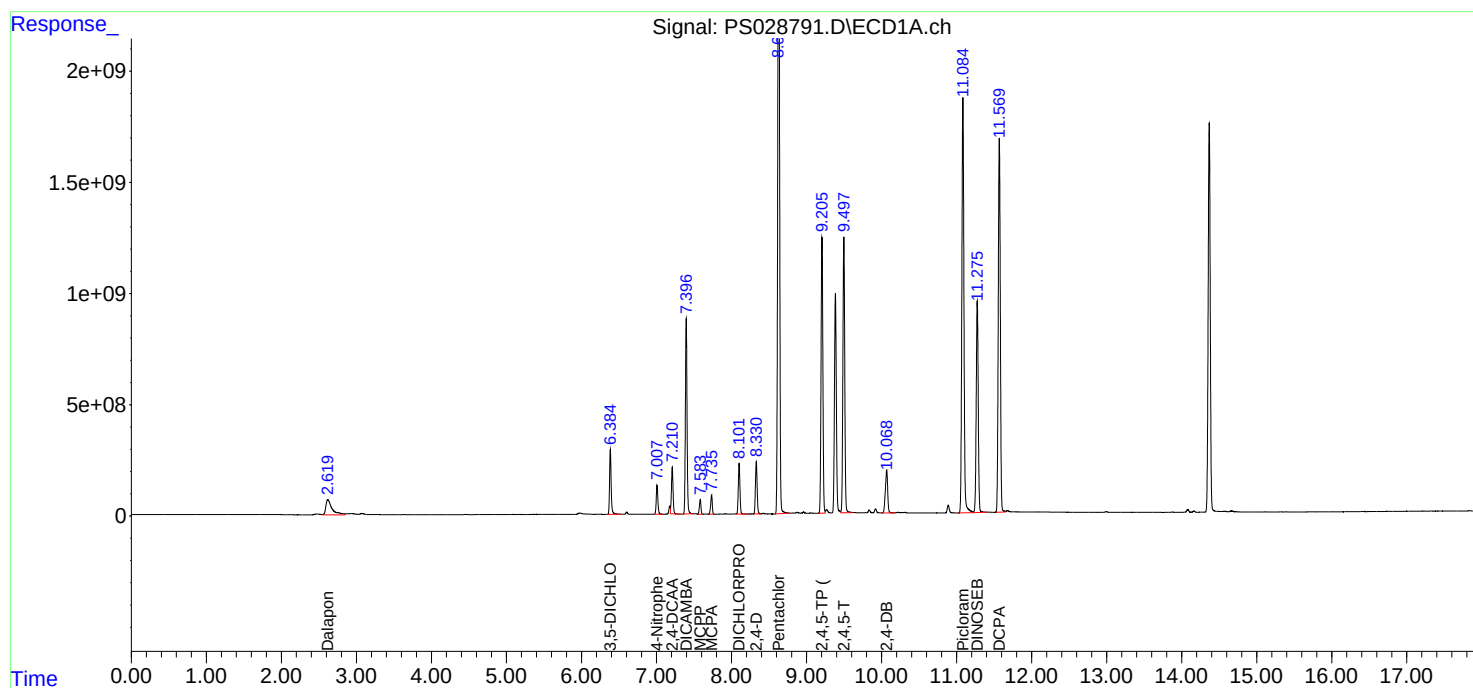
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028791.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:59
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:37:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

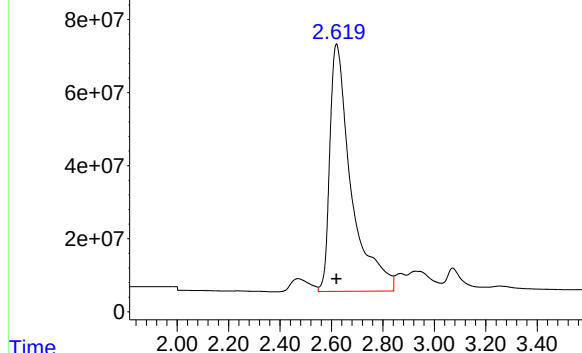


Response_ Signal: PS028791.D\ECD1A.ch

#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 3901479879
Conc: 1367.78 ng/ml

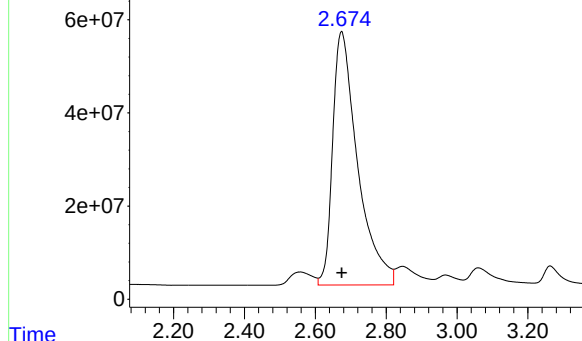
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



Time Response_ Signal: PS028791.D\ECD2B.ch

#1 Dalapon

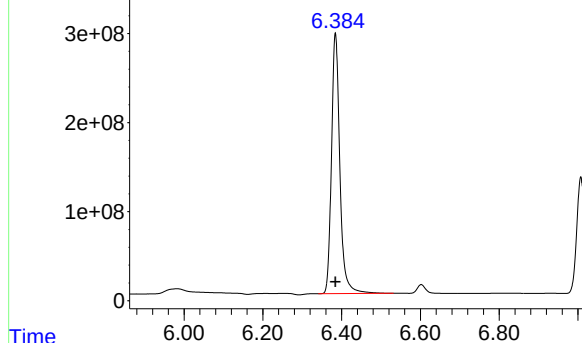
R.T.: 2.674 min
Delta R.T.: 0.000 min
Response: 2660428203
Conc: 1355.26 ng/ml



Time Response_ Signal: PS028791.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

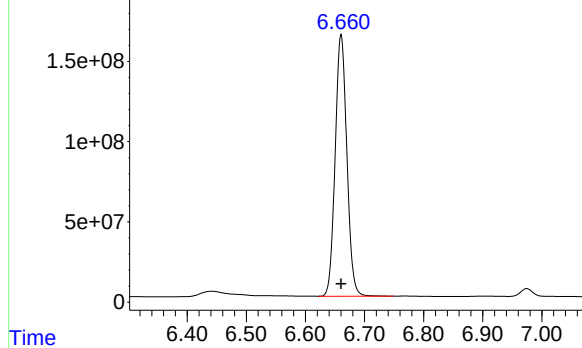
R.T.: 6.384 min
Delta R.T.: 0.000 min
Response: 4307385267
Conc: 1353.55 ng/ml



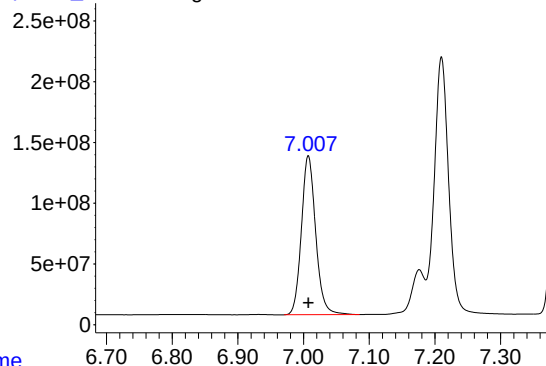
Time Response_ Signal: PS028791.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 2235587156
Conc: 1371.81 ng/ml



Response_ Signal: PS028791.D\ECD1A.ch

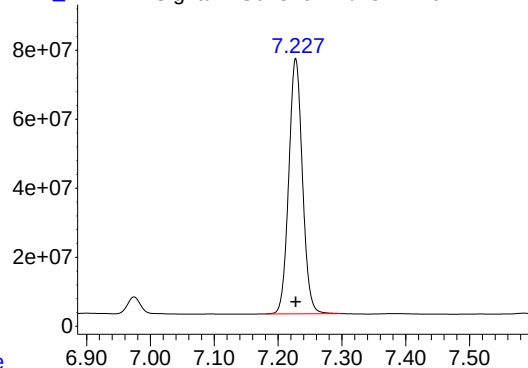


#3 4-Nitrophenol

R.T.: 7.007 min
Delta R.T.: 0.000 min
Response: 1975450118
Conc: 1351.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

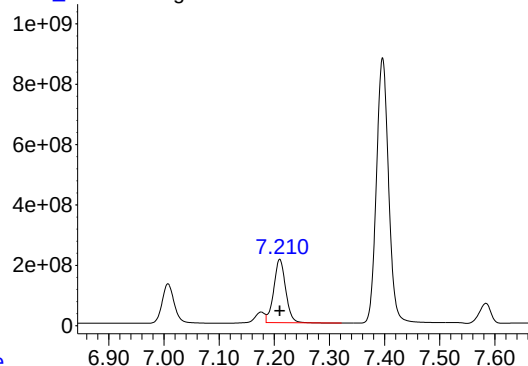
Time Response_ Signal: PS028791.D\ECD2B.ch



#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 1099486307
Conc: 1352.95 ng/ml

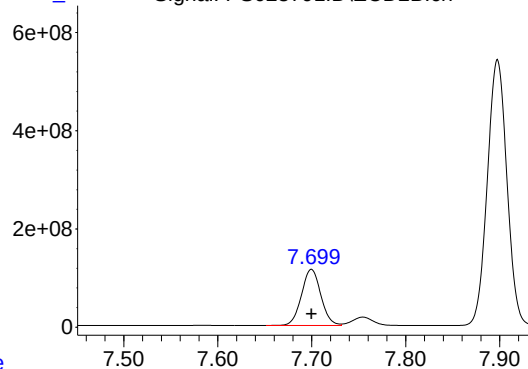
Time Response_ Signal: PS028791.D\ECD1A.ch



#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 3159021002
Conc: 1448.85 ng/ml

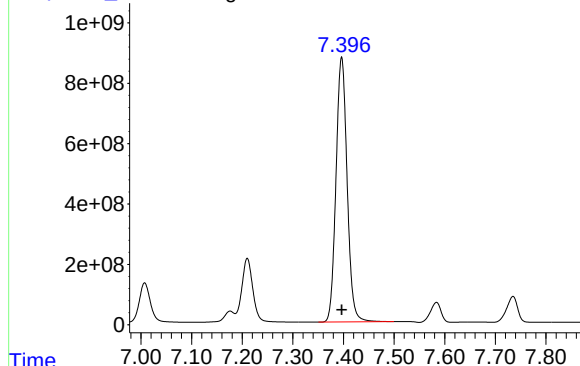
Time Response_ Signal: PS028791.D\ECD2B.ch



#4 2,4-DCAA

R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 1633970858
Conc: 1477.00 ng/ml

Response_ Signal: PS028791.D\ECD1A.ch

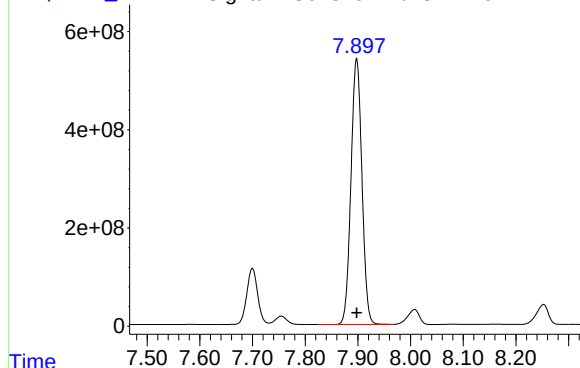


#5 DICAMBA

R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 13385828858
Conc: 1377.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

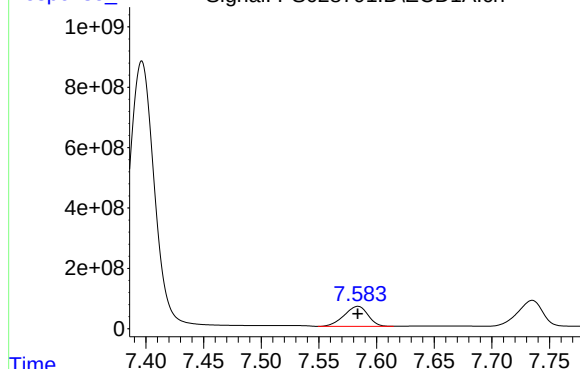
Response_ Signal: PS028791.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 7820821741
Conc: 1405.32 ng/ml

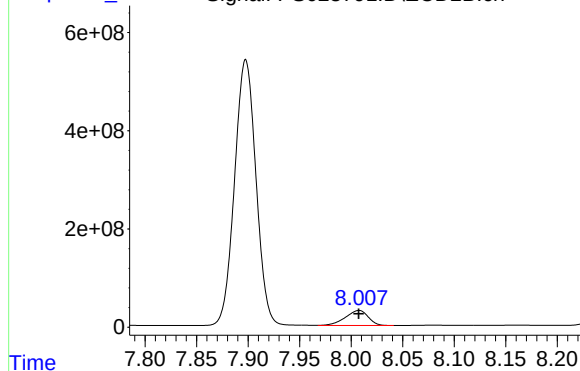
Response_ Signal: PS028791.D\ECD1A.ch



#6 MCP

R.T.: 7.584 min
Delta R.T.: 0.000 min
Response: 952442567
Conc: 144.21 ug/ml

Response_ Signal: PS028791.D\ECD2B.ch

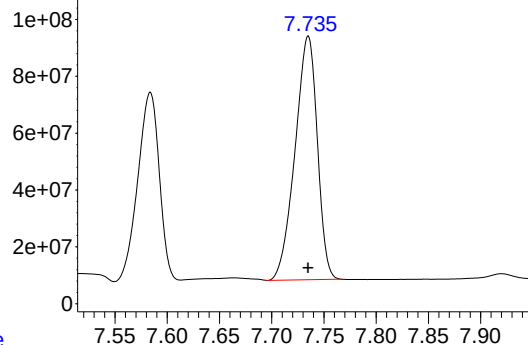


#6 MCP

R.T.: 8.007 min
Delta R.T.: 0.000 min
Response: 470469621
Conc: 141.02 ug/ml

Response_ Signal: PS028791.D\ECD1A.ch

#7 MCPA

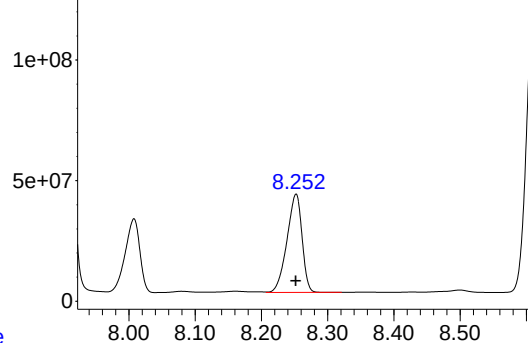


R.T.: 7.735 min
Delta R.T.: 0.000 min
Response: 1270107710
Conc: 140.55 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time Response_ Signal: PS028791.D\ECD2B.ch

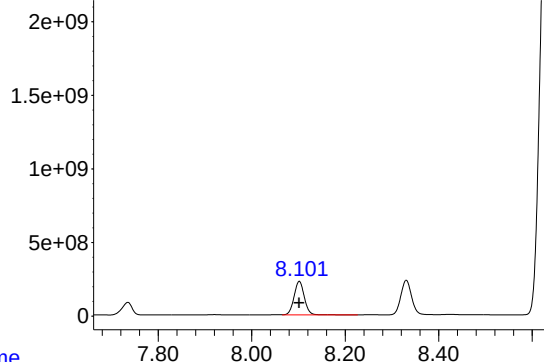
#7 MCPA



R.T.: 8.252 min
Delta R.T.: 0.000 min
Response: 643338244
Conc: 138.27 ug/ml

Time Response_ Signal: PS028791.D\ECD1A.ch

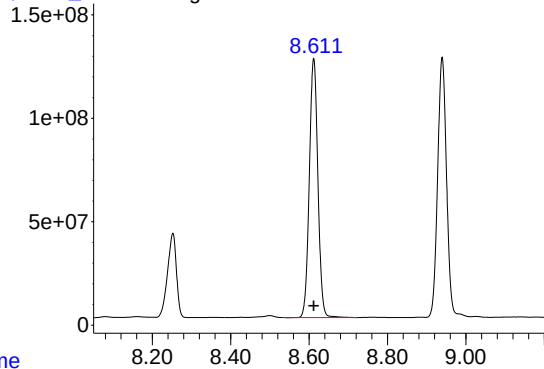
#8 DICHLORPROP



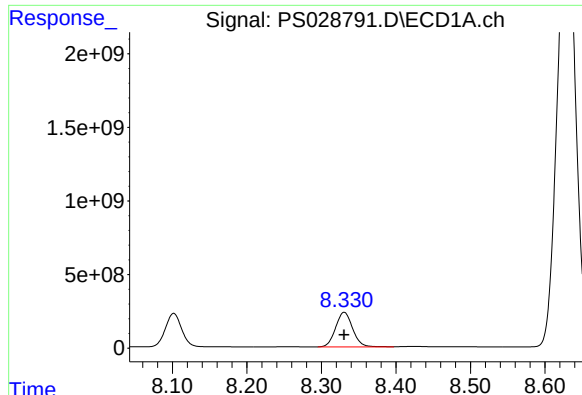
R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 3474411488
Conc: 1364.61 ng/ml

Time Response_ Signal: PS028791.D\ECD2B.ch

#8 DICHLORPROP



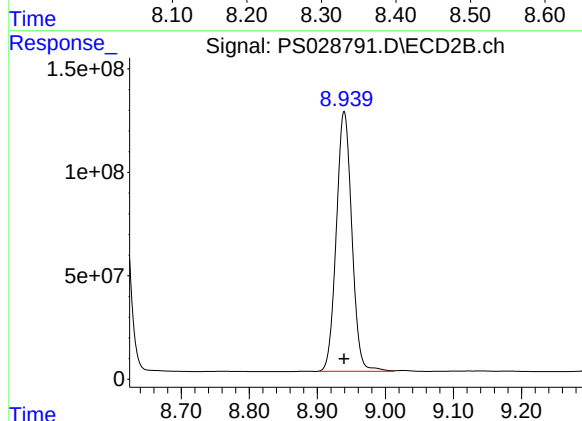
R.T.: 8.612 min
Delta R.T.: 0.000 min
Response: 1898968431
Conc: 1388.51 ng/ml



#9 2,4-D

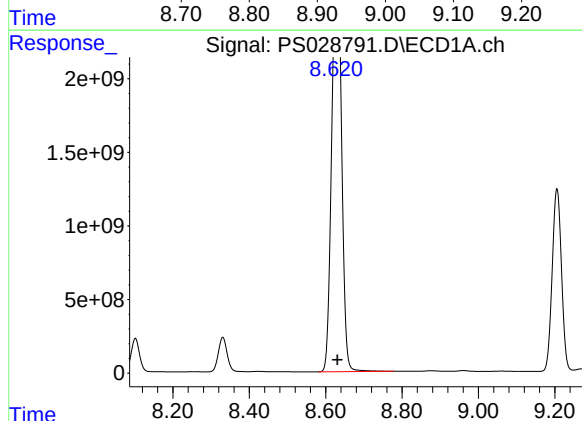
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 3718255839
Conc: 1357.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



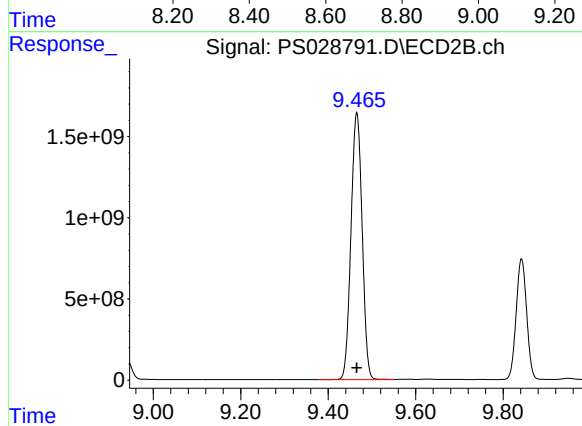
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1988447209
Conc: 1389.05 ng/ml



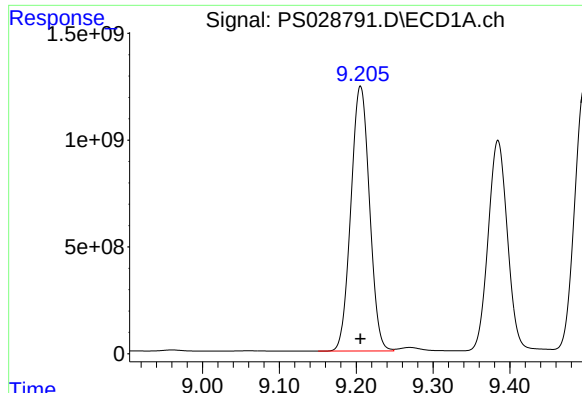
#10 Pentachlorophenol

R.T.: 8.631 min
Delta R.T.: 0.000 min
Response: 45093759991
Conc: 1253.15 ng/ml



#10 Pentachlorophenol

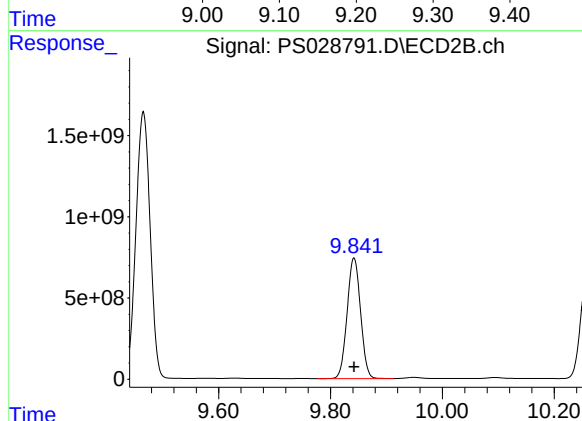
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 29077732626
Conc: 1364.14 ng/ml



#11 2,4,5-TP (SILVEX)

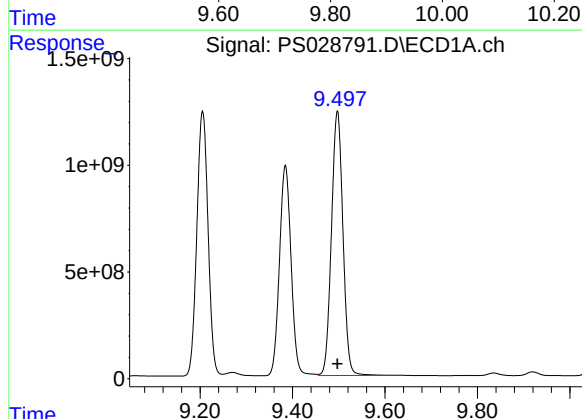
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 20859775932
Conc: 1370.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



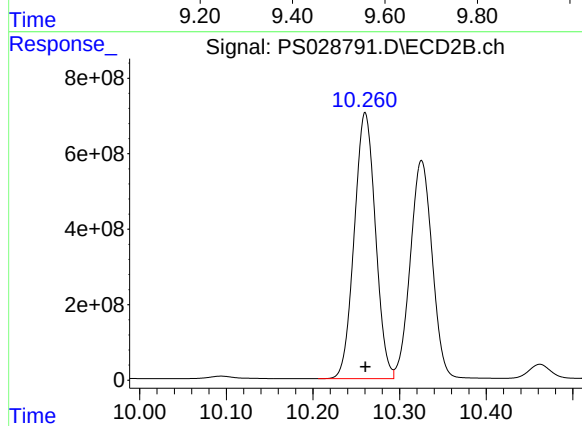
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 12378220785
Conc: 1391.10 ng/ml



#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 21373941933
Conc: 1363.71 ng/ml

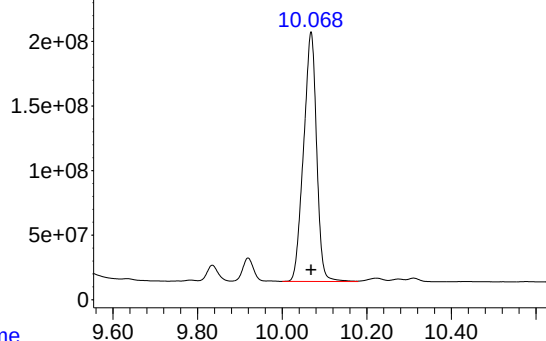


#12 2,4,5-T

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 11941494906
Conc: 1390.61 ng/ml

Response_ Signal: PS028791.D\ECD1A.ch

#13 2,4-DB

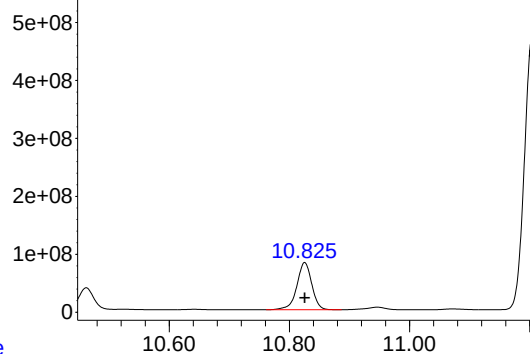


R.T.: 10.068 min
Delta R.T.: 0.000 min
Response: 4130041812
Conc: 1392.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Time Response_ Signal: PS028791.D\ECD2B.ch

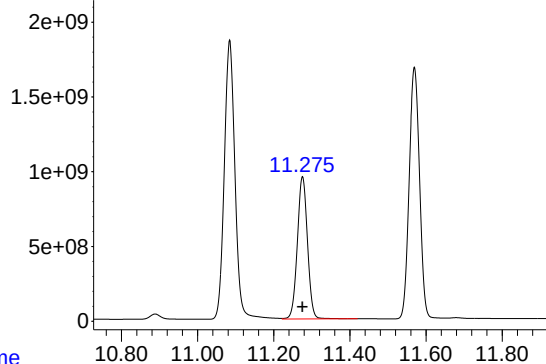
#13 2,4-DB



R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 1402847422
Conc: 1420.80 ng/ml

Time Response_ Signal: PS028791.D\ECD1A.ch

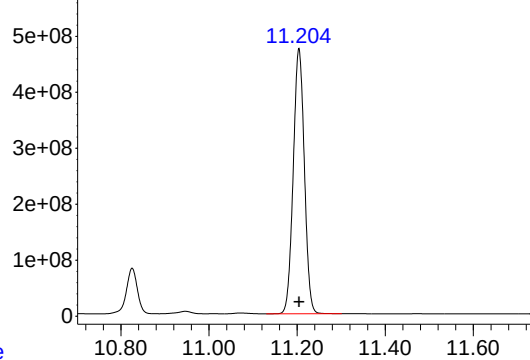
#14 DINOSEB



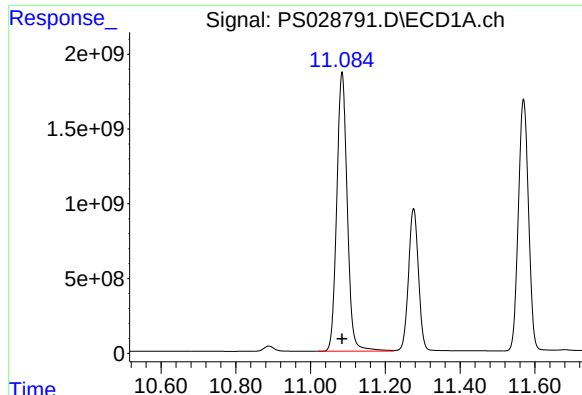
R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 17617474887
Conc: 1356.70 ng/ml

Time Response_ Signal: PS028791.D\ECD2B.ch

#14 DINOSEB



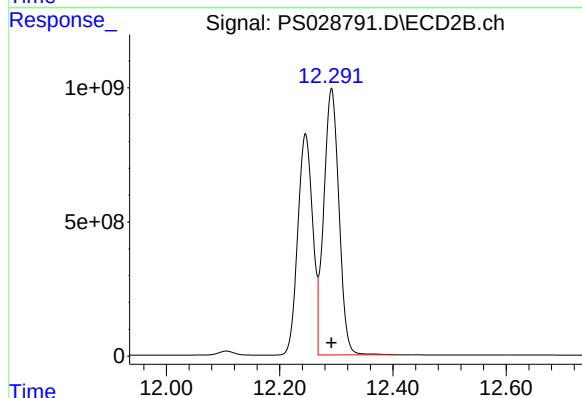
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 8297462357
Conc: 1379.05 ng/ml



#15 Picloram

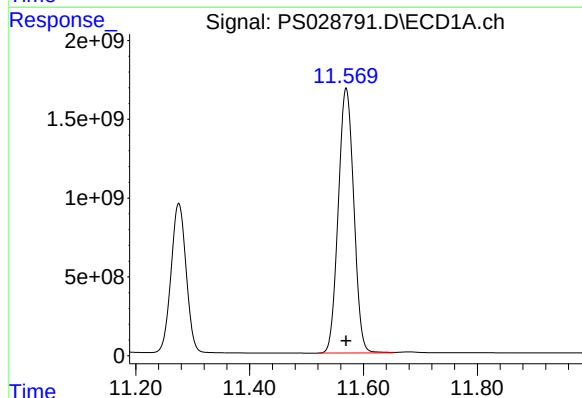
R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 36367254236
Conc: 1382.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



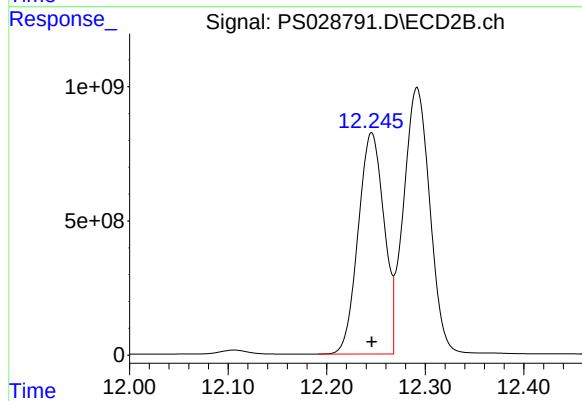
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 18444305786
Conc: 1413.05 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 31790485497
Conc: 1372.95 ng/ml



#16 DCPA

R.T.: 12.246 min
Delta R.T.: 0.000 min
Response: 15026504222
Conc: 1404.95 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028792.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 13:23
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS122324

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 13:46:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.210	7.700	1706.7E6	828.1E6	754.480	735.781
Target Compounds						
1) T Dalapon	2.621	2.675	1951.6E6	1334.4E6	692.891	677.823
2) T 3,5-DICHL...	6.384	6.661	2305.9E6	1138.7E6	699.801	686.960
3) T 4-Nitroph...	7.008	7.228	1016.0E6	552.1E6	676.411	659.739
5) T DICAMBA	7.396	7.898	7062.8E6	3866.4E6	716.261	704.282
6) T MCPP	7.579	8.002	456.2E6	231.9E6	73.254	70.975
7) T MCPA	7.728	8.245	623.7E6	321.9E6	71.155	69.485
8) T DICHLORPROP	8.101	8.611	1862.9E6	959.8E6	702.121	695.688
9) T 2,4-D	8.331	8.940	2015.1E6	1009.2E6	707.185	699.281
10) T Pentachlo...	8.628	9.465	28881.2E6	15556.7E6	739.273	713.654
11) T 2,4,5-TP ...	9.205	9.842	11329.0E6	6380.5E6	721.166	710.250
12) T 2,4,5-T	9.496	10.260	11730.8E6	6163.7E6	721.046	707.724
13) T 2,4-DB	10.067	10.825	2171.9E6	695.5E6	695.755	716.223
14) T DINOSEB	11.275	11.204	9517.2E6	4242.3E6	708.036	688.788
15) T Picloram	11.084	12.292	19317.9E6	9248.4E6	720.473	720.334
16) T DCPA	11.570	12.245	17485.9E6	7736.3E6	727.032	720.015

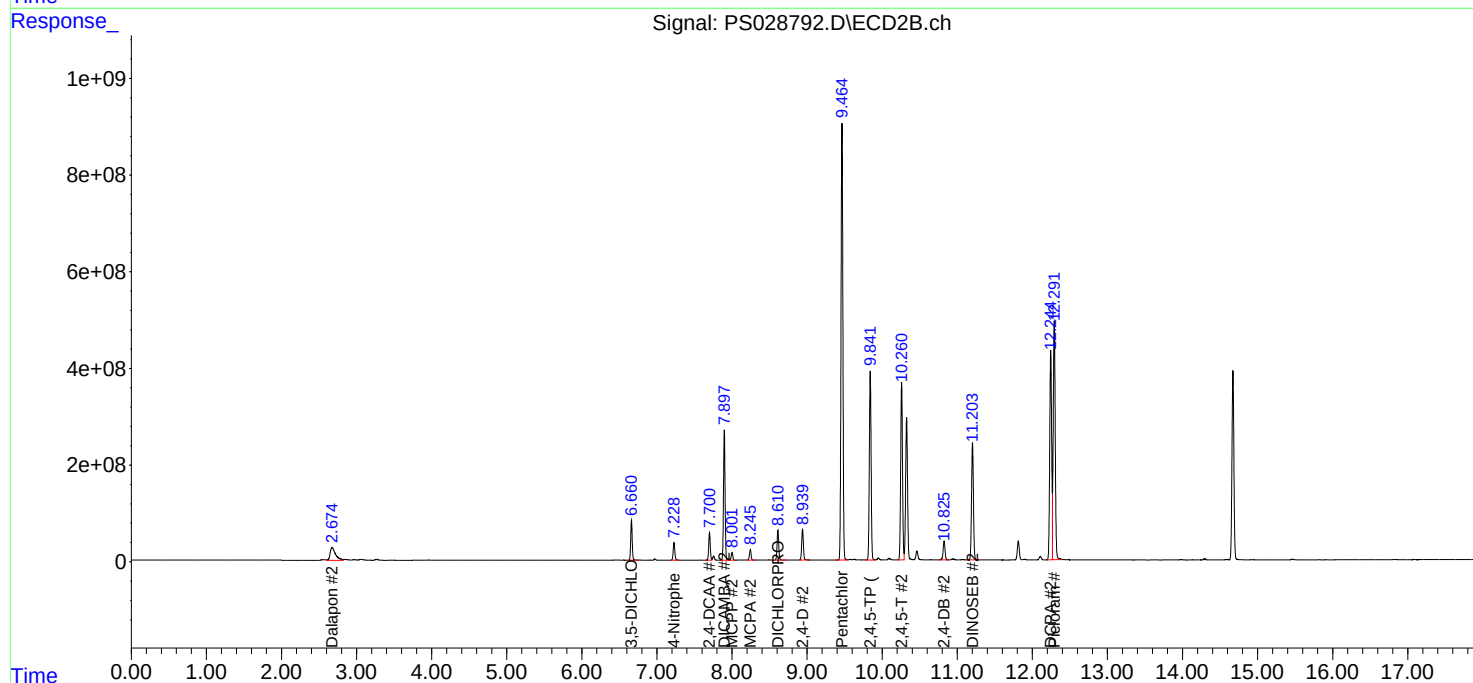
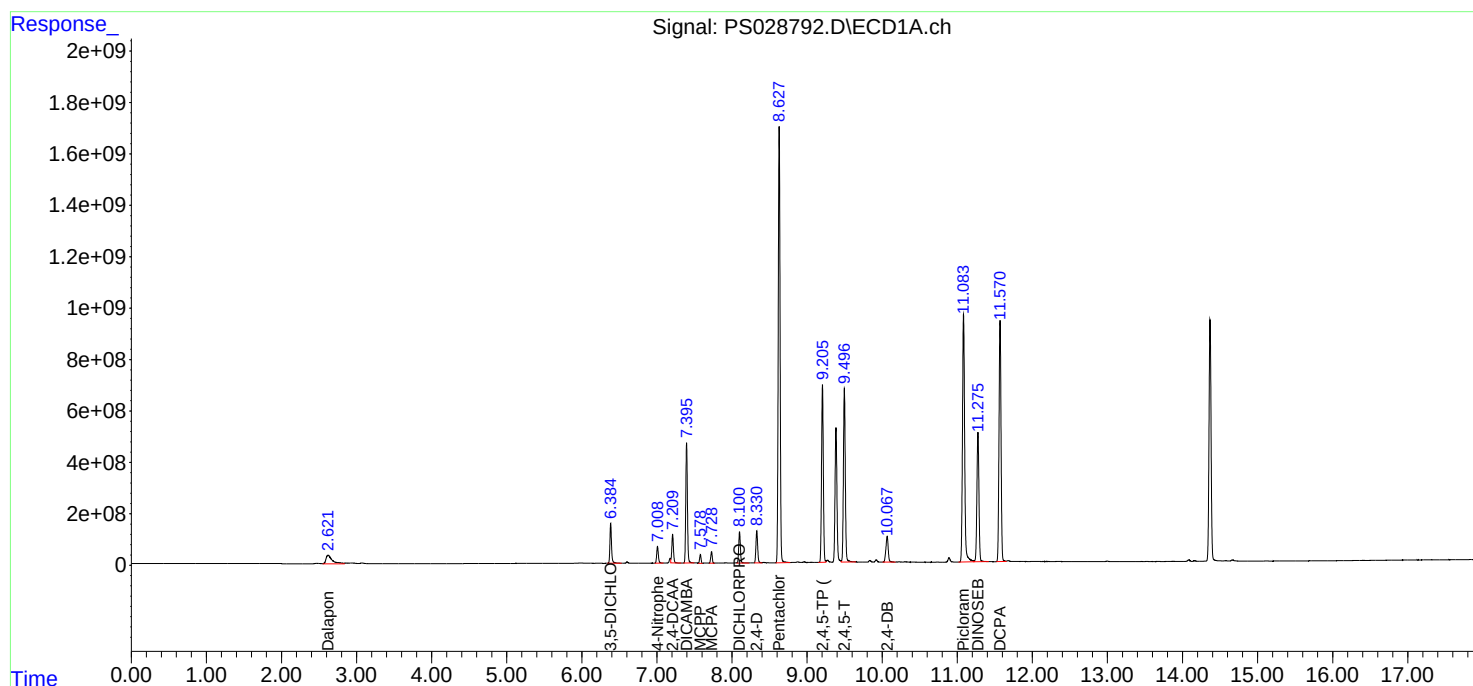
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028792.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 13:23
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS122324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:46:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS028792.D\ECD1A.ch

#1 Dalapon

R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1951632139
Conc: 692.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324

Time

Response_ Signal: PS028792.D\ECD2B.ch

#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 1334364131
Conc: 677.82 ng/ml

Time

Response_ Signal: PS028792.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: 0.000 min
Response: 2305939207
Conc: 699.80 ng/ml

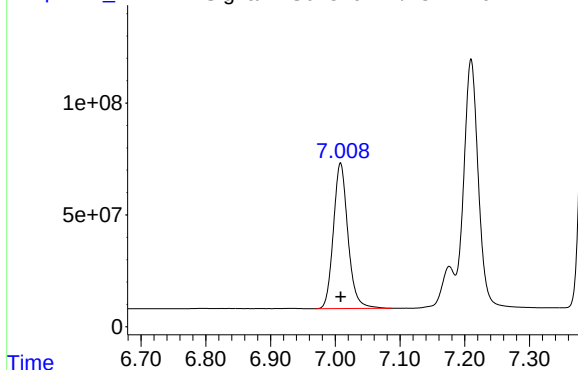
Time

Response_ Signal: PS028792.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.661 min
Delta R.T.: 0.000 min
Response: 1138685851
Conc: 686.96 ng/ml

Time



R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1016009037
Conc: 676.41 ng/ml

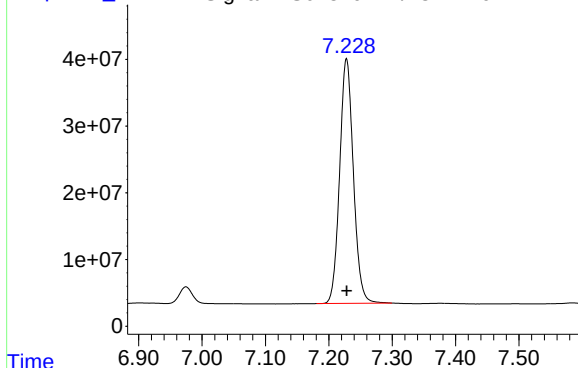
Instrument :
ECD_S
ClientSampleId :
ICVPS122324

Time

Response_

Signal: PS028792.D\ECD2B.ch

#3 4-Nitrophenol



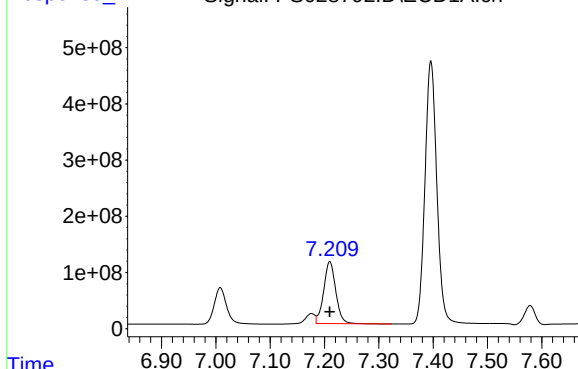
R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 552131161
Conc: 659.74 ng/ml

Time

Response_

Signal: PS028792.D\ECD1A.ch

#4 2,4-DCAA



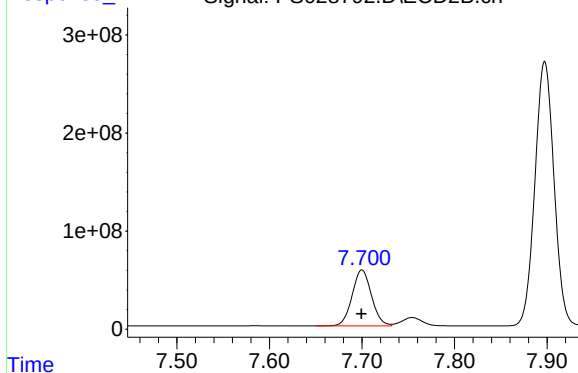
R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1706653392
Conc: 754.48 ng/ml

Time

Response_

Signal: PS028792.D\ECD2B.ch

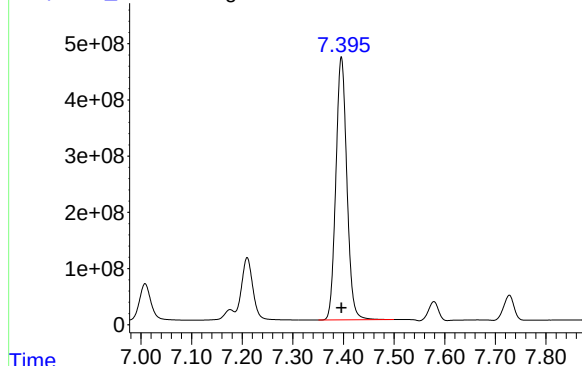
#4 2,4-DCAA



R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 828149629
Conc: 735.78 ng/ml

Time

Response_ Signal: PS028792.D\ECD1A.ch

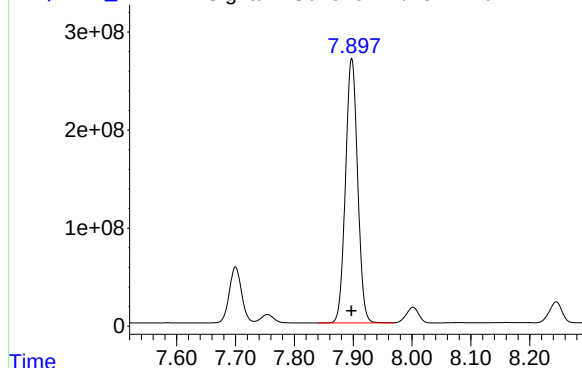


#5 DICAMBA

R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 7062794288
Conc: 716.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324

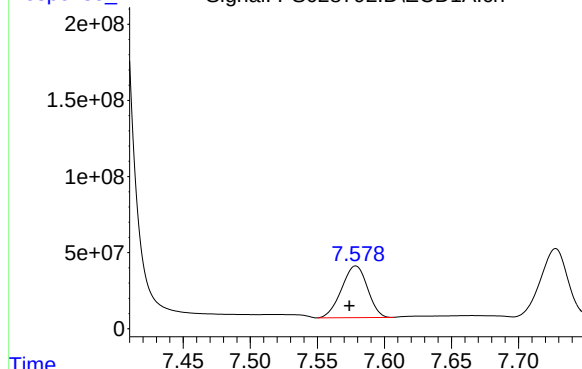
Response_ Signal: PS028792.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 3866416193
Conc: 704.28 ng/ml

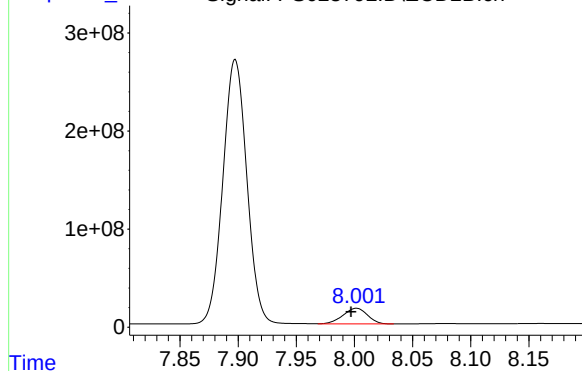
Response_ Signal: PS028792.D\ECD1A.ch



#6 MCP

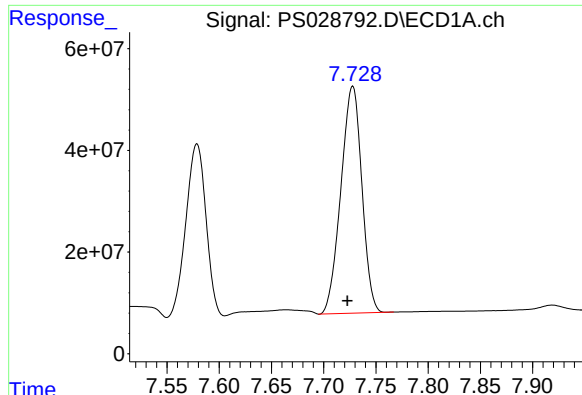
R.T.: 7.579 min
Delta R.T.: 0.005 min
Response: 456168053
Conc: 73.25 ug/ml

Response_ Signal: PS028792.D\ECD2B.ch



#6 MCP

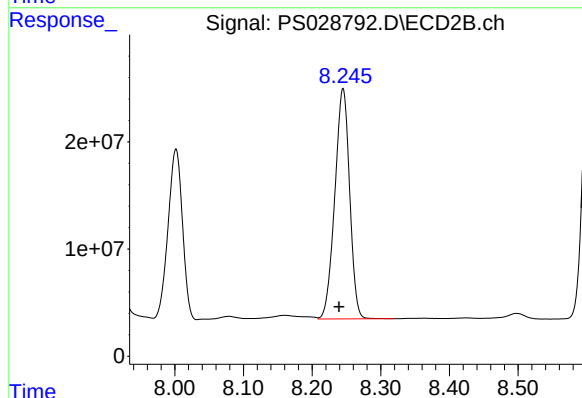
R.T.: 8.002 min
Delta R.T.: 0.005 min
Response: 231930611
Conc: 70.97 ug/ml



#7 MCPA

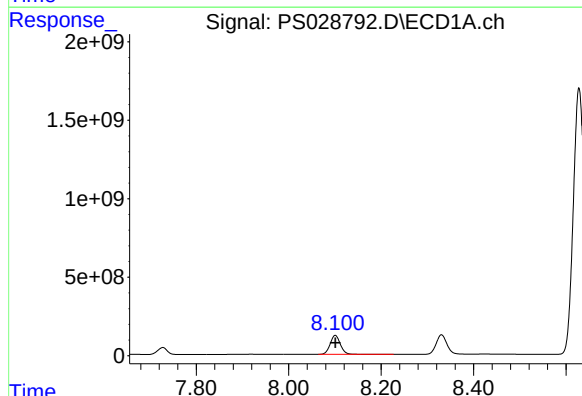
R.T.: 7.728 min
Delta R.T.: 0.005 min
Response: 623705874
Conc: 71.16 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



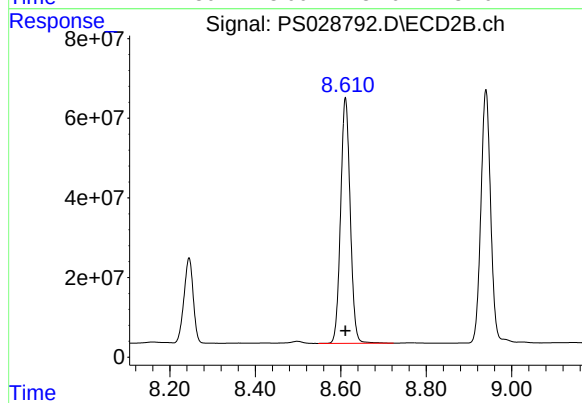
#7 MCPA

R.T.: 8.245 min
Delta R.T.: 0.006 min
Response: 321914525
Conc: 69.48 ug/ml



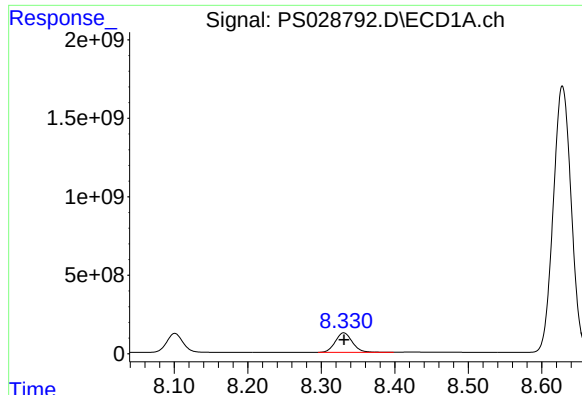
#8 DICHLORPROP

R.T.: 8.101 min
Delta R.T.: 0.000 min
Response: 1862851382
Conc: 702.12 ng/ml



#8 DICHLORPROP

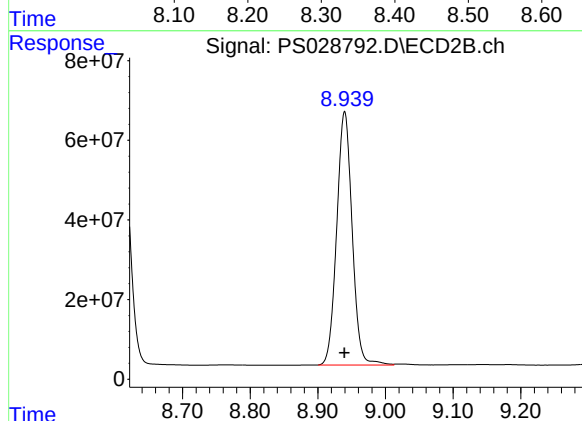
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 959811952
Conc: 695.69 ng/ml



#9 2,4-D

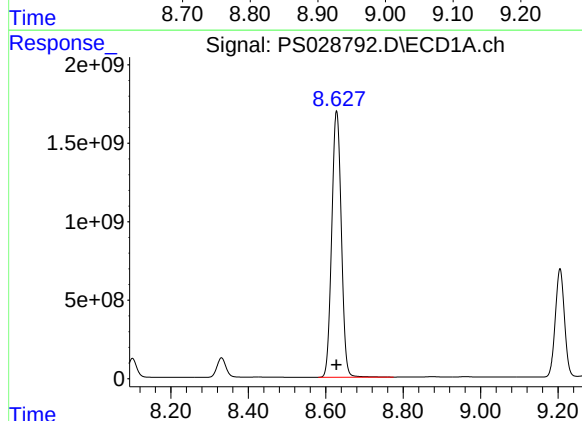
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 2015146828
Conc: 707.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



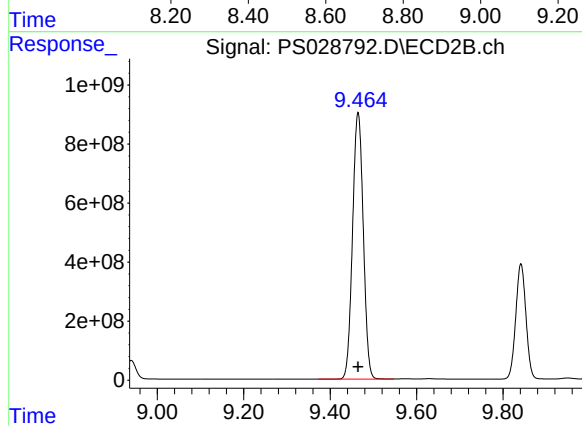
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1009164598
Conc: 699.28 ng/ml



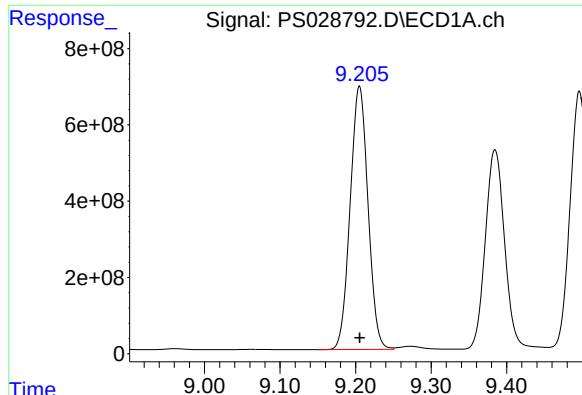
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 28881158451
Conc: 739.27 ng/ml



#10 Pentachlorophenol

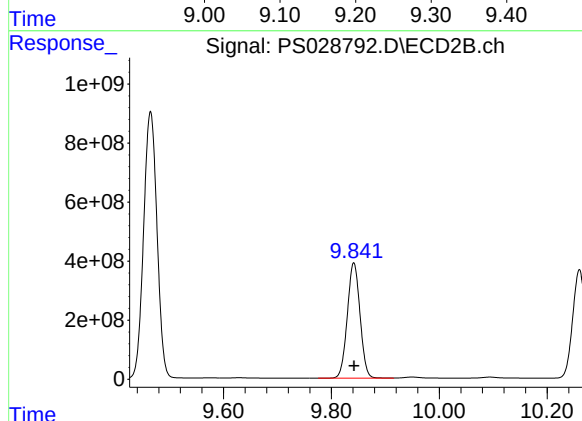
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 15556739865
Conc: 713.65 ng/ml



#11 2,4,5-TP (SILVEX)

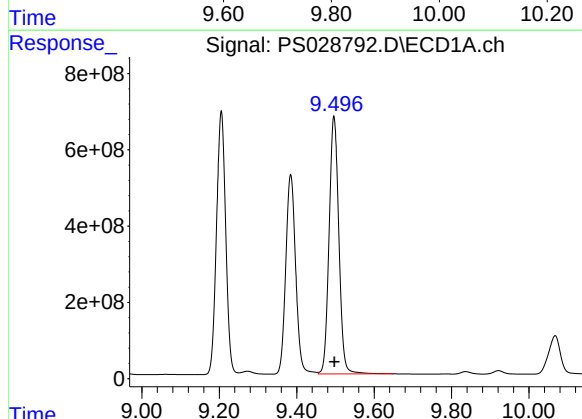
R.T.: 9.205 min
Delta R.T.: 0.000 min
Response: 11329034395
Conc: 721.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



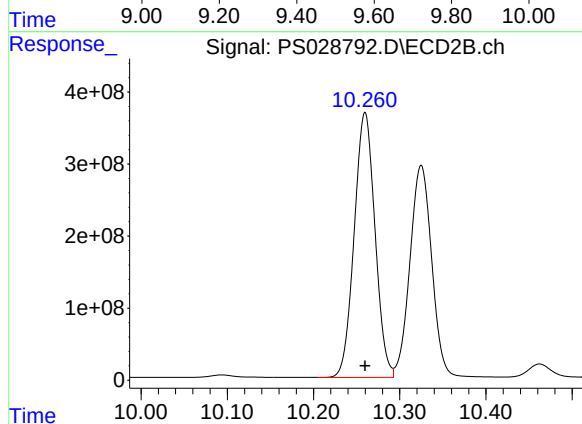
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 6380542860
Conc: 710.25 ng/ml



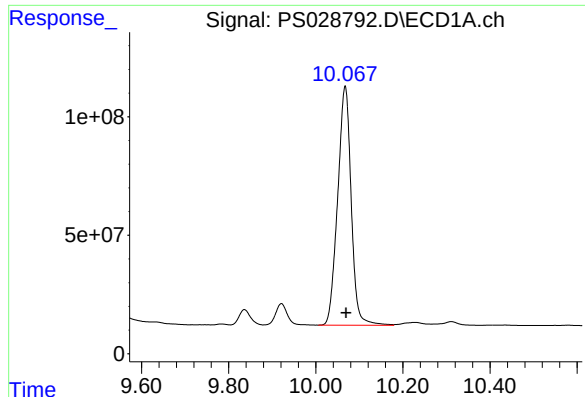
#12 2,4,5-T

R.T.: 9.496 min
Delta R.T.: -0.001 min
Response: 11730841241
Conc: 721.05 ng/ml



#12 2,4,5-T

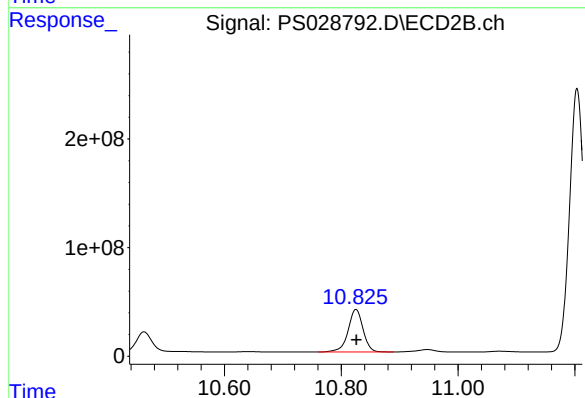
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 6163696965
Conc: 707.72 ng/ml



#13 2,4-DB

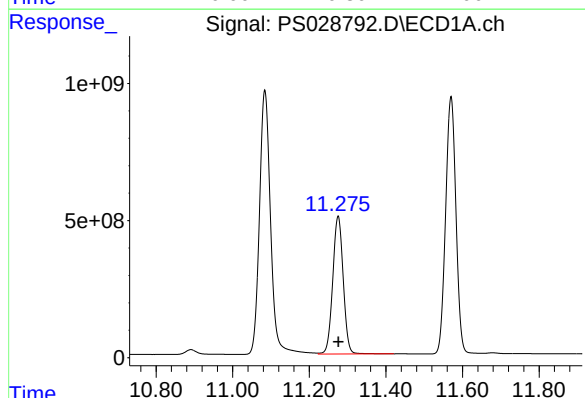
R.T.: 10.067 min
Delta R.T.: -0.002 min
Response: 2171868158
Conc: 695.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



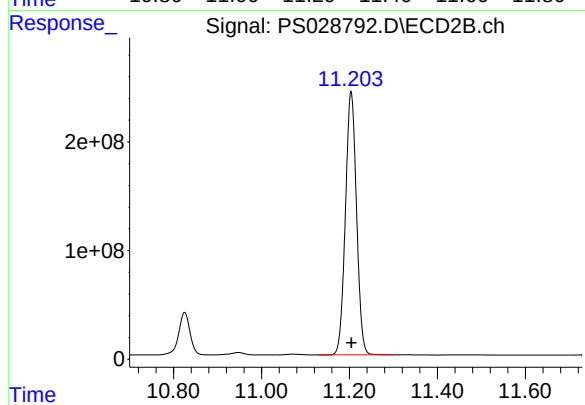
#13 2,4-DB

R.T.: 10.825 min
Delta R.T.: 0.000 min
Response: 695522369
Conc: 716.22 ng/ml



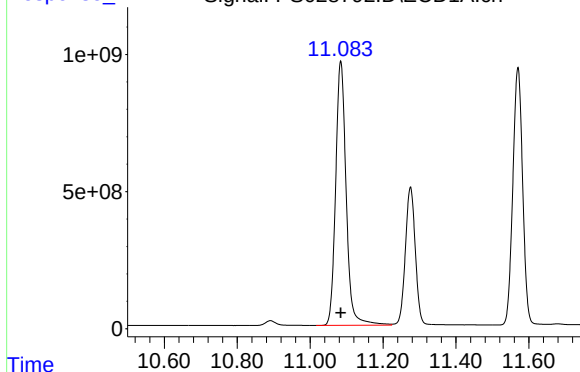
#14 DINOSEB

R.T.: 11.275 min
Delta R.T.: 0.000 min
Response: 9517228199
Conc: 708.04 ng/ml



#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 4242343247
Conc: 688.79 ng/ml



R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 19317884108
Conc: 720.47 ng/ml

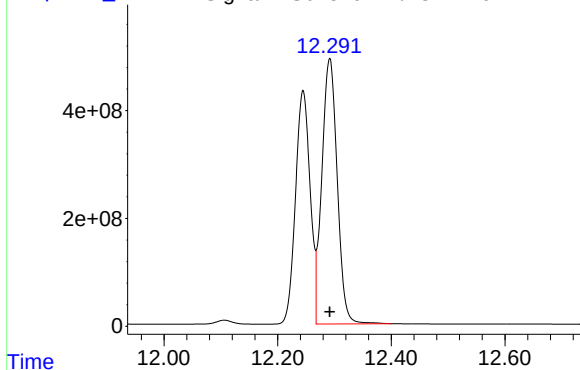
Instrument :
ECD_S
ClientSampleId :
ICVPS122324

Time

Response_

Signal: PS028792.D\ECD2B.ch

#15 Picloram



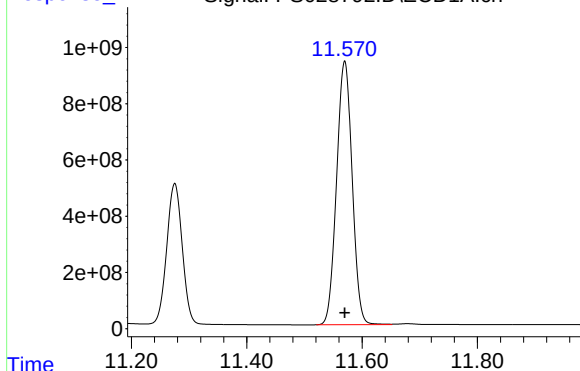
R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 9248385463
Conc: 720.33 ng/ml

Time

Response_

Signal: PS028792.D\ECD1A.ch

#16 DCPA



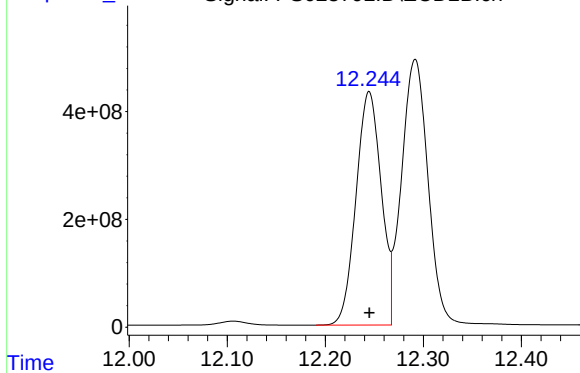
R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 17485864522
Conc: 727.03 ng/ml

Time

Response_

Signal: PS028792.D\ECD2B.ch

#16 DCPA



R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 7736261937
Conc: 720.02 ng/ml

Time



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/23/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 14:11 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.40	7.40	7.30	7.50	0.01
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
Dalapon	2.62	2.62	2.52	2.72	0.00
DICHLORPROP	8.10	8.10	8.00	8.20	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01
2,4,5-T	9.50	9.50	9.40	9.60	0.00
2,4-DB	10.07	10.07	9.97	10.17	0.00
Dinoseb	11.27	11.28	11.18	11.38	0.01



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/23/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 14:11 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.90	7.90	7.80	8.00	0.00
2,4-DCAA	7.70	7.70	7.60	7.80	0.00
Dalapon	2.68	2.67	2.57	2.77	0.00
DICHLORPROP	8.61	8.61	8.51	8.71	0.00
2,4-D	8.94	8.94	8.84	9.04	0.00
2,4,5-TP(Silvex)	9.84	9.84	9.74	9.94	0.00
2,4,5-T	10.26	10.26	10.16	10.36	0.00
2,4-DB	10.83	10.83	10.73	10.93	0.01
Dinoseb	11.20	11.20	11.10	11.30	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL01 Date Analyzed: 12/23/2024

Lab Sample No.: HSTDCCC750 Data File : PS028794.D Time Analyzed: 14:11

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.496	9.397	9.597	734.150	712.500	3.0
2,4,5-TP(Silvex)	9.204	9.106	9.306	736.040	712.500	3.3
2,4-D	8.330	8.232	8.432	719.010	705.000	2.0
2,4-DB	10.067	9.969	10.169	711.030	712.500	-0.2
2,4-DCAA	7.209	7.110	7.310	766.590	750.000	2.2
Dalapon	2.619	2.520	2.720	708.540	682.500	3.8
DICAMBA	7.395	7.297	7.497	730.800	705.000	3.7
DICHLORPROP	8.101	8.002	8.202	719.010	705.000	2.0
Dinoseb	11.274	11.176	11.376	721.470	705.000	2.3



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL01 Date Analyzed: 12/23/2024

Lab Sample No.: HSTDCCC750 Data File : PS028794.D Time Analyzed: 14:11

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.260	10.160	10.360	713.330	712.500	0.1
2,4,5-TP(Silvex)	9.841	9.742	9.942	716.070	712.500	0.5
2,4-D	8.939	8.840	9.040	705.580	705.000	0.1
2,4-DB	10.825	10.726	10.926	720.650	712.500	1.1
2,4-DCAA	7.699	7.600	7.800	742.000	750.000	-1.1
Dalapon	2.675	2.574	2.774	682.490	682.500	0.0
DICAMBA	7.897	7.798	7.998	712.440	705.000	1.1
DICHLORPROP	8.611	8.512	8.712	701.520	705.000	-0.5
Dinoseb	11.203	11.104	11.304	691.380	705.000	-1.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028794.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 14:11
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 14:45:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.209	7.699	1734.0E6	835.2E6	766.590	742.005
Target Compounds							
1) T	Dalapon	2.619	2.675	1995.7E6	1343.5E6	708.539	682.486
2) T	3,5-DICHL...	6.384	6.660	2352.9E6	1144.7E6	714.051	690.611
3) T	4-Nitroph...	7.008	7.227	1036.3E6	555.3E6	689.945	663.578
5) T	DICAMBA	7.395	7.897	7206.1E6	3911.2E6	730.799	712.444
6) T	MCPD	7.578	8.001	465.8E6	234.8E6	74.797	71.848
7) T	MCPA	7.727	8.244	638.7E6	326.9E6	72.865	70.551
8) T	DICHLORPROP	8.101	8.611	1907.6E6	967.9E6	719.006	701.519
9) T	2,4-D	8.330	8.939	2048.9E6	1018.3E6	719.013	705.580
10) T	Pentachlo...	8.628	9.464	29382.1E6	15658.7E6	752.096	718.331
11) T	2,4,5-TP ...	9.204	9.841	11562.7E6	6432.8E6	736.038	716.065
12) T	2,4,5-T	9.496	10.260	11944.0E6	6212.5E6	734.148	713.327
13) T	2,4-DB	10.067	10.825	2219.6E6	699.8E6	711.031	720.652
14) T	DINOSEB	11.274	11.203	9697.8E6	4258.3E6	721.472	691.378
15) T	Picloram	11.083	12.291	19703.2E6	9308.9E6	734.844	725.046
16) T	DCPA	11.569	12.244	17761.8E6	7772.6E6	738.506	723.395

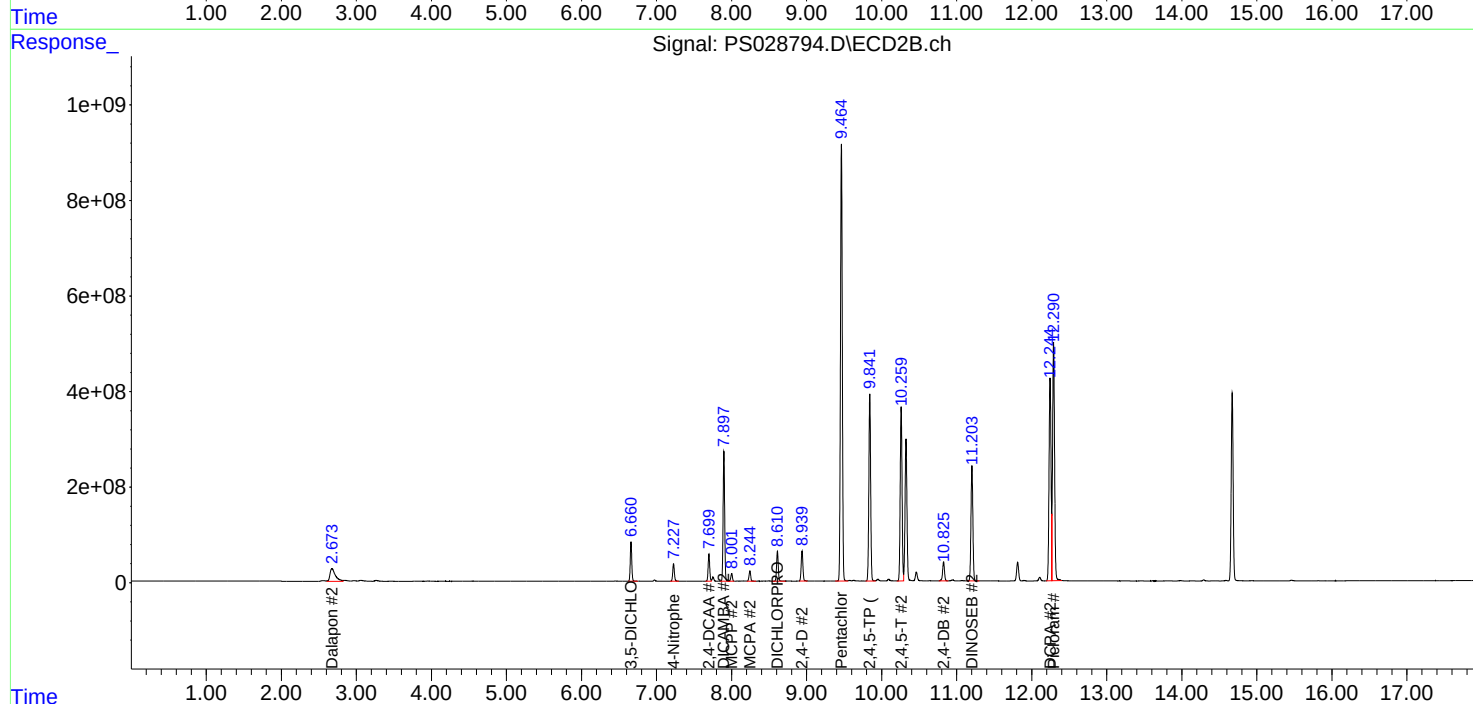
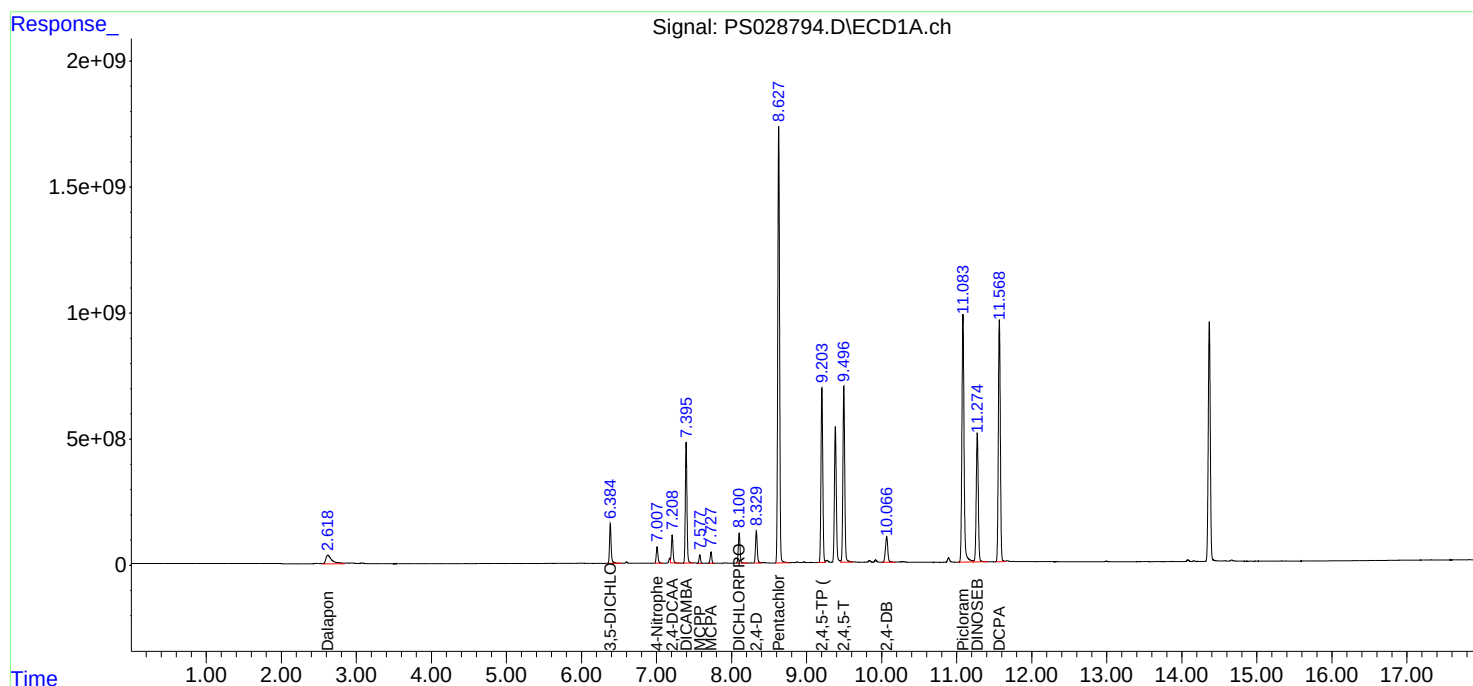
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028794.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 14:11
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 14:45:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS028794.D\ECD1A.ch

#1 Dalapon

R.T.: 2.619 min
Delta R.T.: 0.000 min
Response: 1995707722
Conc: 708.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Time

Response_ Signal: PS028794.D\ECD2B.ch

#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 1343543057
Conc: 682.49 ng/ml

Time

Response_ Signal: PS028794.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: -0.001 min
Response: 2352894873
Conc: 714.05 ng/ml

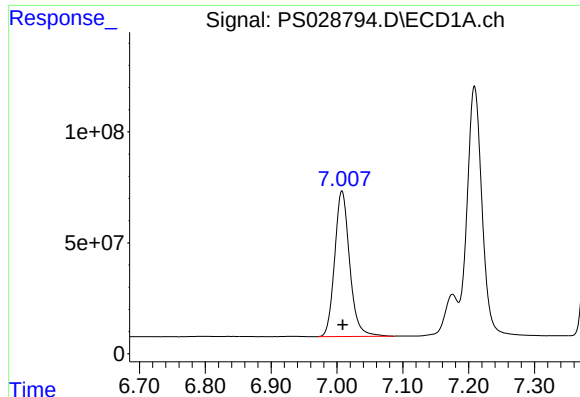
Time

Response_ Signal: PS028794.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 1144738246
Conc: 690.61 ng/ml

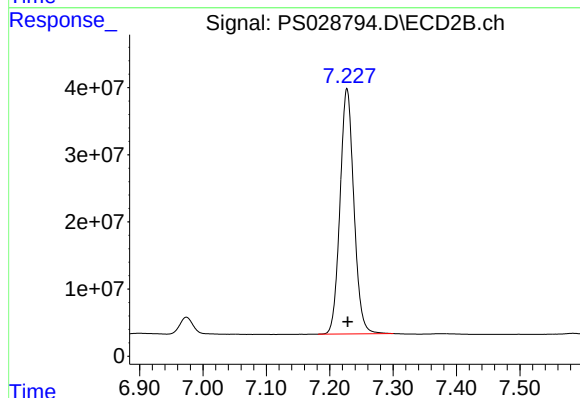
Time



#3 4-Nitrophenol

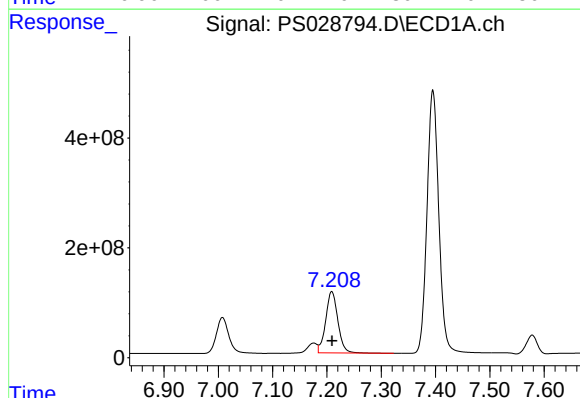
R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1036337424
Conc: 689.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



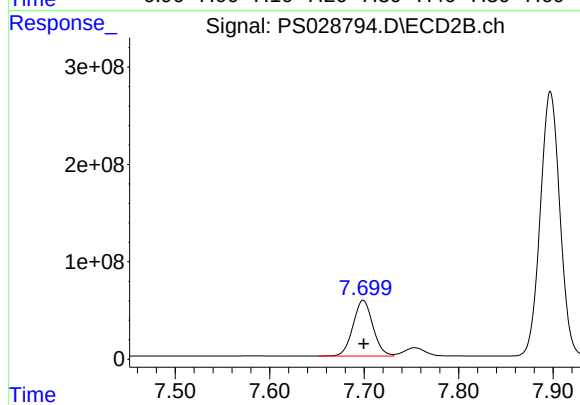
#3 4-Nitrophenol

R.T.: 7.227 min
Delta R.T.: -0.001 min
Response: 555344179
Conc: 663.58 ng/ml



#4 2,4-DCAA

R.T.: 7.209 min
Delta R.T.: 0.000 min
Response: 1734045706
Conc: 766.59 ng/ml

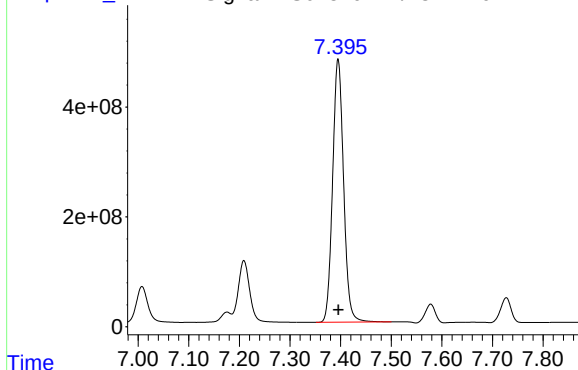


#4 2,4-DCAA

R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 835154170
Conc: 742.00 ng/ml

Signal: PS028794.D\ECD1A.ch

#5 DICAMBA

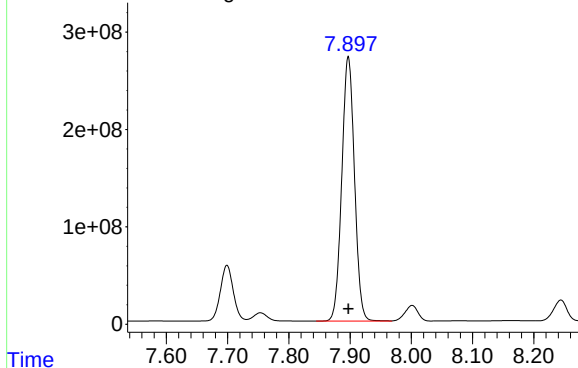


R.T.: 7.395 min
Delta R.T.: 0.000 min
Response: 7206146200
Conc: 730.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Signal: PS028794.D\ECD2B.ch

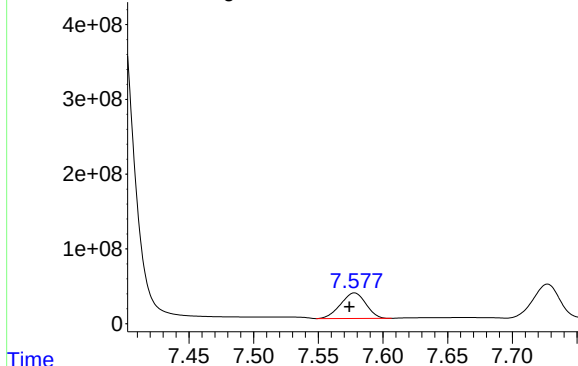
#5 DICAMBA



R.T.: 7.897 min
Delta R.T.: 0.000 min
Response: 3911223494
Conc: 712.44 ng/ml

Signal: PS028794.D\ECD1A.ch

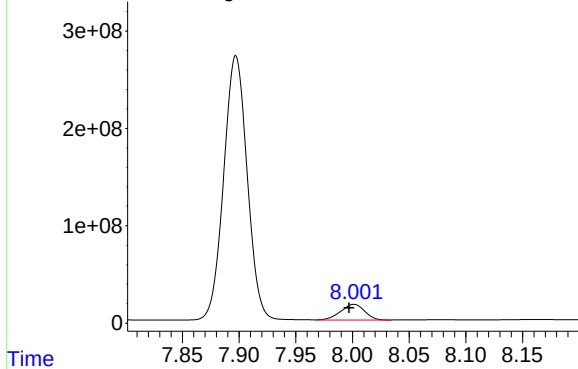
#6 MCP



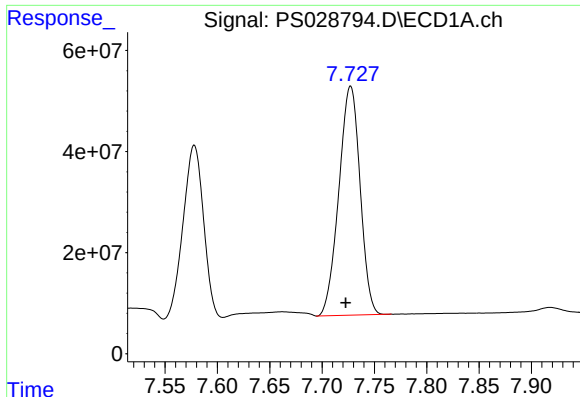
R.T.: 7.578 min
Delta R.T.: 0.004 min
Response: 465779081
Conc: 74.80 ug/ml

Signal: PS028794.D\ECD2B.ch

#6 MCP



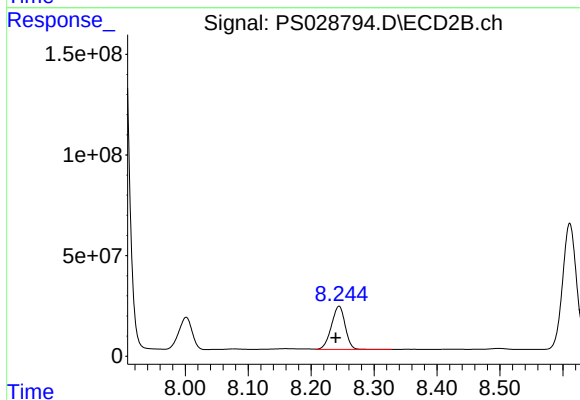
R.T.: 8.001 min
Delta R.T.: 0.004 min
Response: 234785855
Conc: 71.85 ug/ml



#7 MCPA

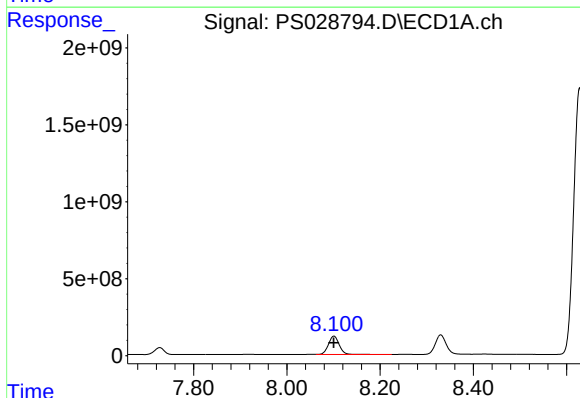
R.T.: 7.727 min
Delta R.T.: 0.005 min
Response: 638693305
Conc: 72.86 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



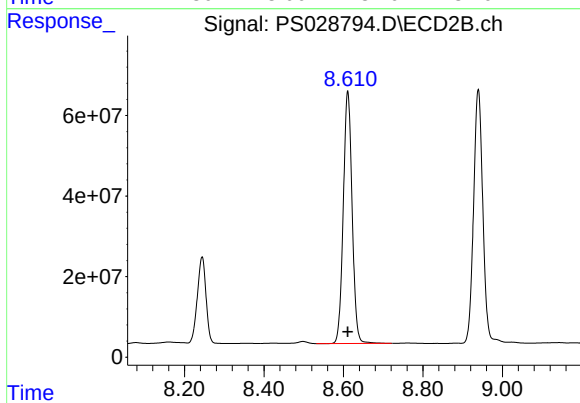
#7 MCPA

R.T.: 8.244 min
Delta R.T.: 0.005 min
Response: 326854134
Conc: 70.55 ug/ml



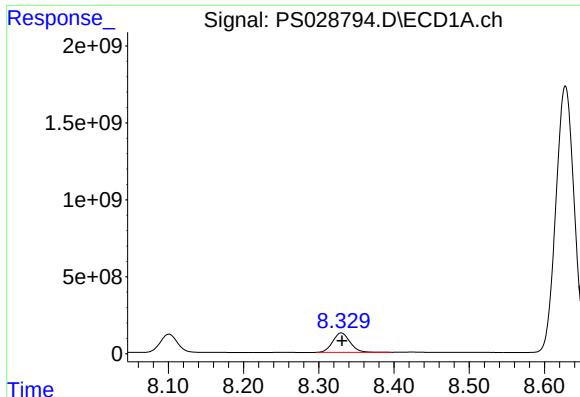
#8 DICHLORPROP

R.T.: 8.101 min
Delta R.T.: 0.000 min
Response: 1907649093
Conc: 719.01 ng/ml



#8 DICHLORPROP

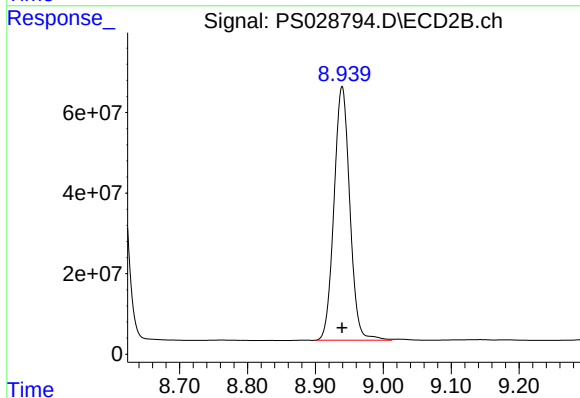
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 967856437
Conc: 701.52 ng/ml



#9 2,4-D

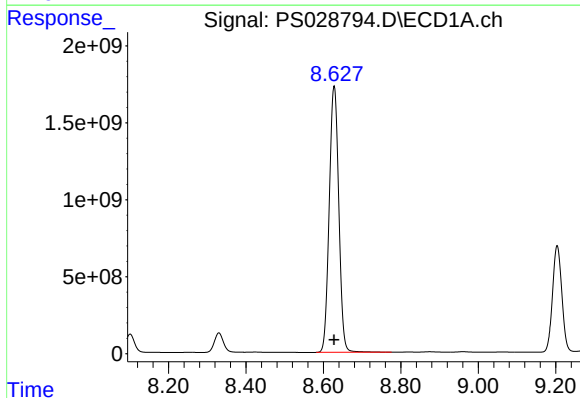
R.T.: 8.330 min
Delta R.T.: -0.001 min
Response: 2048850354
Conc: 719.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



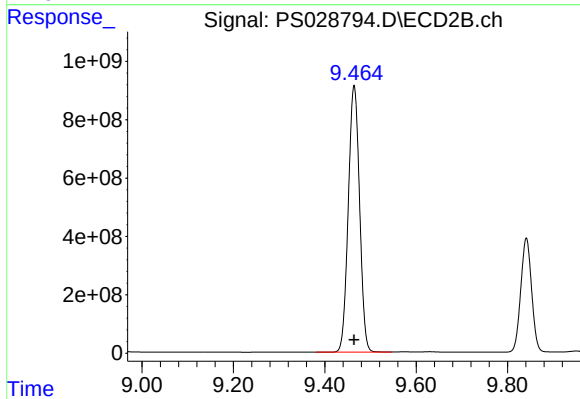
#9 2,4-D

R.T.: 8.939 min
Delta R.T.: 0.000 min
Response: 1018254813
Conc: 705.58 ng/ml



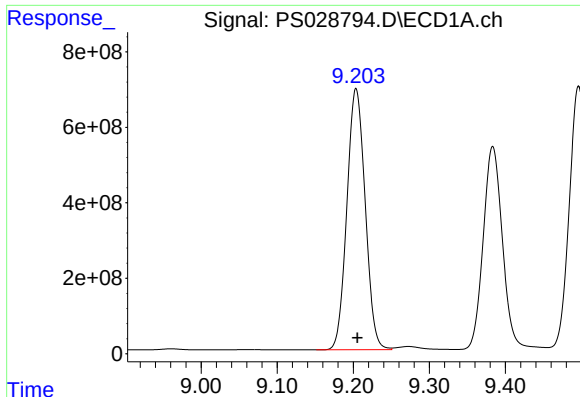
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 29382138947
Conc: 752.10 ng/ml



#10 Pentachlorophenol

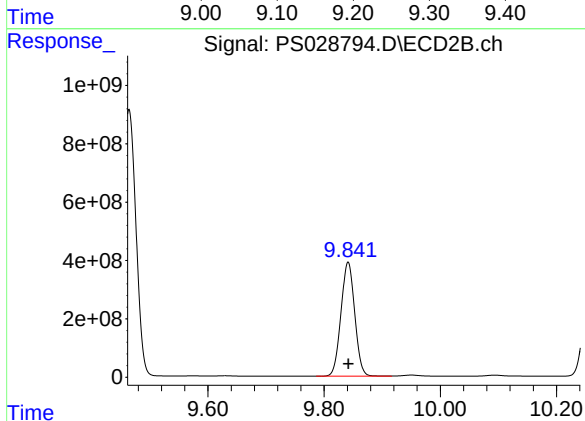
R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 15658694754
Conc: 718.33 ng/ml



#11 2,4,5-TP (SILVEX)

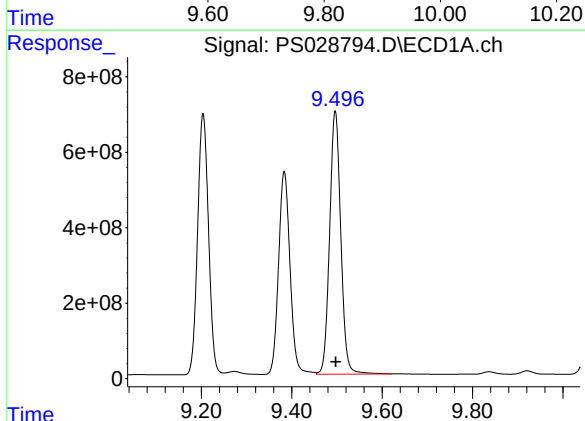
R.T.: 9.204 min
Delta R.T.: -0.002 min
Response: 11562658894
Conc: 736.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



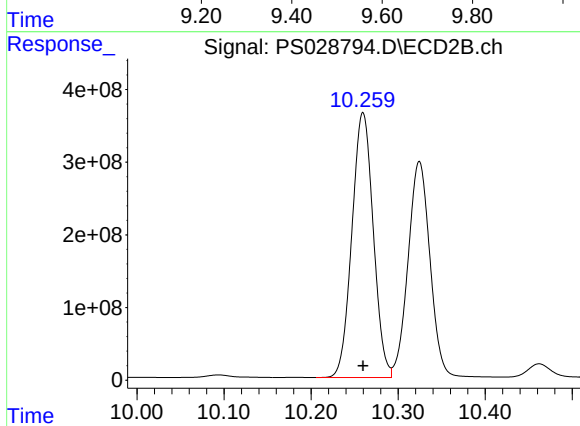
#11 2,4,5-TP (SILVEX)

R.T.: 9.841 min
Delta R.T.: 0.000 min
Response: 6432782294
Conc: 716.07 ng/ml



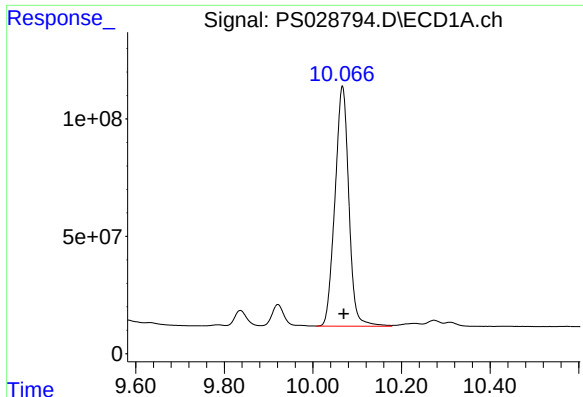
#12 2,4,5-T

R.T.: 9.496 min
Delta R.T.: -0.001 min
Response: 11943987009
Conc: 734.15 ng/ml



#12 2,4,5-T

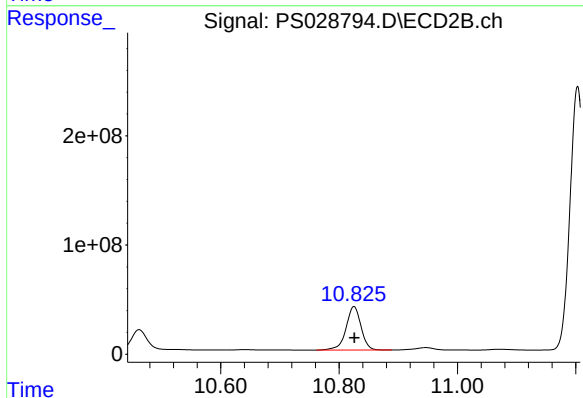
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 6212493372
Conc: 713.33 ng/ml



#13 2,4-DB

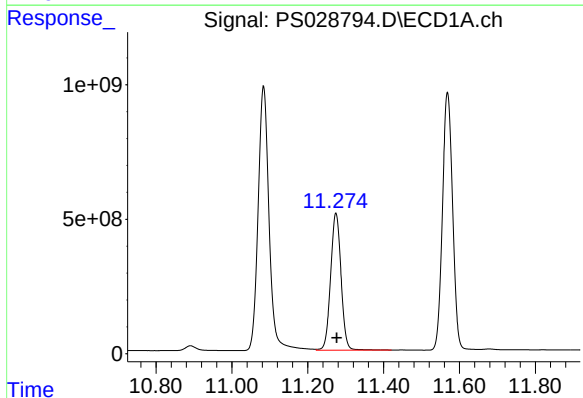
R.T.: 10.067 min
Delta R.T.: -0.003 min
Response: 2219551922
Conc: 711.03 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



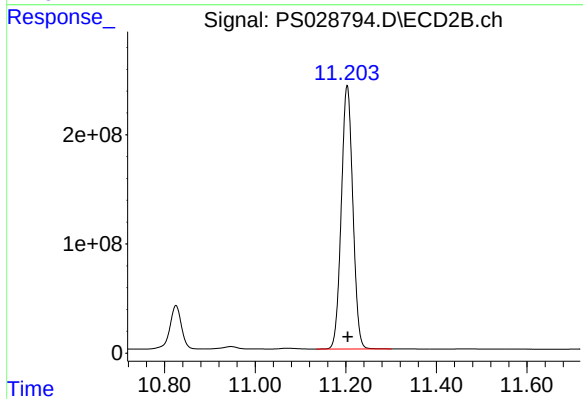
#13 2,4-DB

R.T.: 10.825 min
Delta R.T.: 0.000 min
Response: 699823434
Conc: 720.65 ng/ml



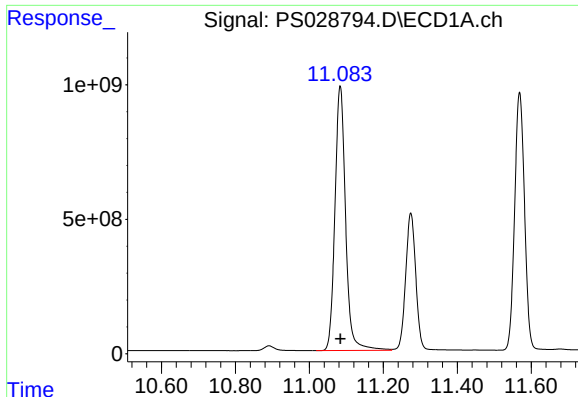
#14 DINOSEB

R.T.: 11.274 min
Delta R.T.: -0.002 min
Response: 9697837092
Conc: 721.47 ng/ml



#14 DINOSEB

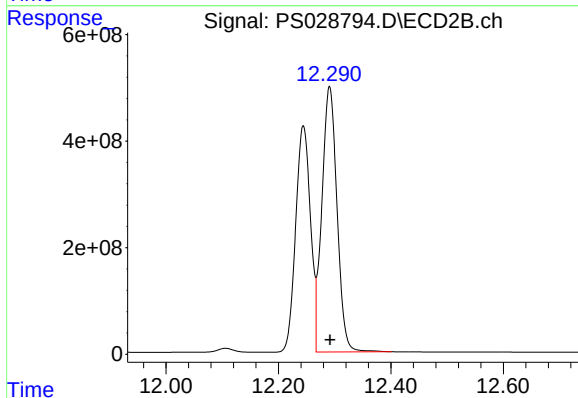
R.T.: 11.203 min
Delta R.T.: 0.000 min
Response: 4258299043
Conc: 691.38 ng/ml



#15 Picloram

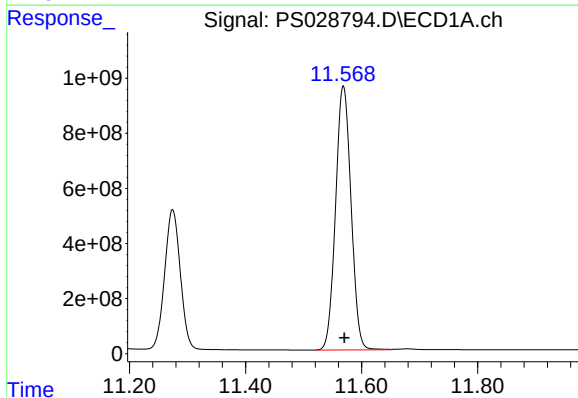
R.T.: 11.083 min
Delta R.T.: 0.000 min
Response: 19703206996
Conc: 734.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



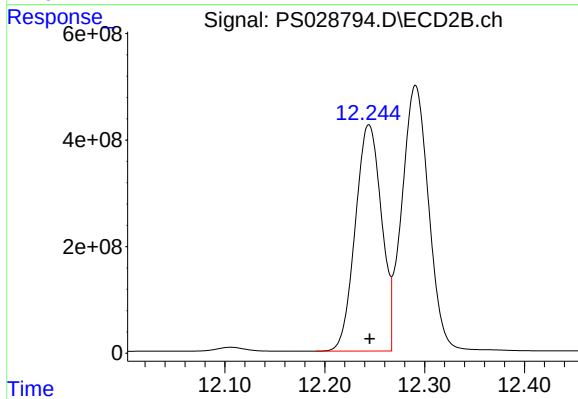
#15 Picloram

R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 9308879226
Conc: 725.05 ng/ml



#16 DCPA

R.T.: 11.569 min
Delta R.T.: -0.002 min
Response: 17761832699
Conc: 738.51 ng/ml



#16 DCPA

R.T.: 12.244 min
Delta R.T.: 0.000 min
Response: 7772573941
Conc: 723.40 ng/ml



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/23/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 16:34 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.40	7.40	7.30	7.50	0.01
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
Dalapon	2.62	2.62	2.52	2.72	0.00
DICHLORPROP	8.10	8.10	8.00	8.20	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01
2,4,5-T	9.50	9.50	9.40	9.60	0.01
2,4-DB	10.07	10.07	9.97	10.17	0.01
Dinoseb	11.27	11.28	11.18	11.38	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/23/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 16:34 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.90	7.90	7.80	8.00	0.00
2,4-DCAA	7.70	7.70	7.60	7.80	0.00
Dalapon	2.68	2.67	2.57	2.77	-0.01
DICHLORPROP	8.61	8.61	8.51	8.71	0.00
2,4-D	8.94	8.94	8.84	9.04	0.00
2,4,5-TP(Silvex)	9.84	9.84	9.74	9.94	0.00
2,4,5-T	10.26	10.26	10.16	10.36	0.00
2,4-DB	10.82	10.83	10.73	10.93	0.01
Dinoseb	11.20	11.20	11.10	11.30	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL02 Date Analyzed: 12/23/2024

Lab Sample No.: HSTDCCC750 Data File : PS028800.D Time Analyzed: 16:34

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.495	9.397	9.597	746.360	712.500	4.8
2,4,5-TP(Silvex)	9.204	9.106	9.306	749.460	712.500	5.2
2,4-D	8.329	8.232	8.432	732.400	705.000	3.9
2,4-DB	10.065	9.969	10.169	724.540	712.500	1.7
2,4-DCAA	7.208	7.110	7.310	784.350	750.000	4.6
Dalapon	2.620	2.520	2.720	717.130	682.500	5.1
DICAMBA	7.395	7.297	7.497	744.950	705.000	5.7
DICHLORPROP	8.100	8.002	8.202	732.170	705.000	3.9
Dinoseb	11.273	11.176	11.376	736.450	705.000	4.5



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL02 Date Analyzed: 12/23/2024

Lab Sample No.: HSTDCCC750 Data File : PS028800.D Time Analyzed: 16:34

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.259	10.160	10.360	716.190	712.500	0.5
2,4,5-TP(Silvex)	9.841	9.742	9.942	719.750	712.500	1.0
2,4-D	8.939	8.840	9.040	709.650	705.000	0.7
2,4-DB	10.824	10.726	10.926	725.030	712.500	1.8
2,4-DCAA	7.699	7.600	7.800	749.440	750.000	-0.1
Dalapon	2.676	2.574	2.774	681.460	682.500	-0.2
DICAMBA	7.896	7.798	7.998	719.320	705.000	2.0
DICHLORPROP	8.610	8.512	8.712	712.290	705.000	1.0
Dinoseb	11.203	11.104	11.304	701.160	705.000	-0.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028800.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 16:34
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:26:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.208	7.699	1774.2E6	843.5E6	784.350	749.436
Target Compounds							
1) T	Dalapon	2.620	2.676	2019.9E6	1341.5E6	717.130	681.461
2) T	3,5-DICHL...	6.383	6.660	2404.4E6	1157.0E6	729.673	698.007
3) T	4-Nitroph...	7.007	7.227	1063.7E6	563.9E6	708.161	673.794
5) T	DICAMBA	7.395	7.896	7345.7E6	3949.0E6	744.951	719.316
6) T	MCPD	7.577	8.001	443.0E6	234.0E6	71.142	71.614
7) T	MCPA	7.726	8.244	647.0E6	325.1E6	73.818	70.173
8) T	DICHLORPROP	8.100	8.610	1942.6E6	982.7E6	732.171	712.285
9) T	2,4-D	8.329	8.939	2087.0E6	1024.1E6	732.401	709.652
10) T	Pentachlo...	8.627	9.464	29869.6E6	15781.6E6	764.573	723.968
11) T	2,4,5-TP ...	9.204	9.841	11773.5E6	6465.9E6	749.460	719.751
12) T	2,4,5-T	9.495	10.259	12142.7E6	6237.4E6	746.363	716.187
13) T	2,4-DB	10.065	10.824	2261.7E6	704.1E6	724.543	725.025
14) T	DINOSEB	11.273	11.203	9899.1E6	4318.5E6	736.446	701.156
15) T	Picloram	11.081	12.291	19790.3E6	9284.8E6	738.092	723.173
16) T	DCPA	11.567	12.244	17986.4E6	7802.9E6	747.844	726.221

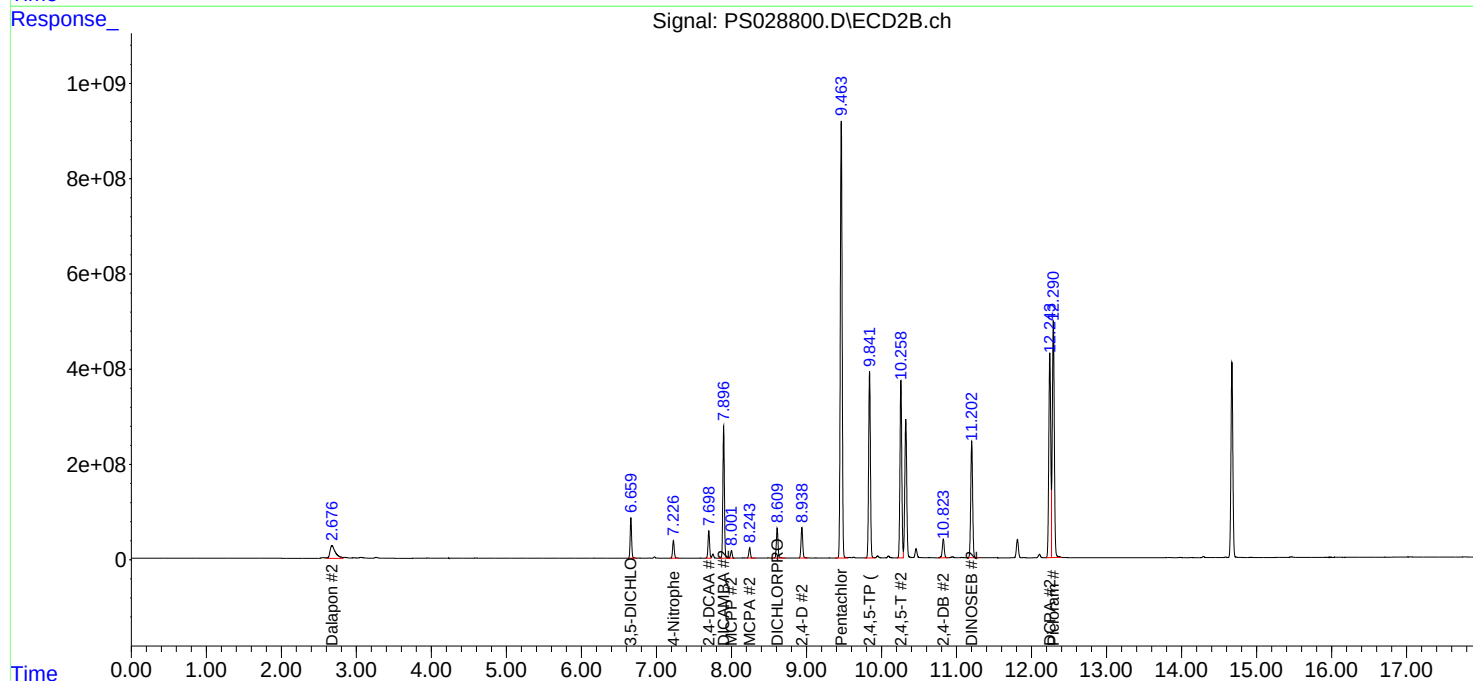
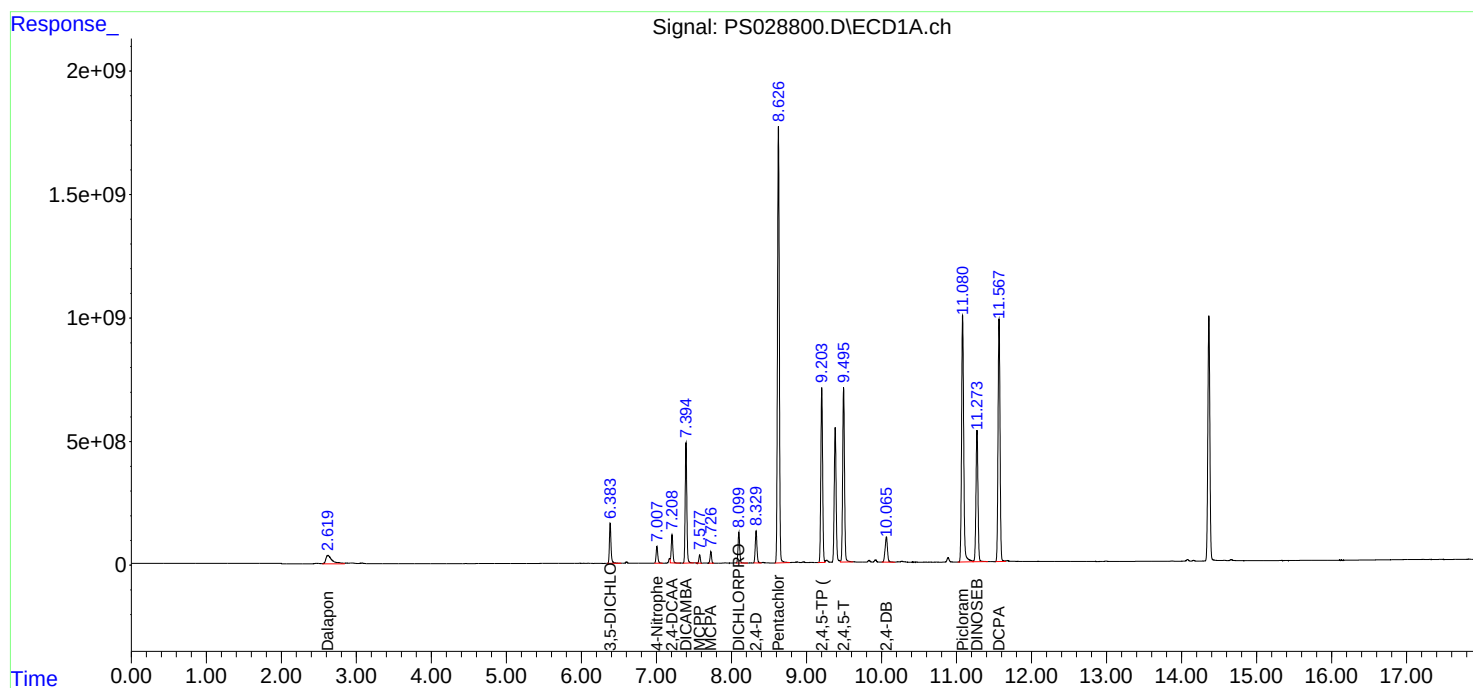
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

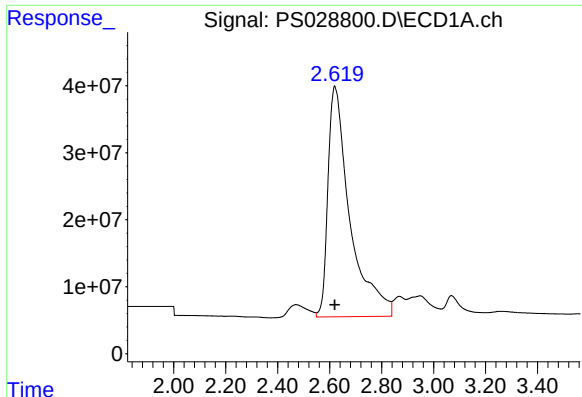
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028800.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 16:34
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:26:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

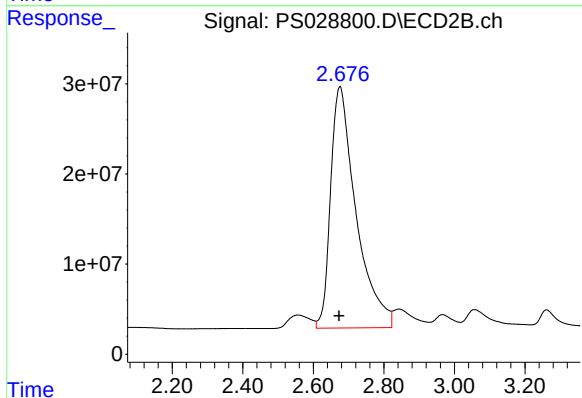




#1 Dalapon

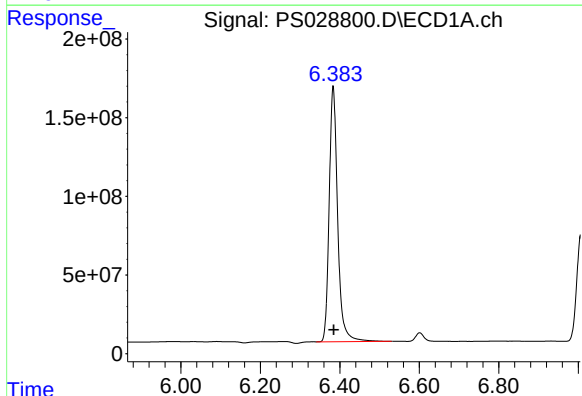
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 2019903303
Conc: 717.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



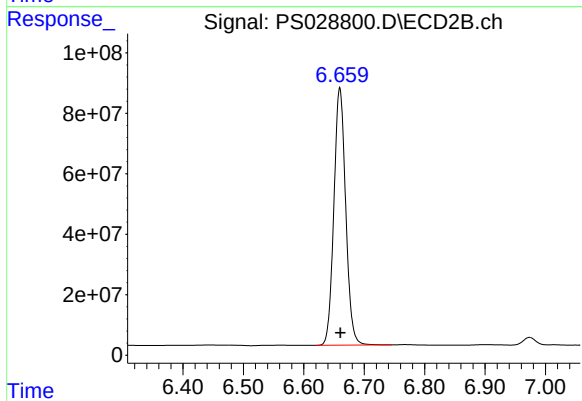
#1 Dalapon

R.T.: 2.676 min
Delta R.T.: 0.003 min
Response: 1341524973
Conc: 681.46 ng/ml



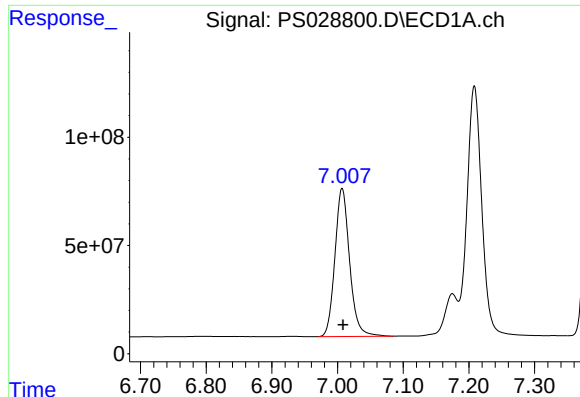
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 2404369102
Conc: 729.67 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

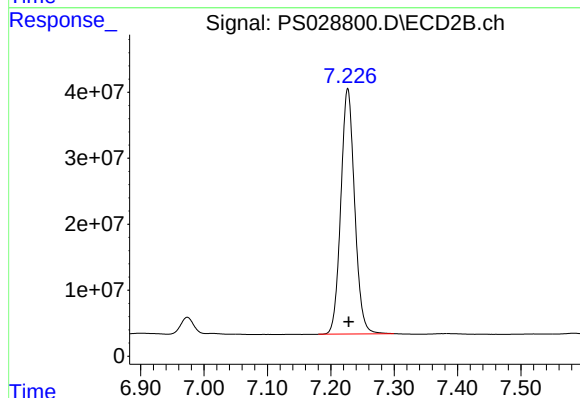
R.T.: 6.660 min
Delta R.T.: -0.001 min
Response: 1156997903
Conc: 698.01 ng/ml



#3 4-Nitrophenol

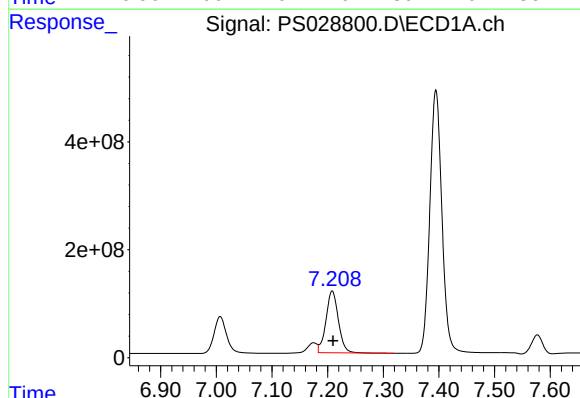
R.T.: 7.007 min
Delta R.T.: -0.002 min
Response: 1063698400
Conc: 708.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



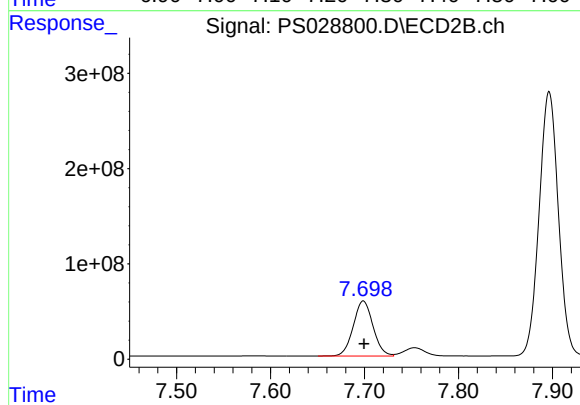
#3 4-Nitrophenol

R.T.: 7.227 min
Delta R.T.: -0.002 min
Response: 563893795
Conc: 673.79 ng/ml



#4 2,4-DCAA

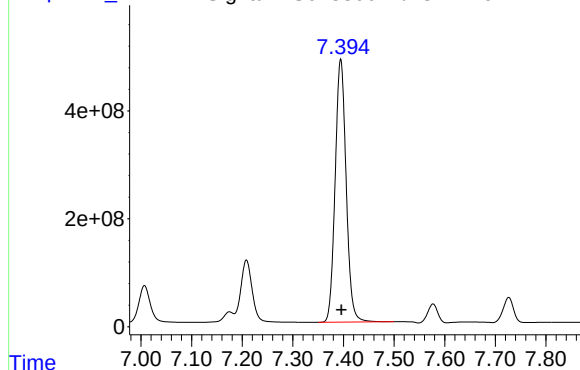
R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 1774219785
Conc: 784.35 ng/ml



#4 2,4-DCAA

R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 843518585
Conc: 749.44 ng/ml

Response_ Signal: PS028800.D\ECD1A.ch

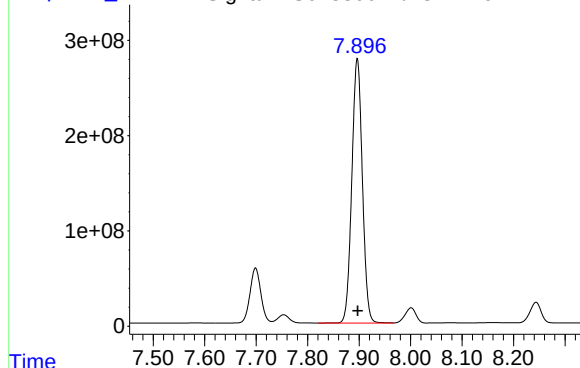


#5 DICAMBA

R.T.: 7.395 min
Delta R.T.: -0.001 min
Response: 7345697422
Conc: 744.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

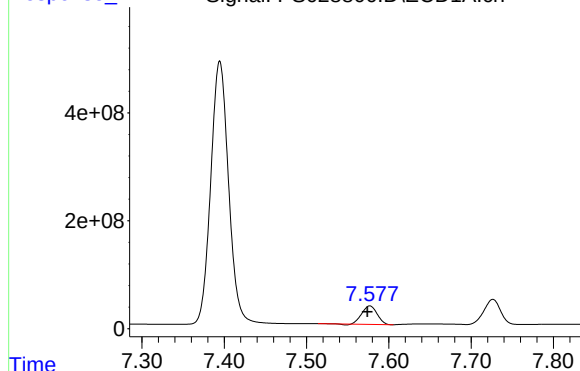
Response_ Signal: PS028800.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.896 min
Delta R.T.: 0.000 min
Response: 3948954810
Conc: 719.32 ng/ml

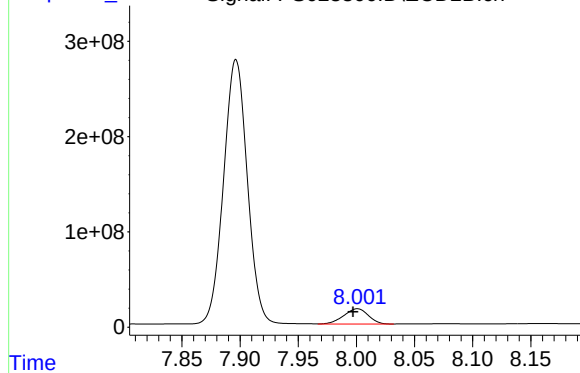
Response_ Signal: PS028800.D\ECD1A.ch



#6 MCP

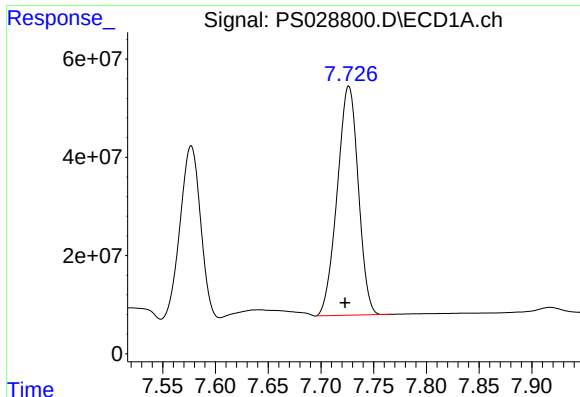
R.T.: 7.577 min
Delta R.T.: 0.003 min
Response: 443017251
Conc: 71.14 ug/ml

Response_ Signal: PS028800.D\ECD2B.ch



#6 MCP

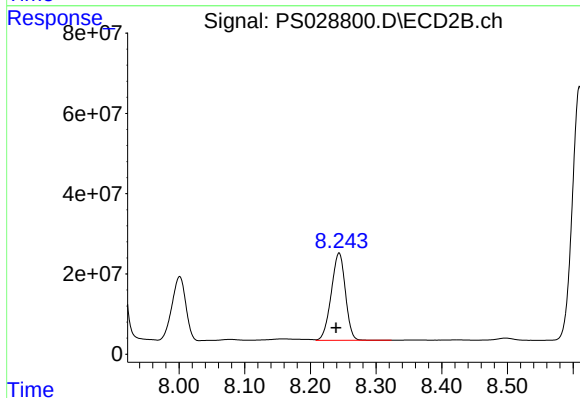
R.T.: 8.001 min
Delta R.T.: 0.004 min
Response: 234019136
Conc: 71.61 ug/ml



#7 MCPA

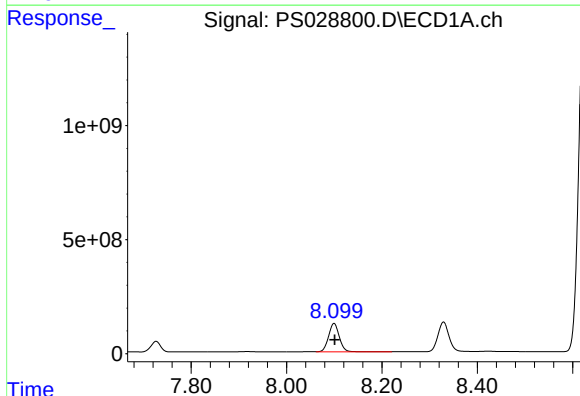
R.T.: 7.726 min
Delta R.T.: 0.004 min
Response: 647046121
Conc: 73.82 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



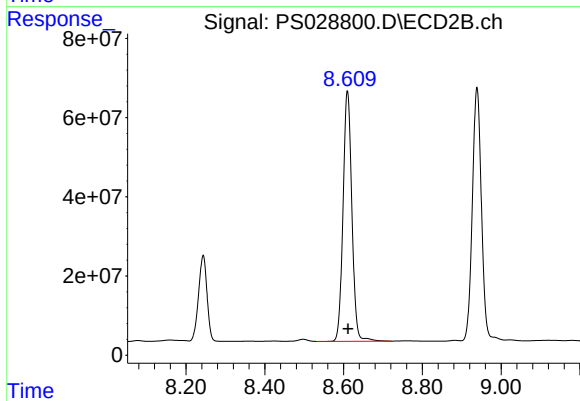
#7 MCPA

R.T.: 8.244 min
Delta R.T.: 0.004 min
Response: 325103849
Conc: 70.17 ug/ml



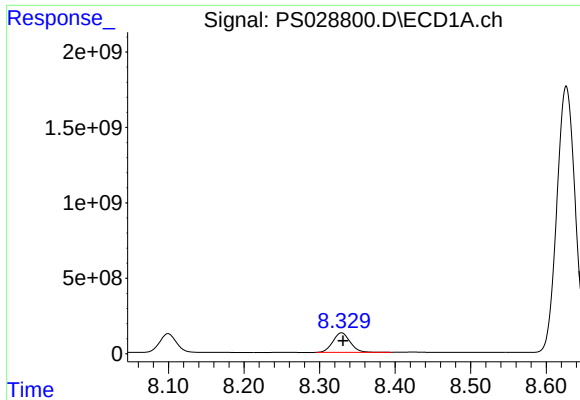
#8 DICHLORPROP

R.T.: 8.100 min
Delta R.T.: -0.002 min
Response: 1942579472
Conc: 732.17 ng/ml



#8 DICHLORPROP

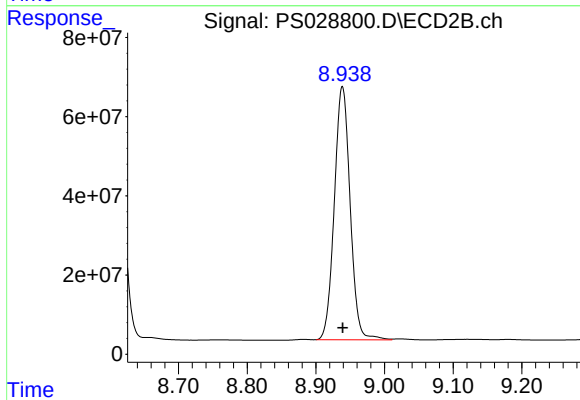
R.T.: 8.610 min
Delta R.T.: -0.001 min
Response: 982710629
Conc: 712.29 ng/ml



#9 2,4-D

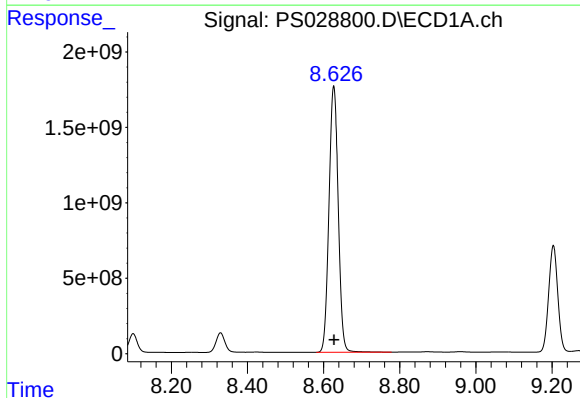
R.T.: 8.329 min
Delta R.T.: -0.002 min
Response: 2087000553
Conc: 732.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



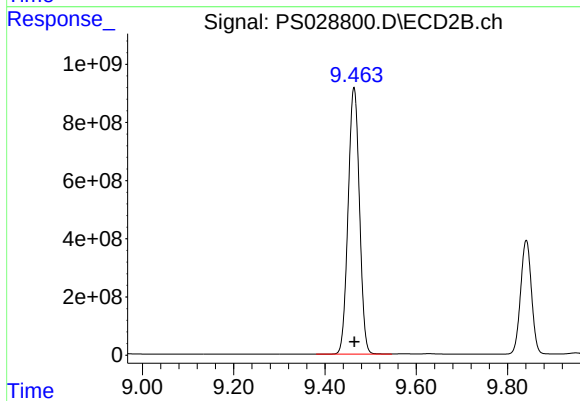
#9 2,4-D

R.T.: 8.939 min
Delta R.T.: 0.000 min
Response: 1024131600
Conc: 709.65 ng/ml



#10 Pentachlorophenol

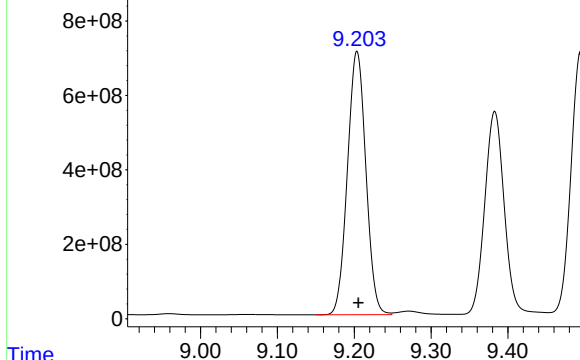
R.T.: 8.627 min
Delta R.T.: -0.002 min
Response: 29869583012
Conc: 764.57 ng/ml



#10 Pentachlorophenol

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 15781583964
Conc: 723.97 ng/ml

Response_ Signal: PS028800.D\ECD1A.ch

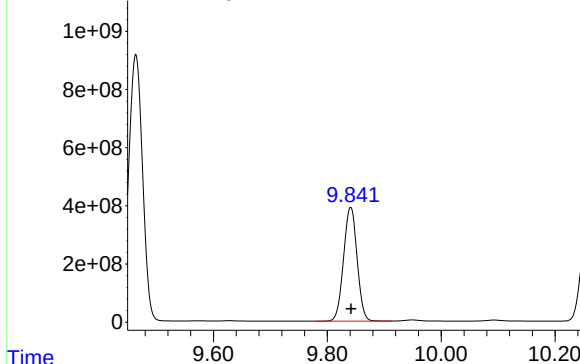


#11 2,4,5-TP (SILVEX)

R.T.: 9.204 min
Delta R.T.: -0.002 min
Response: 11773512655
Conc: 749.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

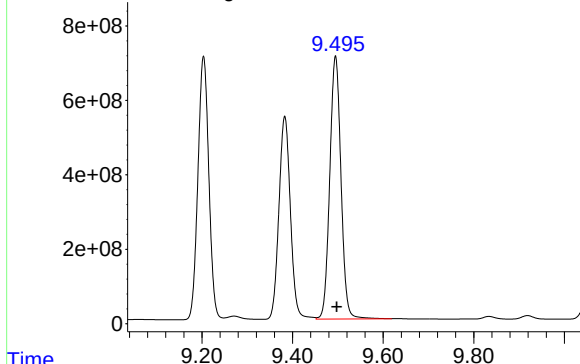
Time Response_ Signal: PS028800.D\ECD2B.ch



#11 2,4,5-TP (SILVEX)

R.T.: 9.841 min
Delta R.T.: 0.000 min
Response: 6465892376
Conc: 719.75 ng/ml

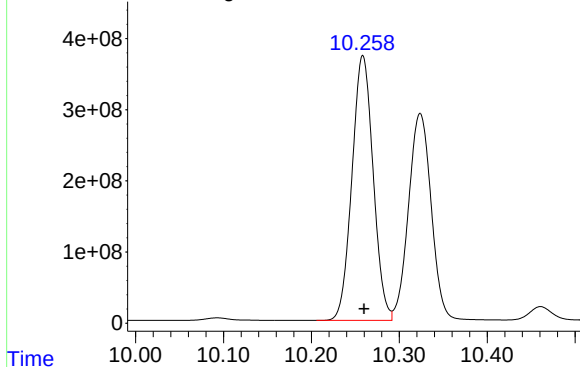
Time Response_ Signal: PS028800.D\ECD1A.ch



#12 2,4,5-T

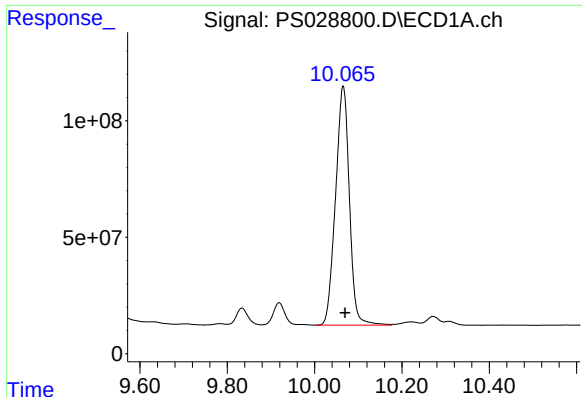
R.T.: 9.495 min
Delta R.T.: -0.003 min
Response: 12142721281
Conc: 746.36 ng/ml

Time Response_ Signal: PS028800.D\ECD2B.ch



#12 2,4,5-T

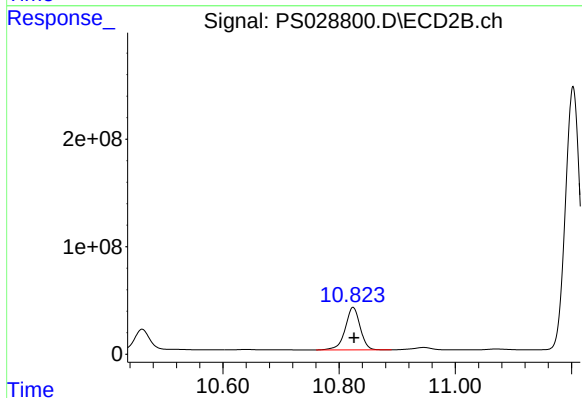
R.T.: 10.259 min
Delta R.T.: -0.001 min
Response: 6237404444
Conc: 716.19 ng/ml



#13 2,4-DB

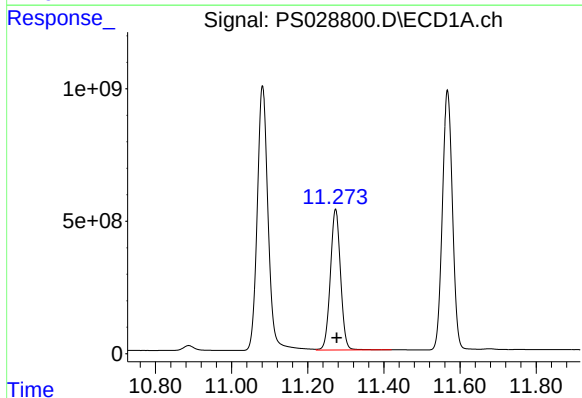
R.T.: 10.065 min
Delta R.T.: -0.004 min
Response: 2261733509
Conc: 724.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



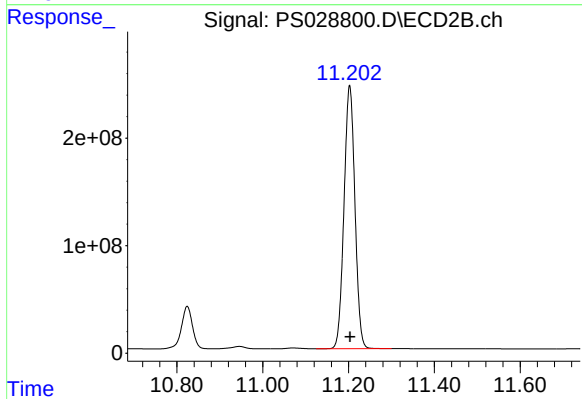
#13 2,4-DB

R.T.: 10.824 min
Delta R.T.: -0.002 min
Response: 704070057
Conc: 725.03 ng/ml



#14 DINOSEB

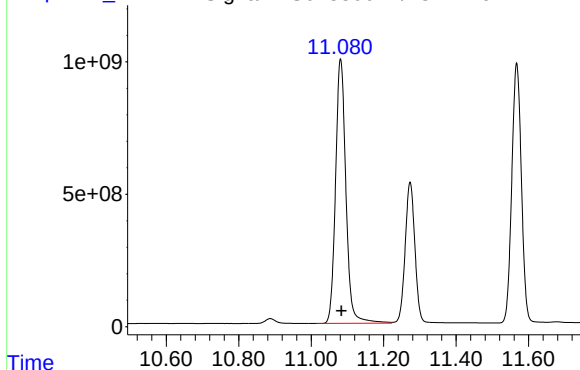
R.T.: 11.273 min
Delta R.T.: -0.003 min
Response: 9899103153
Conc: 736.45 ng/ml



#14 DINOSEB

R.T.: 11.203 min
Delta R.T.: -0.001 min
Response: 4318519575
Conc: 701.16 ng/ml

Response_ Signal: PS028800.D\ECD1A.ch

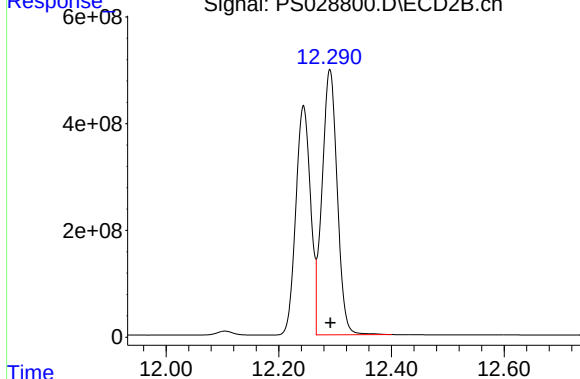


#15 Picloram

R.T.: 11.081 min
Delta R.T.: -0.003 min
Response: 19790293254
Conc: 738.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

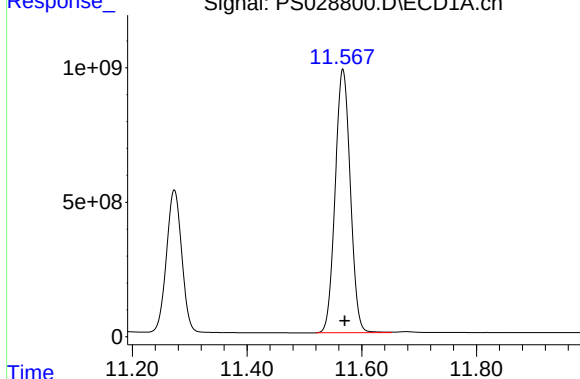
Time Response_ Signal: PS028800.D\ECD2B.ch



#15 Picloram

R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 9284829562
Conc: 723.17 ng/ml

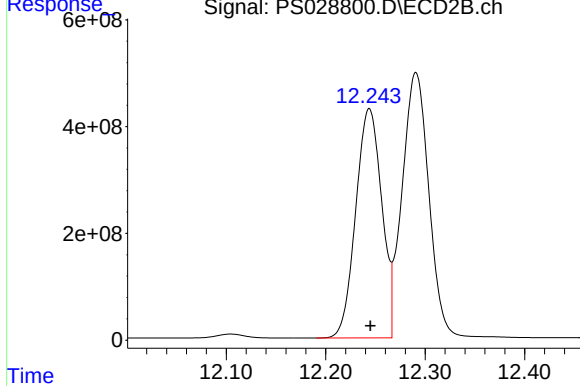
Time Response_ Signal: PS028800.D\ECD1A.ch



#16 DCPA

R.T.: 11.567 min
Delta R.T.: -0.003 min
Response: 17986434481
Conc: 747.84 ng/ml

Time Response_ Signal: PS028800.D\ECD2B.ch



#16 DCPA

R.T.: 12.244 min
Delta R.T.: -0.001 min
Response: 7802942359
Conc: 726.22 ng/ml



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/23/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 20:57 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.39	7.40	7.30	7.50	0.01
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
Dalapon	2.62	2.62	2.52	2.72	0.00
DICHLORPROP	8.10	8.10	8.00	8.20	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01
2,4,5-T	9.49	9.50	9.40	9.60	0.01
2,4-DB	10.06	10.07	9.97	10.17	0.01
Dinoseb	11.27	11.28	11.18	11.38	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/23/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 20:57 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.89	7.90	7.80	8.00	0.01
2,4-DCAA	7.70	7.70	7.60	7.80	0.00
Dalapon	2.68	2.67	2.57	2.77	0.00
DICHLORPROP	8.61	8.61	8.51	8.71	0.00
2,4-D	8.94	8.94	8.84	9.04	0.00
2,4,5-TP(Silvex)	9.84	9.84	9.74	9.94	0.00
2,4,5-T	10.26	10.26	10.16	10.36	0.00
2,4-DB	10.82	10.83	10.73	10.93	0.01
Dinoseb	11.20	11.20	11.10	11.30	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL03 Date Analyzed: 12/23/2024

Lab Sample No.: HSTDCCC750 Data File : PS028811.D Time Analyzed: 20:57

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.492	9.397	9.597	764.390	712.500	7.3
2,4,5-TP(Silvex)	9.201	9.106	9.306	767.440	712.500	7.7
2,4-D	8.326	8.232	8.432	733.770	705.000	4.1
2,4-DB	10.063	9.969	10.169	741.330	712.500	4.0
2,4-DCAA	7.206	7.110	7.310	783.300	750.000	4.4
Dalapon	2.621	2.520	2.720	733.750	682.500	7.5
DICAMBA	7.392	7.297	7.497	761.470	705.000	8.0
DICHLORPROP	8.097	8.002	8.202	749.570	705.000	6.3
Dinoseb	11.270	11.176	11.376	757.100	705.000	7.4



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL03 Date Analyzed: 12/23/2024

Lab Sample No.: HSTDCCC750 Data File : PS028811.D Time Analyzed: 20:57

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.255	10.160	10.360	728.020	712.500	2.2
2,4,5-TP(Silvex)	9.837	9.742	9.942	731.260	712.500	2.6
2,4-D	8.936	8.840	9.040	718.240	705.000	1.9
2,4-DB	10.820	10.726	10.926	737.840	712.500	3.6
2,4-DCAA	7.696	7.600	7.800	759.590	750.000	1.3
Dalapon	2.675	2.574	2.774	692.920	682.500	1.5
DICAMBA	7.894	7.798	7.998	730.170	705.000	3.6
DICHLORPROP	8.607	8.512	8.712	722.900	705.000	2.5
Dinoseb	11.199	11.104	11.304	712.830	705.000	1.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028811.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 20:57
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 24 01:26:55 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.206	7.696	1771.8E6	855.0E6	783.301	759.594
Target Compounds							
1) T	Dalapon	2.621	2.675	2066.7E6	1364.1E6	733.748	692.922
2) T	3,5-DICHL...	6.382	6.658	2460.7E6	1174.7E6	746.765	708.698
3) T	4-Nitroph...	7.005	7.224	1086.7E6	573.8E6	723.493	685.580
5) T	DICAMBA	7.392	7.894	7508.6E6	4008.6E6	761.474	730.172
6) T	MCPD	7.575	7.998	450.3E6	237.2E6	72.315	72.596
7) T	MCPA	7.724	8.241	662.3E6	329.5E6	75.558	71.120
8) T	DICHLORPROP	8.097	8.607	1988.8E6	997.4E6	749.573	722.896
9) T	2,4-D	8.326	8.936	2090.9E6	1036.5E6	733.768	718.239
10) T	Pentachlo...	8.624	9.460	30536.0E6	16035.1E6	781.633	735.597
11) T	2,4,5-TP ...	9.201	9.837	12056.0E6	6569.3E6	767.441	731.256
12) T	2,4,5-T	9.492	10.255	12436.0E6	6340.4E6	764.388	728.016
13) T	2,4-DB	10.063	10.820	2314.1E6	716.5E6	741.327	737.838
14) T	DINOSEB	11.270	11.199	10176.7E6	4390.4E6	757.098	712.833
15) T	Picloram	11.078	12.285	20094.3E6	9367.7E6	749.430	729.629
16) T	DCPA	11.564	12.239	18408.9E6	7920.7E6	765.411	737.185

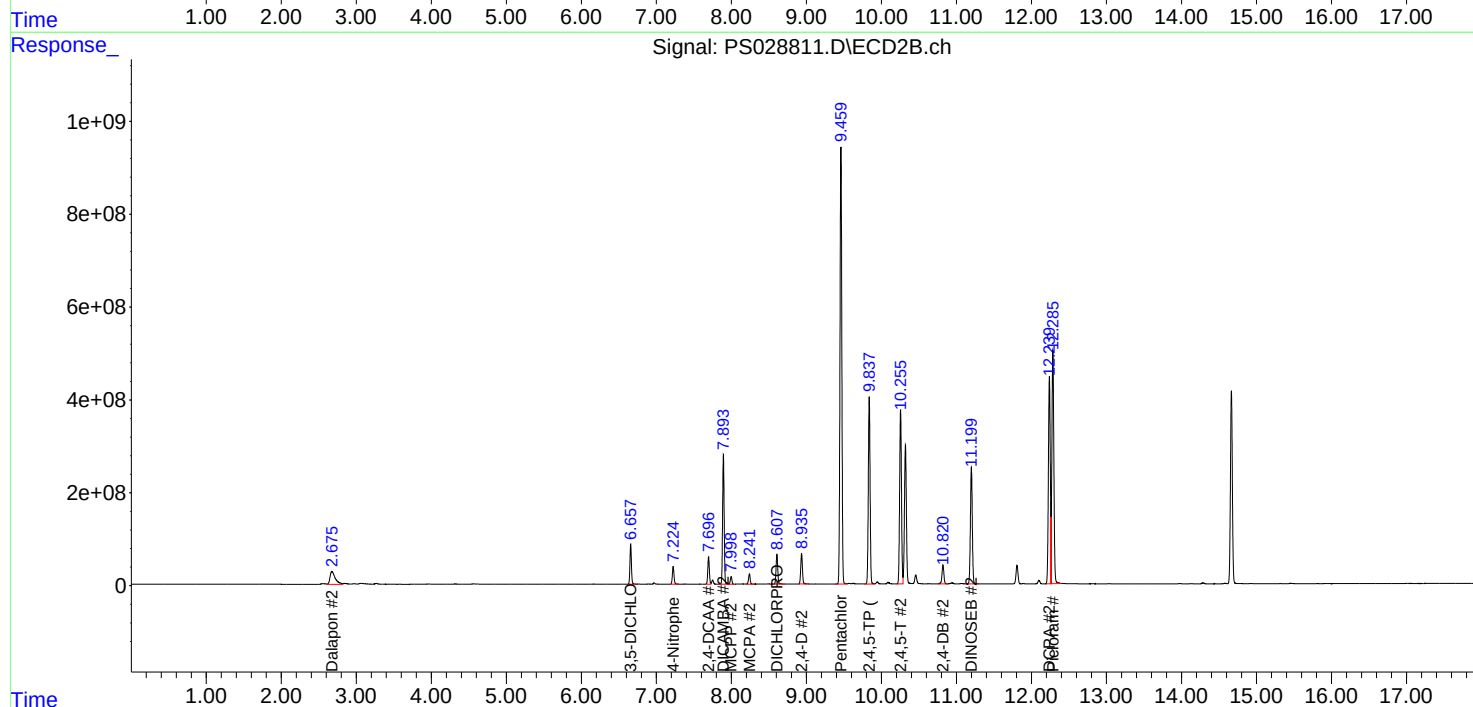
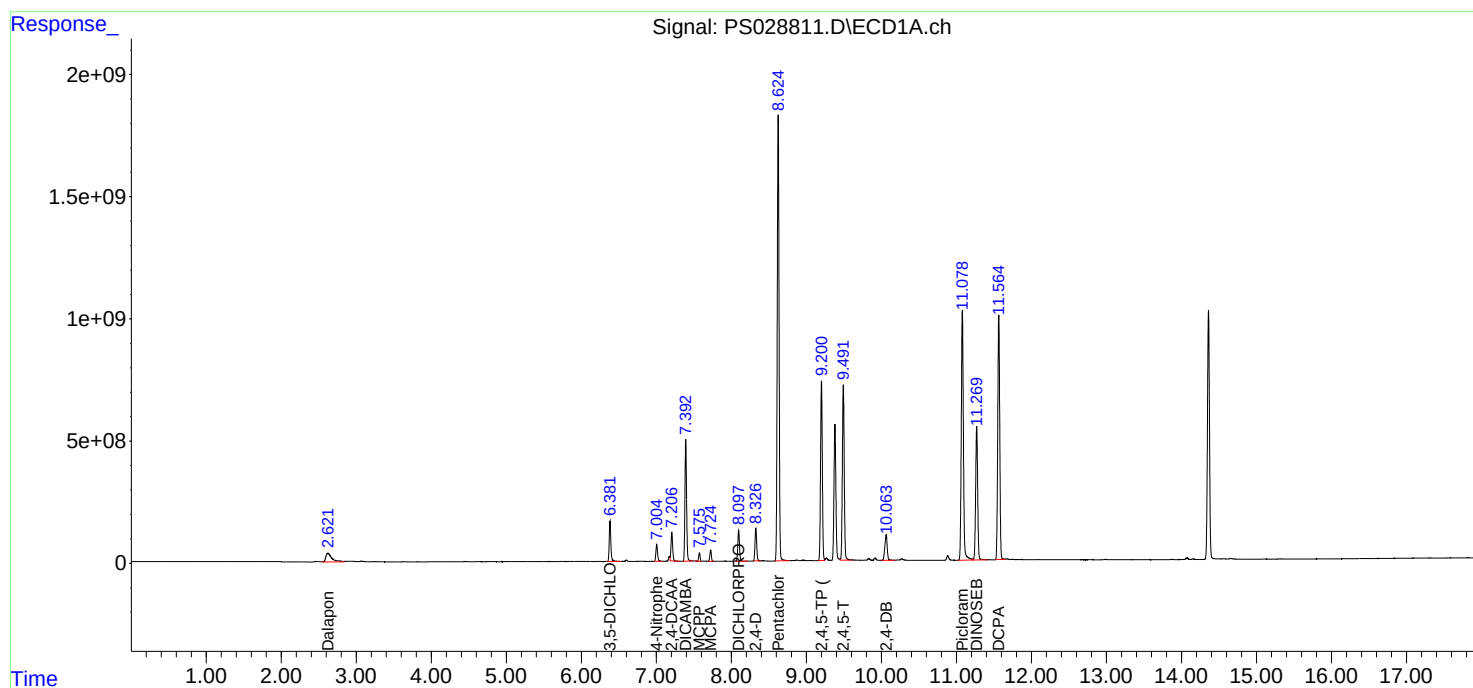
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

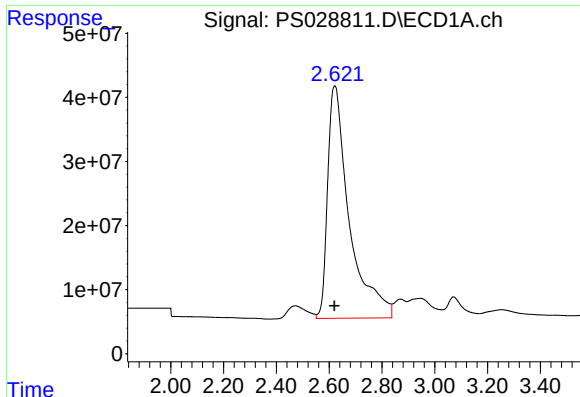
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028811.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 20:57
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:26:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

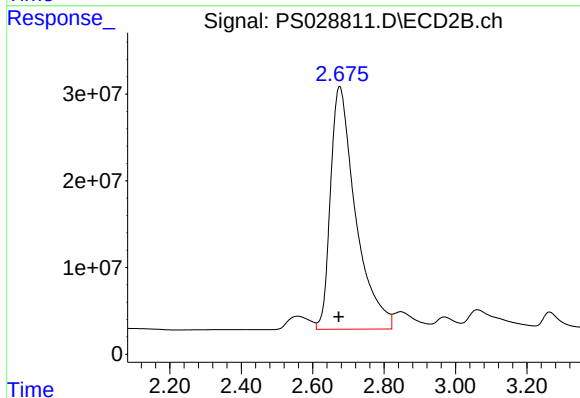




#1 Dalapon

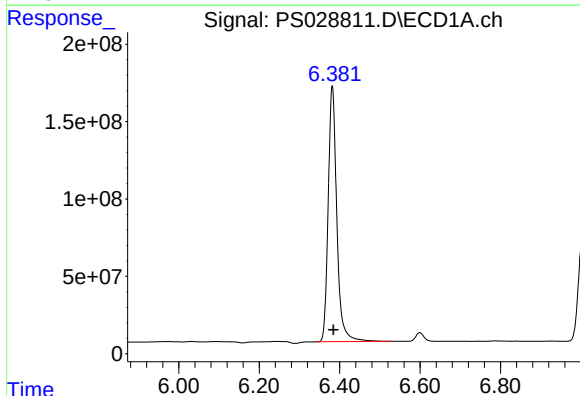
R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 2066712029
Conc: 733.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



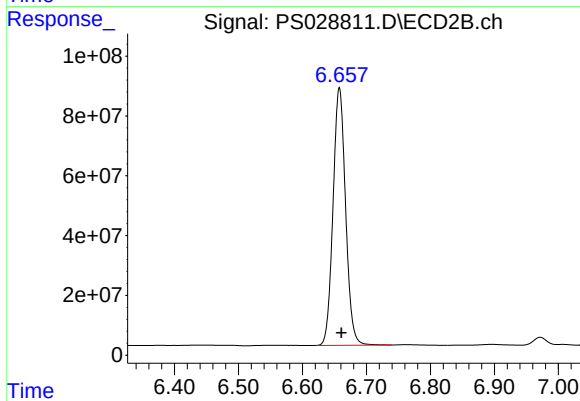
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.003 min
Response: 1364088161
Conc: 692.92 ng/ml



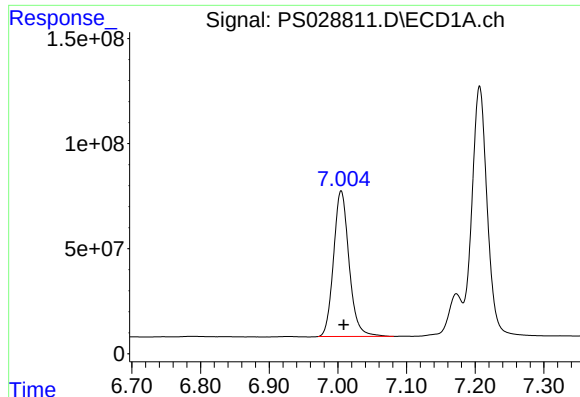
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.382 min
Delta R.T.: -0.003 min
Response: 2460692595
Conc: 746.77 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

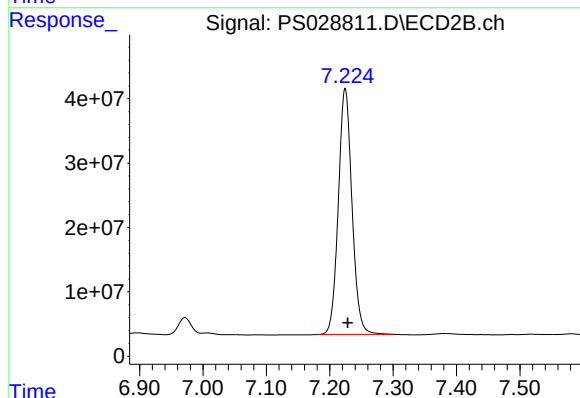
R.T.: 6.658 min
Delta R.T.: -0.003 min
Response: 1174719534
Conc: 708.70 ng/ml



#3 4-Nitrophenol

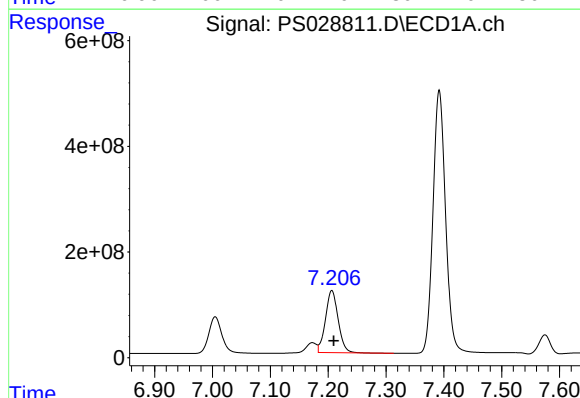
R.T.: 7.005 min
Delta R.T.: -0.004 min
Response: 1086728801
Conc: 723.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



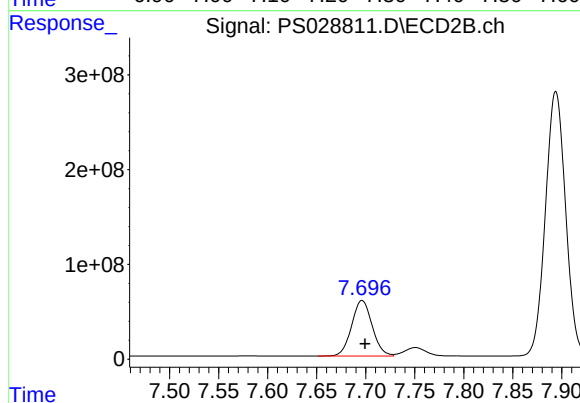
#3 4-Nitrophenol

R.T.: 7.224 min
Delta R.T.: -0.004 min
Response: 573756867
Conc: 685.58 ng/ml



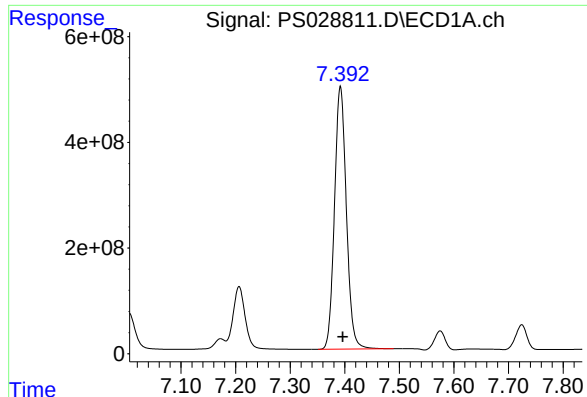
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.003 min
Response: 1771846438
Conc: 783.30 ng/ml



#4 2,4-DCAA

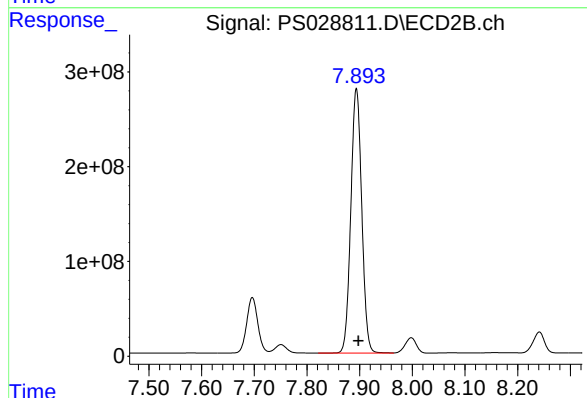
R.T.: 7.696 min
Delta R.T.: -0.003 min
Response: 854951978
Conc: 759.59 ng/ml



#5 DICAMBA

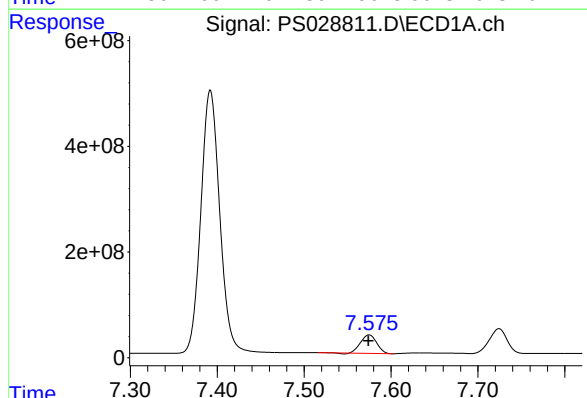
R.T.: 7.392 min
Delta R.T.: -0.004 min
Response: 7508621847
Conc: 761.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



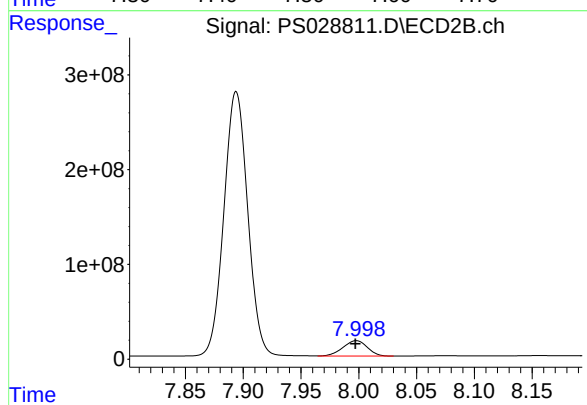
#5 DICAMBA

R.T.: 7.894 min
Delta R.T.: -0.003 min
Response: 4008551326
Conc: 730.17 ng/ml



#6 MCPP

R.T.: 7.575 min
Delta R.T.: 0.000 min
Response: 450320102
Conc: 72.31 ug/ml

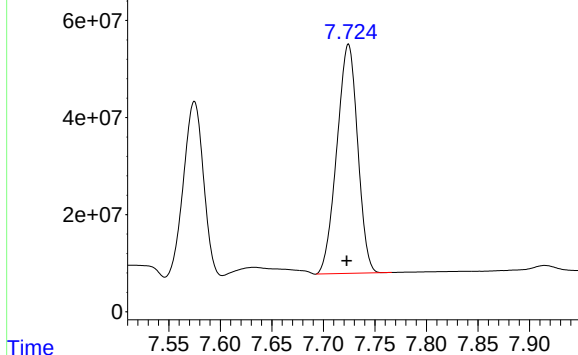


#6 MCPP

R.T.: 7.998 min
Delta R.T.: 0.000 min
Response: 237227834
Conc: 72.60 ug/ml

Response_ Signal: PS028811.D\ECD1A.ch

#7 MCPA

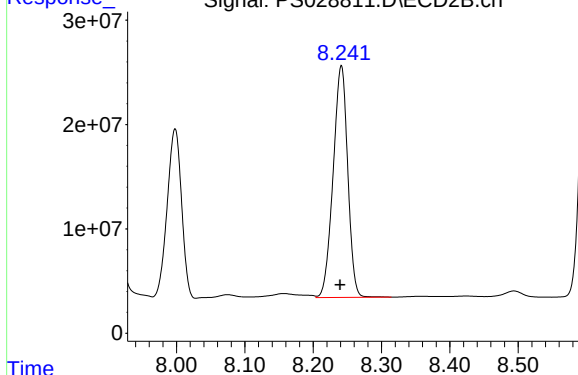


R.T.: 7.724 min
Delta R.T.: 0.002 min
Response: 662301939
Conc: 75.56 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Time Response_ Signal: PS028811.D\ECD2B.ch

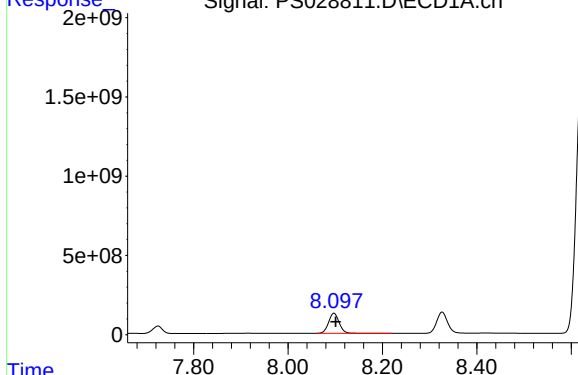
#7 MCPA



R.T.: 8.241 min
Delta R.T.: 0.002 min
Response: 329488756
Conc: 71.12 ug/ml

Time Response_ Signal: PS028811.D\ECD1A.ch

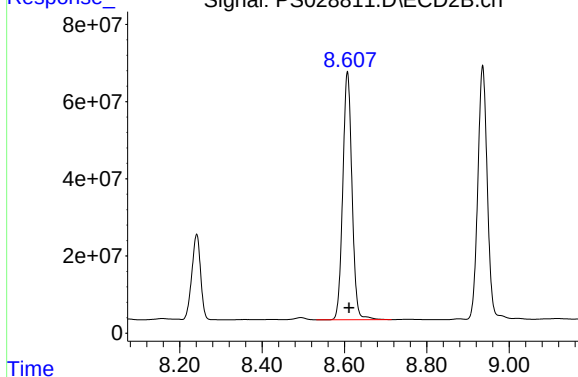
#8 DICHLORPROP



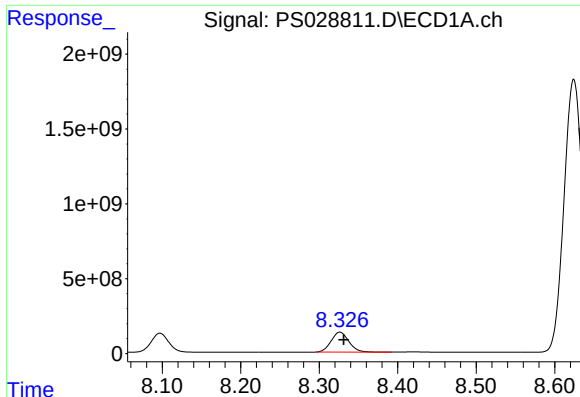
R.T.: 8.097 min
Delta R.T.: -0.004 min
Response: 1988750335
Conc: 749.57 ng/ml

Time Response_ Signal: PS028811.D\ECD2B.ch

#8 DICHLORPROP



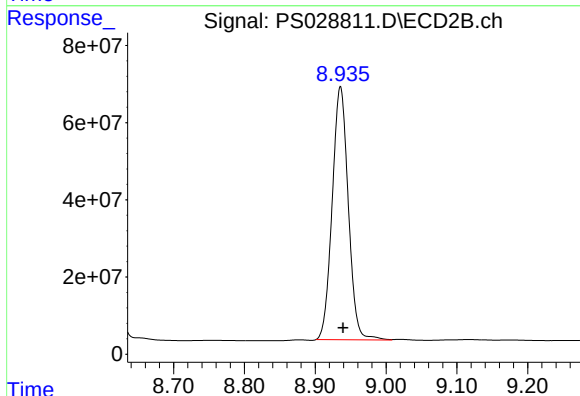
R.T.: 8.607 min
Delta R.T.: -0.004 min
Response: 997350248
Conc: 722.90 ng/ml



#9 2,4-D

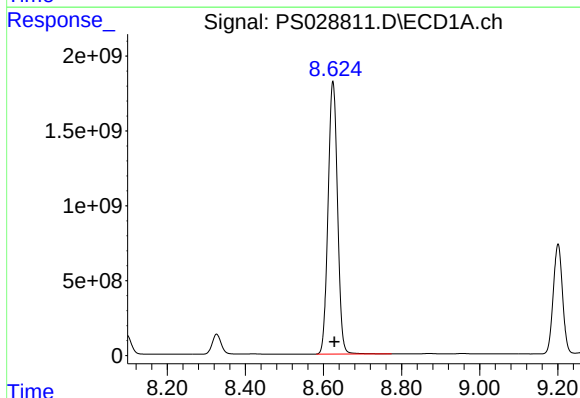
R.T.: 8.326 min
Delta R.T.: -0.005 min
Response: 2090895392
Conc: 733.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



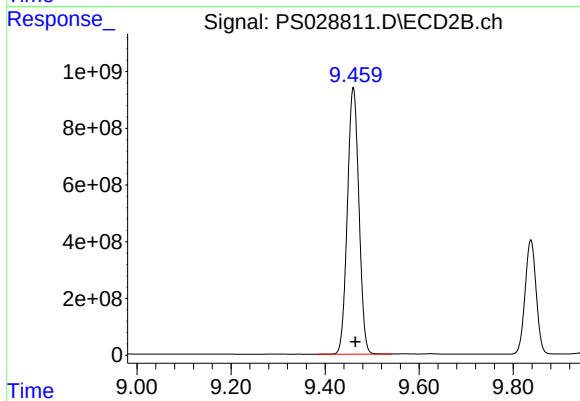
#9 2,4-D

R.T.: 8.936 min
Delta R.T.: -0.004 min
Response: 1036522968
Conc: 718.24 ng/ml



#10 Pentachlorophenol

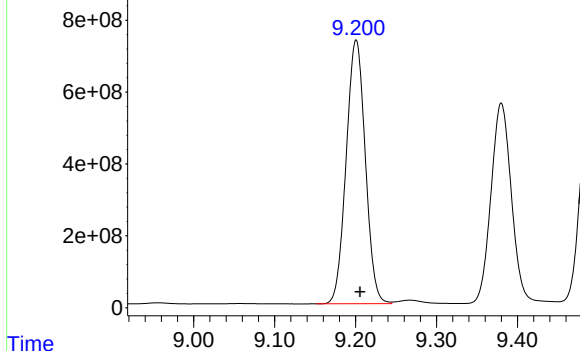
R.T.: 8.624 min
Delta R.T.: -0.004 min
Response: 30536044362
Conc: 781.63 ng/ml



#10 Pentachlorophenol

R.T.: 9.460 min
Delta R.T.: -0.004 min
Response: 16035067234
Conc: 735.60 ng/ml

Response_ Signal: PS028811.D\ECD1A.ch

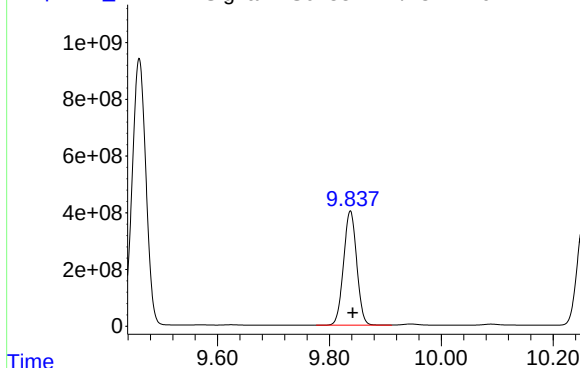


#11 2,4,5-TP (SILVEX)

R.T.: 9.201 min
Delta R.T.: -0.005 min
Response: 12055989292
Conc: 767.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

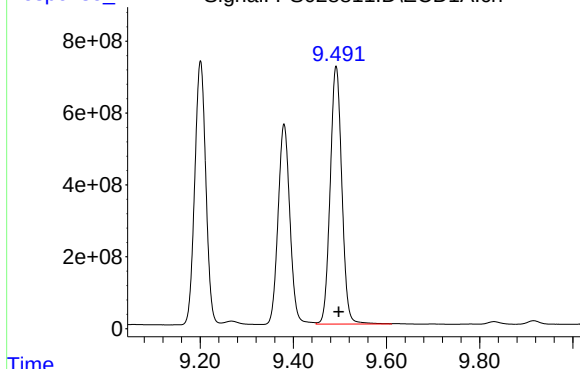
Time Response_ Signal: PS028811.D\ECD2B.ch



#11 2,4,5-TP (SILVEX)

R.T.: 9.837 min
Delta R.T.: -0.004 min
Response: 6569253014
Conc: 731.26 ng/ml

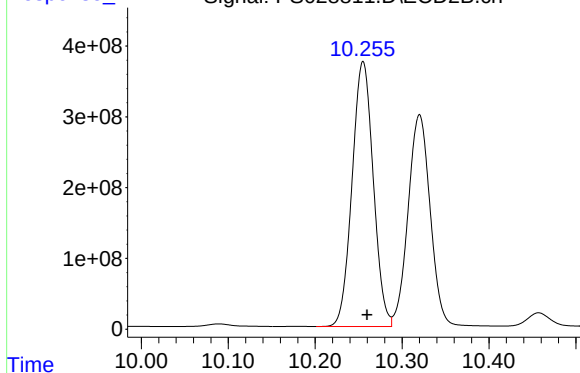
Time Response_ Signal: PS028811.D\ECD1A.ch



#12 2,4,5-T

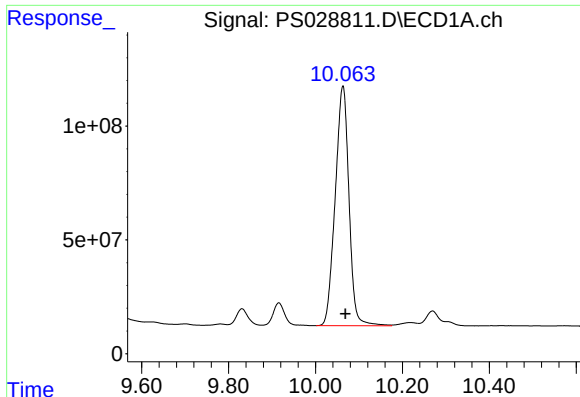
R.T.: 9.492 min
Delta R.T.: -0.006 min
Response: 12435975046
Conc: 764.39 ng/ml

Time Response_ Signal: PS028811.D\ECD2B.ch



#12 2,4,5-T

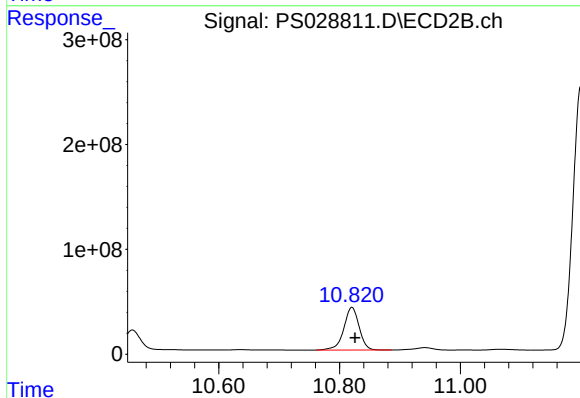
R.T.: 10.255 min
Delta R.T.: -0.005 min
Response: 6340426989
Conc: 728.02 ng/ml



#13 2,4-DB

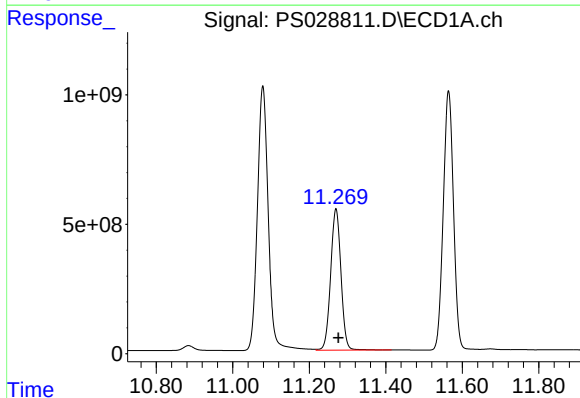
R.T.: 10.063 min
Delta R.T.: -0.006 min
Response: 2314125266
Conc: 741.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



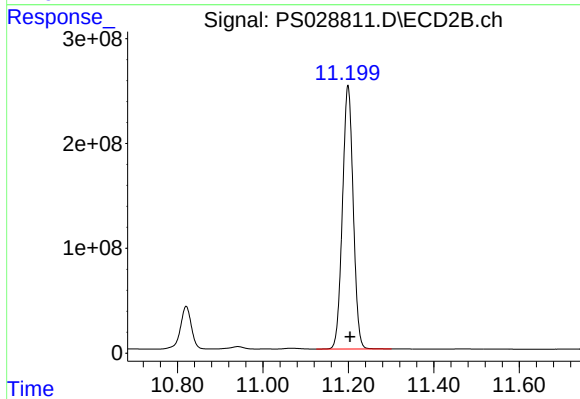
#13 2,4-DB

R.T.: 10.820 min
Delta R.T.: -0.005 min
Response: 716512694
Conc: 737.84 ng/ml



#14 DINOSEB

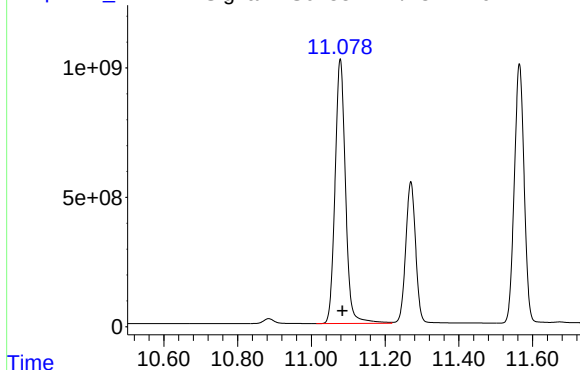
R.T.: 11.270 min
Delta R.T.: -0.006 min
Response: 10176699950
Conc: 757.10 ng/ml



#14 DINOSEB

R.T.: 11.199 min
Delta R.T.: -0.005 min
Response: 4390440248
Conc: 712.83 ng/ml

Response_ Signal: PS028811.D\ECD1A.ch

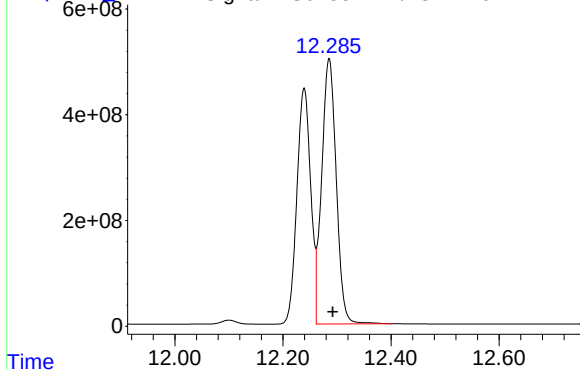


#15 Picloram

R.T.: 11.078 min
Delta R.T.: -0.006 min
Response: 20094288326
Conc: 749.43 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

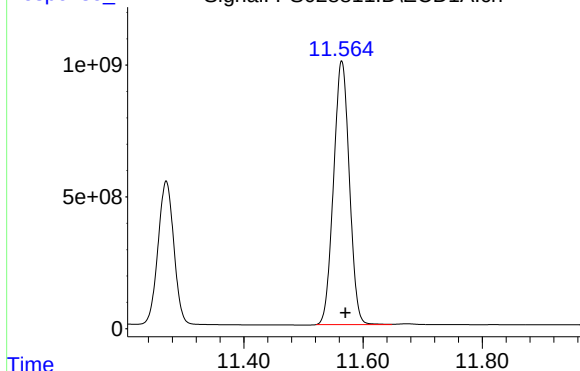
Time Response Signal: PS028811.D\ECD2B.ch



#15 Picloram

R.T.: 12.285 min
Delta R.T.: -0.006 min
Response: 9367712071
Conc: 729.63 ng/ml

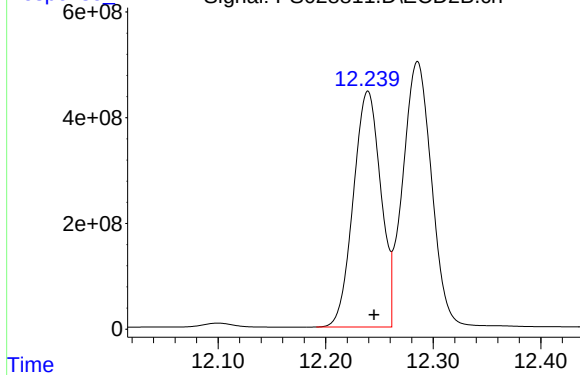
Time Response_ Signal: PS028811.D\ECD1A.ch



#16 DCPA

R.T.: 11.564 min
Delta R.T.: -0.006 min
Response: 18408924515
Conc: 765.41 ng/ml

Time Response Signal: PS028811.D\ECD2B.ch



#16 DCPA

R.T.: 12.239 min
Delta R.T.: -0.006 min
Response: 7920737975
Conc: 737.18 ng/ml



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/26/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 11:07 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.39	7.40	7.30	7.50	0.01
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
Dalapon	2.62	2.62	2.52	2.72	0.00
DICHLORPROP	8.10	8.10	8.00	8.20	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01
2,4,5-T	9.49	9.50	9.40	9.60	0.01
2,4-DB	10.06	10.07	9.97	10.17	0.01
Dinoseb	11.27	11.28	11.18	11.38	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/26/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 11:07 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.89	7.90	7.80	8.00	0.01
2,4-DCAA	7.70	7.70	7.60	7.80	0.00
Dalapon	2.68	2.67	2.57	2.77	-0.01
DICHLORPROP	8.61	8.61	8.51	8.71	0.00
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.84	9.84	9.74	9.94	0.00
2,4,5-T	10.25	10.26	10.16	10.36	0.01
2,4-DB	10.82	10.83	10.73	10.93	0.01
Dinoseb	11.20	11.20	11.10	11.30	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL04 Date Analyzed: 12/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028820.D Time Analyzed: 11:07

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.492	9.397	9.597	794.470	712.500	11.5
2,4,5-TP(Silvex)	9.200	9.106	9.306	803.120	712.500	12.7
2,4-D	8.326	8.232	8.432	766.560	705.000	8.7
2,4-DB	10.062	9.969	10.169	769.040	712.500	7.9
2,4-DCAA	7.207	7.110	7.310	816.550	750.000	8.9
Dalapon	2.622	2.520	2.720	774.990	682.500	13.6
DICAMBA	7.393	7.297	7.497	792.890	705.000	12.5
DICHLORPROP	8.098	8.002	8.202	775.840	705.000	10.0
Dinoseb	11.269	11.176	11.376	788.080	705.000	11.8



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL04 Date Analyzed: 12/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028820.D Time Analyzed: 11:07

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.253	10.160	10.360	723.860	712.500	1.6
2,4,5-TP(Silvex)	9.836	9.742	9.942	730.730	712.500	2.6
2,4-D	8.934	8.840	9.040	707.750	705.000	0.4
2,4-DB	10.819	10.726	10.926	730.050	712.500	2.5
2,4-DCAA	7.695	7.600	7.800	751.940	750.000	0.3
Dalapon	2.676	2.574	2.774	701.470	682.500	2.8
DICAMBA	7.893	7.798	7.998	723.730	705.000	2.7
DICHLORPROP	8.606	8.512	8.712	714.020	705.000	1.3
Dinoseb	11.197	11.104	11.304	713.420	705.000	1.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028820.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 11:07
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/27/2024

Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:41:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.207	7.695	1847.1E6	846.3E6	816.549	751.937
Target Compounds						
1) T Dalapon	2.622	2.676	2182.9E6	1380.9E6	774.990	701.474
2) T 3,5-DICHL...	6.382	6.658	2545.9E6	1160.3E6	772.609	699.994
3) T 4-Nitroph...	7.005	7.224	1136.6E6	571.9E6	756.701	683.418
5) T DICAMBA	7.393	7.893	7818.4E6	3973.2E6	792.892	723.730
6) T MCPP	7.575	7.997	493.7E6	235.2E6	79.282	71.985
7) T MCPA	7.724	8.240	671.4E6	328.7E6	76.594	70.945
8) T DICHLORPROP	8.098	8.606	2058.4E6	985.1E6	775.837	714.024
9) T 2,4-D	8.326	8.934	2184.3E6	1021.4E6	766.563	707.755
10) T Pentachlo...	8.625	9.459	31990.6E6	15961.0E6	818.864	732.197
11) T 2,4,5-TP ...	9.200	9.836	12616.5E6	6564.6E6	803.119	730.735
12) T 2,4,5-T	9.492	10.253	12925.3E6	6304.2E6	794.466	723.858
13) T 2,4-DB	10.062	10.819	2400.6E6	708.9E6	769.040	730.047
14) T DINOSEB	11.269	11.197	10593.2E6	4394.1E6	788.080	713.420
15) T Picloram	11.077	12.283	21004.7E6	9448.9E6	783.384	735.951
16) T DCPA	11.562	12.236	19085.6E6	7906.8E6	793.547m	735.890

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028820.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 11:07
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

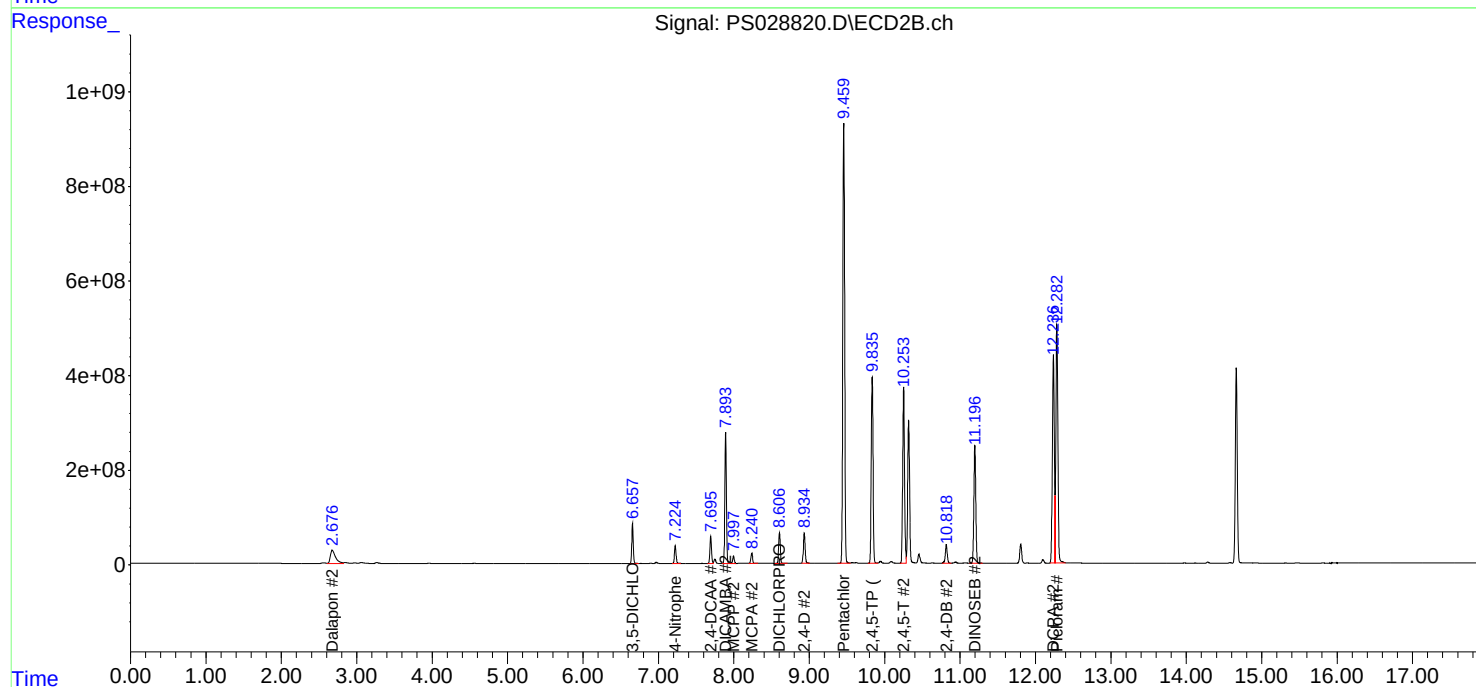
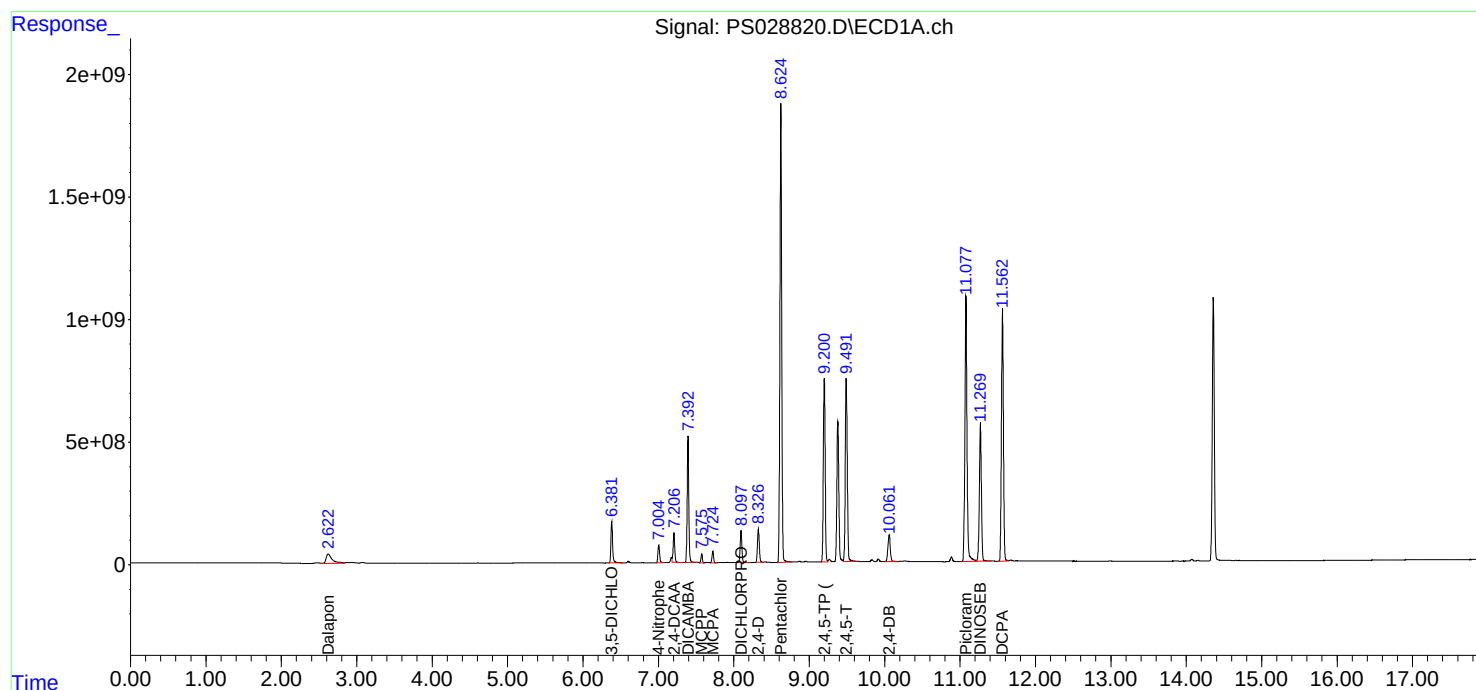
APPROVED

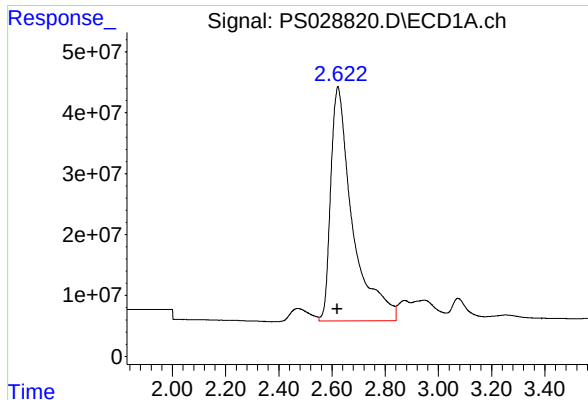
Reviewed By :Abdul Mirza 12/27/2024

Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:41:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#1 Dalapon

R.T.: 2.622 min
Delta R.T.: 0.002 min
Response: 2182877280
Conc: 774.99 ng/ml

Instrument :

ECD_S

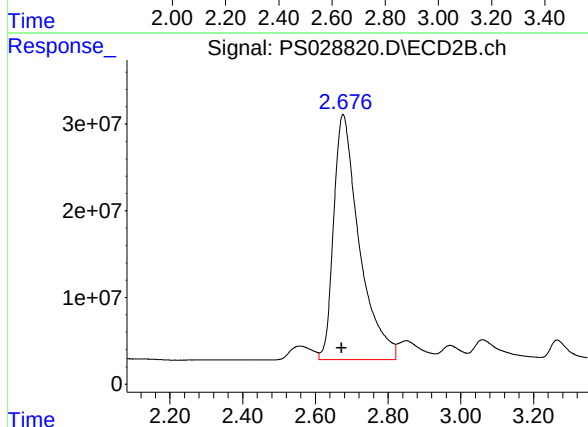
ClientSampleId :

HSTDCCC750

Manual Integrations

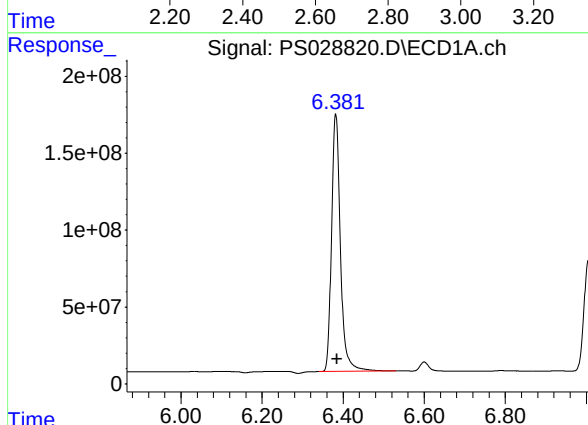
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



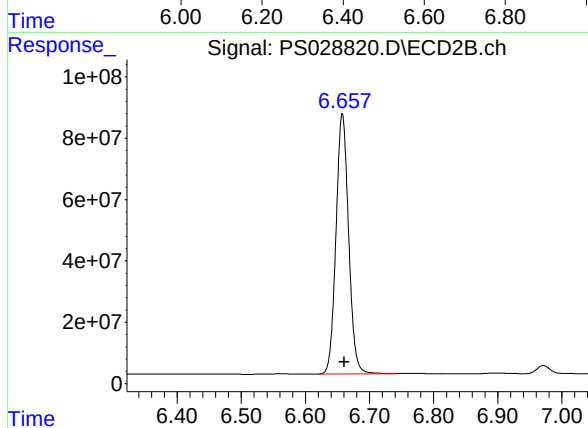
#1 Dalapon

R.T.: 2.676 min
Delta R.T.: 0.003 min
Response: 1380922873
Conc: 701.47 ng/ml



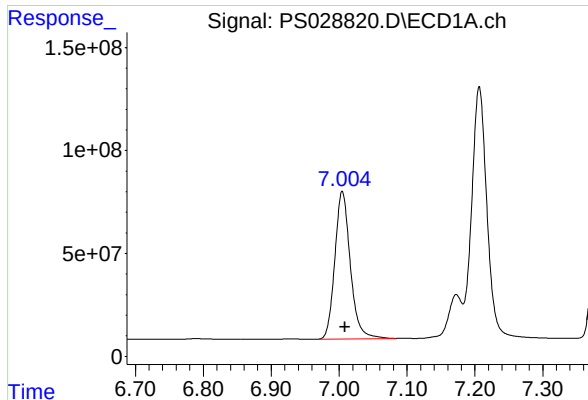
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.382 min
Delta R.T.: -0.003 min
Response: 2545850809
Conc: 772.61 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.658 min
Delta R.T.: -0.003 min
Response: 1160291664
Conc: 699.99 ng/ml



#3 4-Nitrophenol

R.T.: 7.005 min
Delta R.T.: -0.004 min
Response: 1136609389
Conc: 756.70 ng/ml

Instrument :

ECD_S

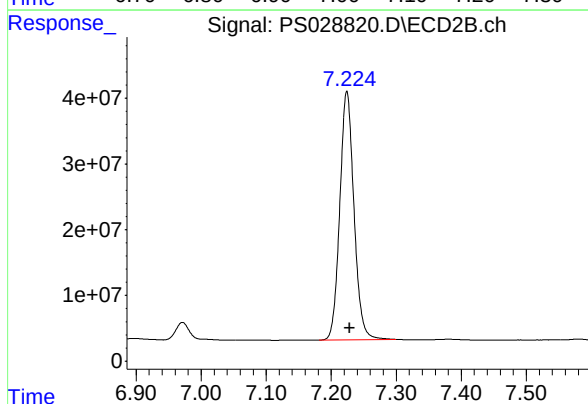
ClientSampleId :

HSTDCCC750

Manual Integrations

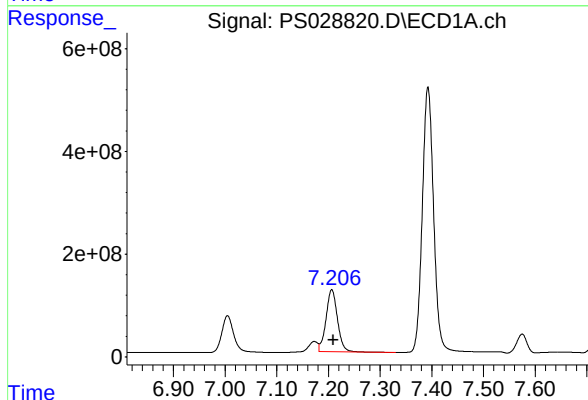
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Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



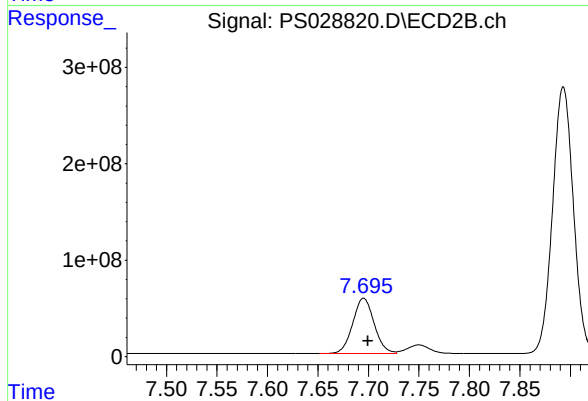
#3 4-Nitrophenol

R.T.: 7.224 min
Delta R.T.: -0.004 min
Response: 571947704
Conc: 683.42 ng/ml



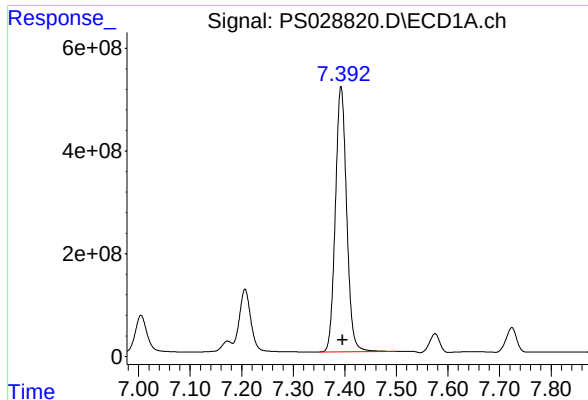
#4 2,4-DCAA

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 1847055797
Conc: 816.55 ng/ml



#4 2,4-DCAA

R.T.: 7.695 min
Delta R.T.: -0.004 min
Response: 846332840
Conc: 751.94 ng/ml



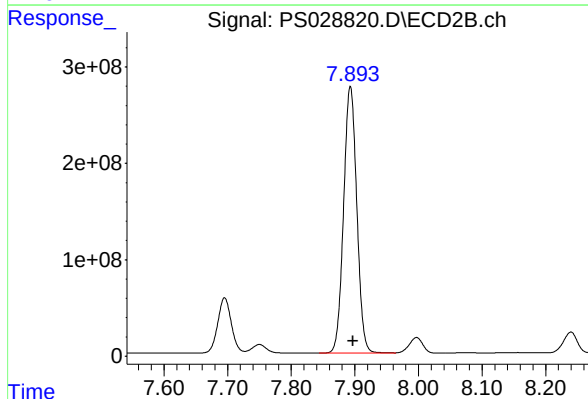
#5 DICAMBA

R.T.: 7.393 min
Delta R.T.: -0.003 min
Response: 7818429762
Conc: 792.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

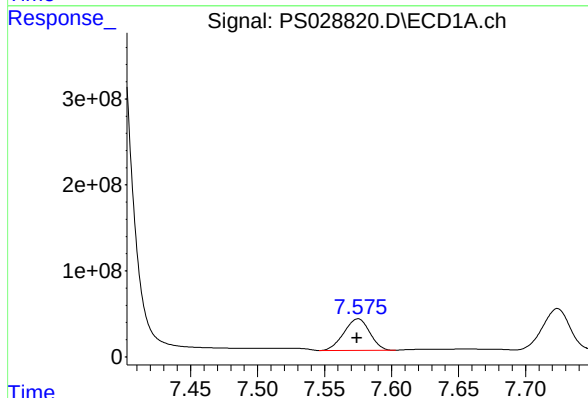
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



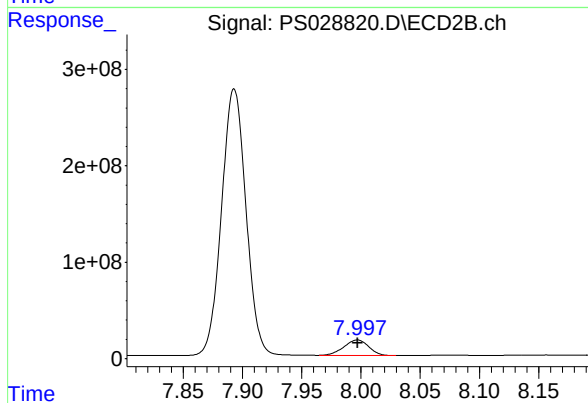
#5 DICAMBA

R.T.: 7.893 min
Delta R.T.: -0.004 min
Response: 3973182560
Conc: 723.73 ng/ml



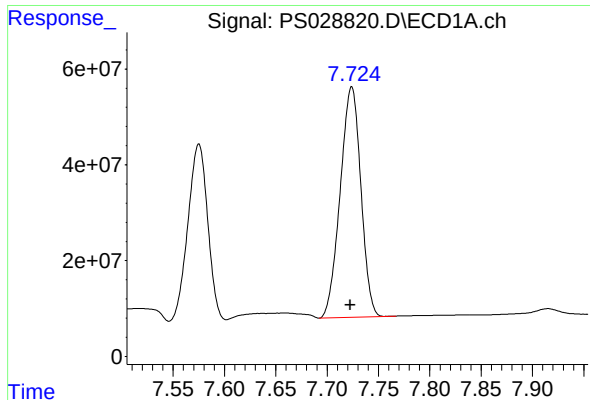
#6 MCPP

R.T.: 7.575 min
Delta R.T.: 0.000 min
Response: 493705339
Conc: 79.28 ug/ml



#6 MCPP

R.T.: 7.997 min
Delta R.T.: 0.000 min
Response: 235233422
Conc: 71.99 ug/ml



#7 MCPA

R.T.: 7.724 min
Delta R.T.: 0.001 min
Response: 671383385
Conc: 76.59 ug/ml

Instrument :

ECD_S

ClientSampleId :

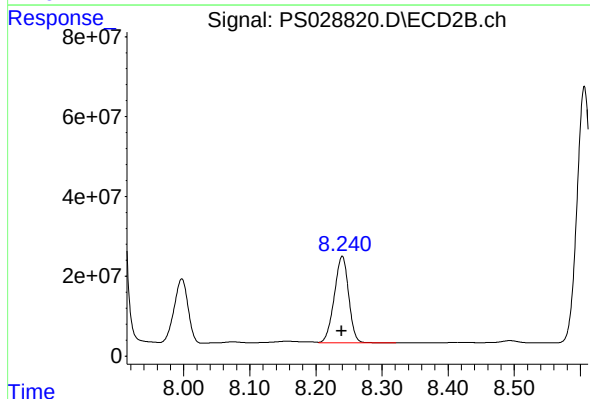
HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/27/2024
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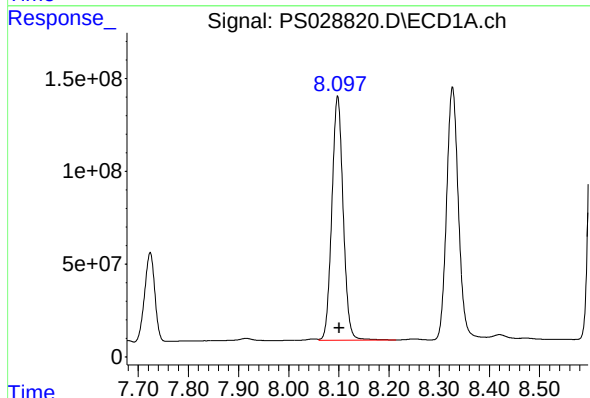
Time



#7 MCPA

R.T.: 8.240 min
Delta R.T.: 0.000 min
Response: 328678191
Conc: 70.94 ug/ml

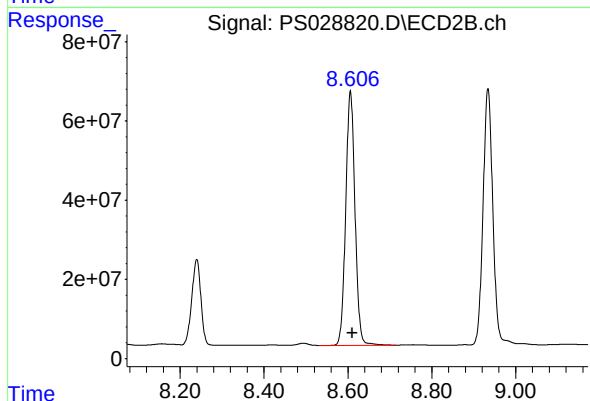
Time



#8 DICHLORPROP

R.T.: 8.098 min
Delta R.T.: -0.004 min
Response: 2058431907
Conc: 775.84 ng/ml

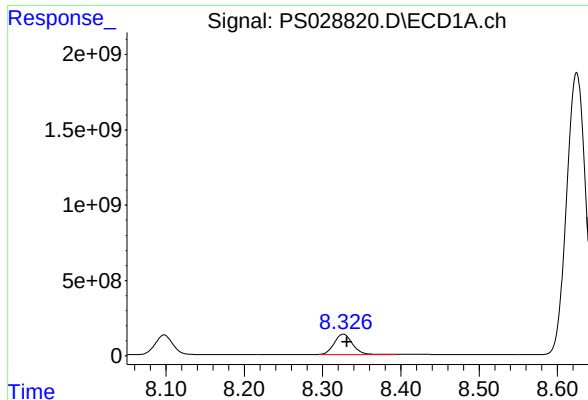
Time



#8 DICHLORPROP

R.T.: 8.606 min
Delta R.T.: -0.005 min
Response: 985109509
Conc: 714.02 ng/ml

Time



#9 2,4-D

R.T.: 8.326 min
Delta R.T.: -0.005 min
Response: 2184345926
Conc: 766.56 ng/ml

Instrument :

ECD_S

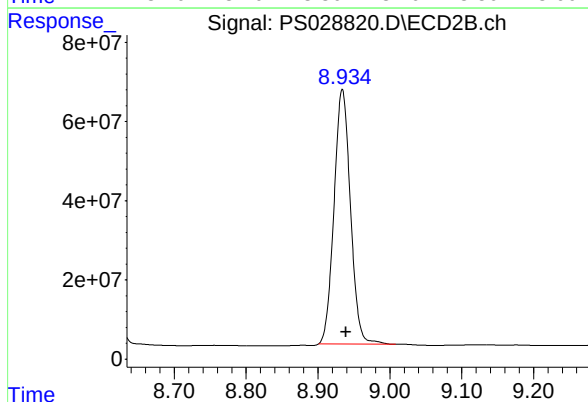
ClientSampleId :

HSTDCCC750

Manual Integrations

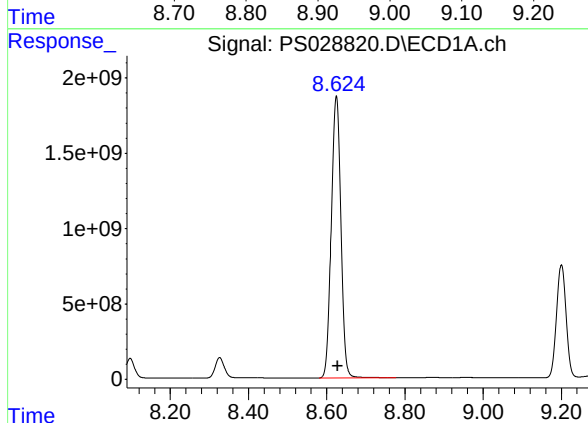
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



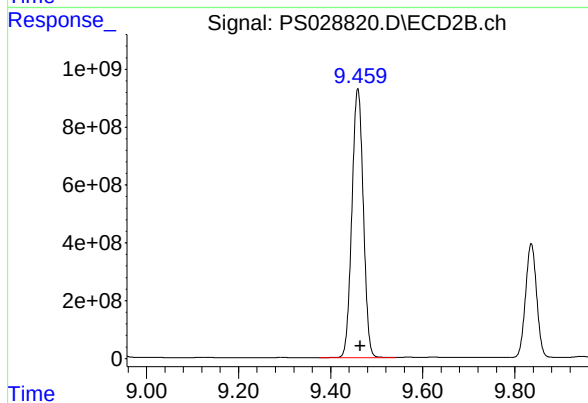
#9 2,4-D

R.T.: 8.934 min
Delta R.T.: -0.005 min
Response: 1021392891
Conc: 707.75 ng/ml



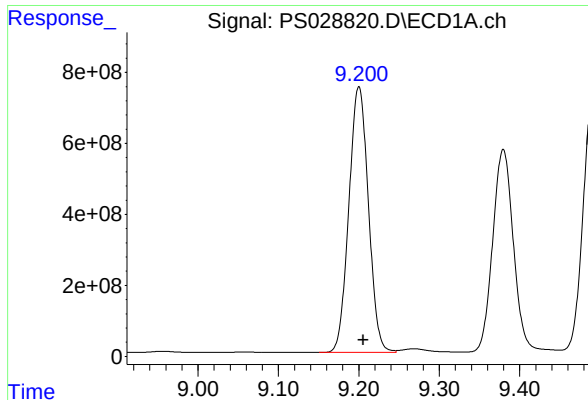
#10 Pentachlorophenol

R.T.: 8.625 min
Delta R.T.: -0.003 min
Response: 31990556634
Conc: 818.86 ng/ml



#10 Pentachlorophenol

R.T.: 9.459 min
Delta R.T.: -0.005 min
Response: 15960965900
Conc: 732.20 ng/ml



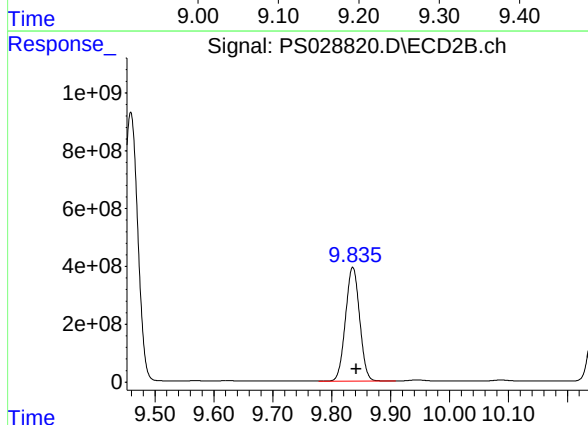
#11 2,4,5-TP (SILVEX)

R.T.: 9.200 min
Delta R.T.: -0.005 min
Response: 12616465992
Conc: 803.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

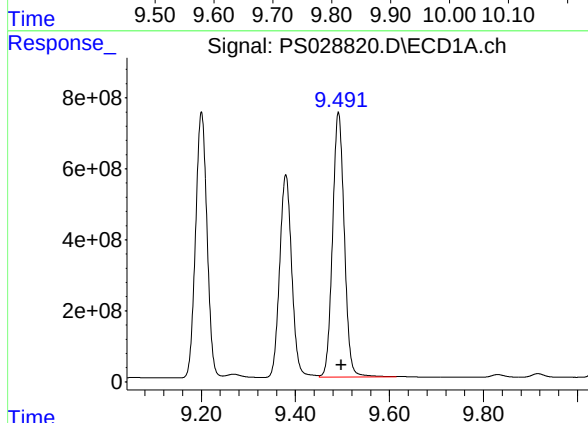
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



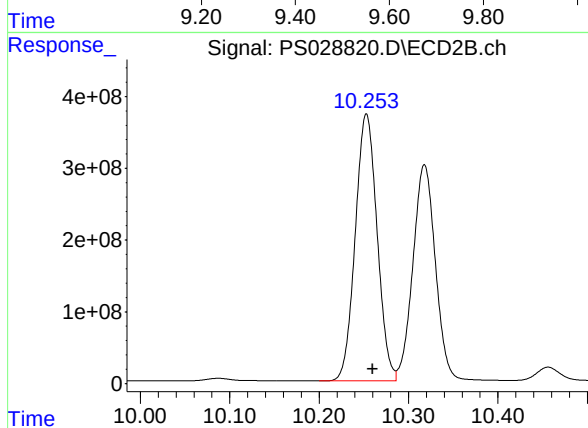
#11 2,4,5-TP (SILVEX)

R.T.: 9.836 min
Delta R.T.: -0.006 min
Response: 6564565450
Conc: 730.73 ng/ml



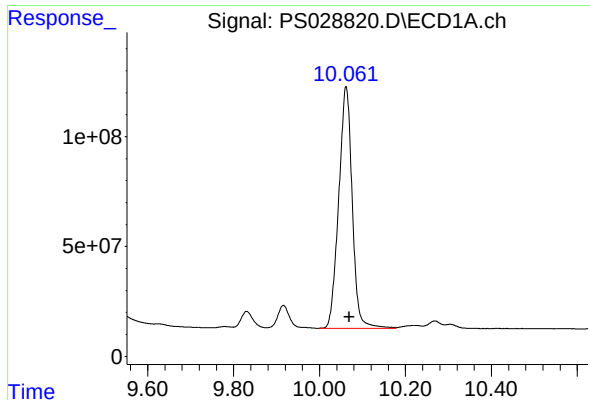
#12 2,4,5-T

R.T.: 9.492 min
Delta R.T.: -0.006 min
Response: 12925312952
Conc: 794.47 ng/ml



#12 2,4,5-T

R.T.: 10.253 min
Delta R.T.: -0.007 min
Response: 6304215651
Conc: 723.86 ng/ml



#13 2,4-DB

R.T.: 10.062 min
Delta R.T.: -0.008 min
Response: 2400632733
Conc: 769.04 ng/ml

Instrument :

ECD_S

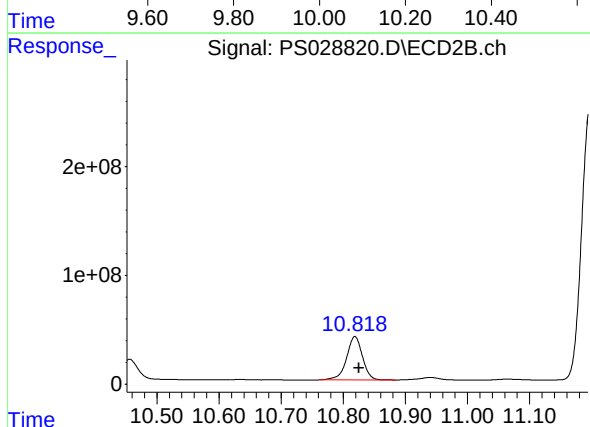
ClientSampleId :

HSTDCCC750

Manual Integrations

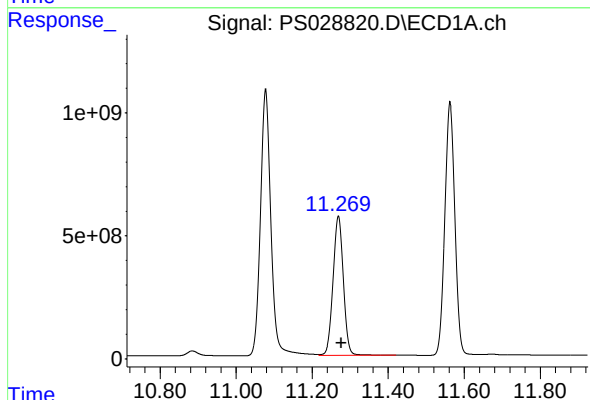
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



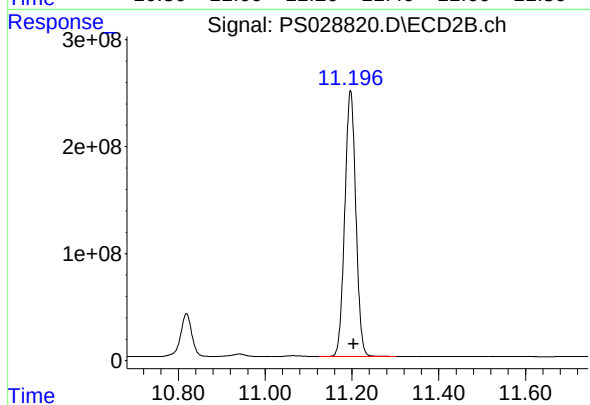
#13 2,4-DB

R.T.: 10.819 min
Delta R.T.: -0.007 min
Response: 708946375
Conc: 730.05 ng/ml



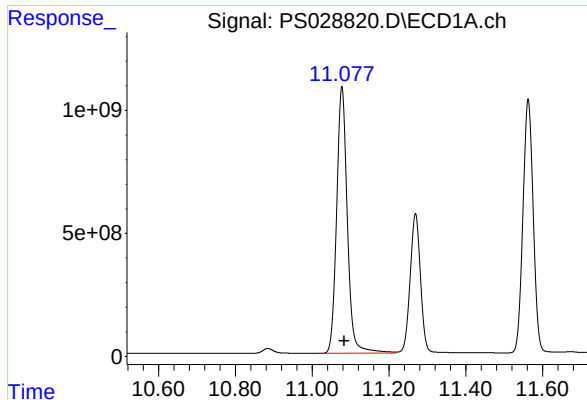
#14 DINOSEB

R.T.: 11.269 min
Delta R.T.: -0.007 min
Response: 10593151651
Conc: 788.08 ng/ml



#14 DINOSEB

R.T.: 11.197 min
Delta R.T.: -0.007 min
Response: 4394055967
Conc: 713.42 ng/ml



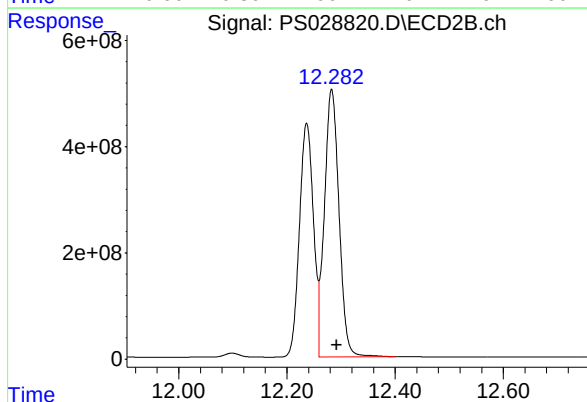
#15 Picloram

R.T.: 11.077 min
Delta R.T.: -0.007 min
Response: 21004683938
Conc: 783.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

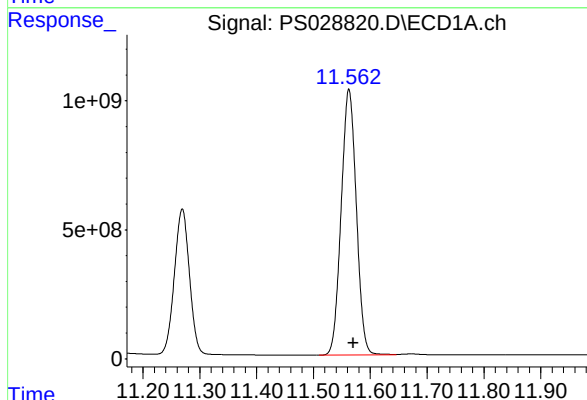
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



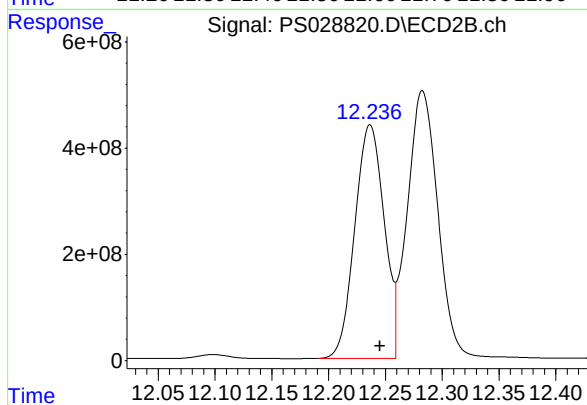
#15 Picloram

R.T.: 12.283 min
Delta R.T.: -0.009 min
Response: 9448885912
Conc: 735.95 ng/ml



#16 DCPA

R.T.: 11.562 min
Delta R.T.: -0.008 min
Response: 19085621500
Conc: 793.55 ng/ml m



#16 DCPA

R.T.: 12.236 min
Delta R.T.: -0.009 min
Response: 7906831564
Conc: 735.89 ng/ml



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/26/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 18:40 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.39	7.40	7.30	7.50	0.01
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
Dalapon	2.62	2.62	2.52	2.72	0.00
DICHLORPROP	8.10	8.10	8.00	8.20	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01
2,4,5-T	9.49	9.50	9.40	9.60	0.01
2,4-DB	10.06	10.07	9.97	10.17	0.01
Dinoseb	11.27	11.28	11.18	11.38	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/26/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 18:40 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.89	7.90	7.80	8.00	0.01
2,4-DCAA	7.70	7.70	7.60	7.80	0.00
Dalapon	2.67	2.67	2.57	2.77	0.00
DICHLORPROP	8.61	8.61	8.51	8.71	0.00
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.84	9.84	9.74	9.94	0.00
2,4,5-T	10.25	10.26	10.16	10.36	0.01
2,4-DB	10.82	10.83	10.73	10.93	0.01
Dinoseb	11.20	11.20	11.10	11.30	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL05 Date Analyzed: 12/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028825.D Time Analyzed: 18:40

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.491	9.397	9.597	752.840	712.500	5.7
2,4,5-TP(Silvex)	9.199	9.106	9.306	763.510	712.500	7.2
2,4-D	8.326	8.232	8.432	724.320	705.000	2.7
2,4-DB	10.061	9.969	10.169	723.660	712.500	1.6
2,4-DCAA	7.206	7.110	7.310	765.790	750.000	2.1
Dalapon	2.620	2.520	2.720	720.310	682.500	5.5
DICAMBA	7.391	7.297	7.497	754.170	705.000	7.0
DICHLORPROP	8.096	8.002	8.202	744.200	705.000	5.6
Dinoseb	11.268	11.176	11.376	743.400	705.000	5.4



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL05 Date Analyzed: 12/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028825.D Time Analyzed: 18:40

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.253	10.160	10.360	695.020	712.500	-2.5
2,4,5-TP(Silvex)	9.835	9.742	9.942	702.440	712.500	-1.4
2,4-D	8.934	8.840	9.040	684.480	705.000	-2.9
2,4-DB	10.818	10.726	10.926	700.080	712.500	-1.7
2,4-DCAA	7.695	7.600	7.800	723.350	750.000	-3.6
Dalapon	2.673	2.574	2.774	665.660	682.500	-2.5
DICAMBA	7.893	7.798	7.998	695.150	705.000	-1.4
DICHLORPROP	8.606	8.512	8.712	698.120	705.000	-1.0
Dinoseb	11.196	11.104	11.304	677.580	705.000	-3.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028825.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 18:40
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:43:10 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.206	7.695	1732.2E6	814.2E6	765.789	723.351
Target Compounds							
1) T	Dalapon	2.620	2.673	2028.9E6	1310.4E6	720.309	665.656
2) T	3,5-DICHL...	6.381	6.657	2426.8E6	1117.0E6	736.469	673.848
3) T	4-Nitroph...	7.004	7.224	1065.5E6	548.6E6	709.357	655.474
5) T	DICAMBA	7.391	7.893	7436.6E6	3816.3E6	754.167	695.147
6) T	MCP	7.574	7.997	430.7E6	225.4E6	69.157	68.968
7) T	MCPA	7.723	8.239	634.5E6	313.8E6	72.385	67.736
8) T	DICHLORPROP	8.096	8.606	1974.5E6	963.2E6	744.202	698.120
9) T	2,4-D	8.326	8.934	2064.0E6	987.8E6	724.317	684.482
10) T	Pentachlo...	8.623	9.458	30359.5E6	15380.0E6	777.115	705.547
11) T	2,4,5-TP ...	9.199	9.835	11994.2E6	6310.4E6	763.509	702.444
12) T	2,4,5-T	9.491	10.253	12248.1E6	6053.1E6	752.840	695.022
13) T	2,4-DB	10.061	10.818	2259.0E6	679.8E6	723.663	700.076
14) T	DINOSEB	11.268	11.196	9992.6E6	4173.3E6	743.400	677.578
15) T	Picloram	11.076	12.283	19462.9E6	8769.4E6	725.883	683.029
16) T	DCPA	11.561	12.236	18011.9E6	7583.8E6	748.902	705.830

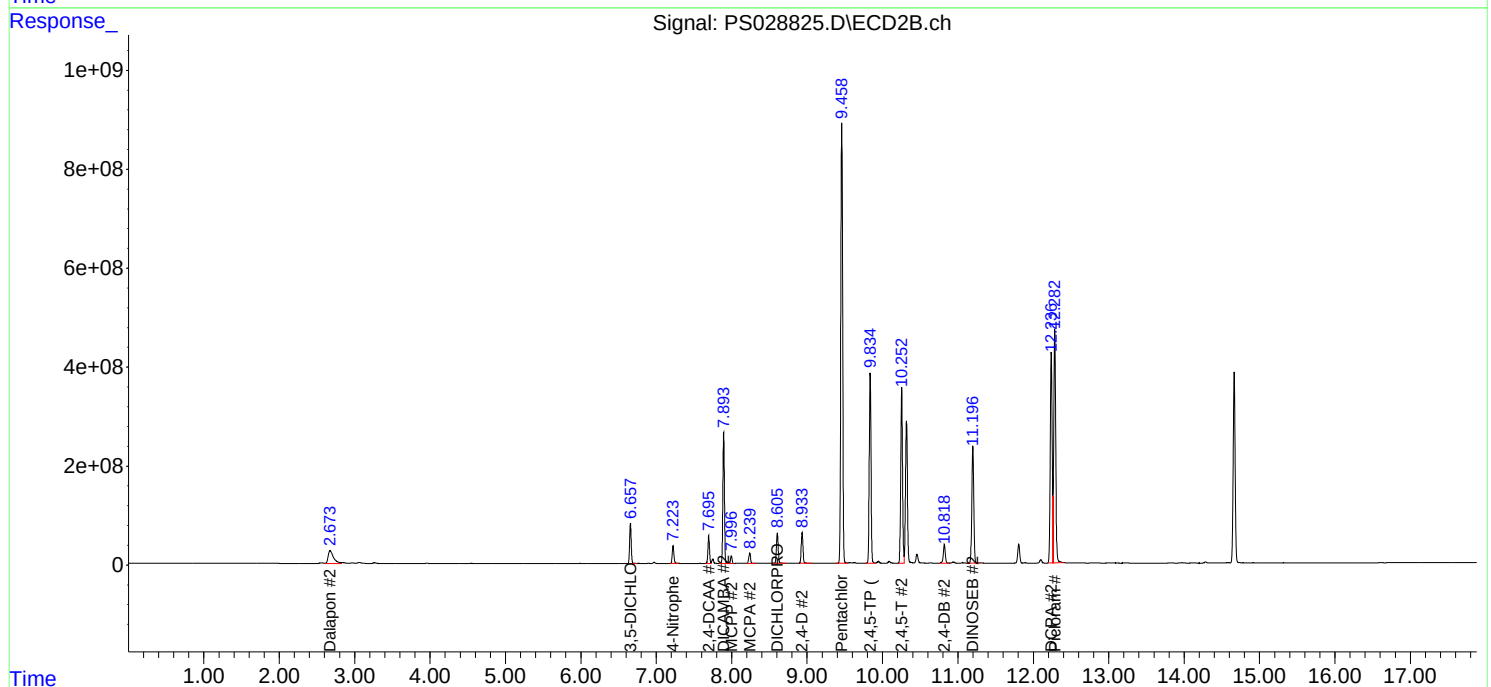
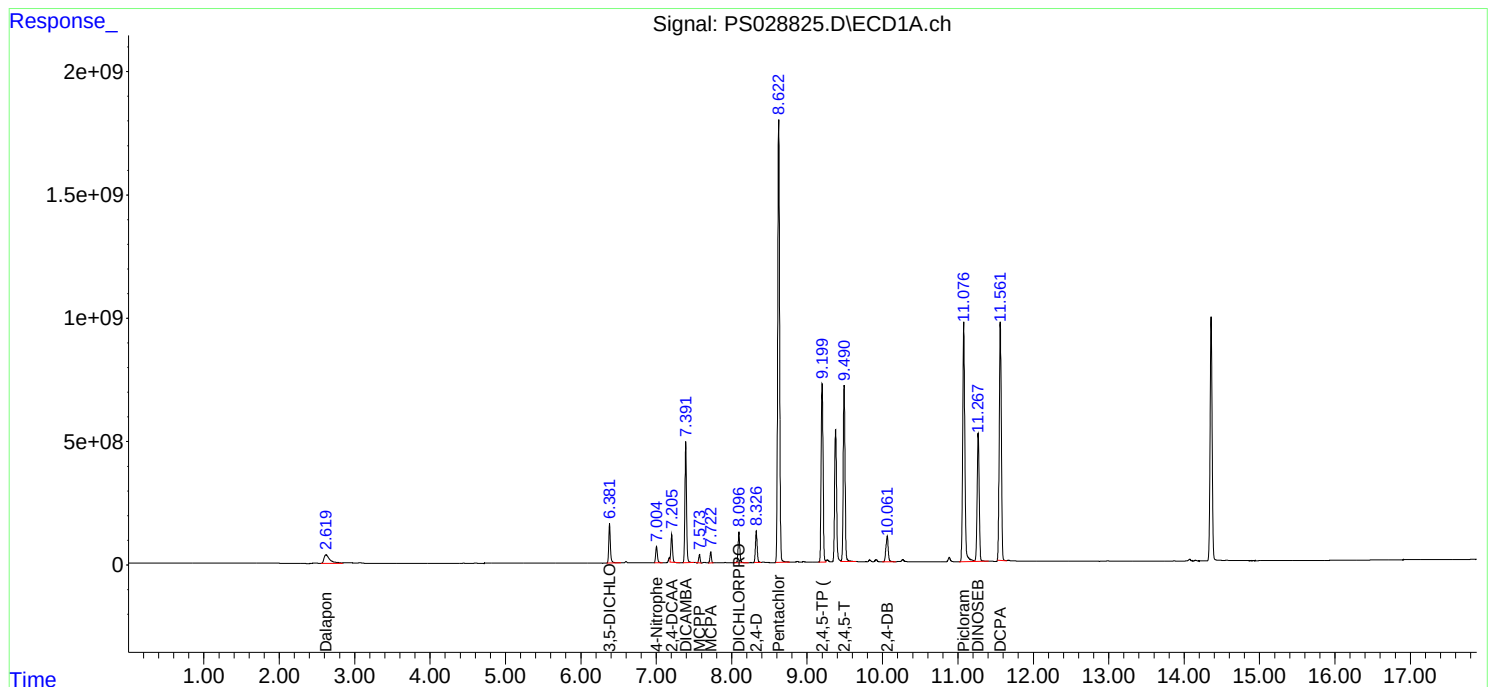
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

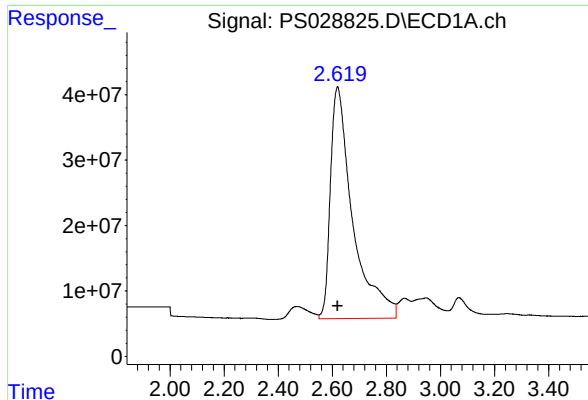
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028825.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 18:40
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:43:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

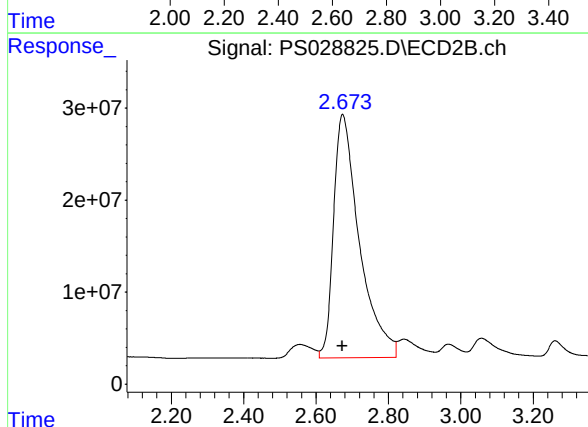




#1 Dalapon

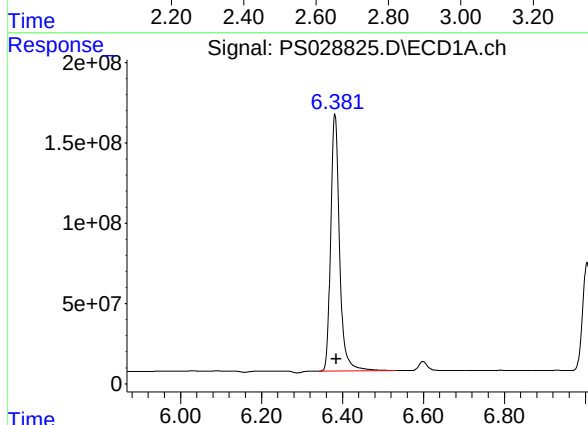
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 2028858215
Conc: 720.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



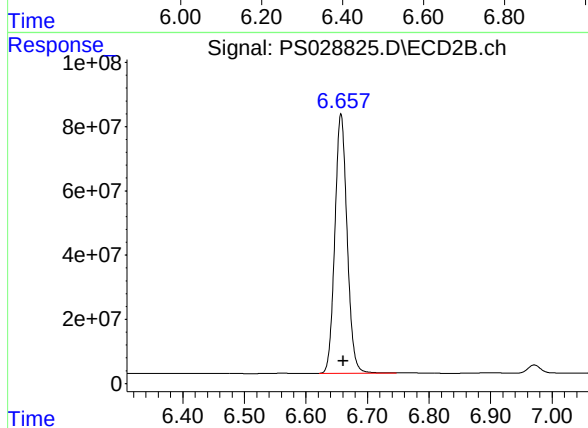
#1 Dalapon

R.T.: 2.673 min
Delta R.T.: 0.000 min
Response: 1310412156
Conc: 665.66 ng/ml



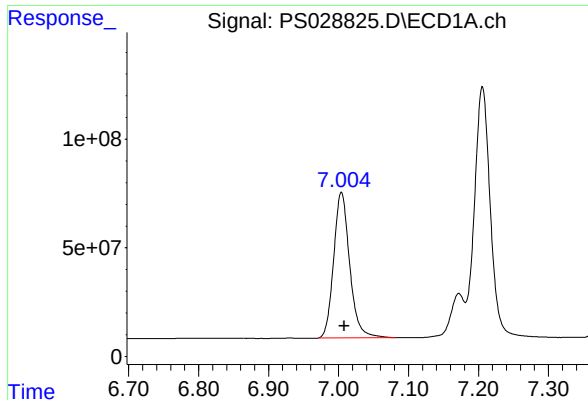
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 2426763801
Conc: 736.47 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

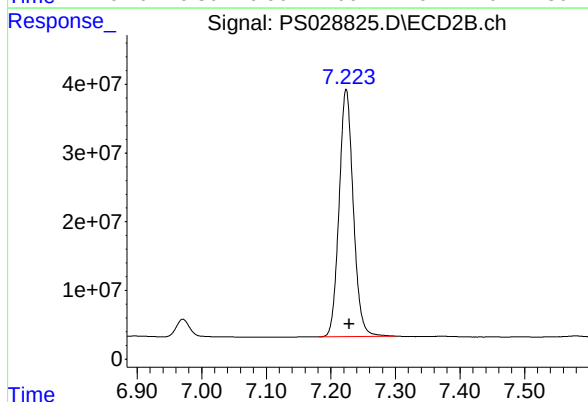
R.T.: 6.657 min
Delta R.T.: -0.004 min
Response: 1116952655
Conc: 673.85 ng/ml



#3 4-Nitrophenol

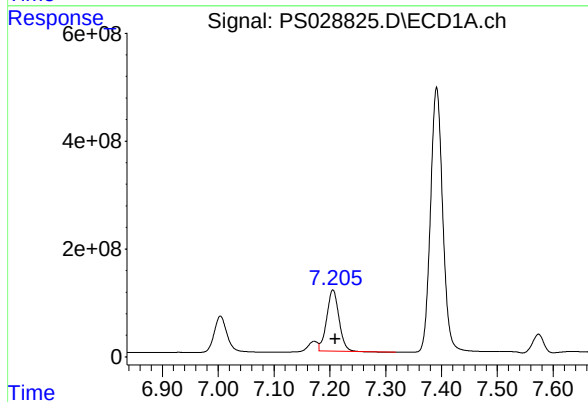
R.T.: 7.004 min
Delta R.T.: -0.004 min
Response: 1065495670
Conc: 709.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



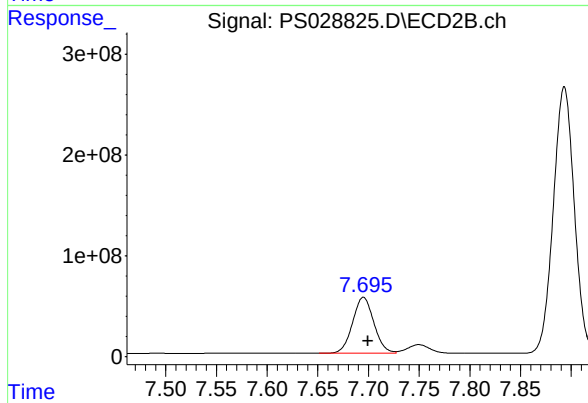
#3 4-Nitrophenol

R.T.: 7.224 min
Delta R.T.: -0.005 min
Response: 548561721
Conc: 655.47 ng/ml



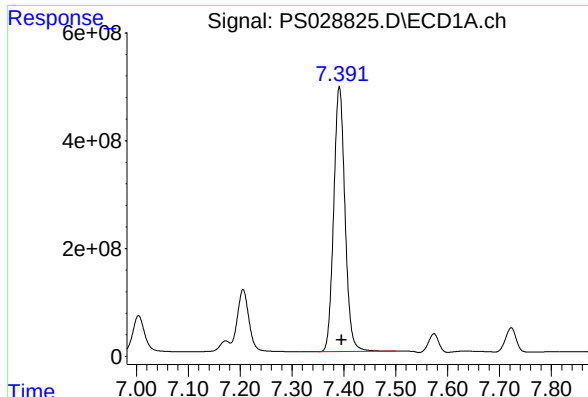
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1732234752
Conc: 765.79 ng/ml



#4 2,4-DCAA

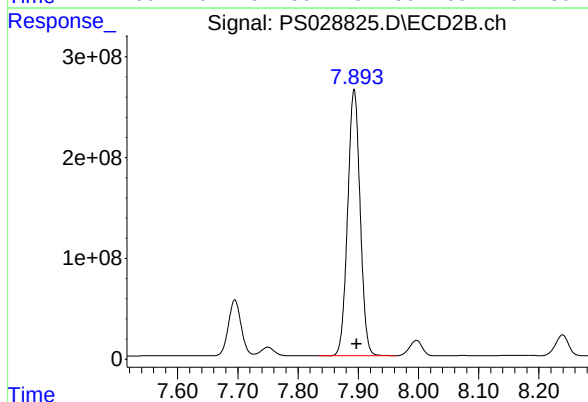
R.T.: 7.695 min
Delta R.T.: -0.004 min
Response: 814158145
Conc: 723.35 ng/ml



#5 DICAMBA

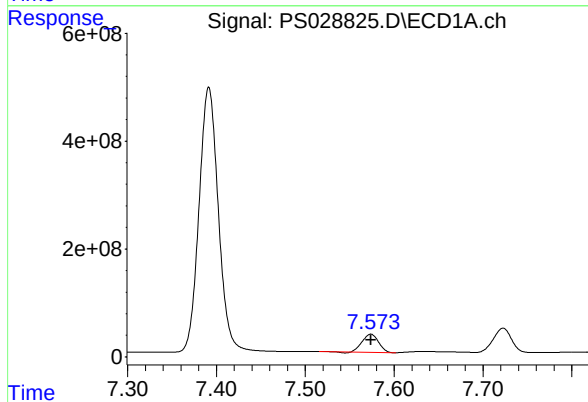
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 7436568332
Conc: 754.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



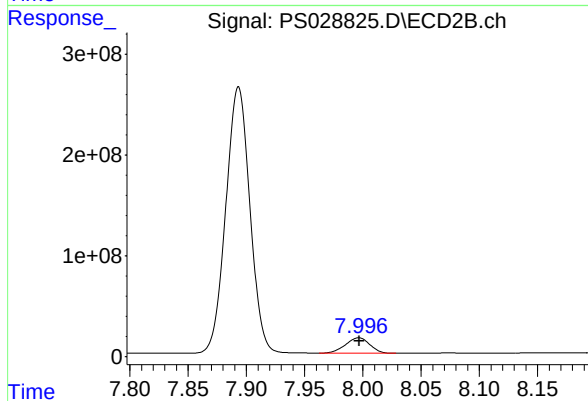
#5 DICAMBA

R.T.: 7.893 min
Delta R.T.: -0.004 min
Response: 3816265810
Conc: 695.15 ng/ml



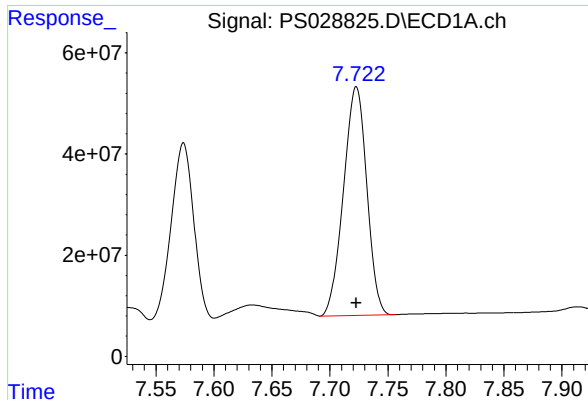
#6 MCPP

R.T.: 7.574 min
Delta R.T.: 0.000 min
Response: 430652797
Conc: 69.16 ug/ml



#6 MCPP

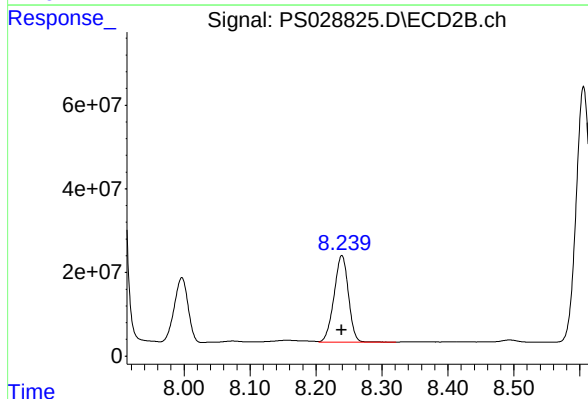
R.T.: 7.997 min
Delta R.T.: 0.000 min
Response: 225372959
Conc: 68.97 ug/ml



#7 MCPA

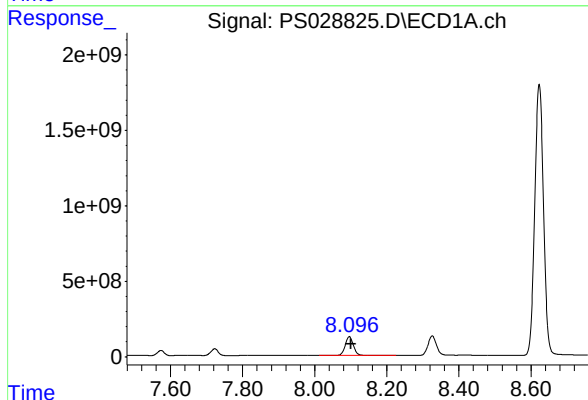
R.T.: 7.723 min
Delta R.T.: 0.000 min
Response: 634489710
Conc: 72.39 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



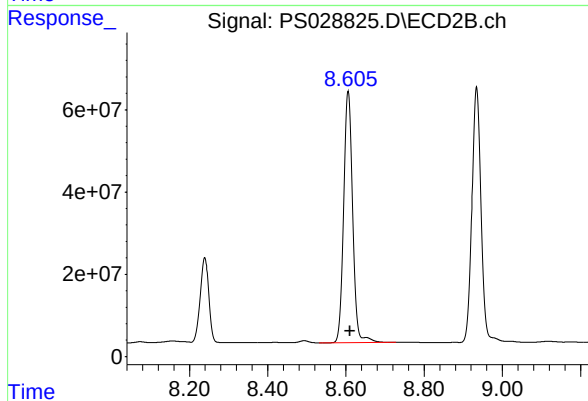
#7 MCPA

R.T.: 8.239 min
Delta R.T.: 0.000 min
Response: 313811111
Conc: 67.74 ug/ml



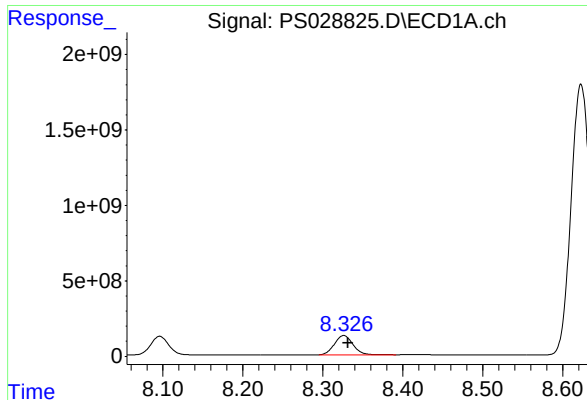
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 1974498162
Conc: 744.20 ng/ml



#8 DICHLORPROP

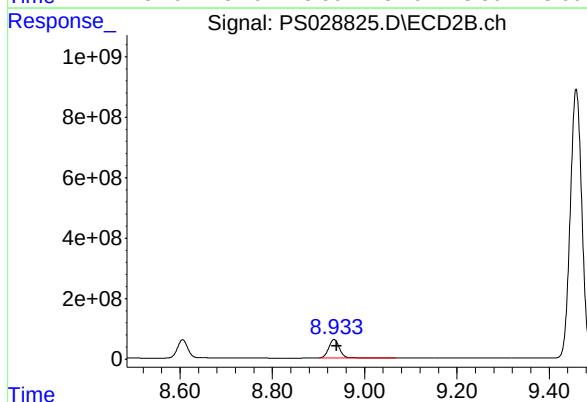
R.T.: 8.606 min
Delta R.T.: -0.005 min
Response: 963167335
Conc: 698.12 ng/ml



#9 2,4-D

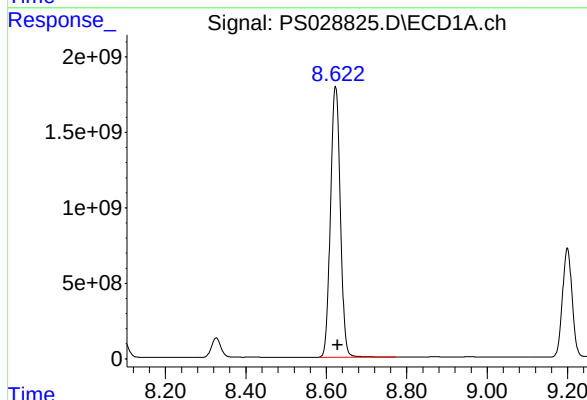
R.T.: 8.326 min
Delta R.T.: -0.005 min
Response: 2063966318
Conc: 724.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



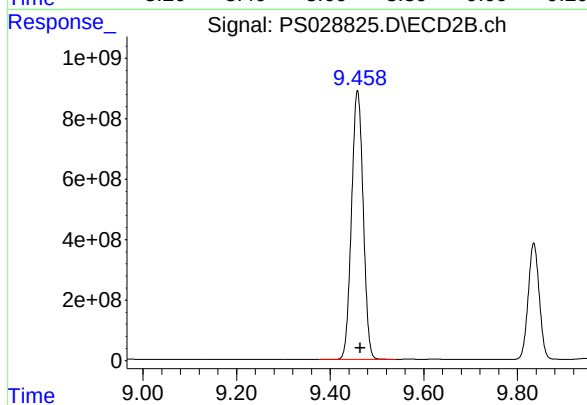
#9 2,4-D

R.T.: 8.934 min
Delta R.T.: -0.005 min
Response: 987806643
Conc: 684.48 ng/ml



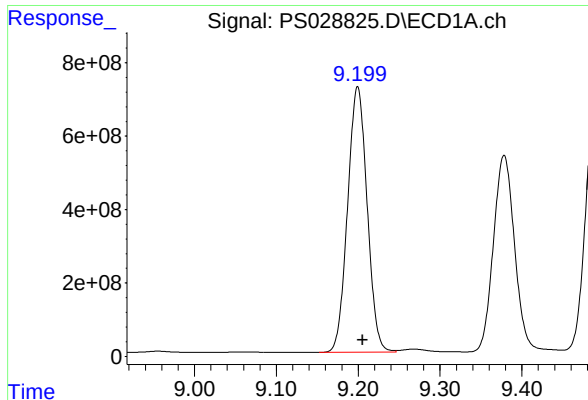
#10 Pentachlorophenol

R.T.: 8.623 min
Delta R.T.: -0.005 min
Response: 30359542488
Conc: 777.11 ng/ml



#10 Pentachlorophenol

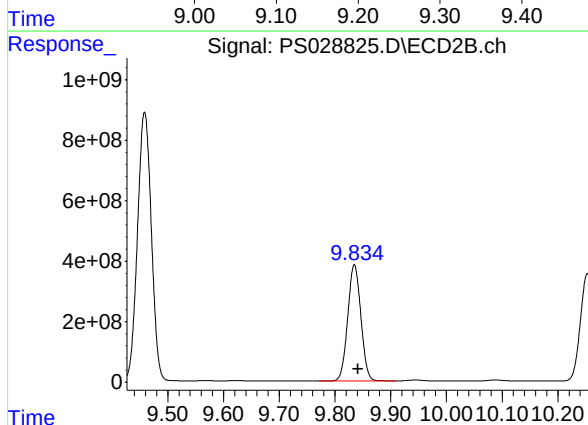
R.T.: 9.458 min
Delta R.T.: -0.006 min
Response: 15380013765
Conc: 705.55 ng/ml



#11 2,4,5-TP (SILVEX)

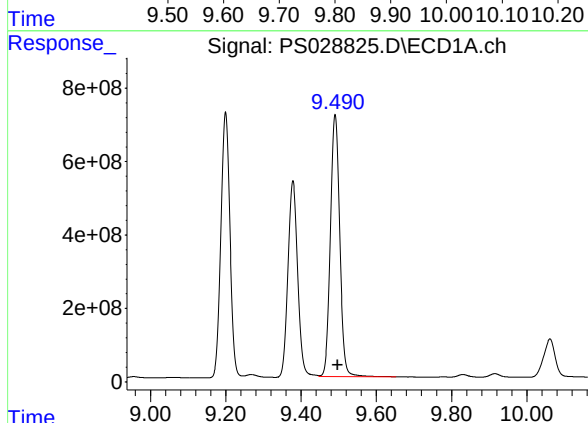
R.T.: 9.199 min
Delta R.T.: -0.006 min
Response: 11994211242
Conc: 763.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



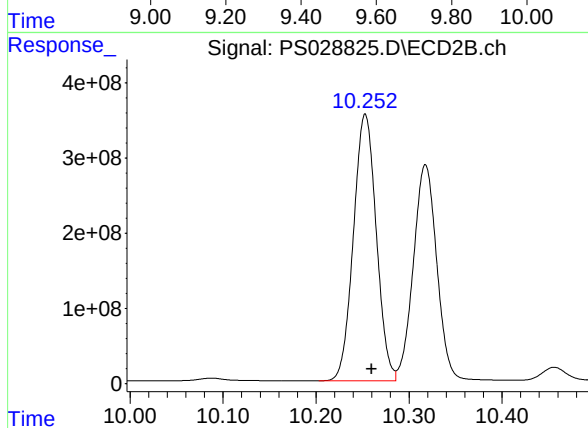
#11 2,4,5-TP (SILVEX)

R.T.: 9.835 min
Delta R.T.: -0.007 min
Response: 6310418247
Conc: 702.44 ng/ml



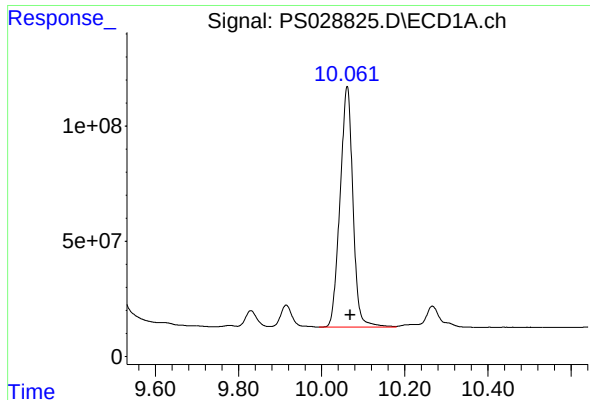
#12 2,4,5-T

R.T.: 9.491 min
Delta R.T.: -0.007 min
Response: 12248102036
Conc: 752.84 ng/ml



#12 2,4,5-T

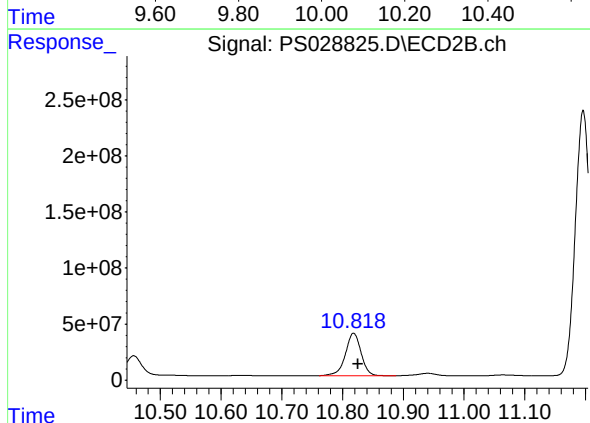
R.T.: 10.253 min
Delta R.T.: -0.007 min
Response: 6053076018
Conc: 695.02 ng/ml



#13 2,4-DB

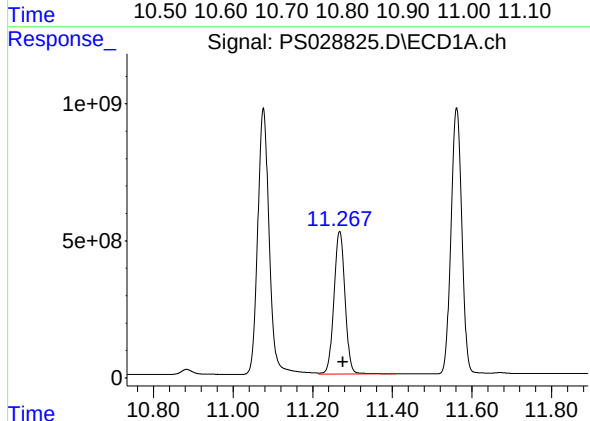
R.T.: 10.061 min
Delta R.T.: -0.008 min
Response: 2258986761
Conc: 723.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



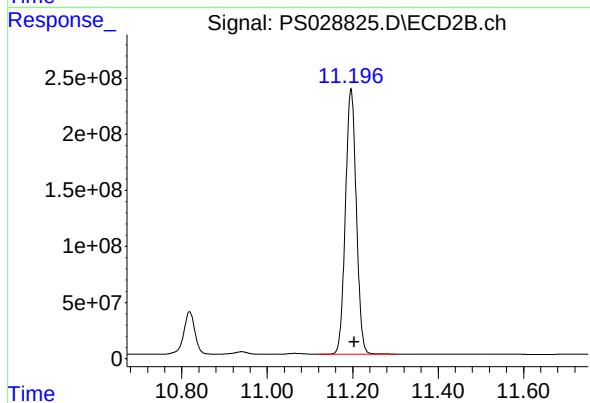
#13 2,4-DB

R.T.: 10.818 min
Delta R.T.: -0.008 min
Response: 679841679
Conc: 700.08 ng/ml



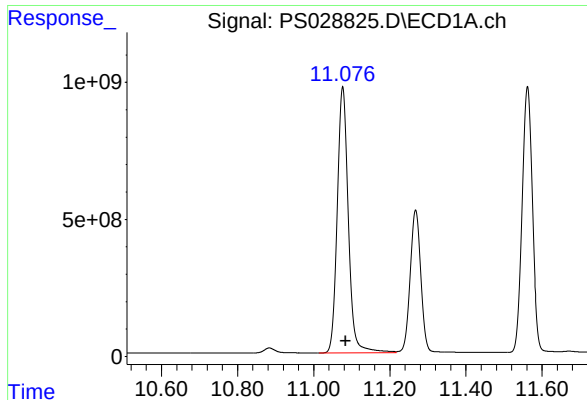
#14 DINOSEB

R.T.: 11.268 min
Delta R.T.: -0.008 min
Response: 9992576710
Conc: 743.40 ng/ml



#14 DINOSEB

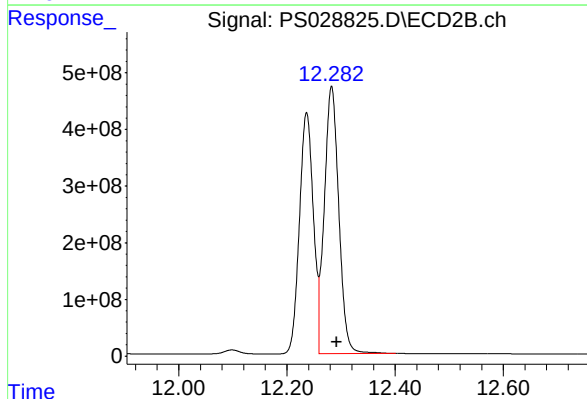
R.T.: 11.196 min
Delta R.T.: -0.008 min
Response: 4173299422
Conc: 677.58 ng/ml



#15 Picloram

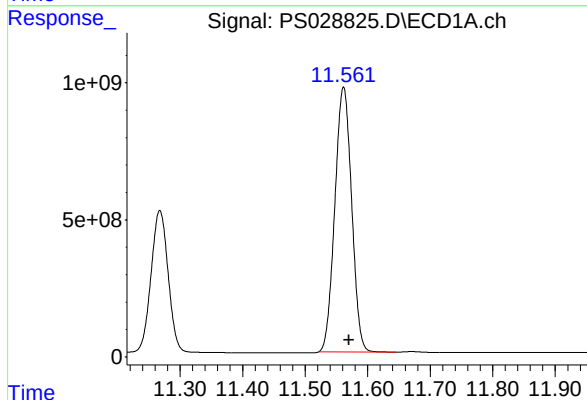
R.T.: 11.076 min
Delta R.T.: -0.008 min
Response: 19462934271
Conc: 725.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



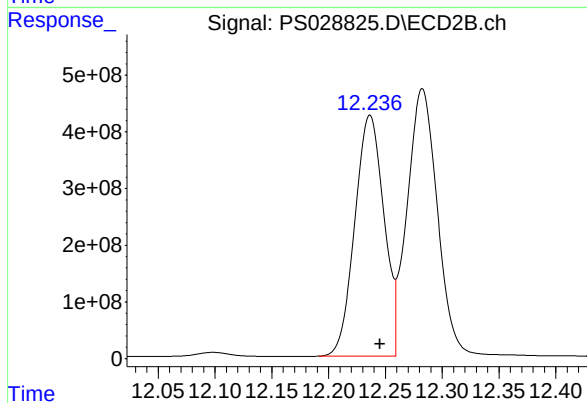
#15 Picloram

R.T.: 12.283 min
Delta R.T.: -0.009 min
Response: 8769417697
Conc: 683.03 ng/ml



#16 DCPA

R.T.: 11.561 min
Delta R.T.: -0.009 min
Response: 18011880037
Conc: 748.90 ng/ml



#16 DCPA

R.T.: 12.236 min
Delta R.T.: -0.009 min
Response: 7583848029
Conc: 705.83 ng/ml



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/30/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 10:25 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.40	7.40	7.30	7.50	0.01
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
Dalapon	2.62	2.62	2.52	2.72	0.00
DICHLORPROP	8.10	8.10	8.00	8.20	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01
2,4,5-T	9.50	9.50	9.40	9.60	0.01
2,4-DB	10.07	10.07	9.97	10.17	0.00
Dinoseb	11.27	11.28	11.18	11.38	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/30/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 10:25 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.89	7.90	7.80	8.00	0.01
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
Dalapon	2.67	2.67	2.57	2.77	0.00
DICHLORPROP	8.60	8.61	8.51	8.71	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01
2,4,5-T	10.25	10.26	10.16	10.36	0.01
2,4-DB	10.82	10.83	10.73	10.93	0.01
Dinoseb	11.19	11.20	11.10	11.30	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL06 Date Analyzed: 12/30/2024

Lab Sample No.: HSTDCCC750 Data File : PS028849.D Time Analyzed: 10:25

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.495	9.397	9.597	750.040	712.500	5.3
2,4,5-TP(Silvex)	9.204	9.106	9.306	757.550	712.500	6.3
2,4-D	8.330	8.232	8.432	734.230	705.000	4.1
2,4-DB	10.066	9.969	10.169	716.190	712.500	0.5
2,4-DCAA	7.210	7.110	7.310	785.200	750.000	4.7
Dalapon	2.622	2.520	2.720	700.190	682.500	2.6
DICAMBA	7.395	7.297	7.497	750.320	705.000	6.4
DICHLORPROP	8.100	8.002	8.202	734.990	705.000	4.3
Dinoseb	11.272	11.176	11.376	744.240	705.000	5.6



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL06 Date Analyzed: 12/30/2024

Lab Sample No.: HSTDCCC750 Data File : PS028849.D Time Analyzed: 10:25

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.250	10.160	10.360	647.660	712.500	-9.1
2,4,5-TP(Silvex)	9.833	9.742	9.942	659.120	712.500	-7.5
2,4-D	8.932	8.840	9.040	632.820	705.000	-10.2
2,4-DB	10.816	10.726	10.926	651.870	712.500	-8.5
2,4-DCAA	7.694	7.600	7.800	675.500	750.000	-9.9
Dalapon	2.673	2.574	2.774	630.140	682.500	-7.7
DICAMBA	7.891	7.798	7.998	649.660	705.000	-7.8
DICHLORPROP	8.604	8.512	8.712	644.640	705.000	-8.6
Dinoseb	11.193	11.104	11.304	635.000	705.000	-9.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028849.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 10:25
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:36:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.210	7.694	1776.1E6	760.3E6	785.196	675.500
Target Compounds							
1) T	Dalapon	2.622	2.673	1972.2E6	1240.5E6	700.193	630.145
2) T	3,5-DICHL...	6.385	6.656	2403.7E6	1047.4E6	729.462	631.891
3) T	4-Nitroph...	7.008	7.223	1059.9E6	525.7E6	705.599	628.151
5) T	DICAMBA	7.395	7.891	7398.6E6	3566.5E6	750.316	649.658
6) T	MCPD	7.577	7.994	448.7E6	208.7E6	72.059	63.851
7) T	MCPA	7.726	8.236	610.8E6	290.5E6	69.684	62.698
8) T	DICHLORPROP	8.100	8.604	1950.1E6	889.4E6	734.993	644.635
9) T	2,4-D	8.330	8.932	2092.2E6	913.3E6	734.232	632.820
10) T	Pentachlo...	8.627	9.456	30162.7E6	14445.6E6	772.076	662.683
11) T	2,4,5-TP ...	9.204	9.833	11900.7E6	5921.2E6	757.554	659.116
12) T	2,4,5-T	9.495	10.250	12202.5E6	5640.6E6	750.039	647.663
13) T	2,4-DB	10.066	10.816	2235.6E6	633.0E6	716.186	651.865
14) T	DINOSEB	11.272	11.193	10003.9E6	3911.0E6	744.241	634.996
15) T	Picloram	11.081	12.280	19388.9E6	8308.3E6	723.120	647.112
16) T	DCPA	11.567	12.234	18085.0E6	7119.2E6	751.943	662.590

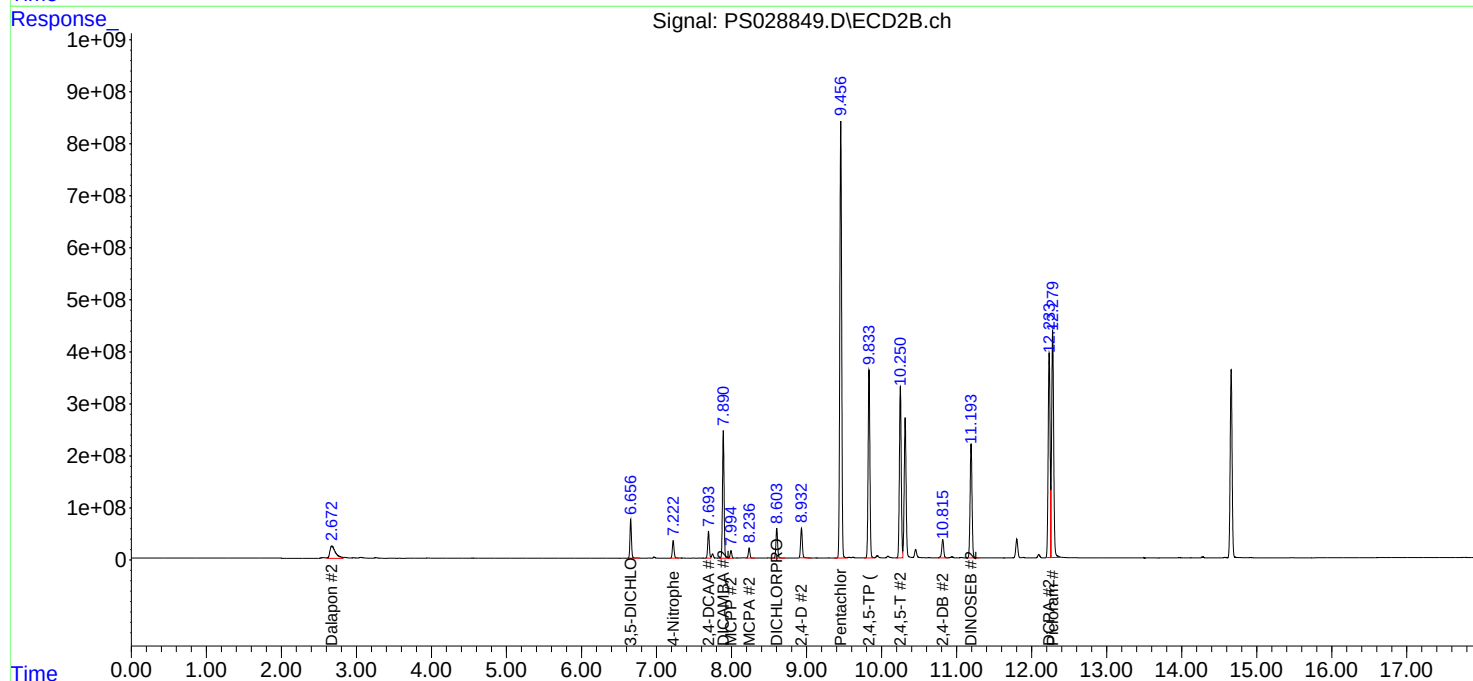
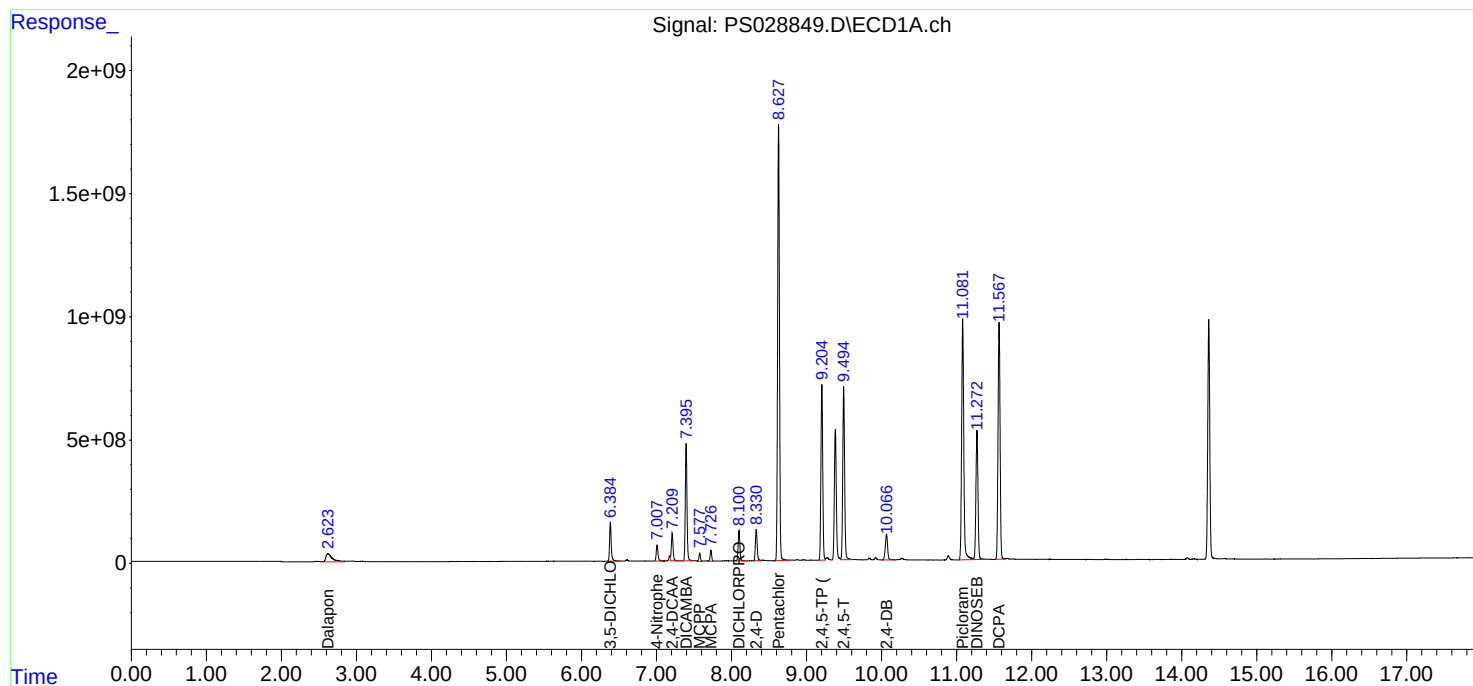
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028849.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 10:25
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:36:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS028849.D\ECD1A.ch

#1 Dalapon

R.T.: 2.622 min
Delta R.T.: 0.002 min
Response: 1972199279
Conc: 700.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Time

Response_ Signal: PS028849.D\ECD2B.ch

#1 Dalapon

R.T.: 2.673 min
Delta R.T.: 0.000 min
Response: 1240504295
Conc: 630.14 ng/ml

Time

Response_ Signal: PS028849.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2403674988
Conc: 729.46 ng/ml

Time

Response_ Signal: PS028849.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.656 min
Delta R.T.: -0.005 min
Response: 1047405036
Conc: 631.89 ng/ml

Time

Response_

Signal: PS028849.D\ECD1A.ch

#3 4-Nitrophenol

R.T.: 7.008 min

Delta R.T.: 0.000 min

Response: 1059850182

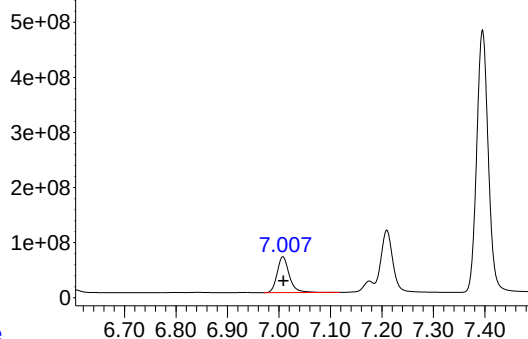
Conc: 705.60 ng/ml

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750



Time

Response_

Signal: PS028849.D\ECD2B.ch

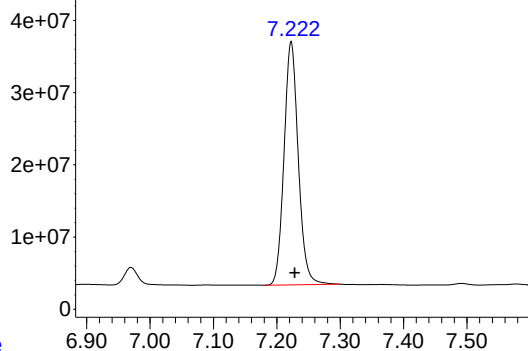
#3 4-Nitrophenol

R.T.: 7.223 min

Delta R.T.: -0.006 min

Response: 525695273

Conc: 628.15 ng/ml



Time

Response_

Signal: PS028849.D\ECD1A.ch

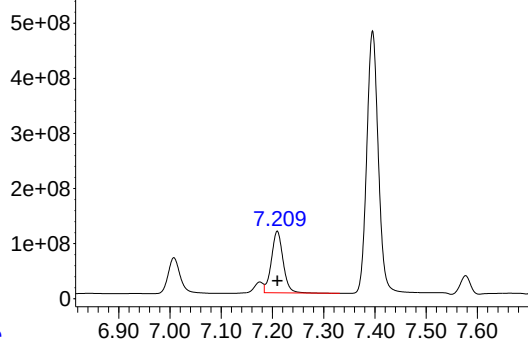
#4 2,4-DCAA

R.T.: 7.210 min

Delta R.T.: 0.000 min

Response: 1776132465

Conc: 785.20 ng/ml



Time

Response_

Signal: PS028849.D\ECD2B.ch

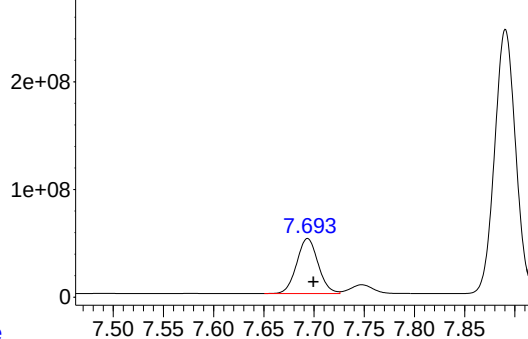
#4 2,4-DCAA

R.T.: 7.694 min

Delta R.T.: -0.006 min

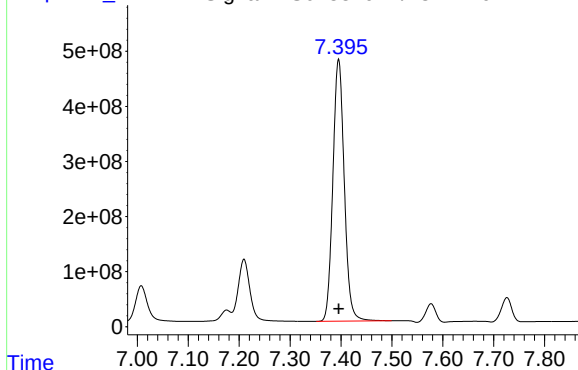
Response: 760301002

Conc: 675.50 ng/ml



Time

Response_ Signal: PS028849.D\ECD1A.ch

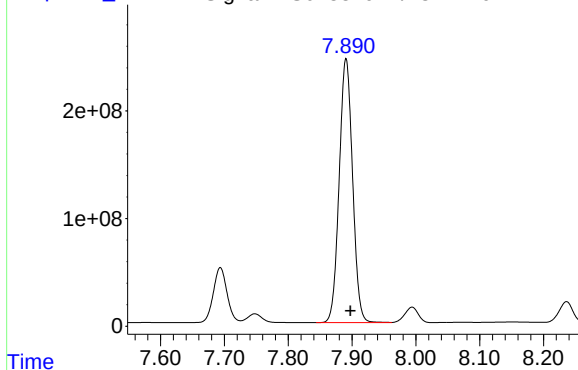


#5 DICAMBA

R.T.: 7.395 min
Delta R.T.: 0.000 min
Response: 7398596536
Conc: 750.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

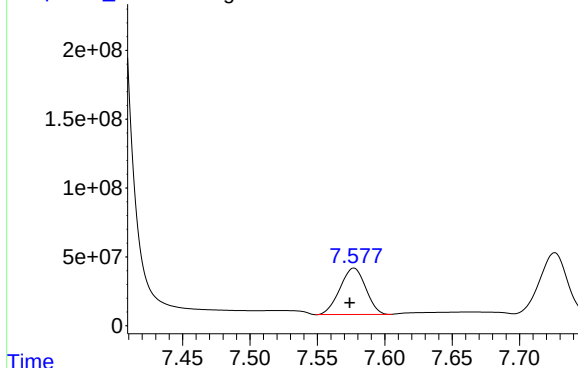
Response_ Signal: PS028849.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.007 min
Response: 3566539962
Conc: 649.66 ng/ml

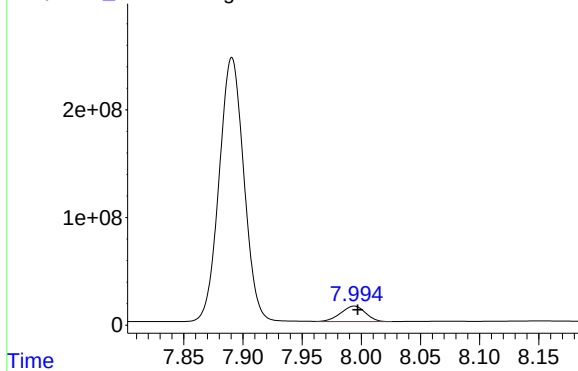
Response_ Signal: PS028849.D\ECD1A.ch



#6 MCP

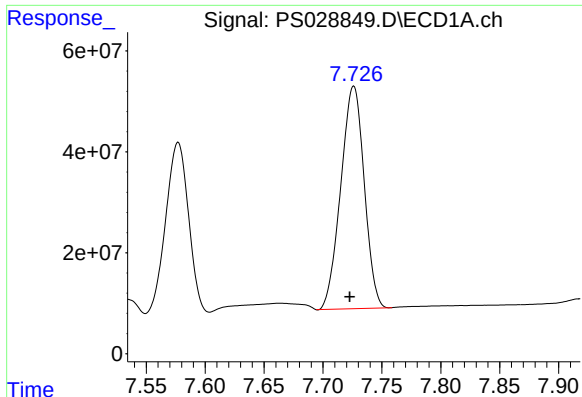
R.T.: 7.577 min
Delta R.T.: 0.003 min
Response: 448726942
Conc: 72.06 ug/ml

Response_ Signal: PS028849.D\ECD2B.ch



#6 MCP

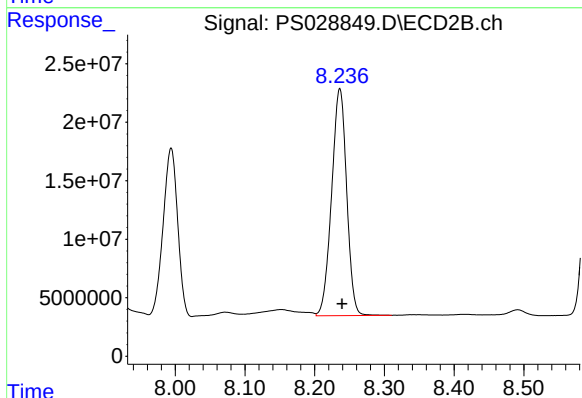
R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 208650295
Conc: 63.85 ug/ml



#7 MCPA

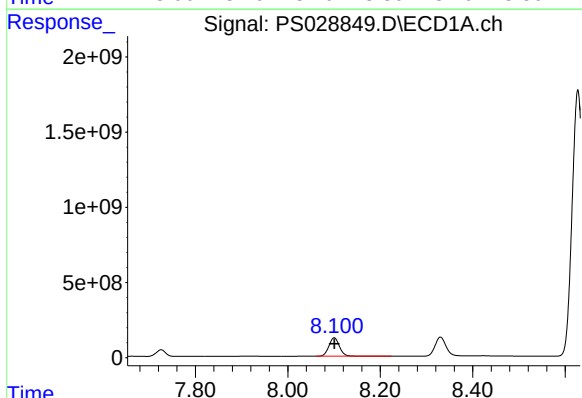
R.T.: 7.726 min
Delta R.T.: 0.003 min
Response: 610812451
Conc: 69.68 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



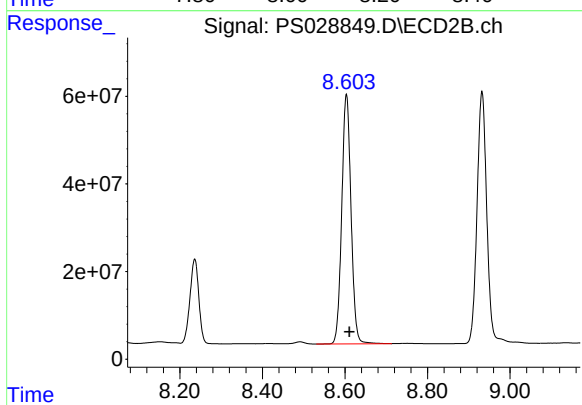
#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 290469665
Conc: 62.70 ug/ml



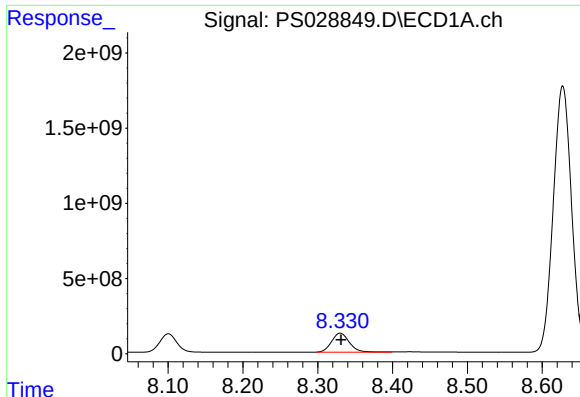
#8 DICHLORPROP

R.T.: 8.100 min
Delta R.T.: 0.000 min
Response: 1950067075
Conc: 734.99 ng/ml



#8 DICHLORPROP

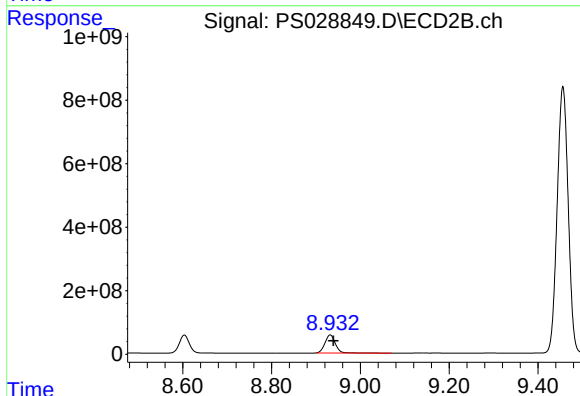
R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 889376131
Conc: 644.64 ng/ml



#9 2,4-D

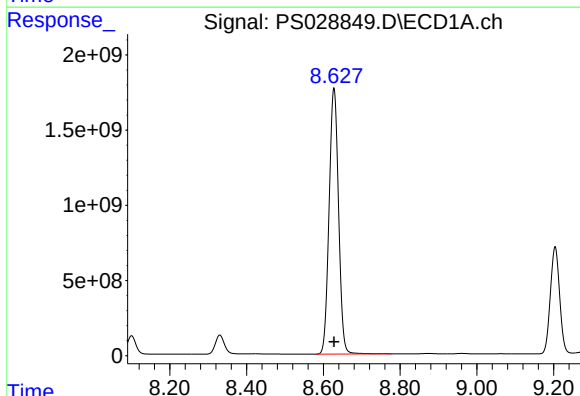
R.T.: 8.330 min
Delta R.T.: -0.001 min
Response: 2092218213
Conc: 734.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



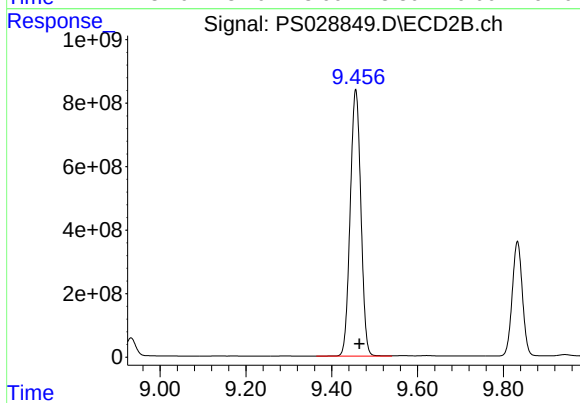
#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 913250797
Conc: 632.82 ng/ml



#10 Pentachlorophenol

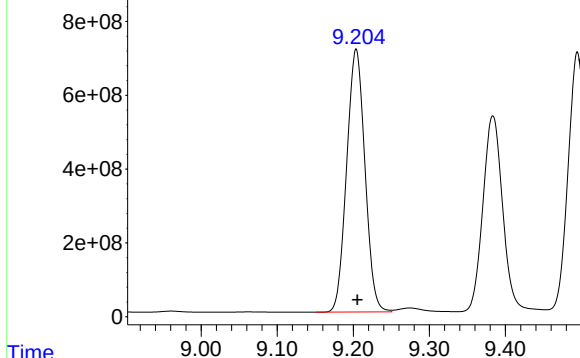
R.T.: 8.627 min
Delta R.T.: 0.000 min
Response: 30162694709
Conc: 772.08 ng/ml



#10 Pentachlorophenol

R.T.: 9.456 min
Delta R.T.: -0.008 min
Response: 14445645382
Conc: 662.68 ng/ml

Response_ Signal: PS028849.D\ECD1A.ch

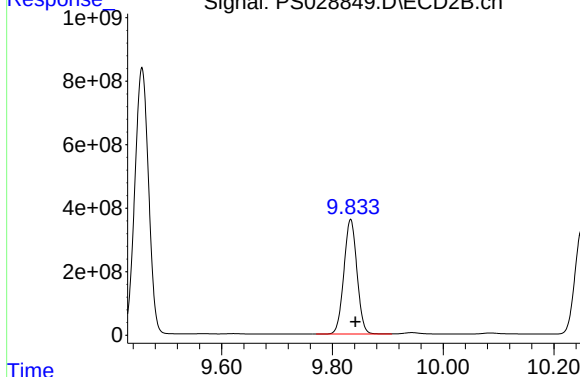


#11 2,4,5-TP (SILVEX)

R.T.: 9.204 min
Delta R.T.: -0.002 min
Response: 11900669817
Conc: 757.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

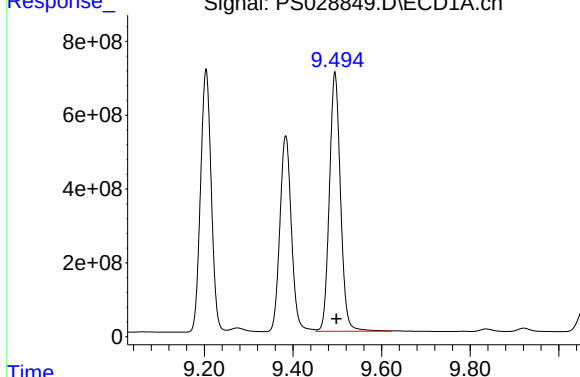
Time Response Signal: PS028849.D\ECD2B.ch



#11 2,4,5-TP (SILVEX)

R.T.: 9.833 min
Delta R.T.: -0.009 min
Response: 5921180489
Conc: 659.12 ng/ml

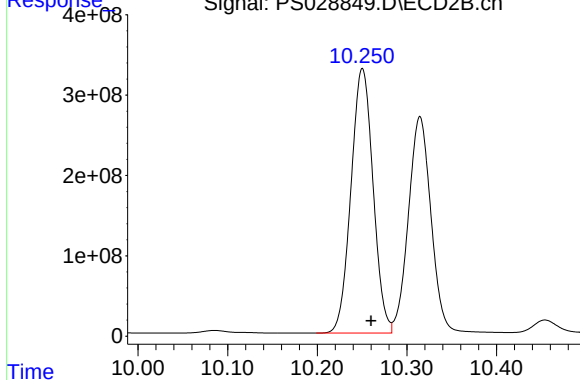
Time Response_ Signal: PS028849.D\ECD1A.ch



#12 2,4,5-T

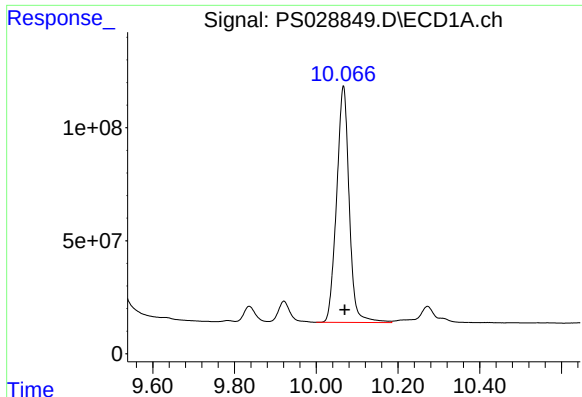
R.T.: 9.495 min
Delta R.T.: -0.003 min
Response: 12202531756
Conc: 750.04 ng/ml

Time Response Signal: PS028849.D\ECD2B.ch



#12 2,4,5-T

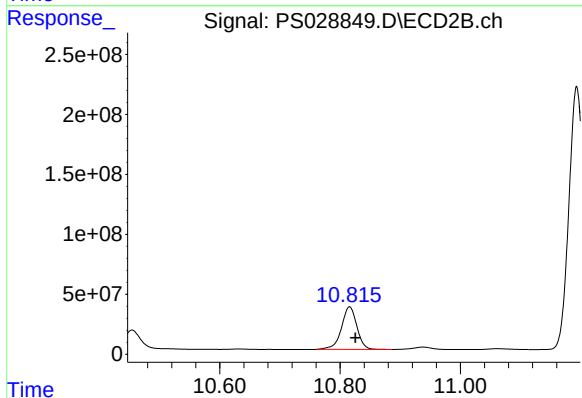
R.T.: 10.250 min
Delta R.T.: -0.009 min
Response: 5640619137
Conc: 647.66 ng/ml



#13 2,4-DB

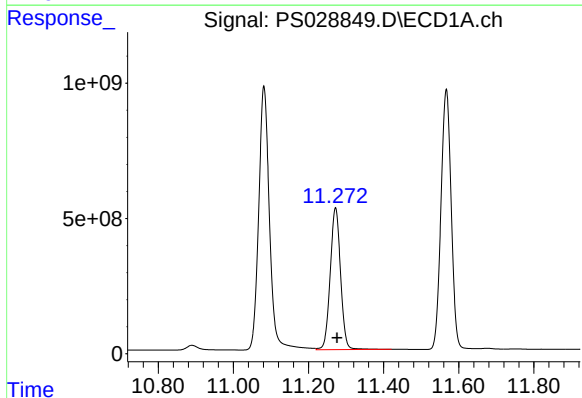
R.T.: 10.066 min
Delta R.T.: -0.003 min
Response: 2235645392
Conc: 716.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



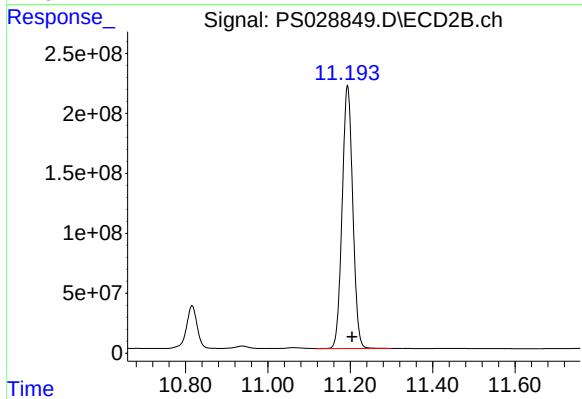
#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.010 min
Response: 633024607
Conc: 651.87 ng/ml



#14 DINOSEB

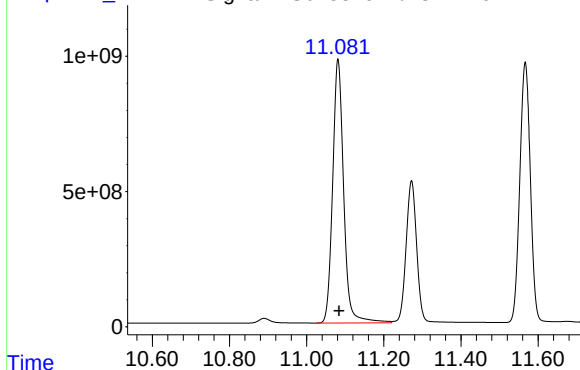
R.T.: 11.272 min
Delta R.T.: -0.004 min
Response: 10003886346
Conc: 744.24 ng/ml



#14 DINOSEB

R.T.: 11.193 min
Delta R.T.: -0.011 min
Response: 3911035243
Conc: 635.00 ng/ml

Response_ Signal: PS028849.D\ECD1A.ch

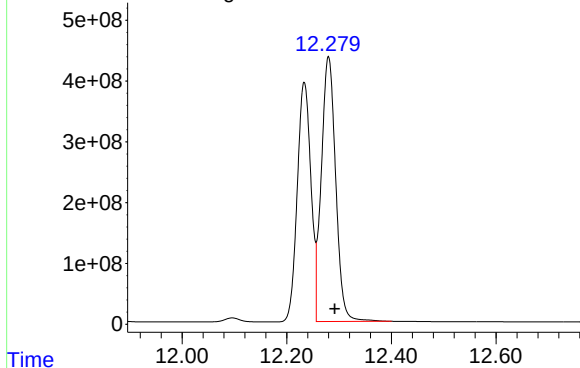


#15 Picloram

R.T.: 11.081 min
Delta R.T.: -0.003 min
Response: 19388856867
Conc: 723.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

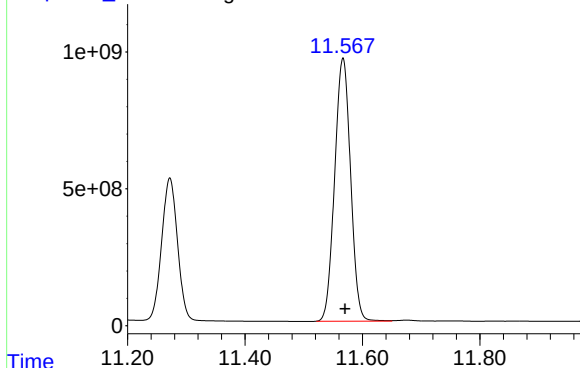
Time Response_ Signal: PS028849.D\ECD2B.ch



#15 Picloram

R.T.: 12.280 min
Delta R.T.: -0.012 min
Response: 8308282287
Conc: 647.11 ng/ml

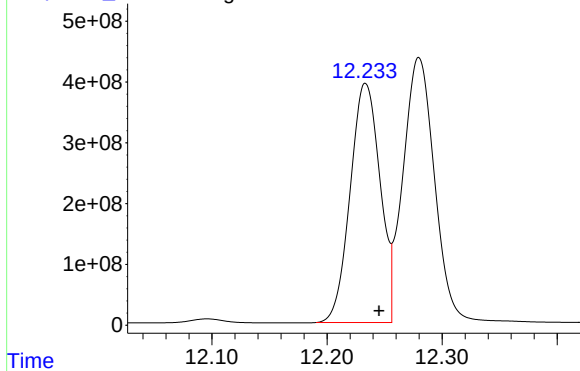
Time Response_ Signal: PS028849.D\ECD1A.ch



#16 DCPA

R.T.: 11.567 min
Delta R.T.: -0.003 min
Response: 18085000385
Conc: 751.94 ng/ml

Time Response_ Signal: PS028849.D\ECD2B.ch



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.012 min
Response: 7119245043
Conc: 662.59 ng/ml



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/30/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.40	7.40	7.30	7.50	0.01
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
Dalapon	2.62	2.62	2.52	2.72	0.00
DICHLORPROP	8.10	8.10	8.00	8.20	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01
2,4,5-T	9.49	9.50	9.40	9.60	0.01
2,4-DB	10.07	10.07	9.97	10.17	0.01
Dinoseb	11.27	11.28	11.18	11.38	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Continuing Calib Date: 12/30/2024 Initial Calibration Date(s): 12/23/2024 12/23/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 11:23 12:59

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.89	7.90	7.80	8.00	0.01
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
Dalapon	2.68	2.67	2.57	2.77	0.00
DICHLORPROP	8.60	8.61	8.51	8.71	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01
2,4,5-T	10.25	10.26	10.16	10.36	0.01
2,4-DB	10.82	10.83	10.73	10.93	0.01
Dinoseb	11.19	11.20	11.10	11.30	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL07 Date Analyzed: 12/30/2024

Lab Sample No.: HSTDCCC750 Data File : PS028853.D Time Analyzed: 12:02

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.494	9.397	9.597	746.270	712.500	4.7
2,4,5-TP(Silvex)	9.203	9.106	9.306	753.330	712.500	5.7
2,4-D	8.329	8.232	8.432	732.860	705.000	4.0
2,4-DB	10.065	9.969	10.169	713.990	712.500	0.2
2,4-DCAA	7.209	7.110	7.310	778.690	750.000	3.8
Dalapon	2.621	2.520	2.720	691.330	682.500	1.3
DICAMBA	7.395	7.297	7.497	746.480	705.000	5.9
DICHLORPROP	8.099	8.002	8.202	734.360	705.000	4.2
Dinoseb	11.271	11.176	11.376	739.130	705.000	4.8



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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/23/2024 12/23/2024

Client Sample No.: CCAL07 Date Analyzed: 12/30/2024

Lab Sample No.: HSTDCCC750 Data File : PS028853.D Time Analyzed: 12:02

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.251	10.160	10.360	652.470	712.500	-8.4
2,4,5-TP(Silvex)	9.833	9.742	9.942	662.660	712.500	-7.0
2,4-D	8.932	8.840	9.040	630.920	705.000	-10.5
2,4-DB	10.816	10.726	10.926	653.250	712.500	-8.3
2,4-DCAA	7.694	7.600	7.800	679.980	750.000	-9.3
Dalapon	2.675	2.574	2.774	626.290	682.500	-8.2
DICAMBA	7.891	7.798	7.998	653.140	705.000	-7.4
DICHLORPROP	8.604	8.512	8.712	653.060	705.000	-7.4
Dinoseb	11.194	11.104	11.304	636.520	705.000	-9.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
 Data File : PS028853.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Dec 2024 12:02
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/31/2024

Supervised By :Ankita Jodhani 12/31/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 01:38:33 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.209	7.694	1761.4E6	765.3E6	778.693	679.982
Target Compounds							
1) T	Dalapon	2.621	2.675	1947.2E6	1232.9E6	691.328	626.289
2) T	3,5-DICHL...	6.384	6.657	2402.1E6	1052.5E6	728.987	634.990
3) T	4-Nitroph...	7.007	7.223	1056.3E6	527.4E6	703.263	630.156
5) T	DICAMBA	7.395	7.891	7360.7E6	3585.6E6	746.476	653.137
6) T	MCPD	7.576	7.994	448.6E6	208.5E6	72.034	63.801
7) T	MCPA	7.725	8.237	610.7E6	290.3E6	69.671	62.656
8) T	DICHLORPROP	8.099	8.604	1948.4E6	901.0E6	734.362	653.056
9) T	2,4-D	8.329	8.932	2088.3E6	910.5E6	732.861	630.920
10) T	Pentachlo...	8.627	9.457	30059.4E6	14543.3E6	769.433	667.164
11) T	2,4,5-TP ...	9.203	9.833	11834.3E6	5953.0E6	753.329	662.657
12) T	2,4,5-T	9.494	10.251	12141.2E6	5682.5E6	746.270	652.471
13) T	2,4-DB	10.065	10.816	2228.8E6	634.4E6	713.991	653.250
14) T	DINOSEB	11.271	11.194	9935.2E6	3920.4E6	739.129	636.520
15) T	Picloram	11.081	12.280	19154.3E6	8261.6E6	714.372	643.479
16) T	DCPA	11.566	12.234	18046.4E6	7168.6E6	750.340m	667.183

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028853.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 12:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

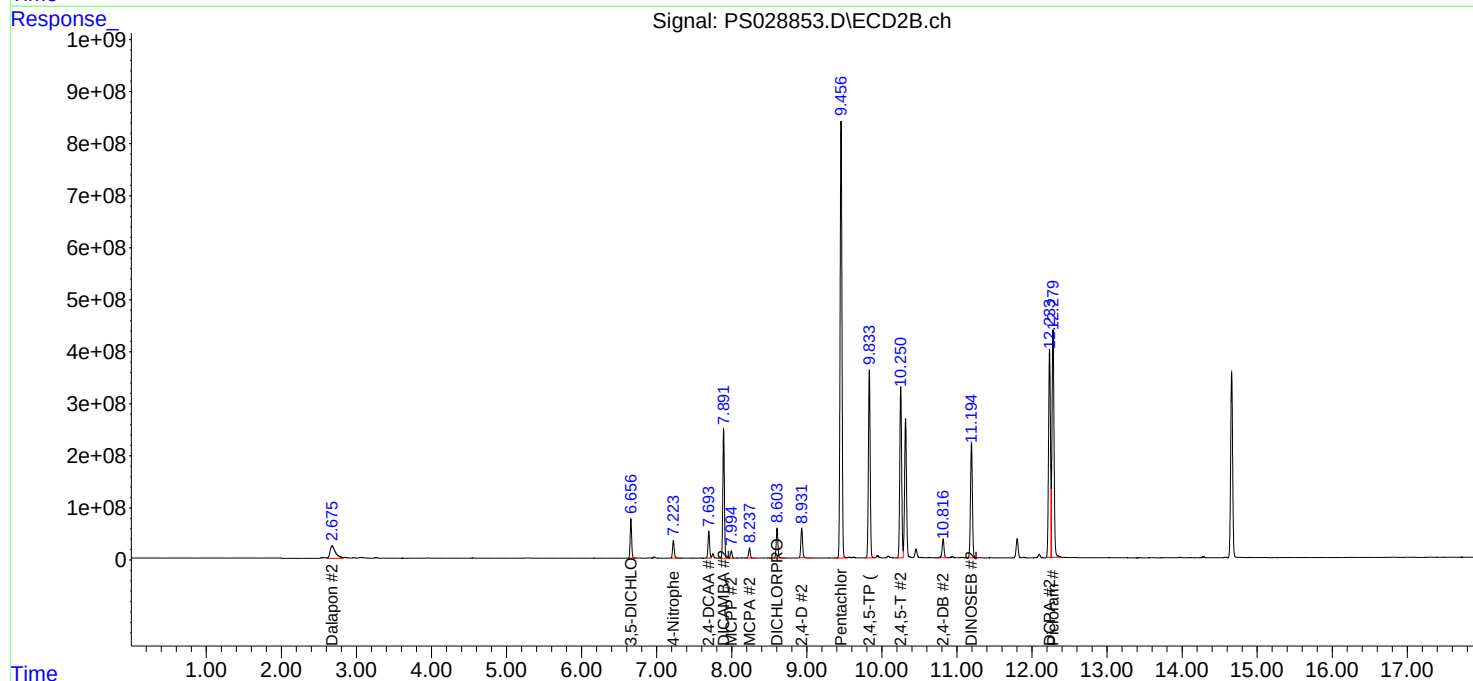
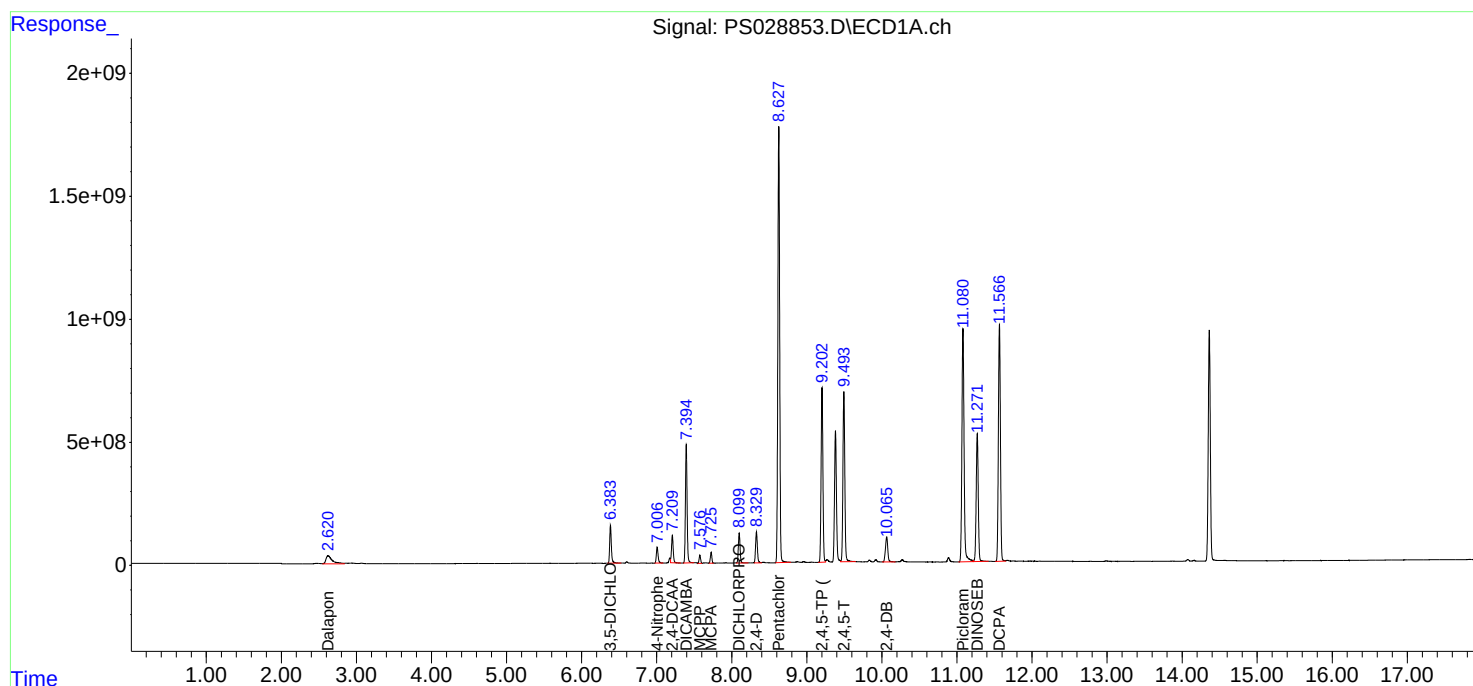
APPROVED

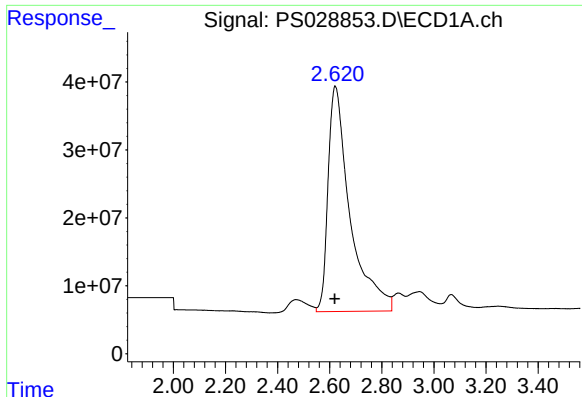
Reviewed By :Yogesh Patel 12/31/2024

Supervised By :Ankita Jodhani 12/31/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:38:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





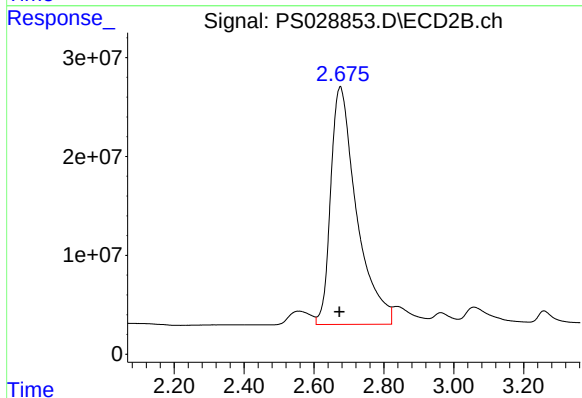
#1 Dalapon

R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1947228944
Conc: 691.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

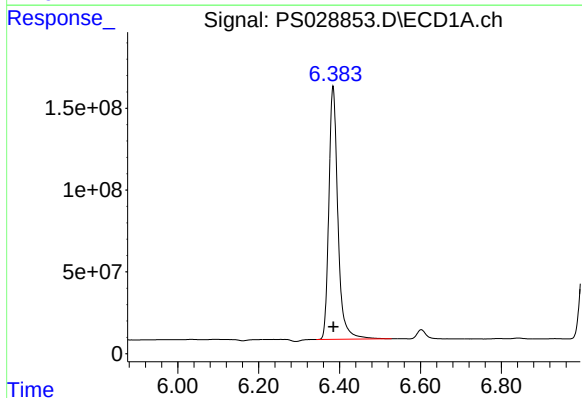
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



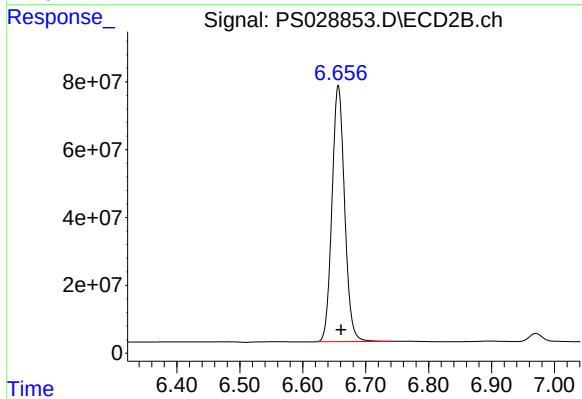
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.003 min
Response: 1232913611
Conc: 626.29 ng/ml



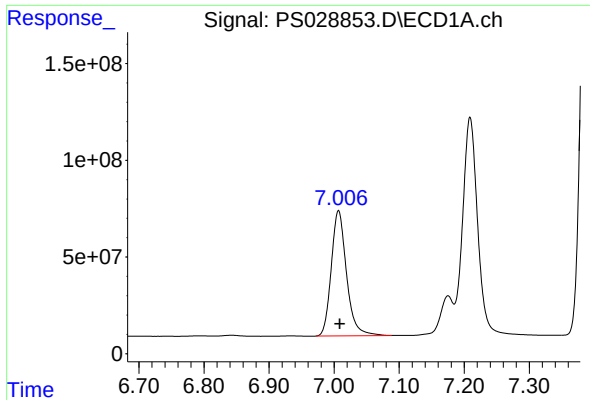
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: -0.001 min
Response: 2402109302
Conc: 728.99 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.657 min
Delta R.T.: -0.004 min
Response: 1052542673
Conc: 634.99 ng/ml



#3 4-Nitrophenol

R.T.: 7.007 min
Delta R.T.: -0.002 min
Response: 1056342376
Conc: 703.26 ng/ml

Instrument :

ECD_S

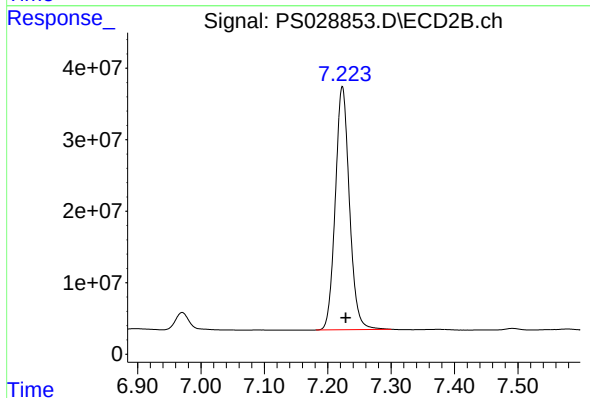
ClientSampleId :

HSTDCCC750

Manual Integrations

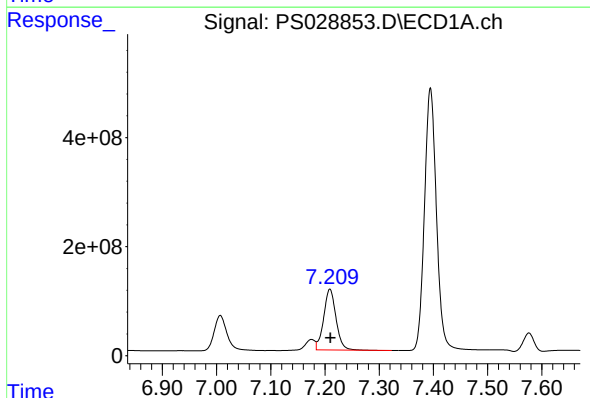
APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



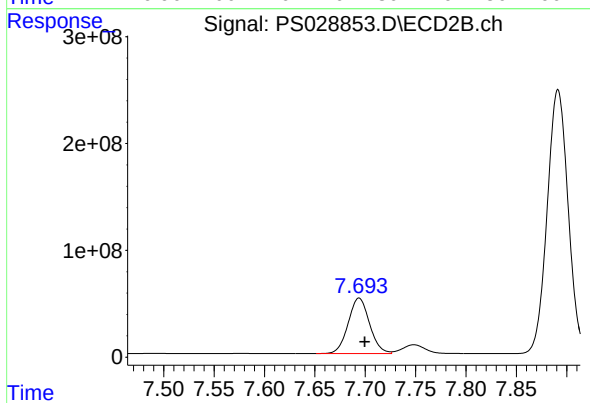
#3 4-Nitrophenol

R.T.: 7.223 min
Delta R.T.: -0.005 min
Response: 527373642
Conc: 630.16 ng/ml



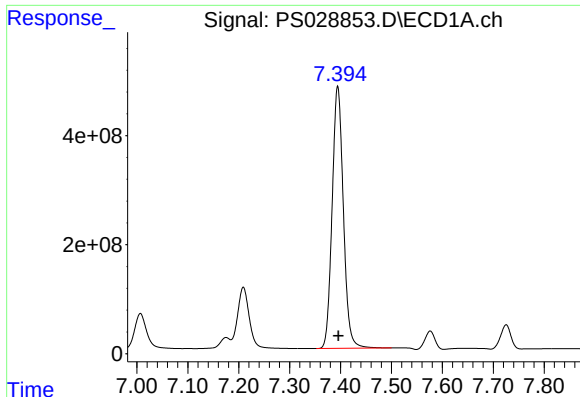
#4 2,4-DCAA

R.T.: 7.209 min
Delta R.T.: 0.000 min
Response: 1761424469
Conc: 778.69 ng/ml



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 765345315
Conc: 679.98 ng/ml



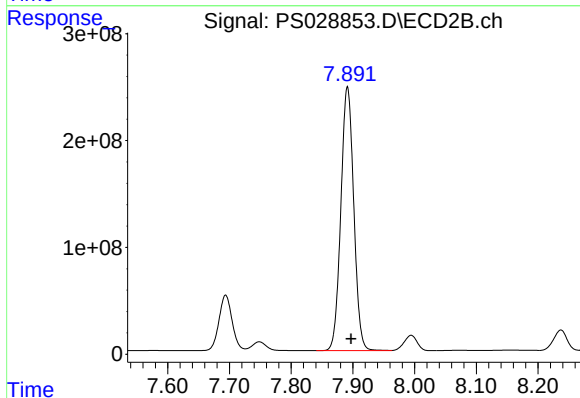
#5 DICAMBA

R.T.: 7.395 min
Delta R.T.: -0.001 min
Response: 7360734749
Conc: 746.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

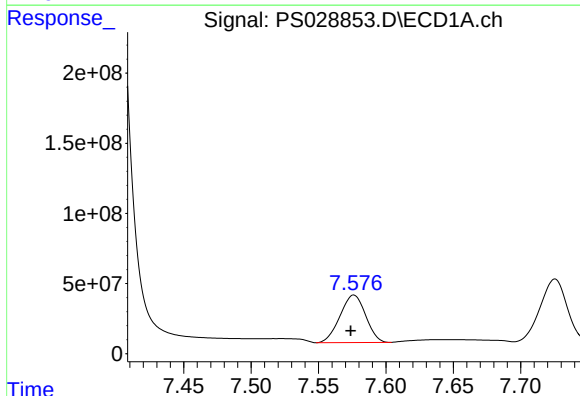
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



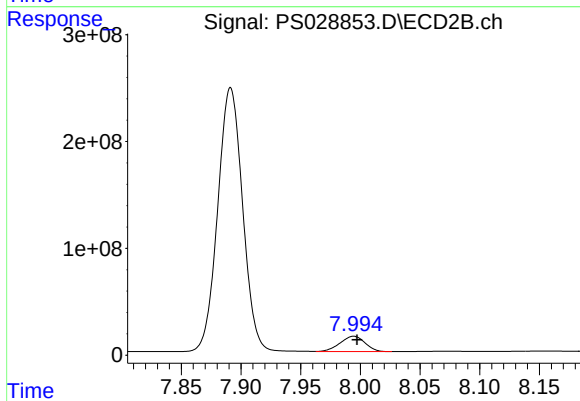
#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.006 min
Response: 3585639545
Conc: 653.14 ng/ml



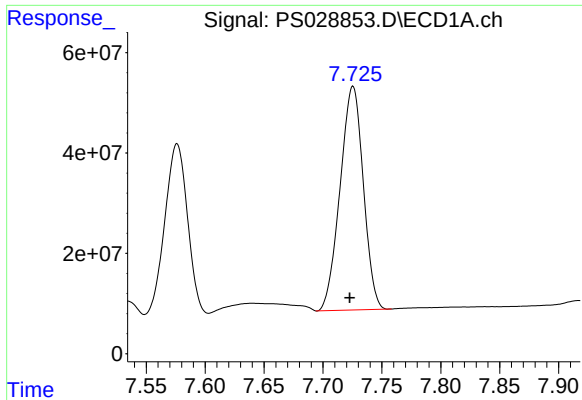
#6 MCPP

R.T.: 7.576 min
Delta R.T.: 0.002 min
Response: 448568724
Conc: 72.03 ug/ml



#6 MCPP

R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 208487575
Conc: 63.80 ug/ml



#7 MCPA

R.T.: 7.725 min
Delta R.T.: 0.003 min
Response: 610700824
Conc: 69.67 ug/ml

Instrument :

ECD_S

ClientSampleId :

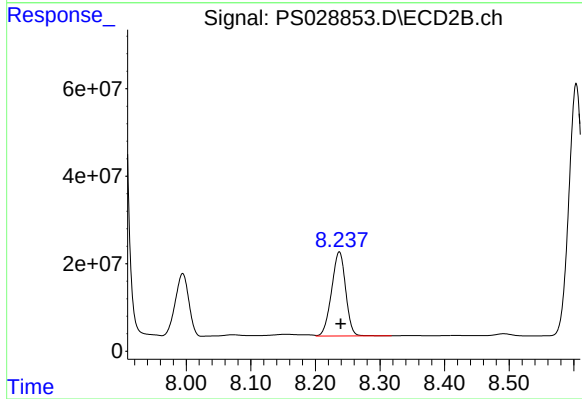
HSTDCCC750

Manual Integrations

APPROVED

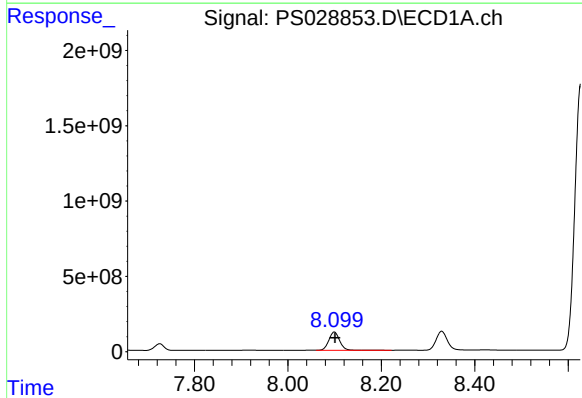
Reviewed By :Yogesh Patel 12/31/2024

Supervised By :Ankita Jodhani 12/31/2024



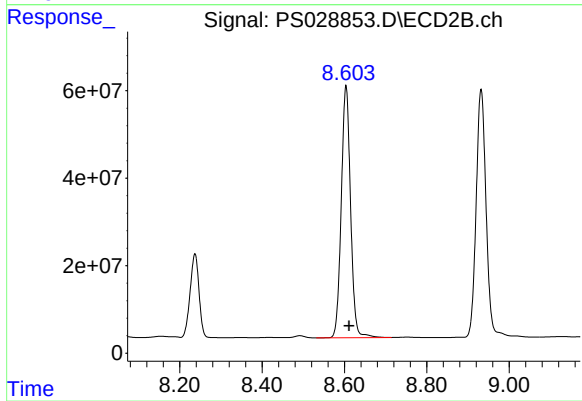
#7 MCPA

R.T.: 8.237 min
Delta R.T.: -0.002 min
Response: 290278880
Conc: 62.66 ug/ml



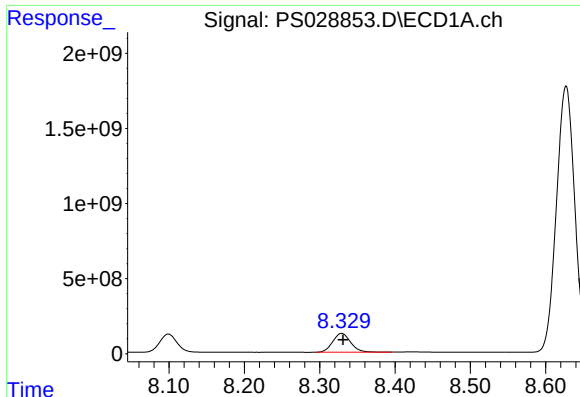
#8 DICHLORPROP

R.T.: 8.099 min
Delta R.T.: -0.002 min
Response: 1948390905
Conc: 734.36 ng/ml



#8 DICHLORPROP

R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 900994262
Conc: 653.06 ng/ml



#9 2,4-D

R.T.: 8.329 min
Delta R.T.: -0.002 min
Response: 2088311006
Conc: 732.86 ng/ml

Instrument :

ECD_S

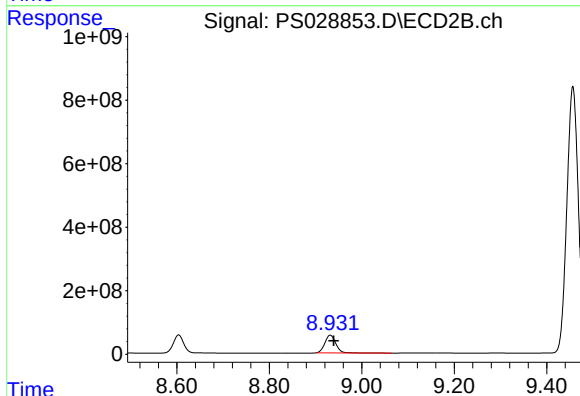
ClientSampleId :

HSTDCCC750

Manual Integrations

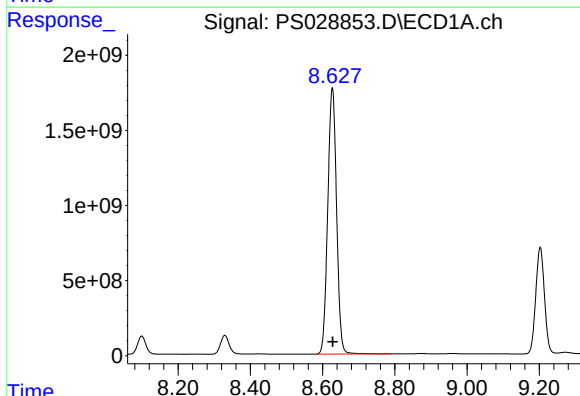
APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



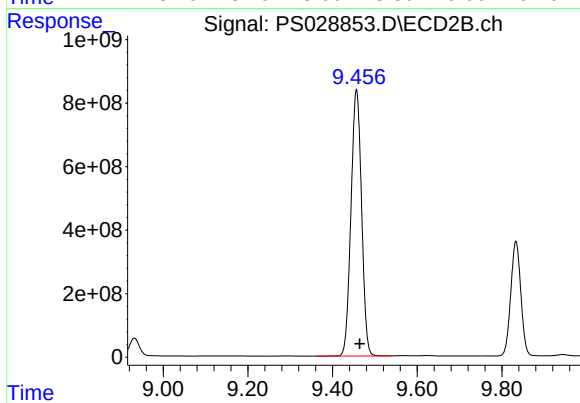
#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 910508990
Conc: 630.92 ng/ml



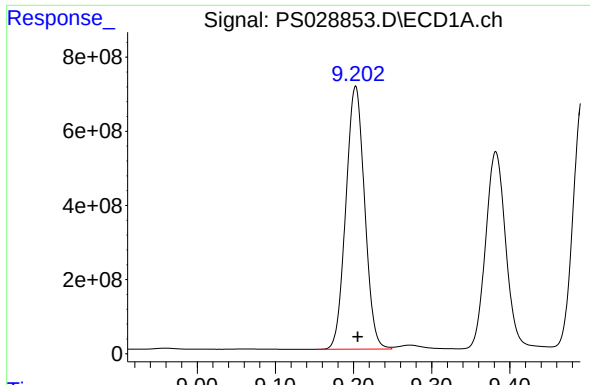
#10 Pentachlorophenol

R.T.: 8.627 min
Delta R.T.: -0.001 min
Response: 30059430980
Conc: 769.43 ng/ml



#10 Pentachlorophenol

R.T.: 9.457 min
Delta R.T.: -0.008 min
Response: 14543319054
Conc: 667.16 ng/ml



#11 2,4,5-TP (SILVEX)

R.T.: 9.203 min
Delta R.T.: -0.003 min
Response: 11834288290
Conc: 753.33 ng/ml

Instrument :

ECD_S

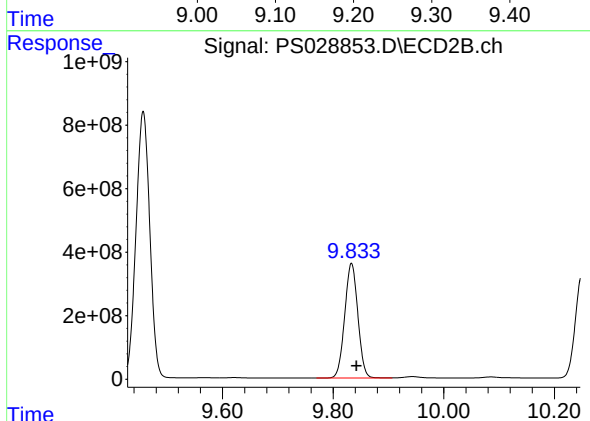
ClientSampleId :

HSTDCCC750

Manual Integrations

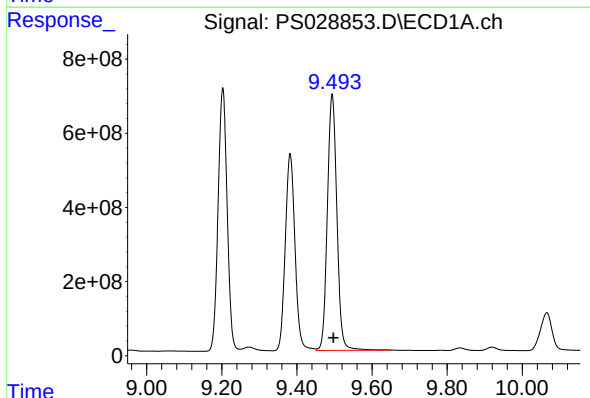
APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



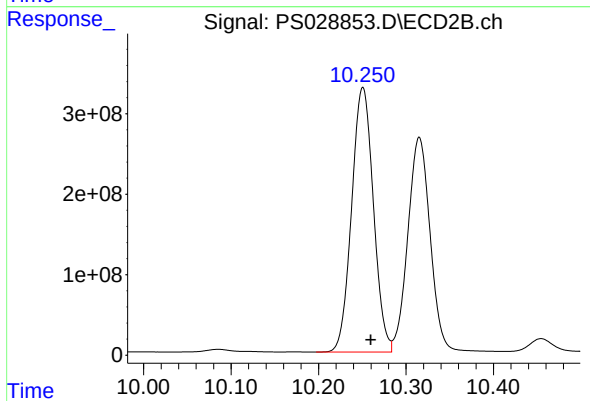
#11 2,4,5-TP (SILVEX)

R.T.: 9.833 min
Delta R.T.: -0.009 min
Response: 5952987470
Conc: 662.66 ng/ml



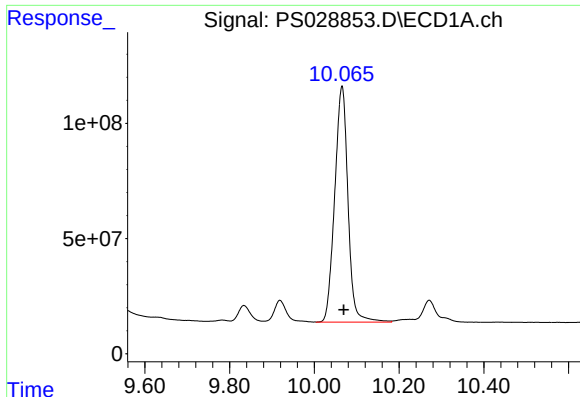
#12 2,4,5-T

R.T.: 9.494 min
Delta R.T.: -0.004 min
Response: 12141203726
Conc: 746.27 ng/ml



#12 2,4,5-T

R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 5682486629
Conc: 652.47 ng/ml



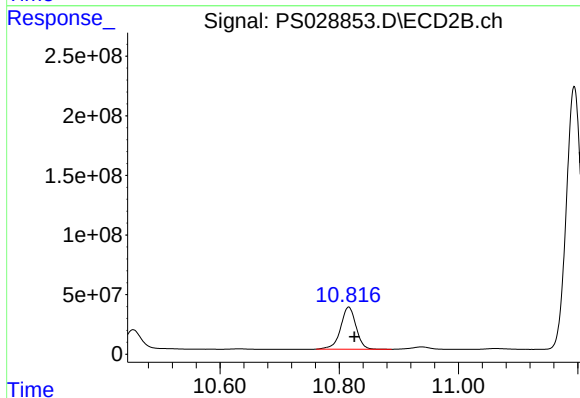
#13 2,4-DB

R.T.: 10.065 min
Delta R.T.: -0.004 min
Response: 2228792066
Conc: 713.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

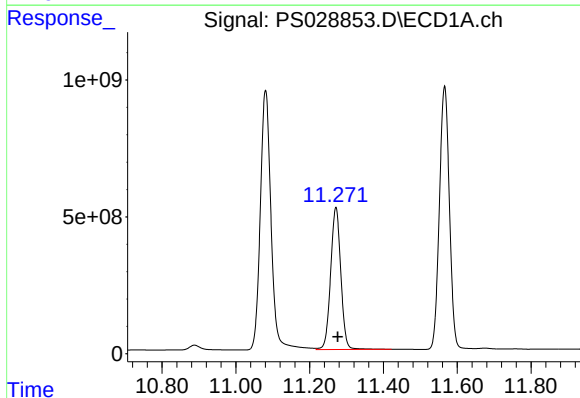
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



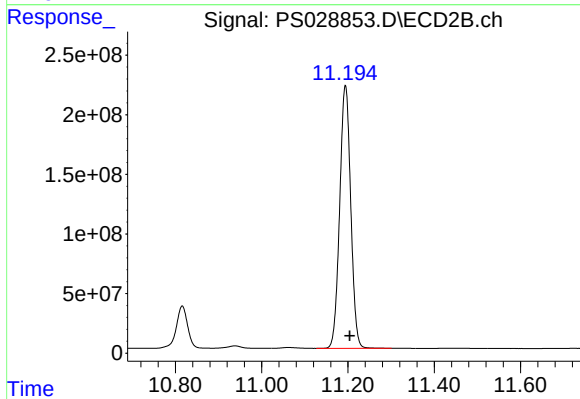
#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.010 min
Response: 634369856
Conc: 653.25 ng/ml



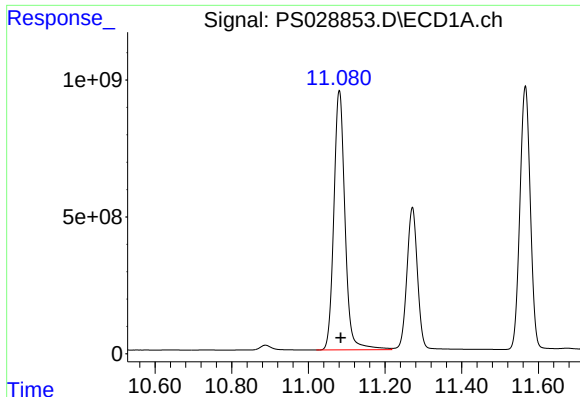
#14 DINOSEB

R.T.: 11.271 min
Delta R.T.: -0.005 min
Response: 9935171683
Conc: 739.13 ng/ml



#14 DINOSEB

R.T.: 11.194 min
Delta R.T.: -0.010 min
Response: 3920417502
Conc: 636.52 ng/ml



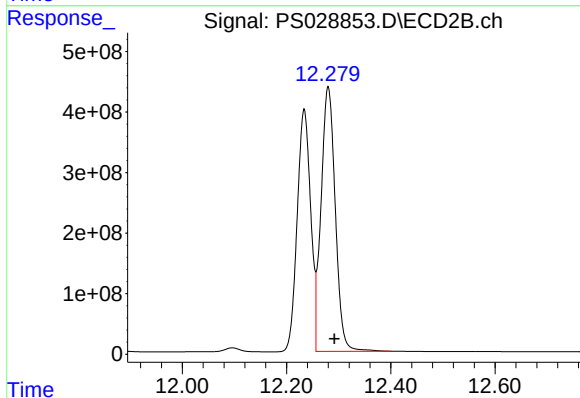
#15 Picloram

R.T.: 11.081 min
Delta R.T.: -0.004 min
Response: 19154286656
Conc: 714.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

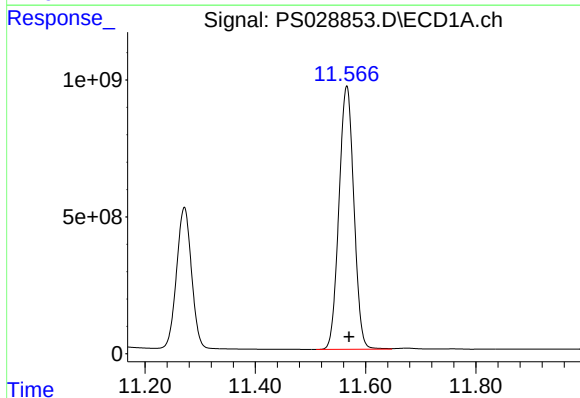
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



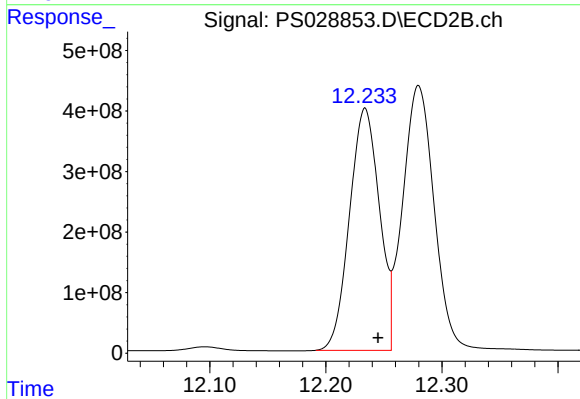
#15 Picloram

R.T.: 12.280 min
Delta R.T.: -0.012 min
Response: 8261640955
Conc: 643.48 ng/ml



#16 DCPA

R.T.: 11.566 min
Delta R.T.: -0.004 min
Response: 18046449696
Conc: 750.34 ng/ml m



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.011 min
Response: 7168597046
Conc: 667.18 ng/ml

Analytical Sequence

Client: Nobis Group	SDG No.: P5306
Project: Raymark Superfund Site	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 12/23/2024 12/23/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	12/23/2024	11:00	PS028786.D	7.21	0.00
HSTDICC200	HSTDICC200	12/23/2024	11:23	PS028787.D	7.21	0.00
HSTDICC500	HSTDICC500	12/23/2024	11:47	PS028788.D	7.21	0.00
HSTDICC750	HSTDICC750	12/23/2024	12:11	PS028789.D	7.21	0.00
HSTDICC1000	HSTDICC1000	12/23/2024	12:35	PS028790.D	7.21	0.00
HSTDICC1500	HSTDICC1500	12/23/2024	12:59	PS028791.D	7.21	0.00
IBLK	IBLK	12/23/2024	13:47	PS028793.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/23/2024	14:11	PS028794.D	7.21	0.00
PB165776BL	PB165776BL	12/23/2024	15:22	PS028797.D	7.21	0.00
PB165776BS	PB165776BS	12/23/2024	15:46	PS028798.D	7.21	0.00
IBLK	IBLK	12/23/2024	16:10	PS028799.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/23/2024	16:34	PS028800.D	7.21	0.00
OU4-VSL-07-121224	P5306-01	12/23/2024	16:58	PS028801.D	7.21	0.00
OU4-VSL-08-121224	P5306-03	12/23/2024	17:22	PS028802.D	7.21	0.00
OU4-VSL-09-121224	P5306-05	12/23/2024	17:46	PS028803.D	7.21	0.00
OU4-VSL-10-121224	P5306-07	12/23/2024	18:10	PS028804.D	7.21	0.00
OU4-VSL-11-121224	P5306-09	12/23/2024	18:33	PS028805.D	7.21	0.00
OU4-VSL-12-121224	P5306-11	12/23/2024	18:57	PS028806.D	7.21	0.00
IBLK	IBLK	12/23/2024	20:33	PS028810.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/23/2024	20:57	PS028811.D	7.21	0.00
IBLK	IBLK	12/26/2024	10:43	PS028819.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/26/2024	11:07	PS028820.D	7.21	0.00
OU4-VSL-13-121224	P5306-13	12/26/2024	17:05	PS028821.D	7.21	0.00
OU4-VSL-14-121224MS	P5306-15MS	12/26/2024	17:29	PS028822.D	7.21	0.00
OU4-VSL-14-121224MSD	P5306-15MSD	12/26/2024	17:52	PS028823.D	7.21	0.00
IBLK	IBLK	12/26/2024	18:16	PS028824.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/26/2024	18:40	PS028825.D	7.21	0.00
IBLK	IBLK	12/30/2024	09:05	PS028848.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/30/2024	10:25	PS028849.D	7.21	0.00
OU4-VSL-14-121224	P5306-15	12/30/2024	11:14	PS028851.D	7.21	0.00
IBLK	IBLK	12/30/2024	11:38	PS028852.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/30/2024	12:02	PS028853.D	7.21	0.00

Analytical Sequence

Client: Nobis Group	SDG No.: P5306
Project: Raymark Superfund Site	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 12/23/2024 12/23/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	12/23/2024	11:00	PS028786.D	7.70	0.00
HSTDICC200	HSTDICC200	12/23/2024	11:23	PS028787.D	7.70	0.00
HSTDICC500	HSTDICC500	12/23/2024	11:47	PS028788.D	7.70	0.00
HSTDICC750	HSTDICC750	12/23/2024	12:11	PS028789.D	7.70	0.00
HSTDICC1000	HSTDICC1000	12/23/2024	12:35	PS028790.D	7.70	0.00
HSTDICC1500	HSTDICC1500	12/23/2024	12:59	PS028791.D	7.70	0.00
IBLK	IBLK	12/23/2024	13:47	PS028793.D	7.70	0.00
HSTDCCC750	HSTDCCC750	12/23/2024	14:11	PS028794.D	7.70	0.00
PB165776BL	PB165776BL	12/23/2024	15:22	PS028797.D	7.70	0.00
PB165776BS	PB165776BS	12/23/2024	15:46	PS028798.D	7.70	0.00
IBLK	IBLK	12/23/2024	16:10	PS028799.D	7.70	0.00
HSTDCCC750	HSTDCCC750	12/23/2024	16:34	PS028800.D	7.70	0.00
OU4-VSL-07-121224	P5306-01	12/23/2024	16:58	PS028801.D	7.70	0.00
OU4-VSL-08-121224	P5306-03	12/23/2024	17:22	PS028802.D	7.70	0.00
OU4-VSL-09-121224	P5306-05	12/23/2024	17:46	PS028803.D	7.70	0.00
OU4-VSL-10-121224	P5306-07	12/23/2024	18:10	PS028804.D	7.70	0.00
OU4-VSL-11-121224	P5306-09	12/23/2024	18:33	PS028805.D	7.70	0.00
OU4-VSL-12-121224	P5306-11	12/23/2024	18:57	PS028806.D	7.70	0.00
IBLK	IBLK	12/23/2024	20:33	PS028810.D	7.70	0.00
HSTDCCC750	HSTDCCC750	12/23/2024	20:57	PS028811.D	7.70	0.00
IBLK	IBLK	12/26/2024	10:43	PS028819.D	7.70	0.00
HSTDCCC750	HSTDCCC750	12/26/2024	11:07	PS028820.D	7.70	0.00
OU4-VSL-13-121224	P5306-13	12/26/2024	17:05	PS028821.D	7.69	0.00
OU4-VSL-14-121224MS	P5306-15MS	12/26/2024	17:29	PS028822.D	7.70	0.00
OU4-VSL-14-121224MSD	P5306-15MSD	12/26/2024	17:52	PS028823.D	7.70	0.00
IBLK	IBLK	12/26/2024	18:16	PS028824.D	7.70	0.00
HSTDCCC750	HSTDCCC750	12/26/2024	18:40	PS028825.D	7.70	0.00
IBLK	IBLK	12/30/2024	09:05	PS028848.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/30/2024	10:25	PS028849.D	7.69	0.00
OU4-VSL-14-121224	P5306-15	12/30/2024	11:14	PS028851.D	7.69	0.00
IBLK	IBLK	12/30/2024	11:38	PS028852.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/30/2024	12:02	PS028853.D	7.69	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-VSL-14-121224MS

Contract: NOBI03

Lab Code: CHEM Case No.: P5306

SAS No.: P5306 SDG NO.: P5306

Lab Sample ID: P5306-15MS

Date(s) Analyzed: 12/26/2024 12/26/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm)

GC Column: (2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	9.49	9.44	9.54	110	12.2
	2	10.25	10.20	10.30	97.4	
2,4,5-TP(Silvex)	1	9.20	9.15	9.25	91.3	10.9
	2	9.84	9.79	9.89	81.9	
Dalapon	1	2.62	2.57	2.67	114	13.1
	2	2.67	2.62	2.72	130	
2,4-D	1	8.33	8.28	8.38	159	13.4
	2	8.93	8.88	8.98	139	
2,4-DB	1	10.06	10.01	10.11	64.6	18.4
	2	10.82	10.77	10.87	77.7	
DICHLORPROP	1	8.10	8.05	8.15	112	13.2
	2	8.61	8.56	8.66	98.1	
Dinoseb	1	11.27	11.22	11.32	25.5	37.8
	2	11.20	11.15	11.25	17.4	
DICAMBA	1	7.39	7.34	7.44	143	11.1
	2	7.89	7.84	7.94	128	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-VSL-14-121224MSD

Contract: NOBI03

Lab Code: CHEM Case No.: P5306

SAS No.: P5306 SDG NO.: P5306

Lab Sample ID: P5306-15MSD

Date(s) Analyzed: 12/26/2024 12/26/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm)

GC Column: (2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Dalapon	1	2.62	2.57	2.67	118	14.9
	2	2.68	2.63	2.73	137	
DICHLORPROP	1	8.10	8.05	8.15	112	13.5
	2	8.61	8.56	8.66	97.8	
2,4-D	1	8.33	8.28	8.38	163	14.5
	2	8.93	8.88	8.98	141	
2,4,5-TP(Silvex)	1	9.20	9.15	9.25	90.9	10.4
	2	9.84	9.79	9.89	81.9	
2,4,5-T	1	9.49	9.44	9.54	114	13.9
	2	10.25	10.20	10.30	99.2	
2,4-DB	1	10.06	10.01	10.11	64.6	18.5
	2	10.82	10.77	10.87	77.8	
Dinoseb	1	11.27	11.22	11.32	26.0	39.1
	2	11.20	11.15	11.25	17.5	
DICAMBA	1	7.39	7.34	7.44	142	10.4
	2	7.89	7.84	7.94	128	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165776BS

Contract: NOBI03

Lab Code: CHEM Case No.: P5306

SAS No.: P5306 SDG NO.: P5306

Lab Sample ID: PB165776BS

Date(s) Analyzed: 12/23/2024 12/23/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm)

GC Column: (2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Dalapon	1	2.62	2.57	2.67	161	3.8
	2	2.68	2.63	2.73	155	
DICHLORPROP	1	8.10	8.05	8.15	171	5.4
	2	8.61	8.56	8.66	162	
2,4-D	1	8.33	8.28	8.38	171	6
	2	8.94	8.89	8.99	161	
2,4,5-TP(Silvex)	1	9.20	9.15	9.25	174	6.5
	2	9.84	9.79	9.89	163	
2,4,5-T	1	9.50	9.45	9.55	174	6.5
	2	10.26	10.21	10.31	163	
2,4-DB	1	10.07	10.02	10.12	165	1.8
	2	10.83	10.78	10.88	162	
Dinoseb	1	11.27	11.22	11.32	171	7.3
	2	11.20	11.15	11.25	159	
DICAMBA	1	7.40	7.35	7.45	171	6.6
	2	7.90	7.85	7.95	160	



QC SAMPLE DATA

- 1
- 2
- 3
- 4
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- 19
- 20

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	PB165776BL	SDG No.:	P5306
Lab Sample ID:	PB165776BL	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028797.D	1	12/20/24 08:20	12/23/24 15:22	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.033	U	0.0087	0.033	0.067	mg/Kg
75-99-0	DALAPON	0.050	U	0.025	0.050	0.067	mg/Kg
120-36-5	DICHLORPROP	0.033	U	0.0095	0.033	0.067	mg/Kg
94-75-7	2,4-D	0.033	U	0.012	0.033	0.067	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.033	U	0.0094	0.033	0.067	mg/Kg
93-76-5	2,4,5-T	0.033	U	0.010	0.033	0.067	mg/Kg
94-82-6	2,4-DB	0.033	U	0.018	0.033	0.067	mg/Kg
88-85-7	DINOSEB	0.050	U	0.012	0.050	0.067	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	558		27 - 122		112%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028797.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 15:22
Operator : AR\AJ
Sample : PB165776BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165776BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 15:43:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.209	7.699	1262.7E6	575.0E6	558.232	510.859

Target Compounds

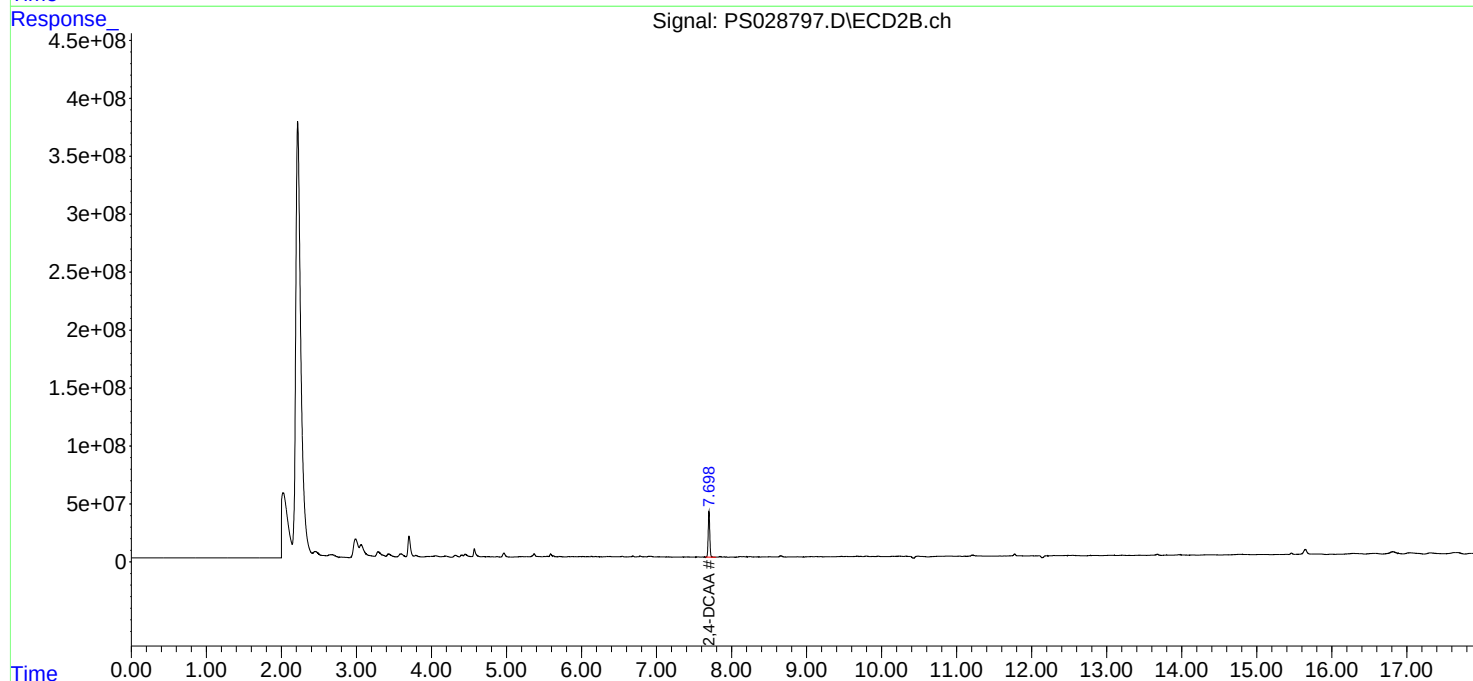
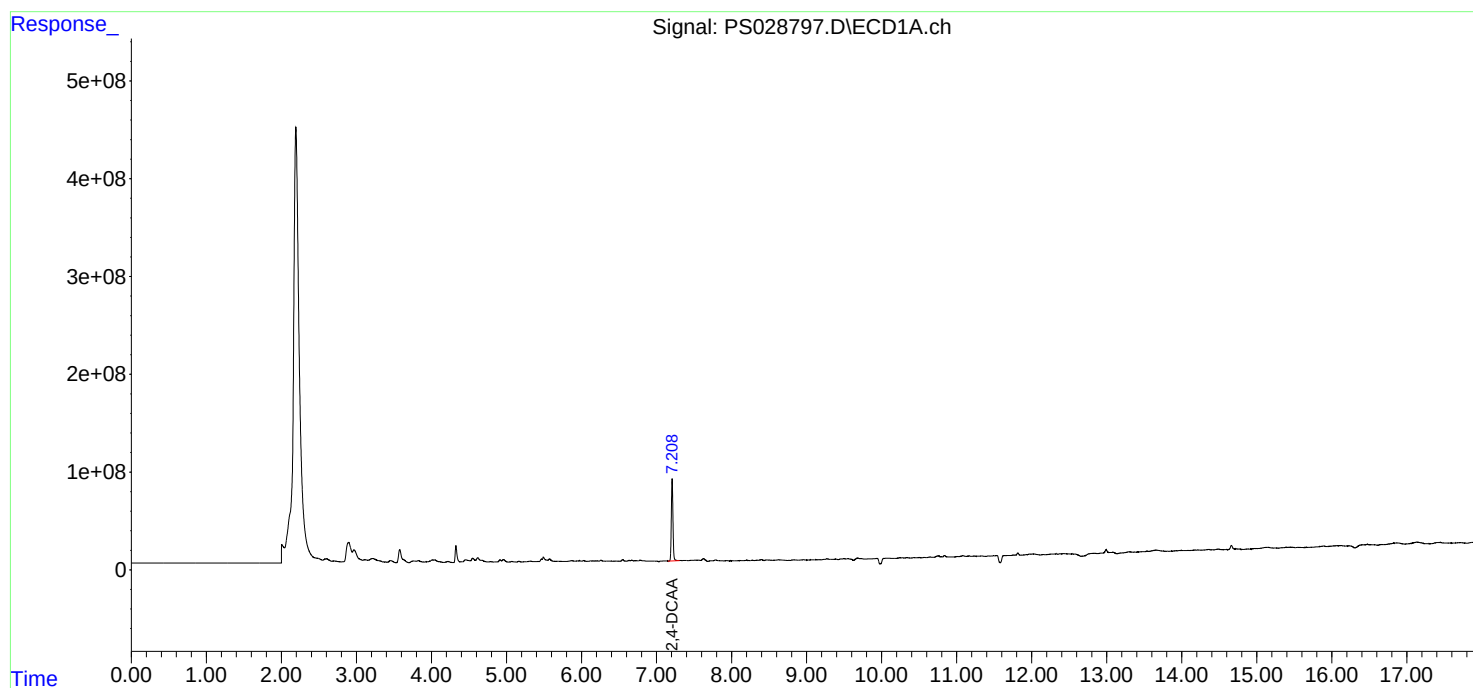
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028797.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 15:22
Operator : AR\AJ
Sample : PB165776BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165776BL

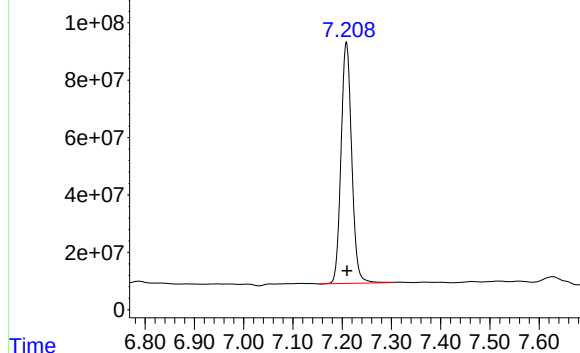
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 15:43:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Signal: PS028797.D\ECD1A.ch

#4 2,4-DCAA

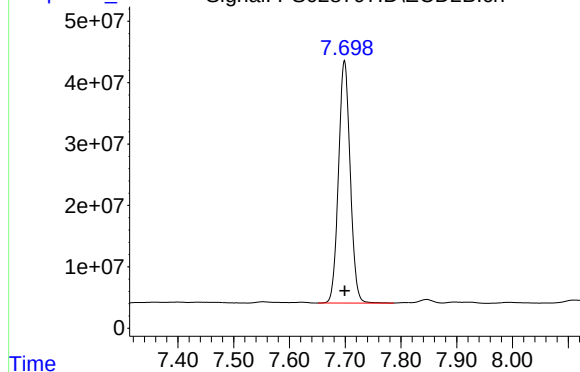


R.T.: 7.209 min
Delta R.T.: -0.001 min
Response: 1262735925
Conc: 558.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BL

Signal: PS028797.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 574991297
Conc: 510.86 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	12/23/24
Project:	Raymark Superfund Site	Date Received:	12/23/24
Client Sample ID:	PIBLK-PS028786.D	SDG No.:	P5306
Lab Sample ID:	I.BLK-PS028786.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028786.D	1		12/23/24	PS122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	482		32 - 138		96%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028786.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:00
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:45:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.210	7.700	1061.6E6	542.0E6	469.322	481.551

Target Compounds

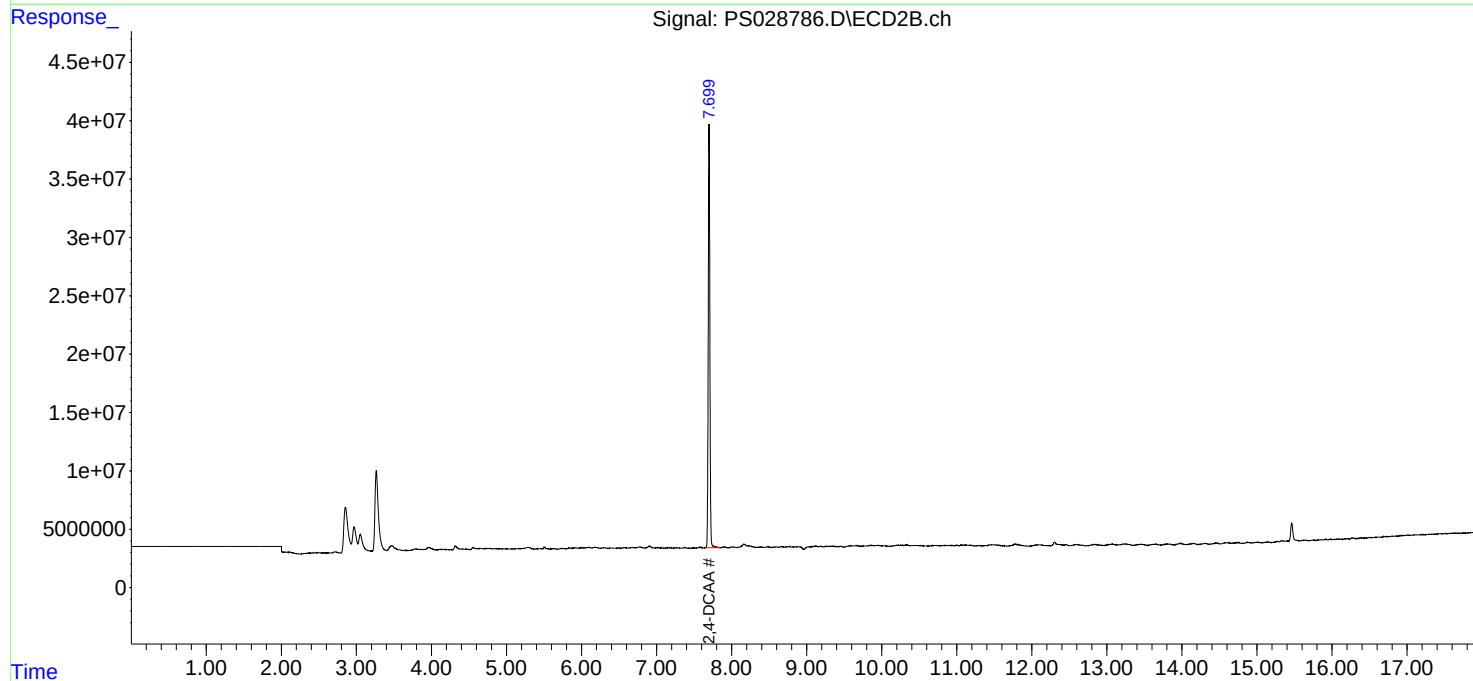
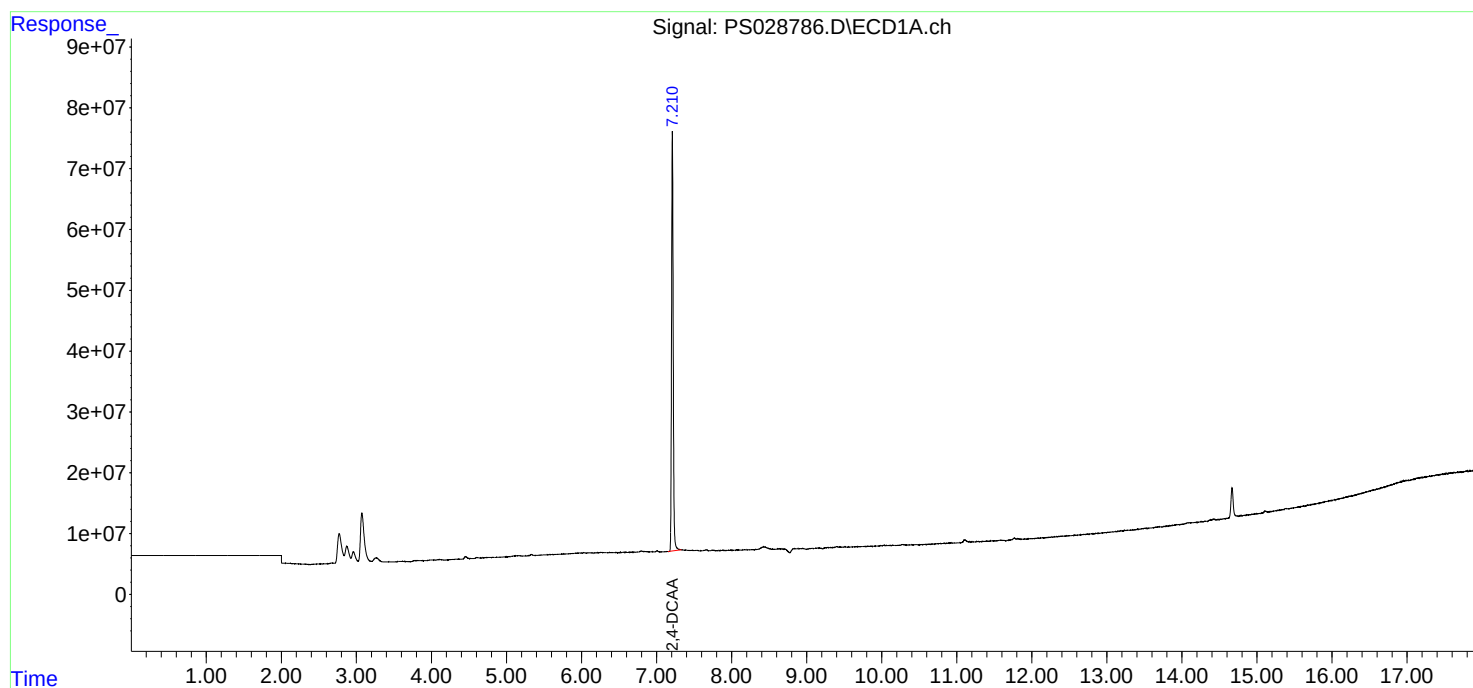
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028786.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:00
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

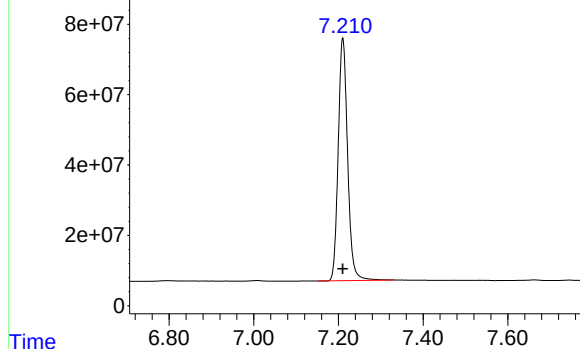
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:45:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Signal: PS028786.D\ECD1A.ch

#4 2,4-DCAA

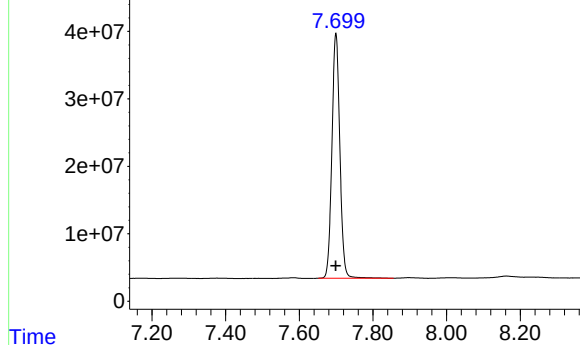


R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1061618688
Conc: 469.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028786.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 542003820
Conc: 481.55 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	12/23/24
Project:	Raymark Superfund Site	Date Received:	12/23/24
Client Sample ID:	PIBLK-PS028793.D	SDG No.:	P5306
Lab Sample ID:	I.BLK-PS028793.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028793.D	1		12/23/24	PS122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	510		32 - 138		102%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028793.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 13:47
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 14:44:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.210	7.700	1153.9E6	549.1E6	510.113	487.862

Target Compounds

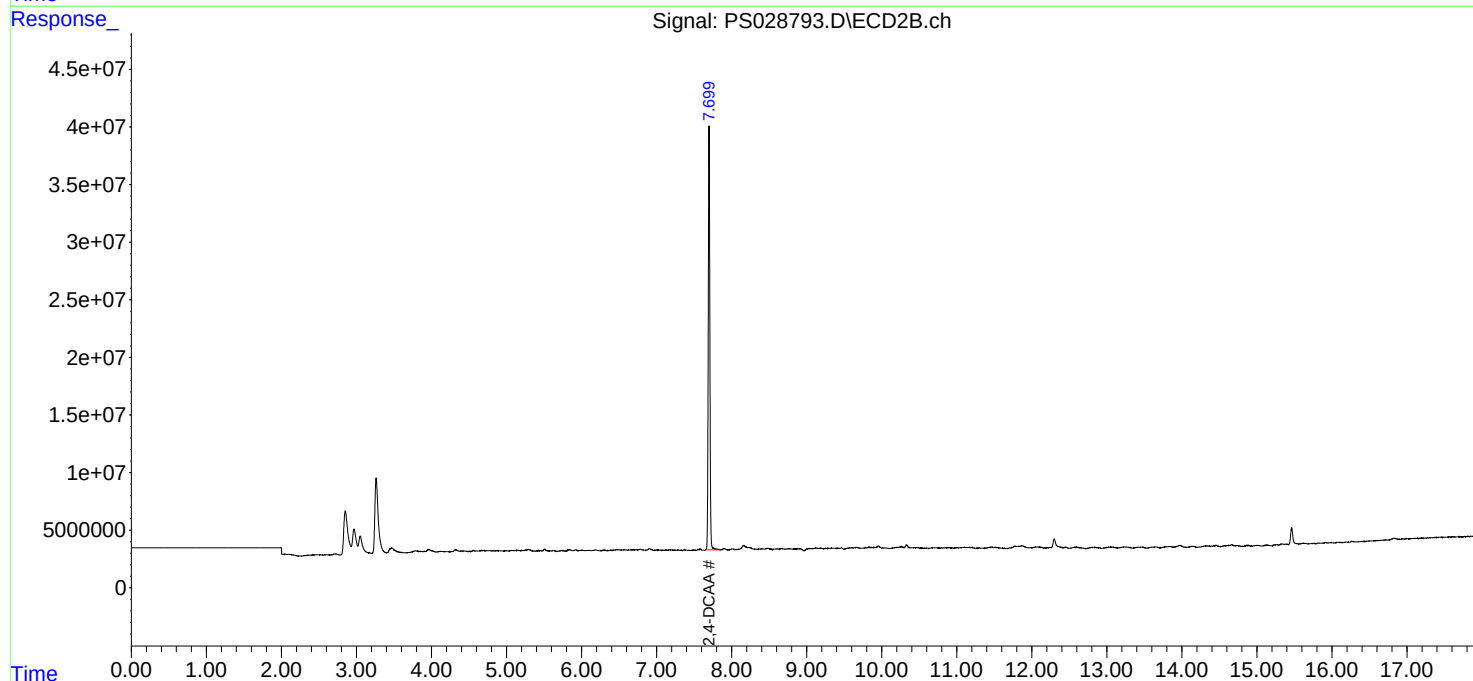
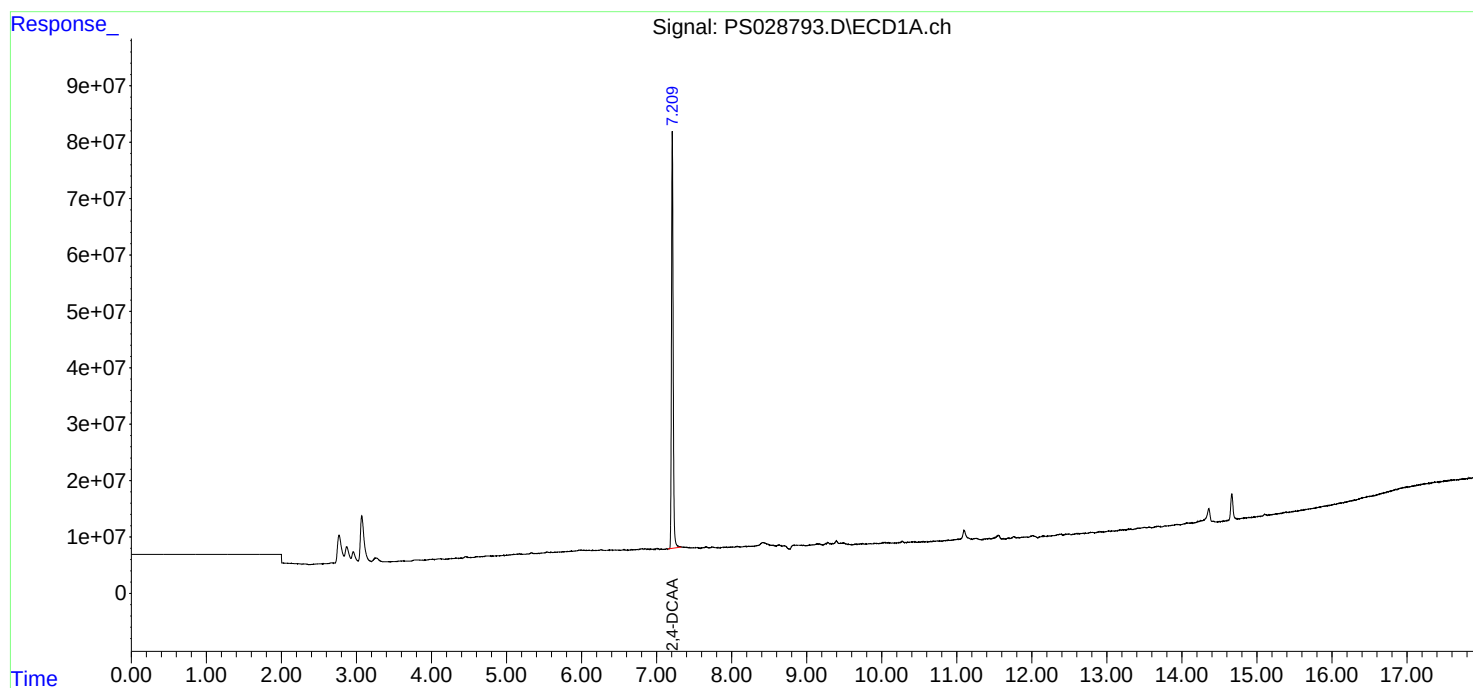
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028793.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 13:47
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 14:44:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_

Signal: PS028793.D\ECD1A.ch

#4 2,4-DCAA

R.T.: 7.210 min

Delta R.T.: 0.000 min

Response: 1153889362

Conc: 510.11 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK

8e+07

6e+07

4e+07

2e+07

0

7.209

Time

6.80 7.00 7.20 7.40 7.60

Response_

Signal: PS028793.D\ECD2B.ch

#4 2,4-DCAA

R.T.: 7.700 min

Delta R.T.: 0.000 min

Response: 549106840

Conc: 487.86 ng/ml

4e+07

3e+07

2e+07

1e+07

0

7.699

Time

7.20 7.40 7.60 7.80 8.00 8.20

Report of Analysis

Client:	Nobis Group	Date Collected:	12/23/24
Project:	Raymark Superfund Site	Date Received:	12/23/24
Client Sample ID:	PIBLK-PS028799.D	SDG No.:	P5306
Lab Sample ID:	I.BLK-PS028799.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028799.D	1		12/23/24	PS122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	525		32 - 138		105%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028799.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 16:10
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:25:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.209	7.699	1188.4E6	556.2E6	525.365	494.202

Target Compounds

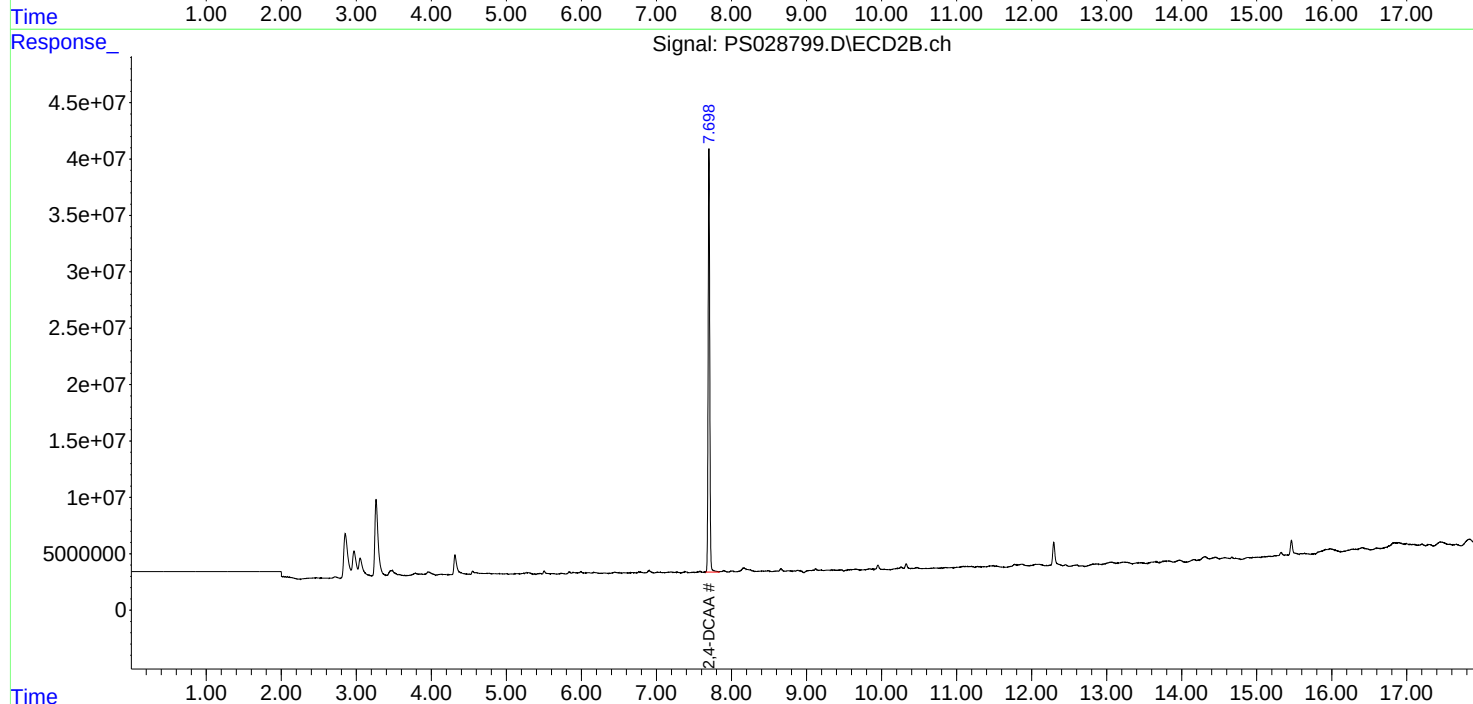
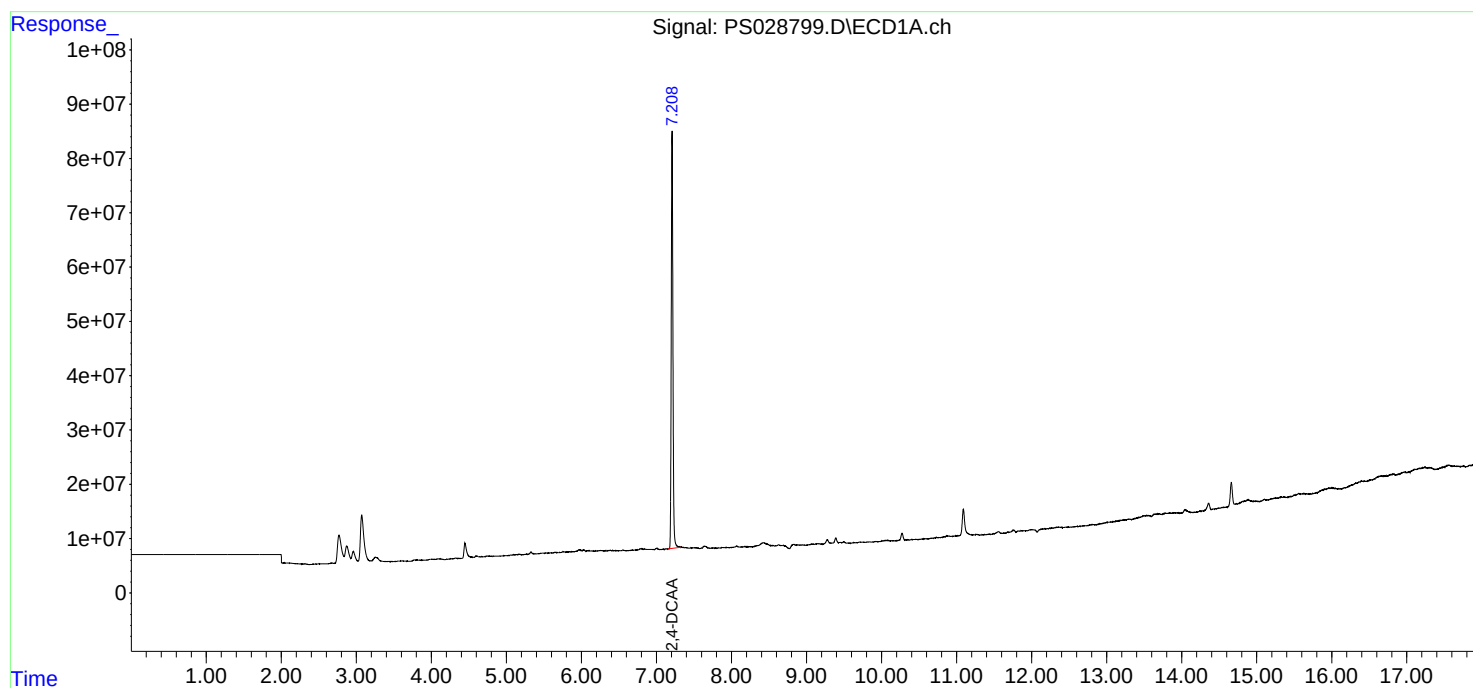
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028799.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 16:10
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:25:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response

Signal: PS028799.D\ECD1A.ch

#4 2,4-DCAA

R.T.: 7.209 min

Delta R.T.: -0.001 min

Response: 1188387984

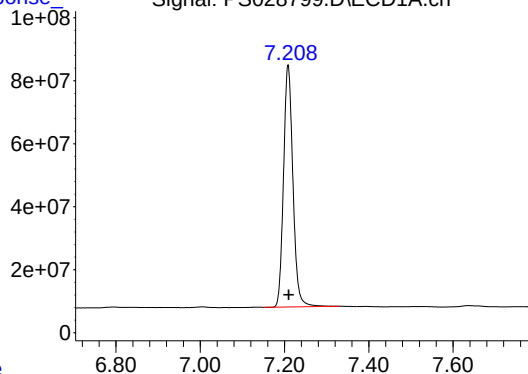
Conc: 525.36 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



Time

Response_

Signal: PS028799.D\ECD2B.ch

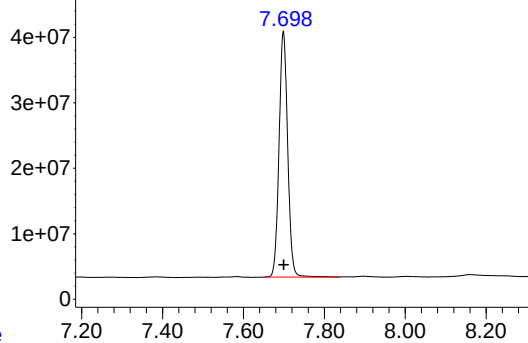
#4 2,4-DCAA

R.T.: 7.699 min

Delta R.T.: 0.000 min

Response: 556242707

Conc: 494.20 ng/ml



Time

Report of Analysis

Client:	Nobis Group	Date Collected:	12/23/24
Project:	Raymark Superfund Site	Date Received:	12/23/24
Client Sample ID:	PIBLK-PS028810.D	SDG No.:	P5306
Lab Sample ID:	I.BLK-PS028810.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028810.D	1		12/23/24	PS122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	536		32 - 138		107%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028810.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 20:33
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:26:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.207	7.696	1212.4E6	563.2E6	535.966	500.392

Target Compounds

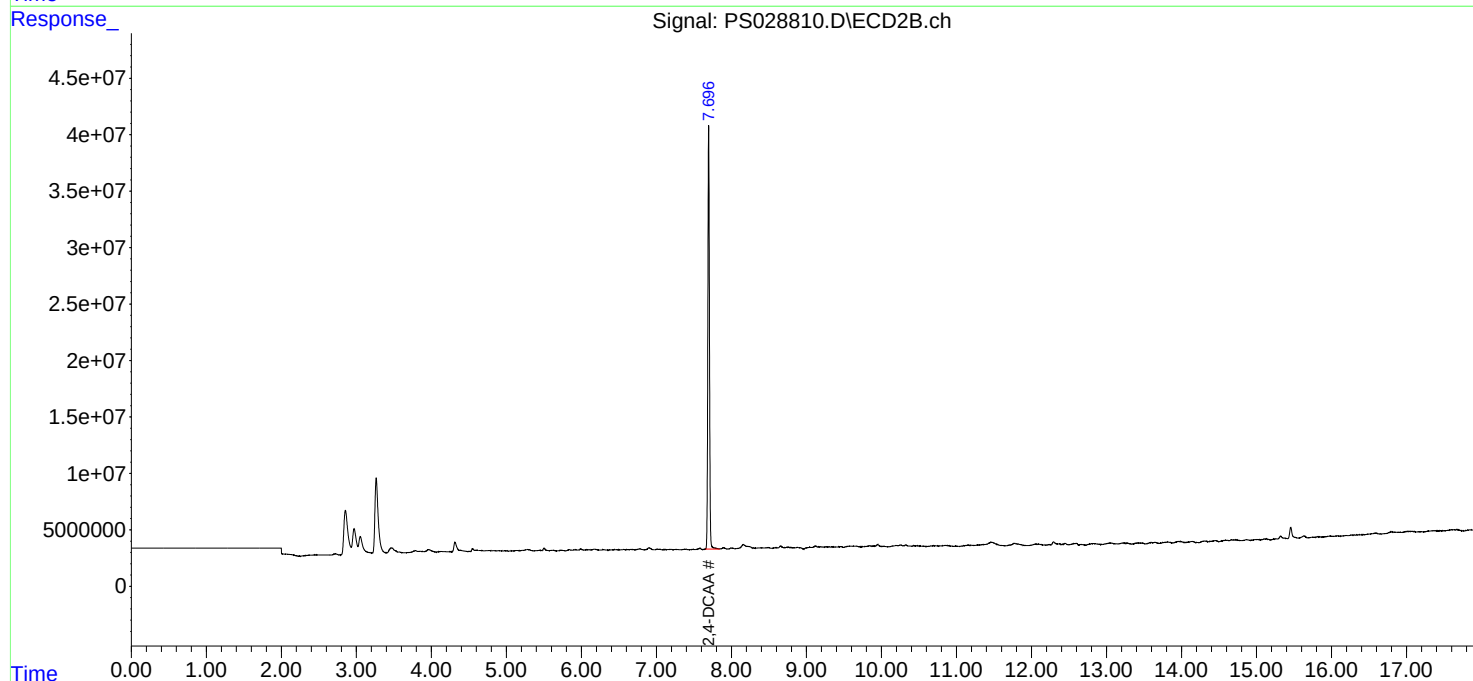
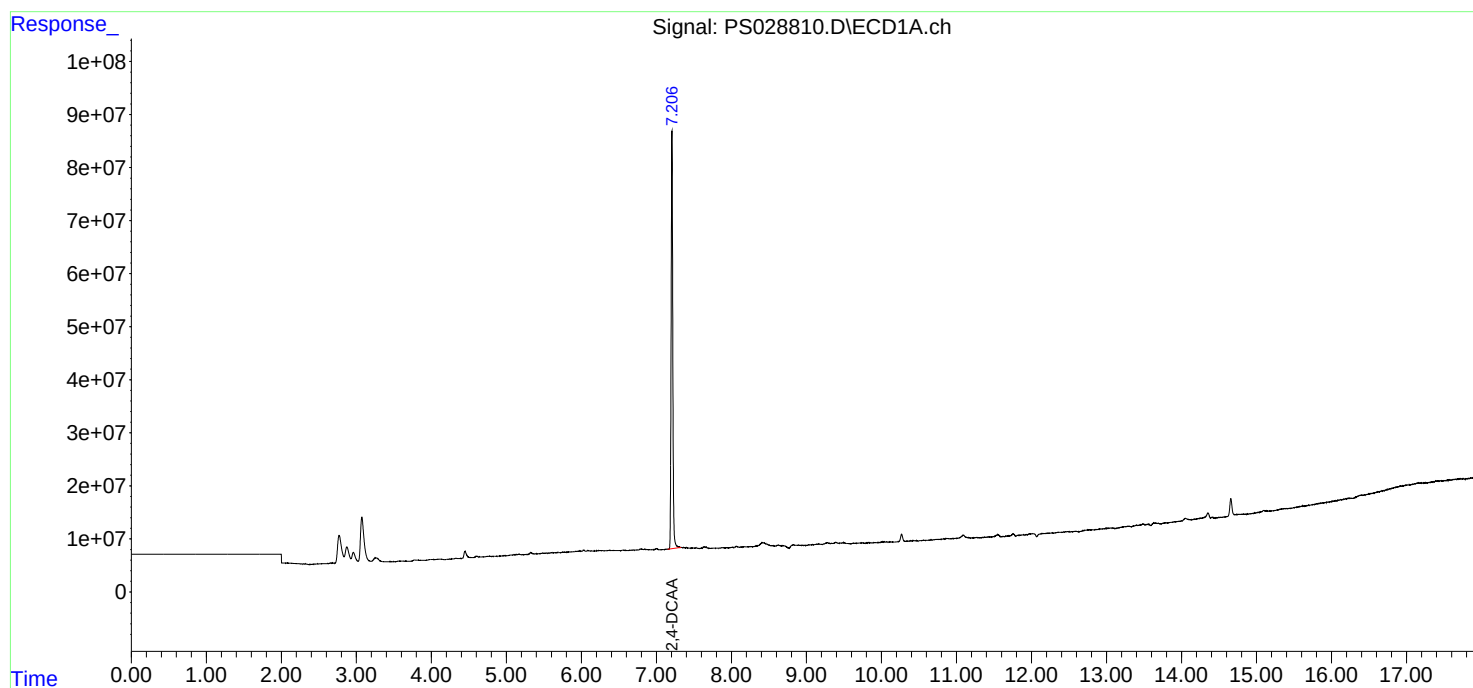
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028810.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 20:33
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

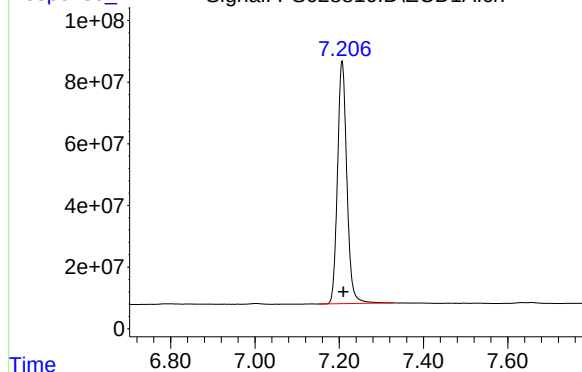
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:26:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Signal: PS028810.D\ECD1A.ch

#4 2,4-DCAA

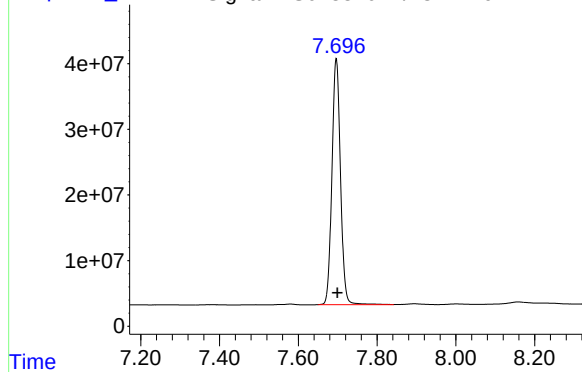


R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 1212369895
Conc: 535.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028810.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.696 min
Delta R.T.: -0.003 min
Response: 563209965
Conc: 500.39 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	12/26/24
Project:	Raymark Superfund Site	Date Received:	12/26/24
Client Sample ID:	PIBLK-PS028819.D	SDG No.:	P5306
Lab Sample ID:	I.BLK-PS028819.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028819.D	1		12/26/24	ps122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	566		32 - 138		113%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028819.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 10:43
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:41:05 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.206	7.695	1280.8E6	567.1E6	566.218	503.857

Target Compounds

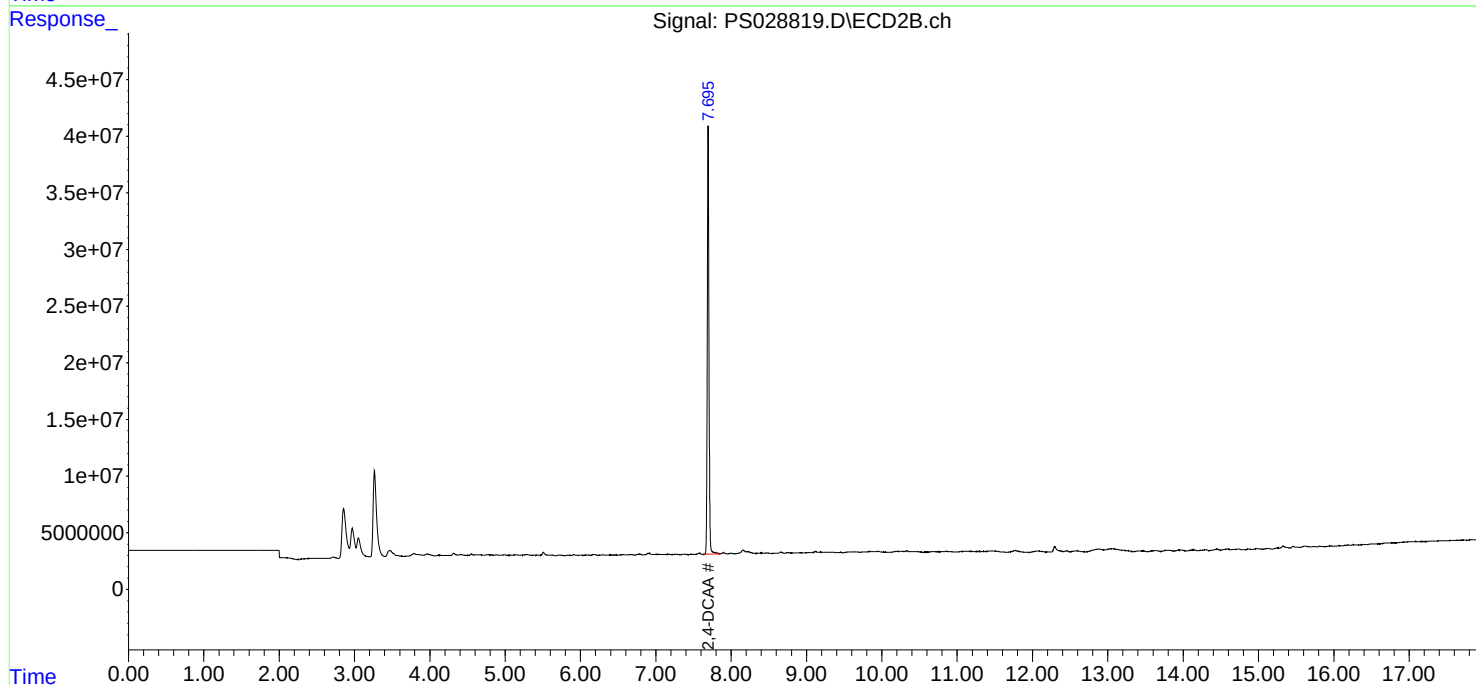
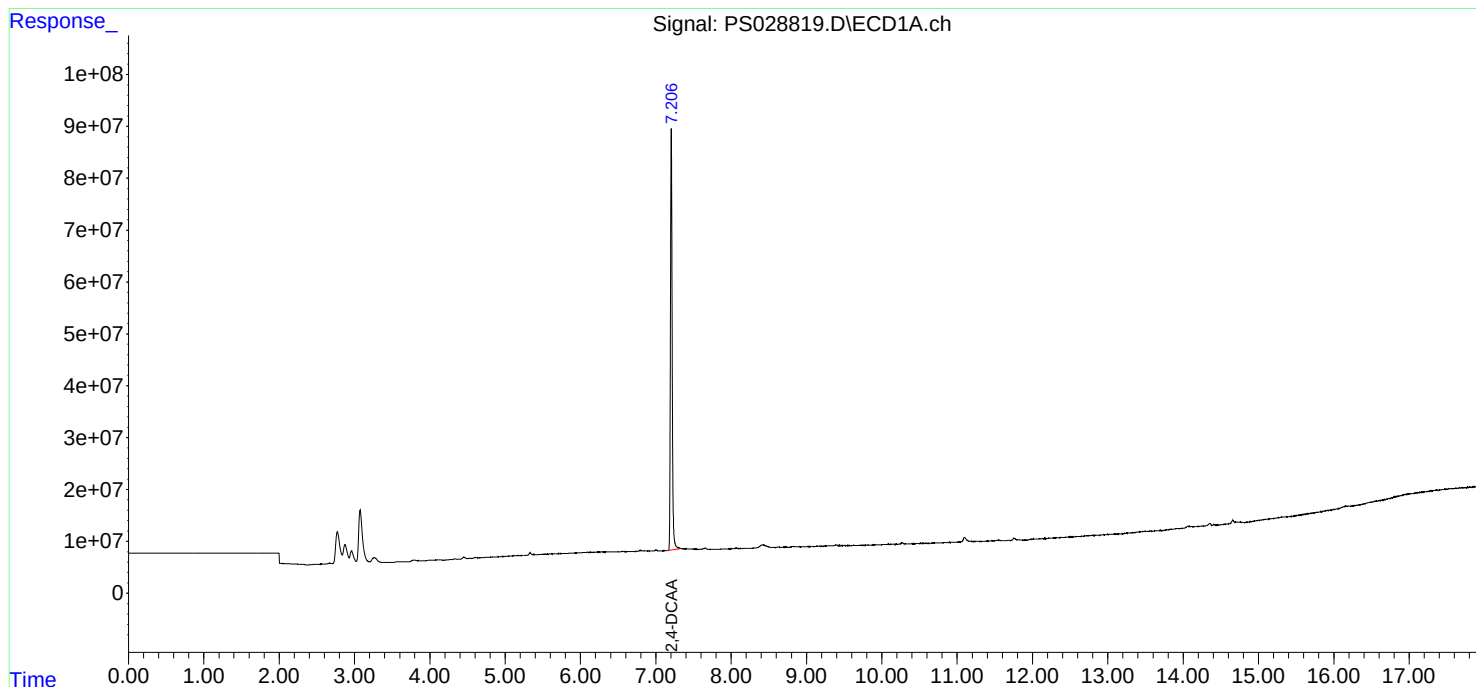
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

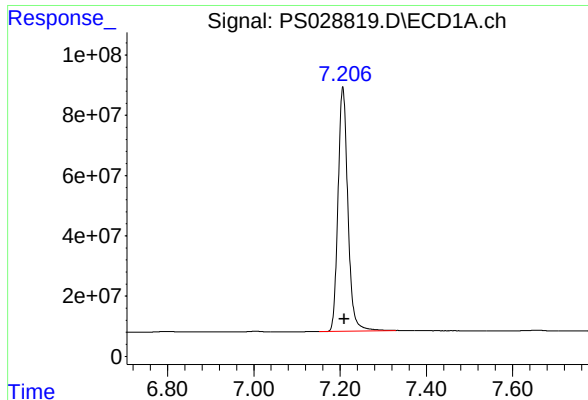
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028819.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 10:43
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:41:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

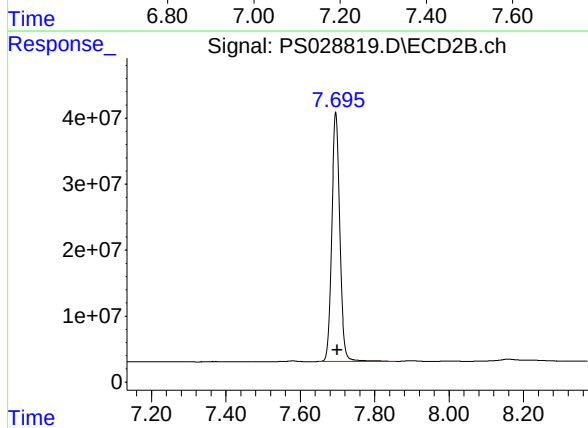




#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.003 min
Response: 1280799268
Conc: 566.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.695 min
Delta R.T.: -0.004 min
Response: 567110426
Conc: 503.86 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	12/26/24
Project:	Raymark Superfund Site	Date Received:	12/26/24
Client Sample ID:	PIBLK-PS028824.D	SDG No.:	P5306
Lab Sample ID:	I.BLK-PS028824.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028824.D	1		12/26/24	ps122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	559		32 - 138		112%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028824.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 18:16
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:42:56 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds

4) S	2,4-DCAA	7.206	7.695	1263.4E6	567.5E6	558.519	504.180

Target Compounds

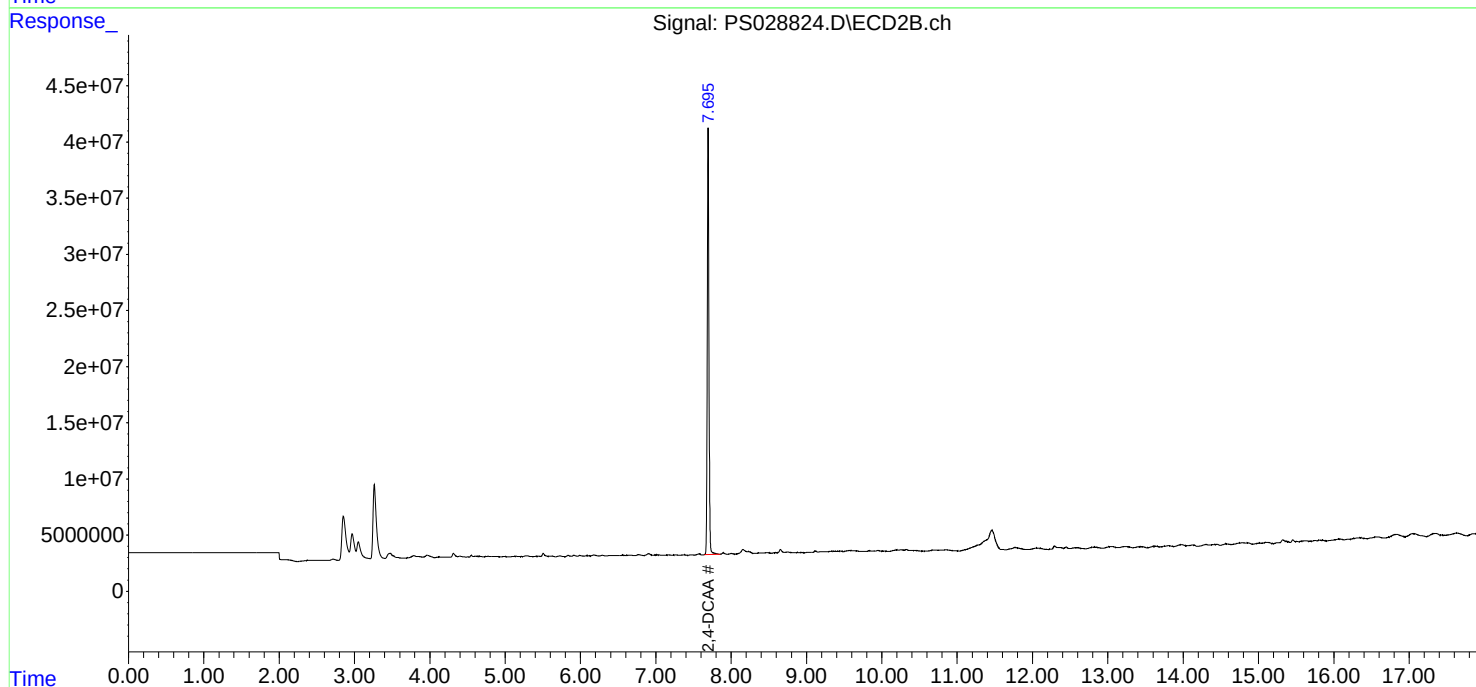
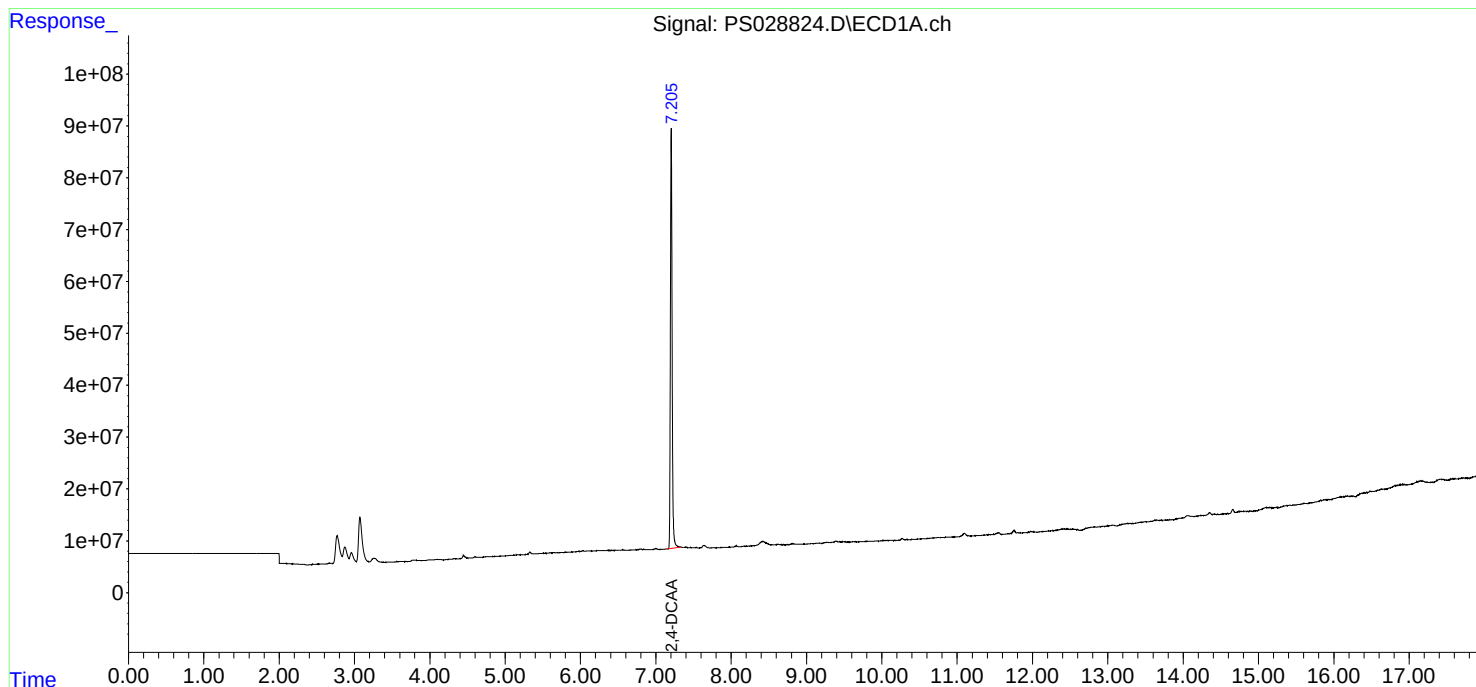
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

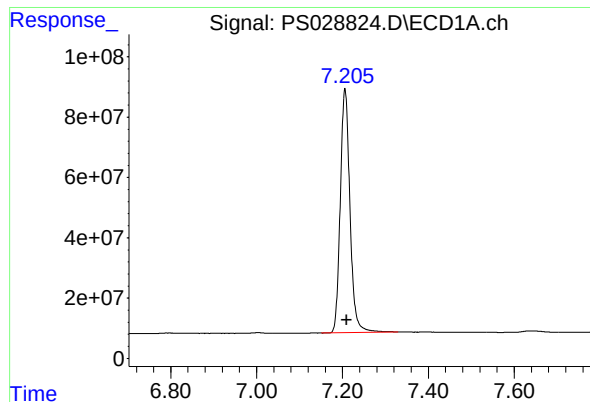
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028824.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 18:16
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:42:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





#4 2,4-DCAA

R.T.: 7.206 min

Delta R.T.: -0.004 min

Response: 1263383924

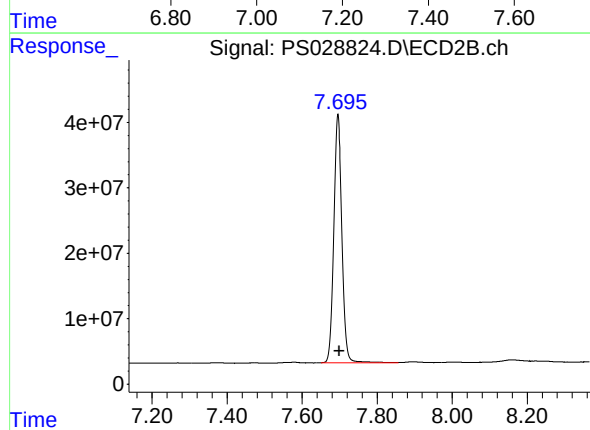
Conc: 558.52 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.695 min

Delta R.T.: -0.004 min

Response: 567474067

Conc: 504.18 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	12/30/24
Project:	Raymark Superfund Site	Date Received:	12/30/24
Client Sample ID:	PIBLK-PS028848.D	SDG No.:	P5306
Lab Sample ID:	I.BLK-PS028848.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028848.D	1		12/30/24	ps123024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	599		32 - 138		120%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028848.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 09:05
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:36:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.210	7.694	1356.0E6	576.0E6	599.447	511.743

Target Compounds

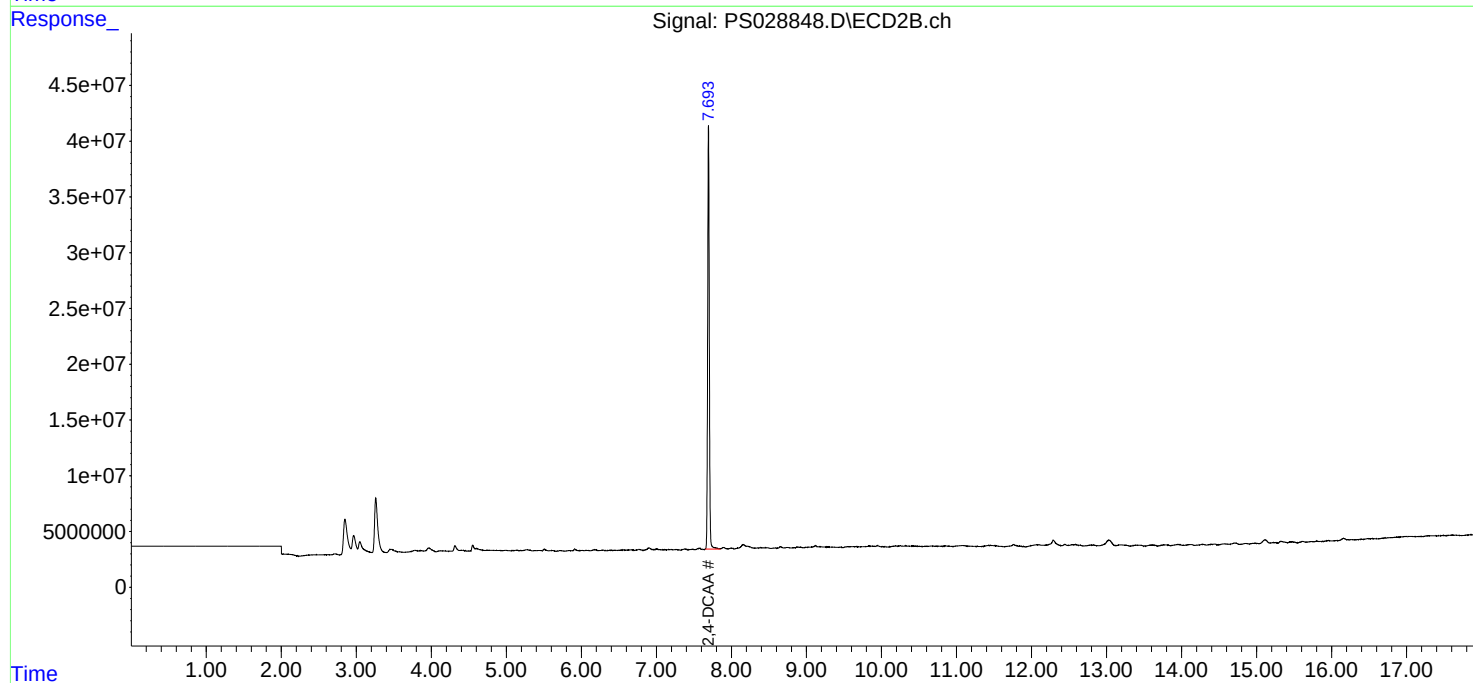
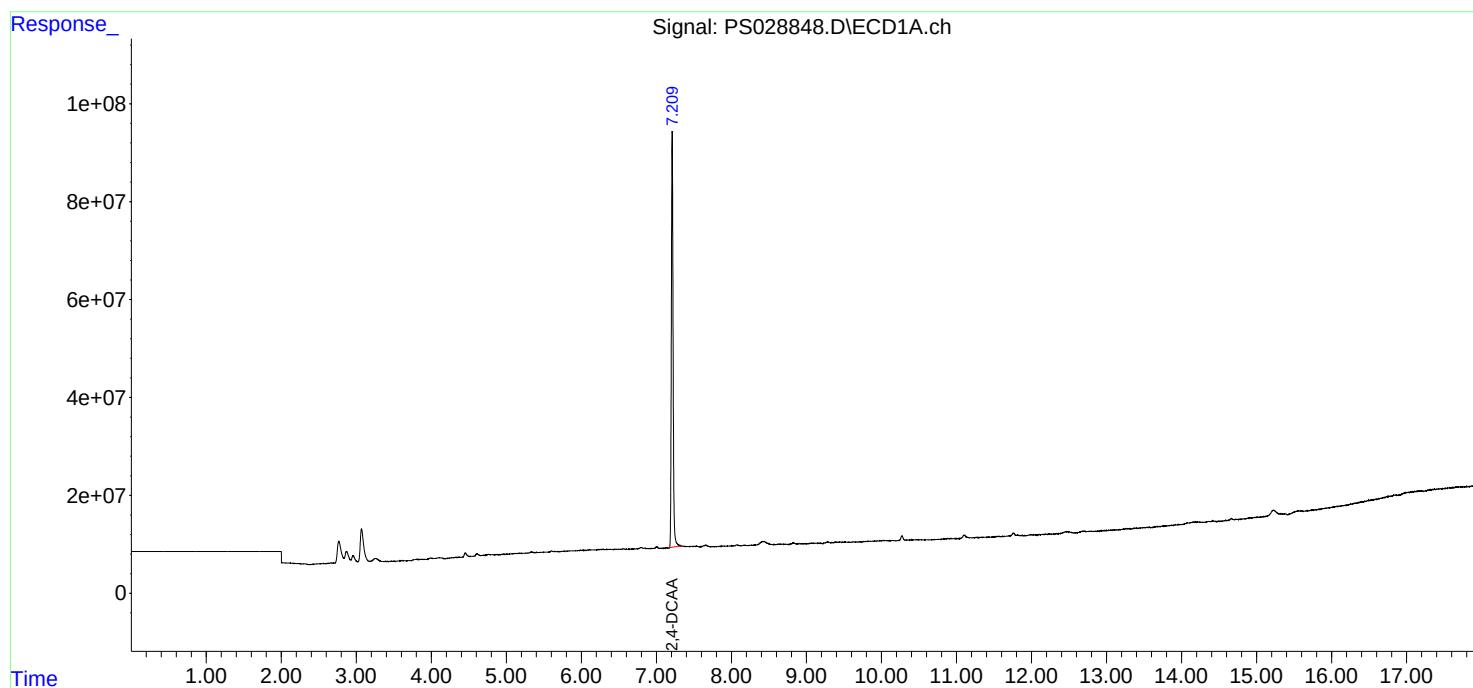
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028848.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 09:05
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

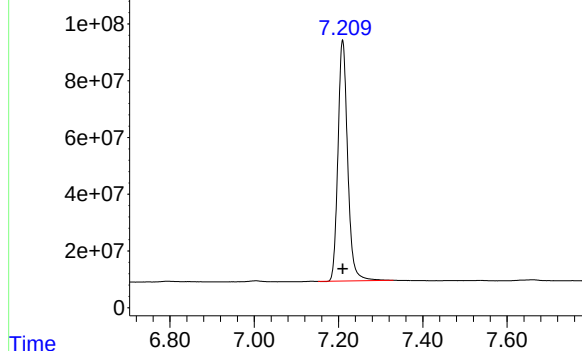
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:36:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Signal: PS028848.D\ECD1A.ch

#4 2,4-DCAA

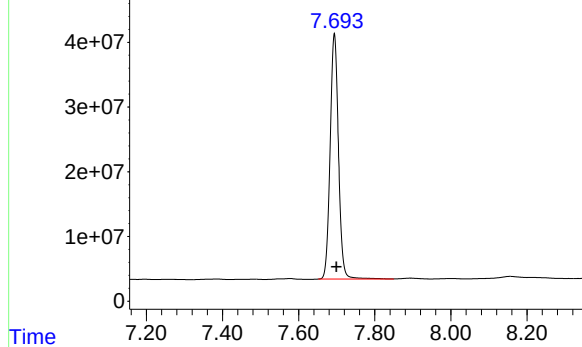


R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1355964772
Conc: 599.45 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028848.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 575985886
Conc: 511.74 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	12/30/24
Project:	Raymark Superfund Site	Date Received:	12/30/24
Client Sample ID:	PIBLK-PS028852.D	SDG No.:	P5306
Lab Sample ID:	I.BLK-PS028852.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028852.D	1		12/30/24	ps123024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1918-00-9	DICAMBA	0.0015	U	0.00042	0.0015	0.0020	mg/L
75-99-0	DALAPON	0.0015	U	0.0011	0.0015	0.0020	mg/L
120-36-5	DICHLORPROP	0.0015	U	0.00043	0.0015	0.0020	mg/L
94-75-7	2,4-D	0.0015	U	0.00049	0.0015	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0015	U	0.00045	0.0015	0.0020	mg/L
93-76-5	2,4,5-T	0.0015	U	0.00050	0.0015	0.0020	mg/L
94-82-6	2,4-DB	0.0015	U	0.00057	0.0015	0.0020	mg/L
88-85-7	DINOSEB	0.0015	U	0.00055	0.0015	0.0020	mg/L
SURROGATES							
19719-28-9	2,4-DCAA	602		32 - 138		120%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028852.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 11:38
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:38:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.209	7.694	1361.7E6	579.9E6	601.992	515.225

Target Compounds

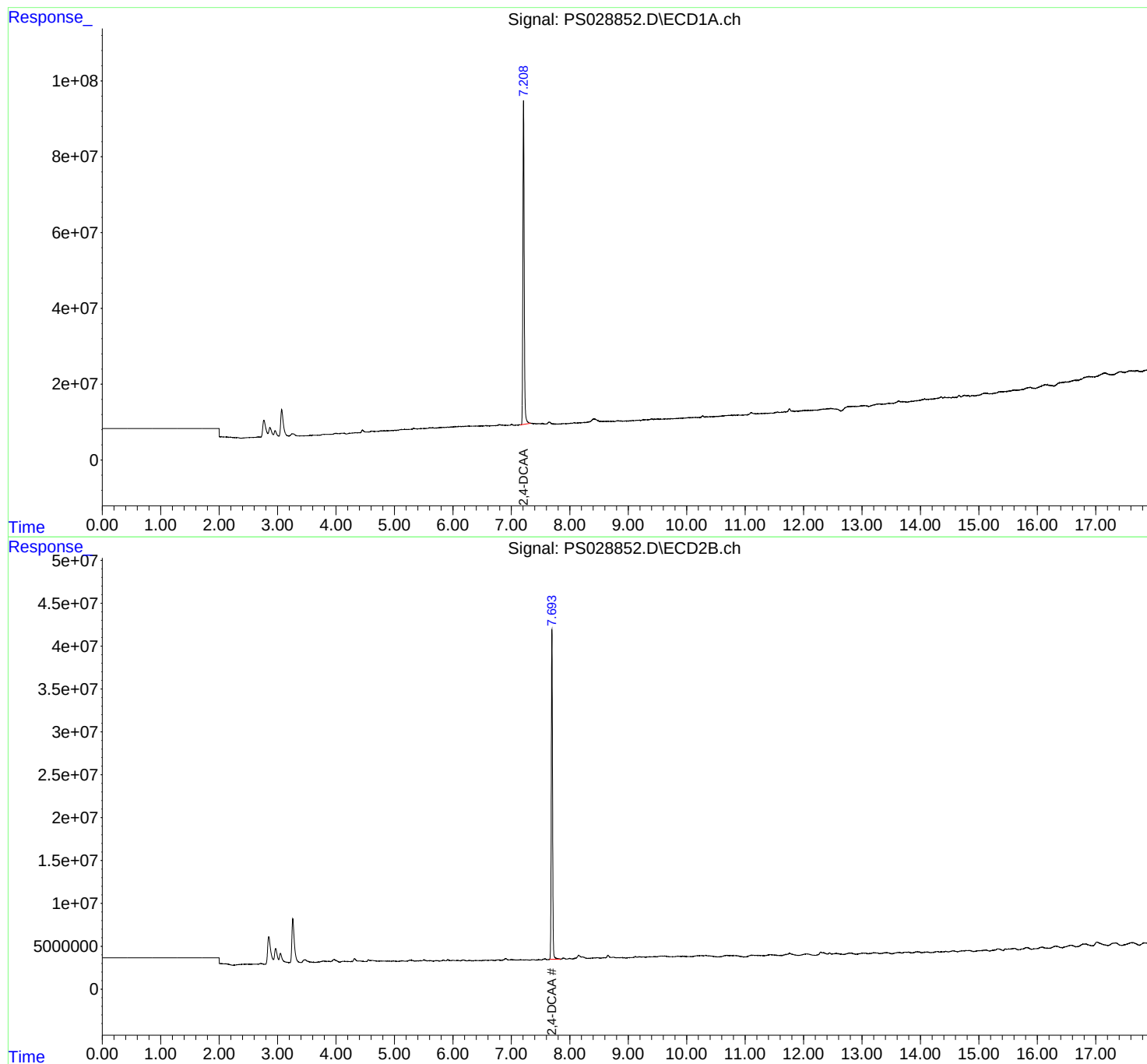
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028852.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 11:38
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:38:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_

Signal: PS028852.D\ECD1A.ch

#4 2,4-DCAA

R.T.: 7.209 min

Delta R.T.: 0.000 min

Response: 1361721003

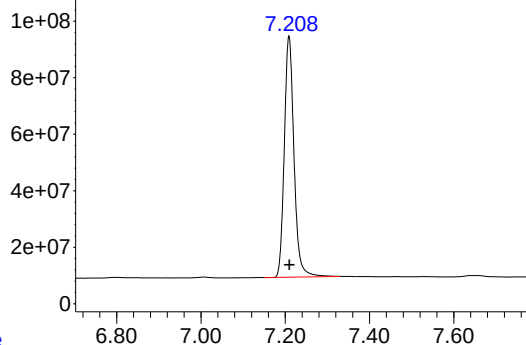
Conc: 601.99 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



Time

Response

Signal: PS028852.D\ECD2B.ch

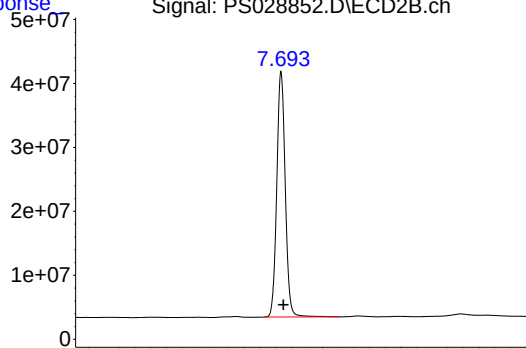
#4 2,4-DCAA

R.T.: 7.694 min

Delta R.T.: -0.006 min

Response: 579904560

Conc: 515.22 ng/ml



Time

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	PB165776BS	SDG No.:	P5306
Lab Sample ID:	PB165776BS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028798.D	1	12/20/24 08:20	12/23/24 15:46	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.17		0.0087	0.033	0.067	mg/Kg
75-99-0	DALAPON	0.16		0.025	0.050	0.067	mg/Kg
120-36-5	DICHLORPROP	0.17		0.0095	0.033	0.067	mg/Kg
94-75-7	2,4-D	0.17		0.012	0.033	0.067	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.17		0.0094	0.033	0.067	mg/Kg
93-76-5	2,4,5-T	0.17		0.010	0.033	0.067	mg/Kg
94-82-6	2,4-DB	0.17		0.018	0.033	0.067	mg/Kg
88-85-7	DINOSEB	0.17		0.012	0.050	0.067	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	547		27 - 122		109%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028798.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 15:46
 Operator : AR\AJ
 Sample : PB165776BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB165776BS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/30/2024

Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 17:04:22 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.209	7.699	1237.5E6	577.0E6	547.094	512.653
Target Compounds							
1) T	Dalapon	2.621	2.675	1358.3E6	913.2E6	482.241	463.871
2) T	3,5-DICHL...	6.384	6.660	1679.2E6	789.7E6	509.597	476.391
3) T	4-Nitroph...	7.007	7.227	726.4E6	385.8E6	483.595	460.950
5) T	DICAMBA	7.395	7.896	5049.6E6	2628.1E6	512.097	478.709
6) T	MCPD	7.575	7.999	307.8E6	154.6E6	49.434m	47.295
7) T	MCPA	7.724	8.241	426.8E6	219.0E6	48.692	47.263
8) T	DICHLORPROP	8.100	8.610	1360.4E6	671.9E6	512.751	486.978
9) T	2,4-D	8.329	8.939	1462.6E6	699.1E6	513.283	484.461
10) T	Pentachlo...	8.627	9.464	21037.6E6	10876.4E6	538.501	498.945
11) T	2,4,5-TP ...	9.204	9.841	8203.7E6	4390.9E6	522.215	488.775
12) T	2,4,5-T	9.495	10.259	8496.7E6	4254.4E6	522.254	488.492
13) T	2,4-DB	10.066	10.825	1549.8E6	473.0E6	496.478	487.081
14) T	DINOSEB	11.274	11.203	6906.1E6	2943.9E6	513.784	477.969
15) T	Picloram	11.082	12.291	13388.1E6	6048.5E6	499.319	471.106
16) T	DCPA	11.567	12.244	12602.5E6	5287.6E6	523.989	492.117

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028798.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 15:46
Operator : AR\AJ
Sample : PB165776BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB165776BS

Manual Integrations

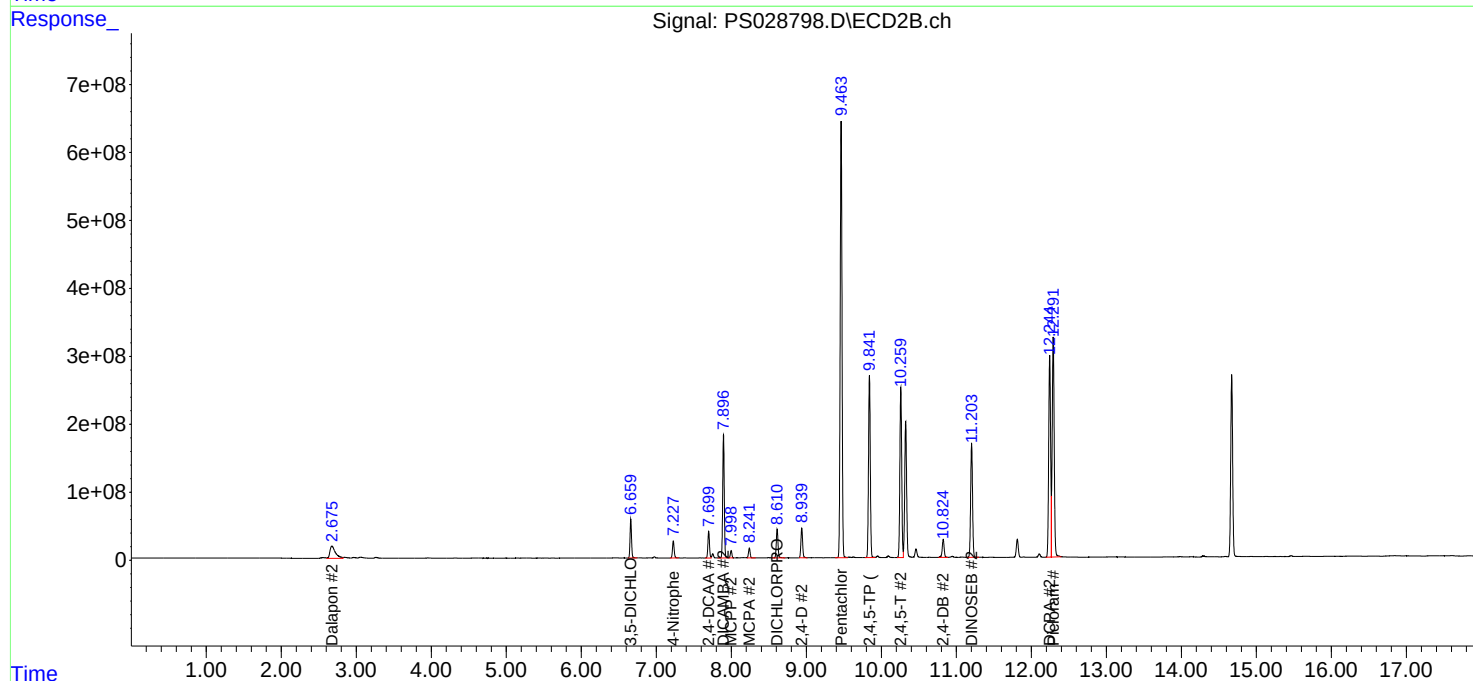
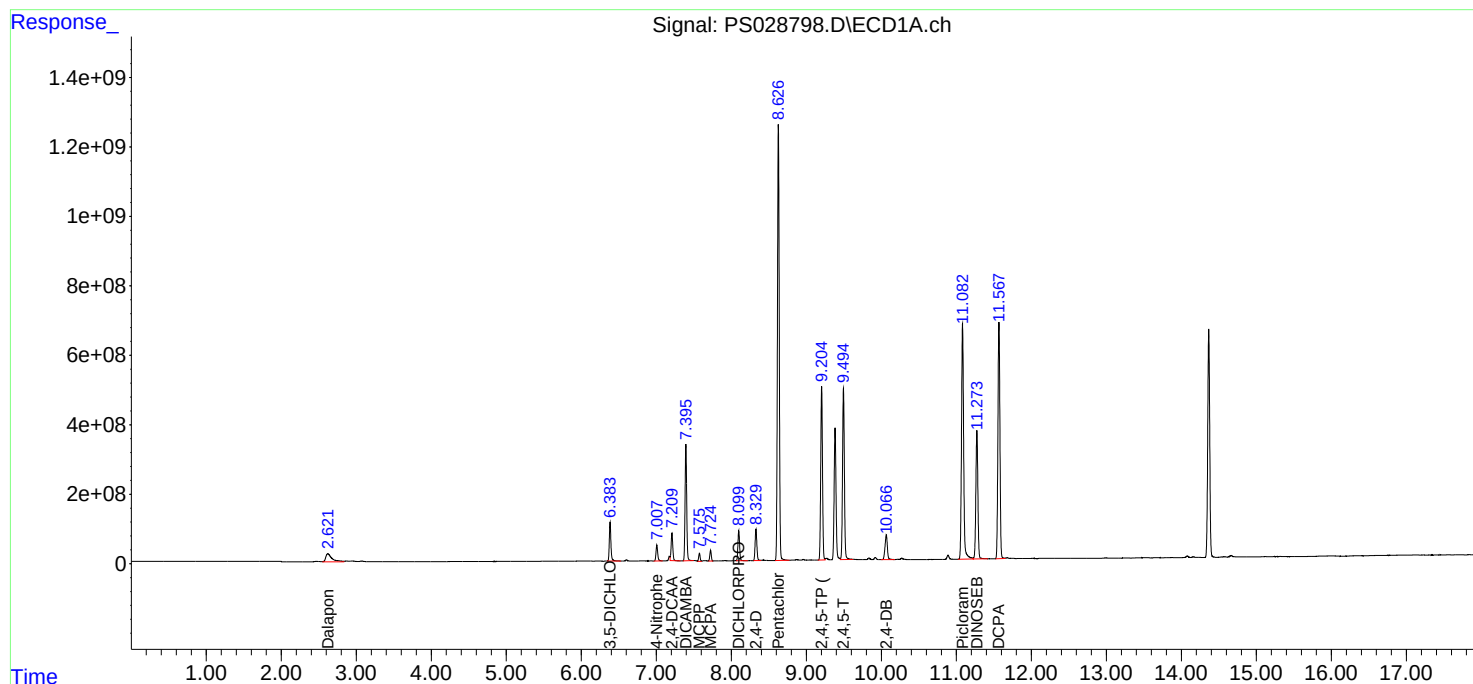
APPROVED

Reviewed By :Abdul Mirza 12/30/2024

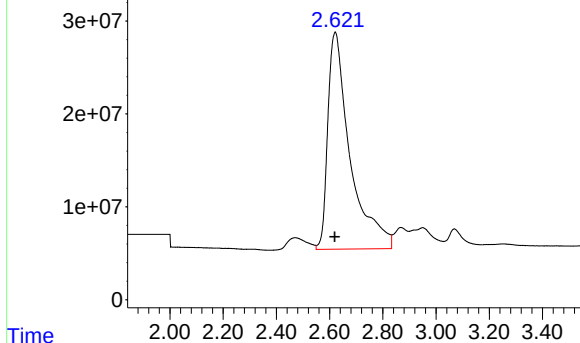
Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 17:04:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS028798.D\ECD1A.ch



#1 Dalapon

R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1358303902
Conc: 482.24 ng/ml

Instrument :

ECD_S

ClientSampleId :

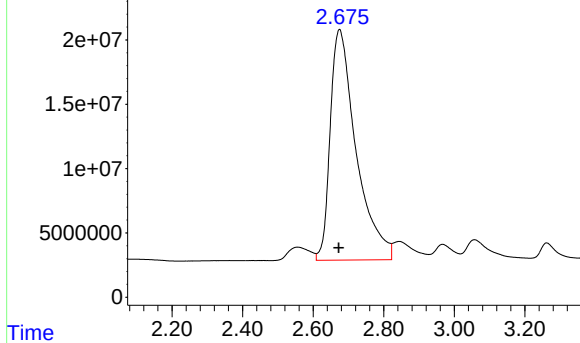
PB165776BS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

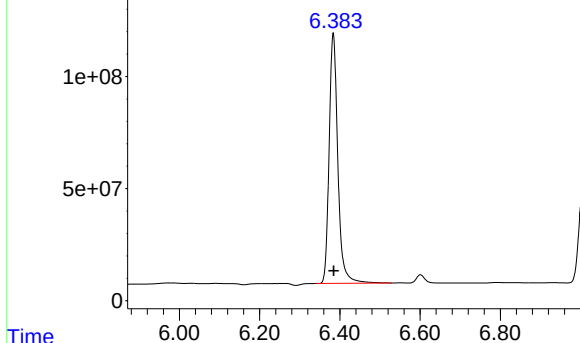
Time Response_ Signal: PS028798.D\ECD2B.ch



#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 913177245
Conc: 463.87 ng/ml

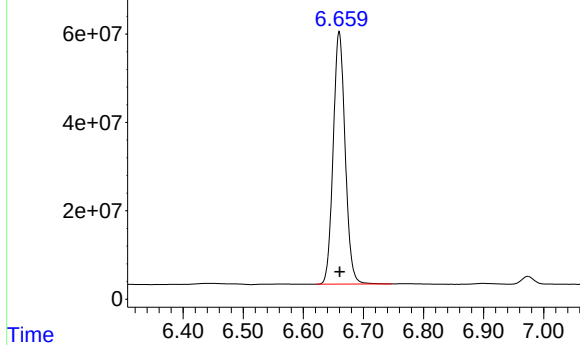
Time Response_ Signal: PS028798.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: -0.001 min
Response: 1679190823
Conc: 509.60 ng/ml

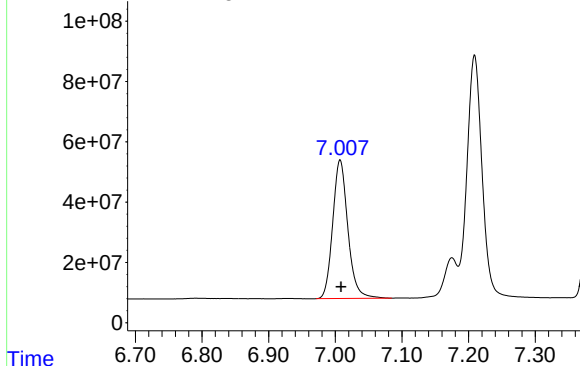
Time Response_ Signal: PS028798.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 789653152
Conc: 476.39 ng/ml

Response_ Signal: PS028798.D\ECD1A.ch



#3 4-Nitrophenol

R.T.: 7.007 min
Delta R.T.: -0.001 min
Response: 726388218
Conc: 483.60 ng/ml

Instrument :

ECD_S

ClientSampleId :

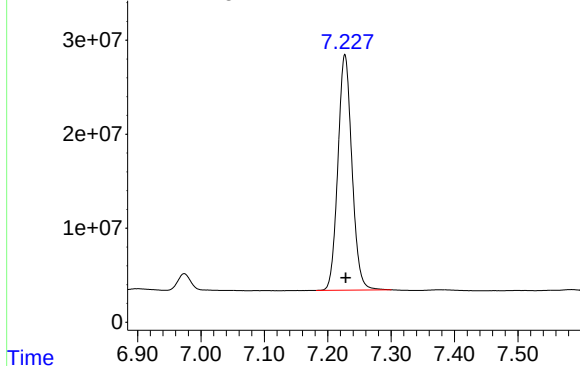
PB165776BS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

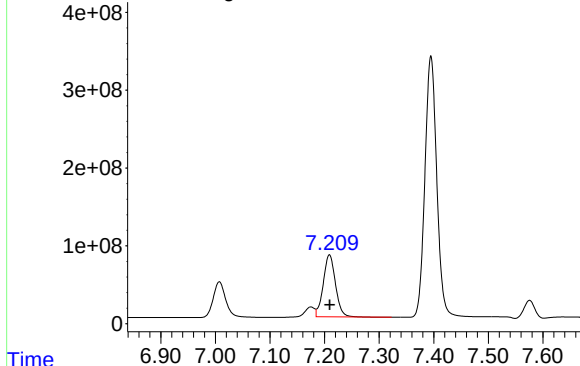
Response_ Signal: PS028798.D\ECD2B.ch



#3 4-Nitrophenol

R.T.: 7.227 min
Delta R.T.: -0.001 min
Response: 385766118
Conc: 460.95 ng/ml

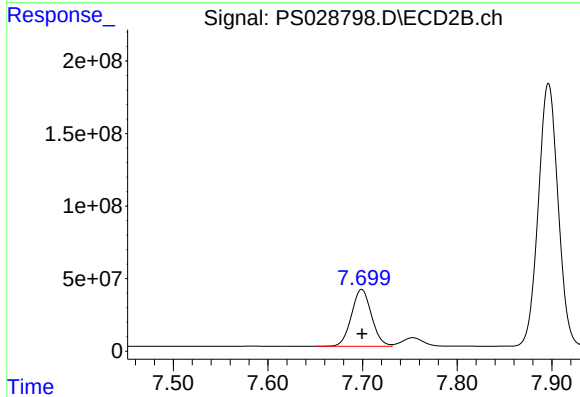
Response_ Signal: PS028798.D\ECD1A.ch



#4 2,4-DCAA

R.T.: 7.209 min
Delta R.T.: 0.000 min
Response: 1237539819
Conc: 547.09 ng/ml

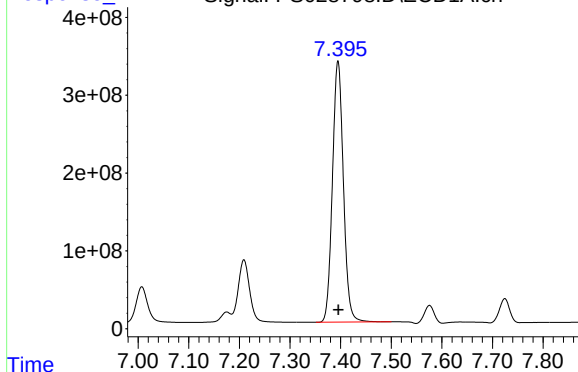
Response_ Signal: PS028798.D\ECD2B.ch



#4 2,4-DCAA

R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 577009805
Conc: 512.65 ng/ml

Response_ Signal: PS028798.D\ECD1A.ch



#5 DICAMBA

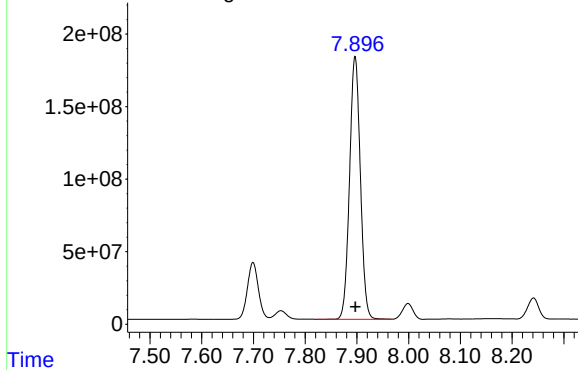
R.T.: 7.395 min
Delta R.T.: -0.001 min
Response: 5049611035
Conc: 512.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

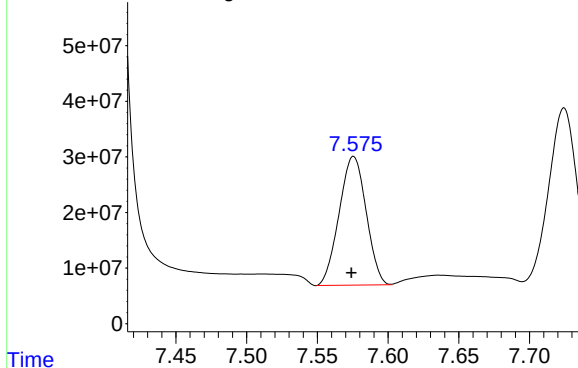
Response_ Signal: PS028798.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.896 min
Delta R.T.: 0.000 min
Response: 2628052983
Conc: 478.71 ng/ml

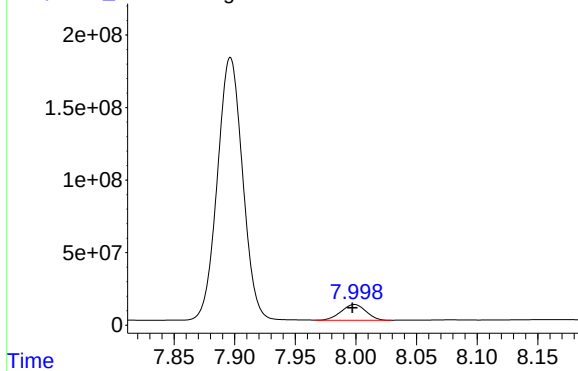
Response_ Signal: PS028798.D\ECD1A.ch



#6 MCP

R.T.: 7.575 min
Delta R.T.: 0.001 min
Response: 307838012
Conc: 49.43 ug/ml m

Response_ Signal: PS028798.D\ECD2B.ch

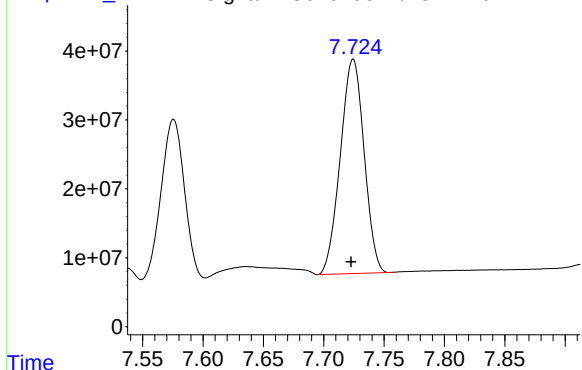


#6 MCP

R.T.: 7.999 min
Delta R.T.: 0.002 min
Response: 154551303
Conc: 47.30 ug/ml

Response_ Signal: PS028798.D\ECD1A.ch

#7 MCPA



R.T.: 7.724 min
Delta R.T.: 0.002 min
Response: 426805011
Conc: 48.69 ug/ml

Instrument :

ECD_S

ClientSampleId :

PB165776BS

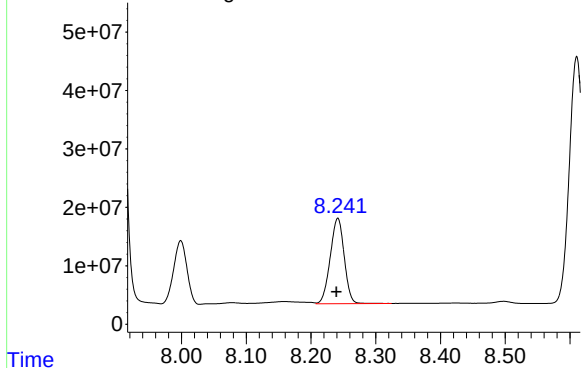
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Response_ Signal: PS028798.D\ECD2B.ch

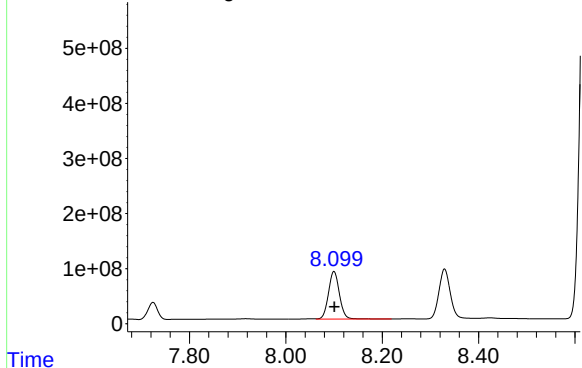
#7 MCPA



R.T.: 8.241 min
Delta R.T.: 0.002 min
Response: 218964705
Conc: 47.26 ug/ml

Response_ Signal: PS028798.D\ECD1A.ch

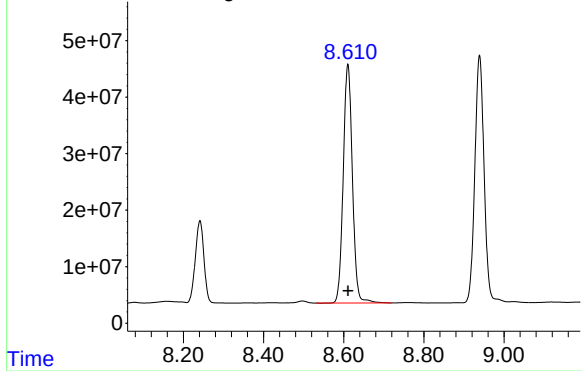
#8 DICHLORPROP



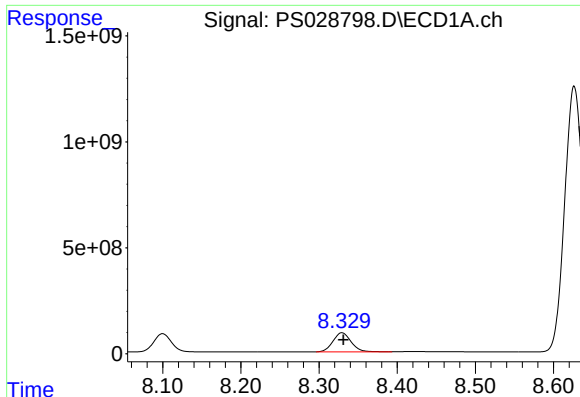
R.T.: 8.100 min
Delta R.T.: -0.001 min
Response: 1360420072
Conc: 512.75 ng/ml

Response_ Signal: PS028798.D\ECD2B.ch

#8 DICHLORPROP



R.T.: 8.610 min
Delta R.T.: 0.000 min
Response: 671863402
Conc: 486.98 ng/ml



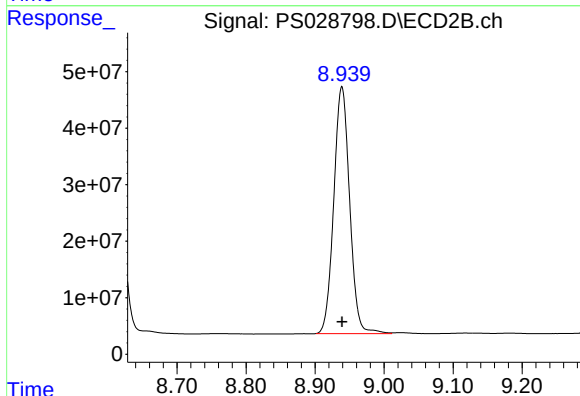
#9 2,4-D

R.T.: 8.329 min
Delta R.T.: -0.002 min
Response: 1462617907
Conc: 513.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS

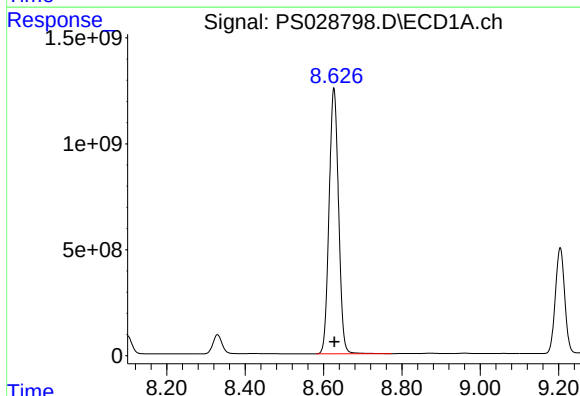
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



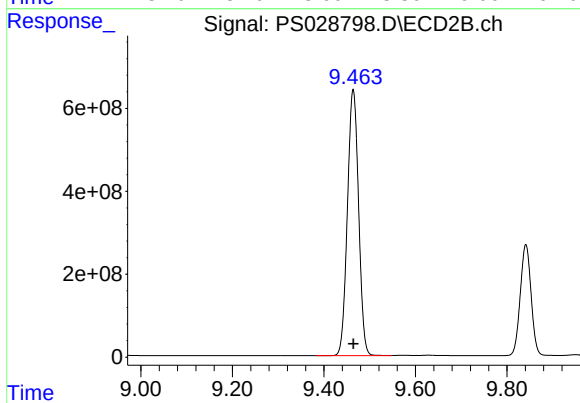
#9 2,4-D

R.T.: 8.939 min
Delta R.T.: 0.000 min
Response: 699147681
Conc: 484.46 ng/ml



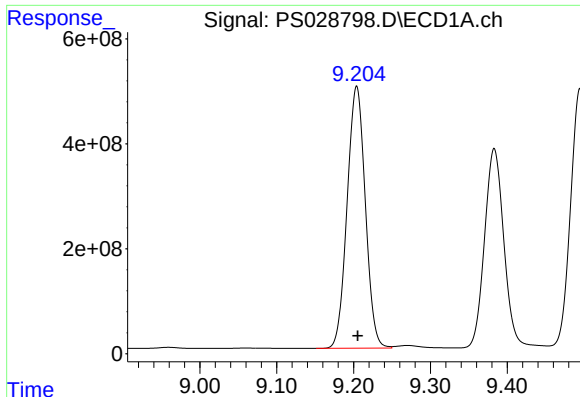
#10 Pentachlorophenol

R.T.: 8.627 min
Delta R.T.: -0.002 min
Response: 21037599396
Conc: 538.50 ng/ml



#10 Pentachlorophenol

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 10876367242
Conc: 498.95 ng/ml



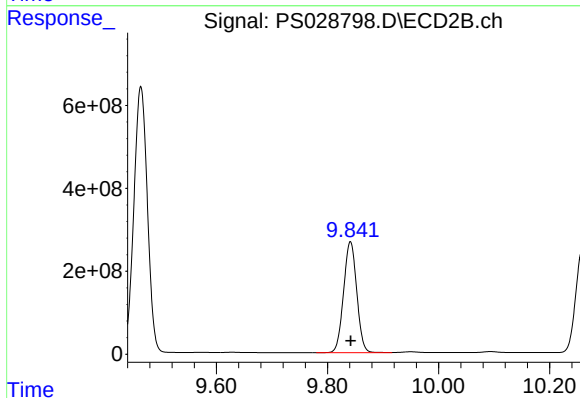
#11 2,4,5-TP (SILVEX)

R.T.: 9.204 min
Delta R.T.: -0.001 min
Response: 8203653829
Conc: 522.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS

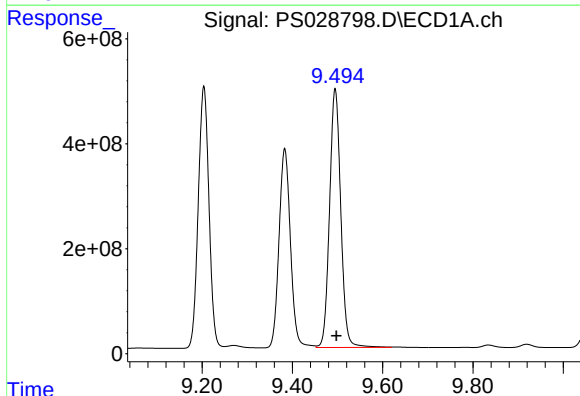
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



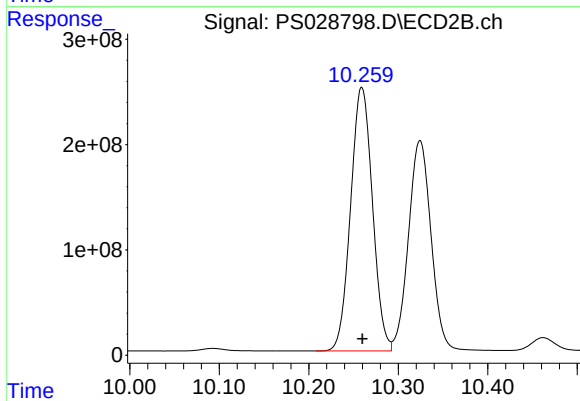
#11 2,4,5-TP (SILVEX)

R.T.: 9.841 min
Delta R.T.: 0.000 min
Response: 4390916804
Conc: 488.77 ng/ml



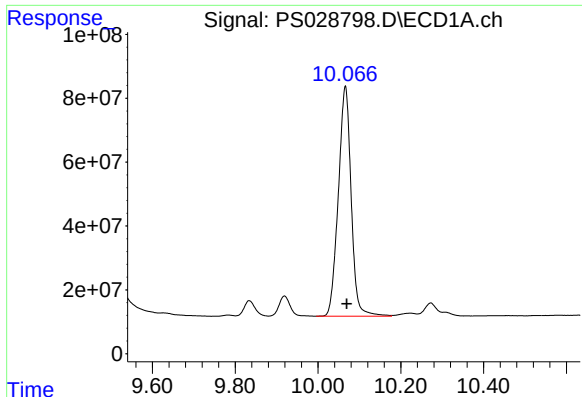
#12 2,4,5-T

R.T.: 9.495 min
Delta R.T.: -0.003 min
Response: 8496654682
Conc: 522.25 ng/ml



#12 2,4,5-T

R.T.: 10.259 min
Delta R.T.: 0.000 min
Response: 4254363586
Conc: 488.49 ng/ml



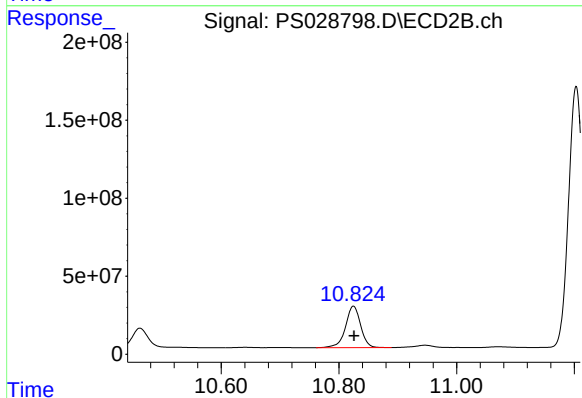
#13 2,4-DB

R.T.: 10.066 min
Delta R.T.: -0.003 min
Response: 1549804433
Conc: 496.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS

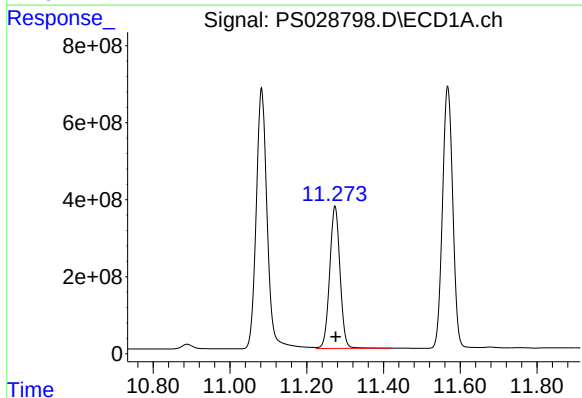
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



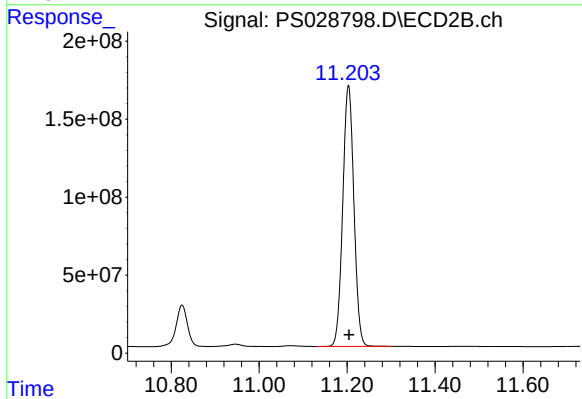
#13 2,4-DB

R.T.: 10.825 min
Delta R.T.: -0.001 min
Response: 473003271
Conc: 487.08 ng/ml



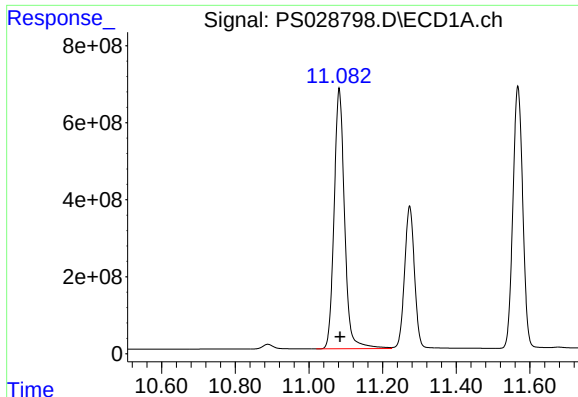
#14 DINOSEB

R.T.: 11.274 min
Delta R.T.: -0.002 min
Response: 6906146827
Conc: 513.78 ng/ml



#14 DINOSEB

R.T.: 11.203 min
Delta R.T.: 0.000 min
Response: 2943878768
Conc: 477.97 ng/ml



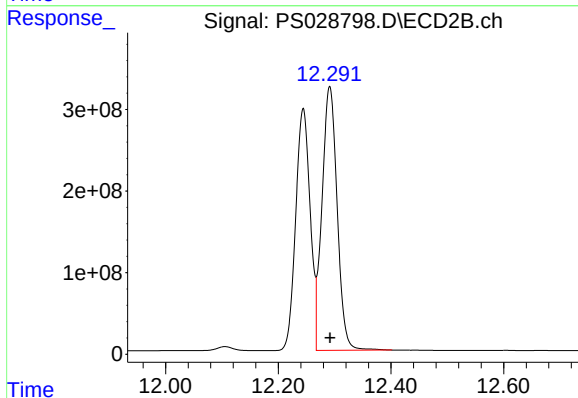
#15 Picloram

R.T.: 11.082 min
Delta R.T.: -0.002 min
Response: 13388137477
Conc: 499.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS

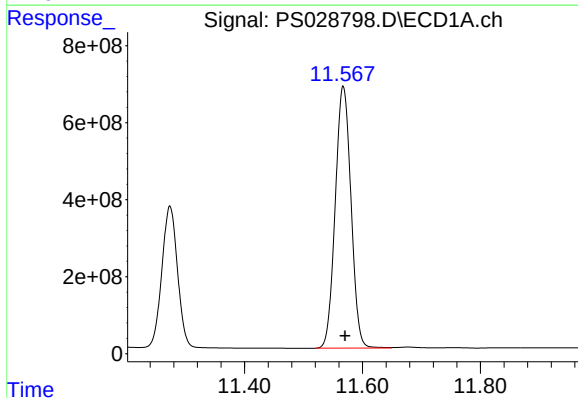
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



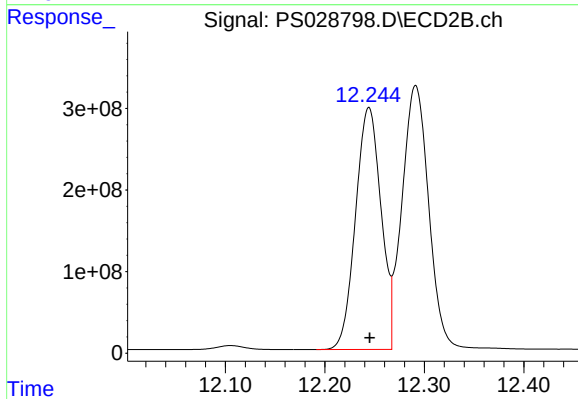
#15 Picloram

R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 6048539659
Conc: 471.11 ng/ml



#16 DCPA

R.T.: 11.567 min
Delta R.T.: -0.003 min
Response: 12602475043
Conc: 523.99 ng/ml



#16 DCPA

R.T.: 12.244 min
Delta R.T.: 0.000 min
Response: 5287593826
Conc: 492.12 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-14-121224MS	SDG No.:	P5306
Lab Sample ID:	P5306-15MS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	95.9 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028822.D	1	12/20/24 08:20	12/26/24 17:29	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.14		0.0090	0.034	0.070	mg/Kg
75-99-0	DALAPON	0.13		0.026	0.052	0.070	mg/Kg
120-36-5	DICHLORPROP	0.11		0.0099	0.034	0.070	mg/Kg
94-75-7	2,4-D	0.16		0.013	0.034	0.070	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.091		0.0098	0.034	0.070	mg/Kg
93-76-5	2,4,5-T	0.11		0.011	0.034	0.070	mg/Kg
94-82-6	2,4-DB	0.078		0.019	0.034	0.070	mg/Kg
88-85-7	DINOSEB	0.026	JP	0.013	0.052	0.070	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	506		27 - 122		101%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028822.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 17:29
 Operator : AR\AJ
 Sample : P5306-15MS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-14-121224MS

Manual Integrations APPROVED

Reviewed By : Abdul Mirza 12/27/2024
 Supervised By : Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:42:19 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.206	7.695	1145.7E6	465.9E6	506.491	413.942
Target Compounds						
1) T Dalapon	2.621	2.674	927.7E6	735.6E6	329.353m	373.687m
2) T 3,5-DICHL...	6.381	6.657	1261.5E6	512.8E6	382.828	309.372
3) T 4-Nitroph...	7.007	7.224	69003376	34512180	45.939	41.238m
5) T DICAMBA	7.391	7.892	4052.3E6	2020.2E6	410.956	367.979
6) T MCPP	7.570	7.993	170.6E6	85197335	27.400m	26.072
7) T MCPA	7.719	8.235	277.8E6	166.7E6	31.689	35.977
8) T DICHLORPROP	8.096	8.605	857.3E6	389.7E6	323.119	282.468
9) T 2,4-D	8.325	8.933	1303.1E6	577.0E6	457.306	399.804
10) T Pentachlo...	8.623	9.458	8952.2E6	4153.5E6	229.151	190.539
11) T 2,4,5-TP ...	9.200	9.835	4130.7E6	2118.7E6	262.946	235.845
12) T 2,4,5-T	9.490	10.252	5163.6E6	2444.1E6	317.387m	280.633m
13) T 2,4-DB	10.064	10.818	581.2E6	217.4E6	186.184m	223.862
14) T DINOSEB	11.268	11.197	987.7E6	308.6E6	73.480	50.101 #
15) T Picloram	11.077	12.283	10143.1E6	4079.7E6	378.295	317.761
16) T DCPA	11.559	12.237	9156.3E6	4937.0E6	380.702m	459.491

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028822.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 17:29
Operator : AR\AJ
Sample : P5306-15MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

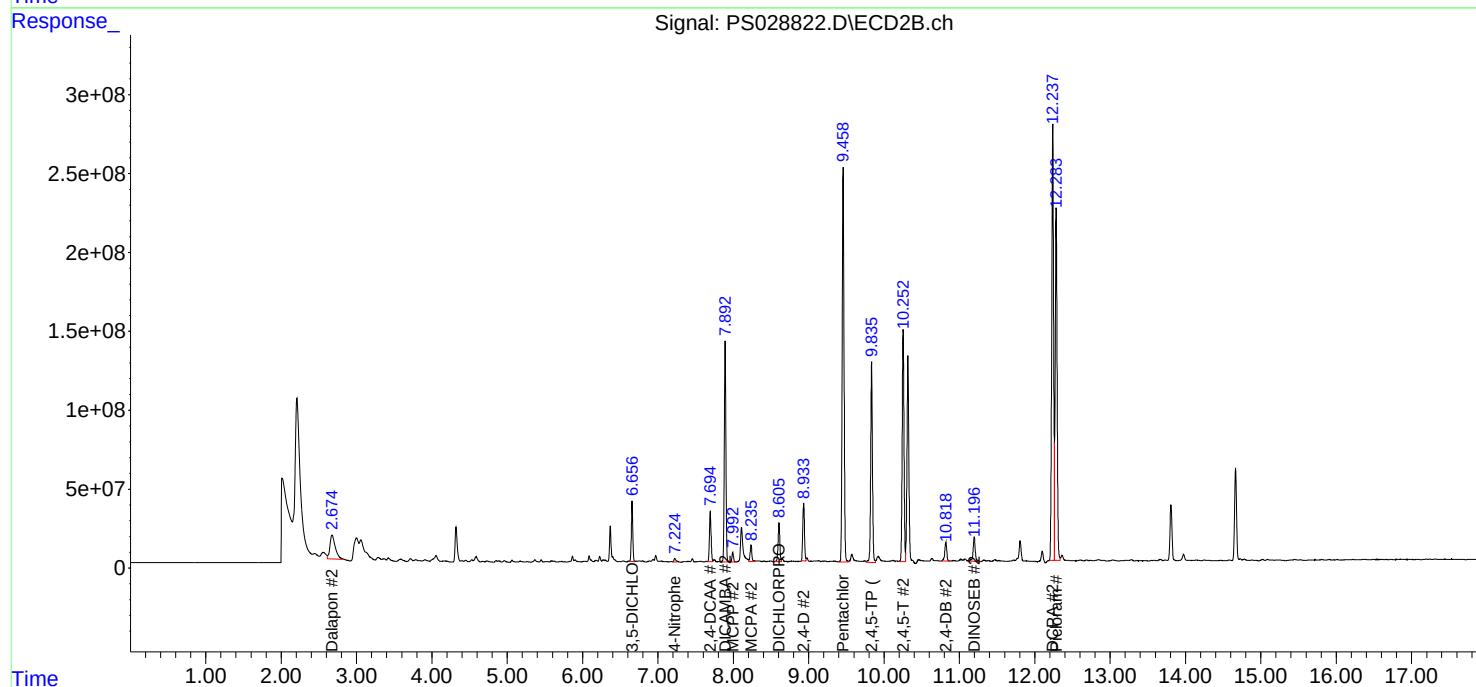
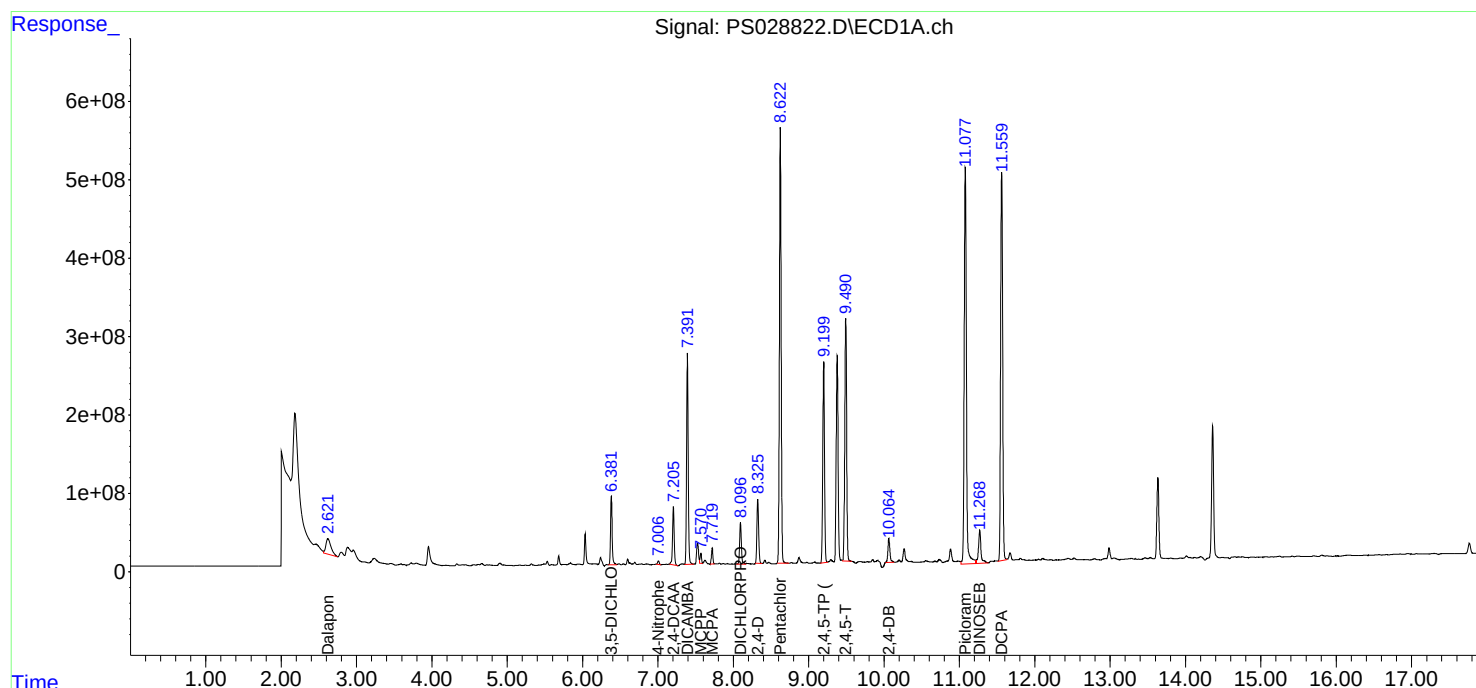
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

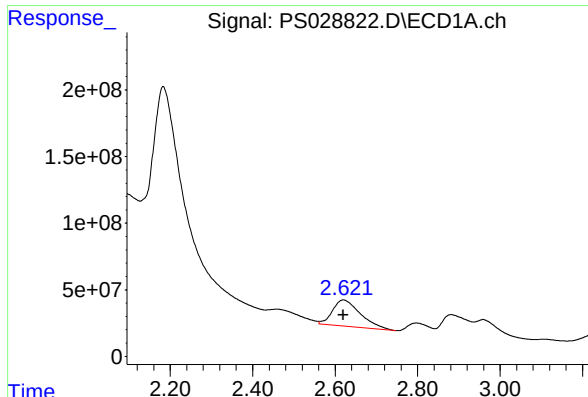
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:42:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





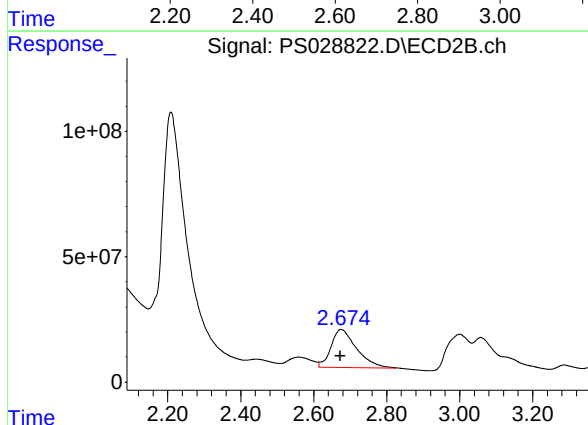
#1 Dalapon

R.T.: 2.621 min
Delta R.T.: 0.000 min
Response: 927672924
Conc: 329.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

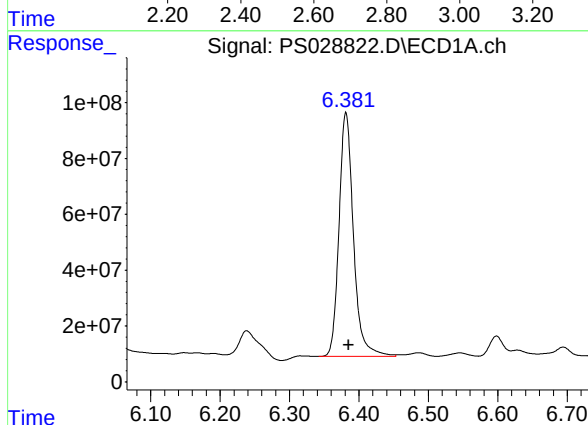
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



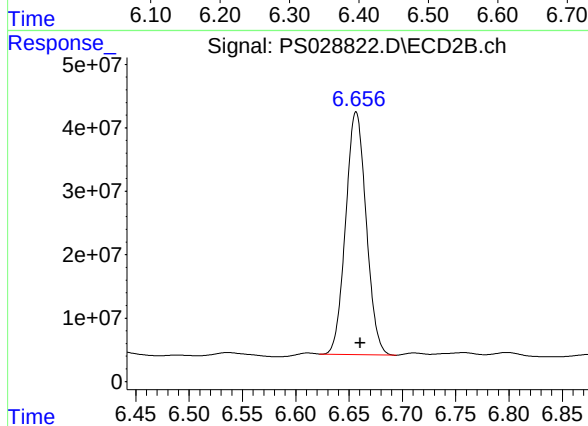
#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.001 min
Response: 735640709
Conc: 373.69 ng/ml



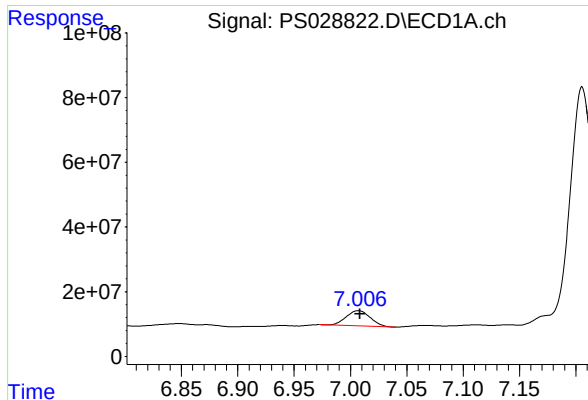
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1261470680
Conc: 382.83 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.657 min
Delta R.T.: -0.004 min
Response: 512806680
Conc: 309.37 ng/ml



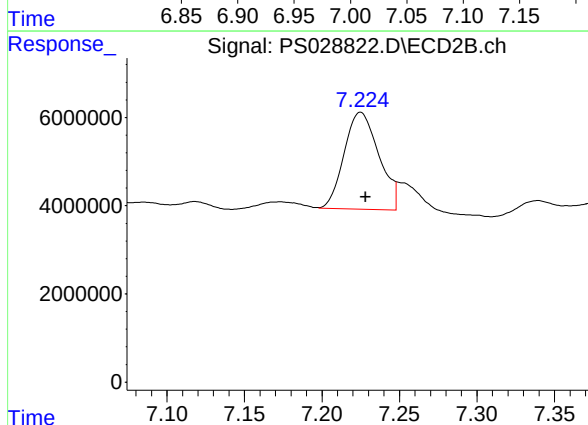
#3 4-Nitrophenol

R.T.: 7.007 min
Delta R.T.: -0.002 min
Response: 69003376
Conc: 45.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

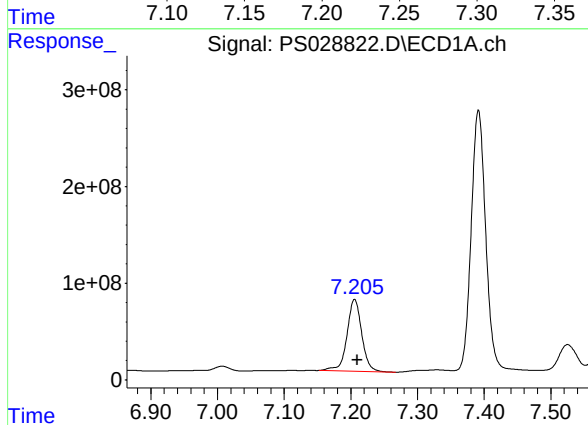
**Manual Integrations
APPROVED**

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



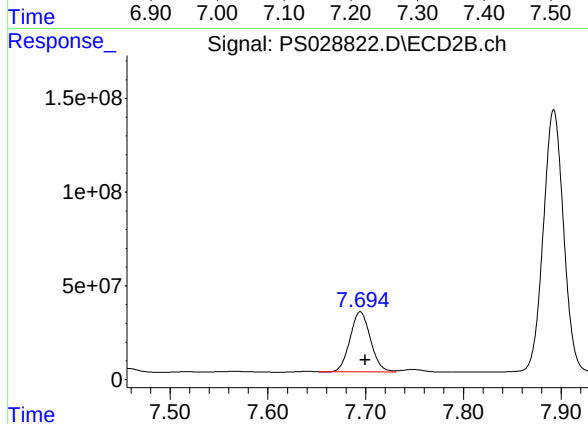
#3 4-Nitrophenol

R.T.: 7.224 min
Delta R.T.: -0.004 min
Response: 34512180
Conc: 41.24 ng/ml



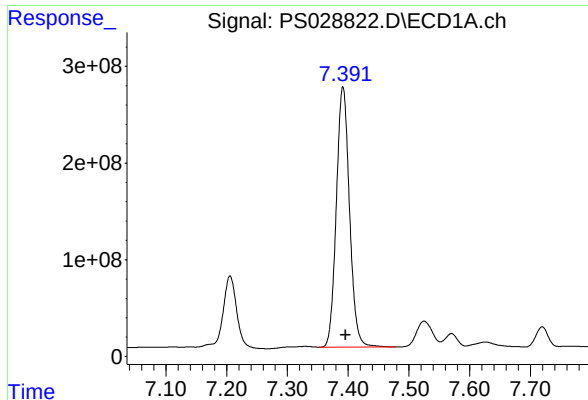
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1145696032
Conc: 506.49 ng/ml



#4 2,4-DCAA

R.T.: 7.695 min
Delta R.T.: -0.005 min
Response: 465907611
Conc: 413.94 ng/ml



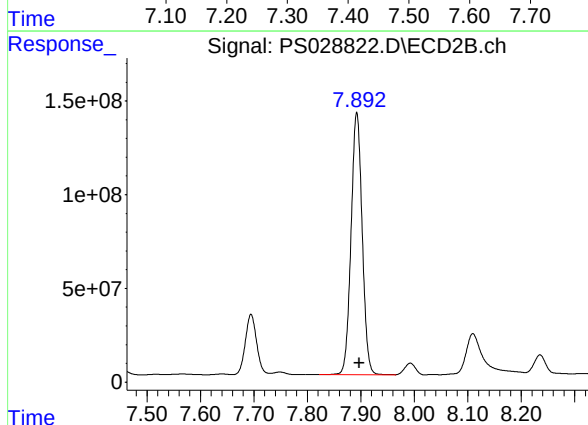
#5 DICAMBA

R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 4052291622
Conc: 410.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

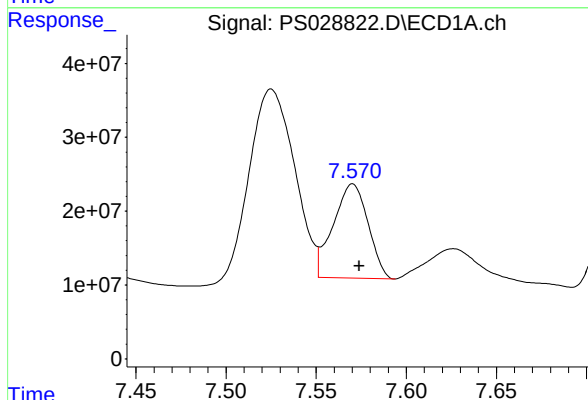
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



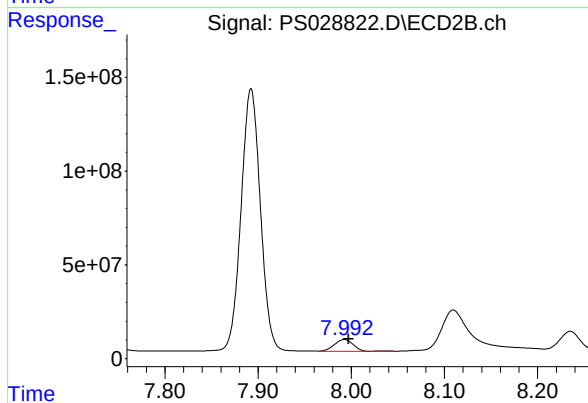
#5 DICAMBA

R.T.: 7.892 min
Delta R.T.: -0.005 min
Response: 2020157156
Conc: 367.98 ng/ml



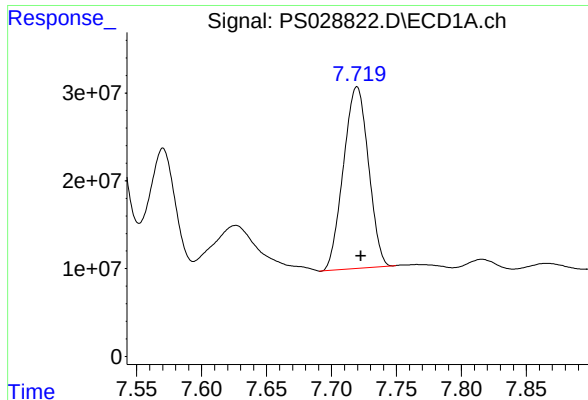
#6 MCPP

R.T.: 7.570 min
Delta R.T.: -0.004 min
Response: 170627055
Conc: 27.40 ug/ml m



#6 MCPP

R.T.: 7.993 min
Delta R.T.: -0.005 min
Response: 85197335
Conc: 26.07 ug/ml



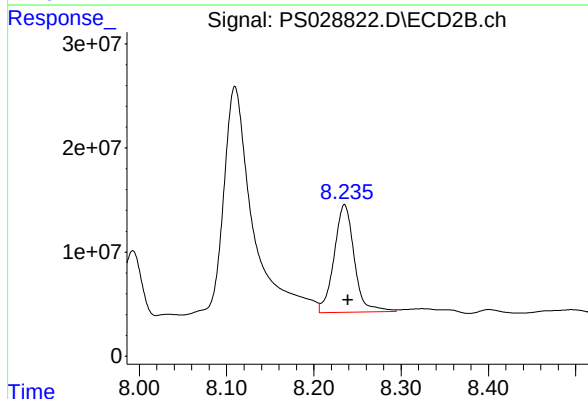
#7 MCPA

R.T.: 7.719 min
Delta R.T.: -0.003 min
Response: 277764389
Conc: 31.69 ug/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

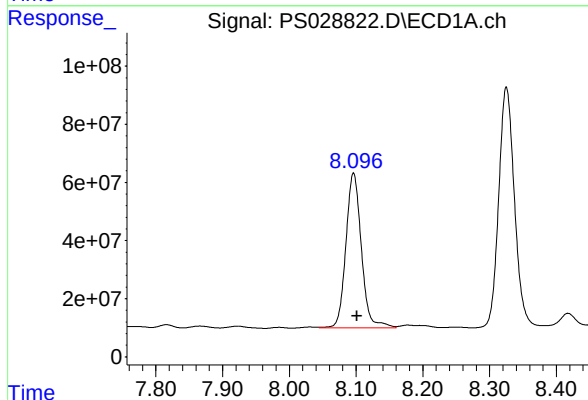
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



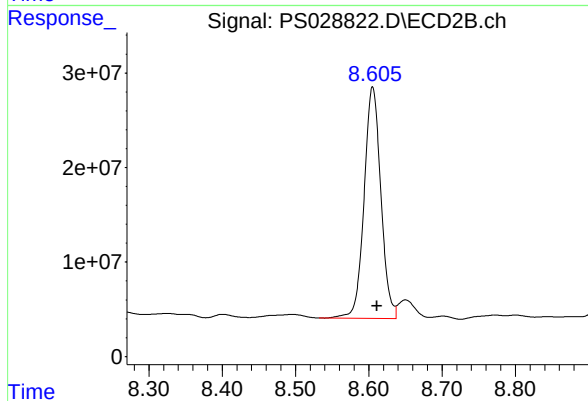
#7 MCPA

R.T.: 8.235 min
Delta R.T.: -0.004 min
Response: 166676489
Conc: 35.98 ug/ml



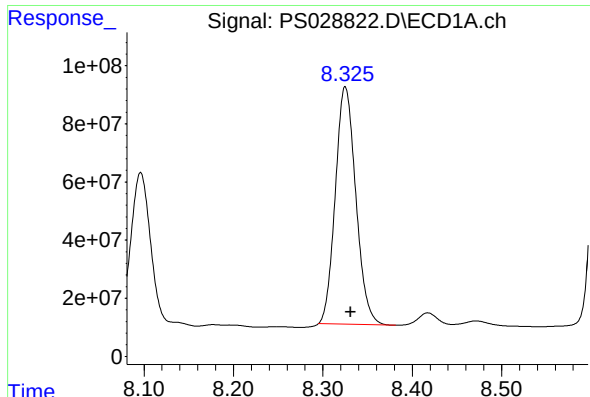
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 857292966
Conc: 323.12 ng/ml



#8 DICHLORPROP

R.T.: 8.605 min
Delta R.T.: -0.006 min
Response: 389709638
Conc: 282.47 ng/ml



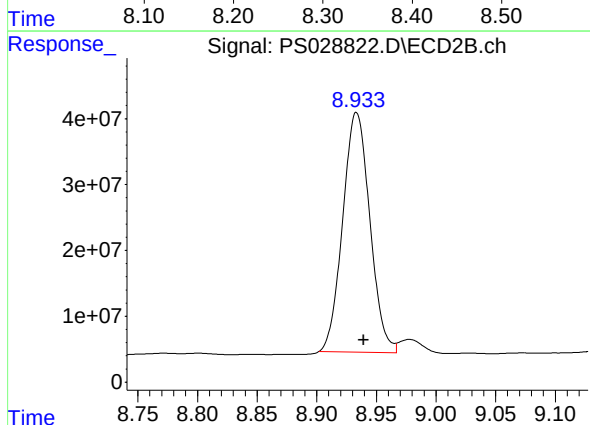
#9 2,4-D

R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 1303109684
Conc: 457.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

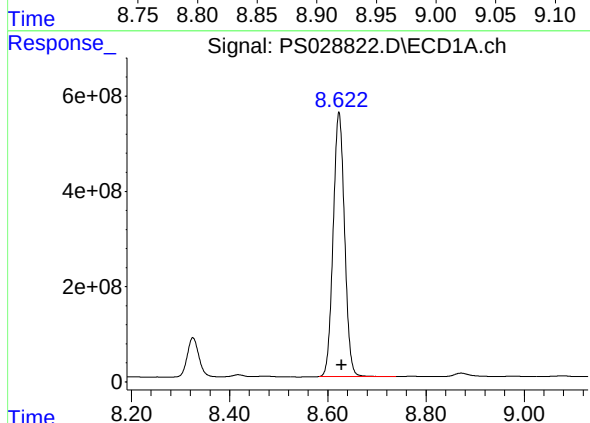
Manual Integrations
APPROVED

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Supervised By :Ankita Jodhani 12/27/2024



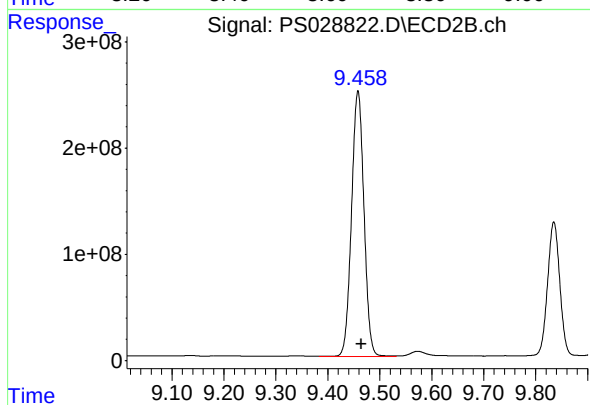
#9 2,4-D

R.T.: 8.933 min
Delta R.T.: -0.006 min
Response: 576975012
Conc: 399.80 ng/ml



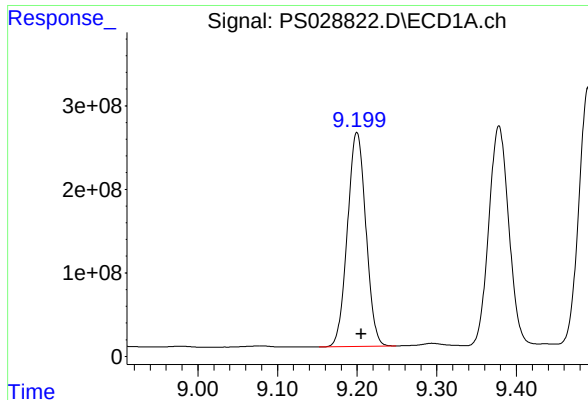
#10 Pentachlorophenol

R.T.: 8.623 min
Delta R.T.: -0.005 min
Response: 8952240513
Conc: 229.15 ng/ml



#10 Pentachlorophenol

R.T.: 9.458 min
Delta R.T.: -0.006 min
Response: 4153515275
Conc: 190.54 ng/ml



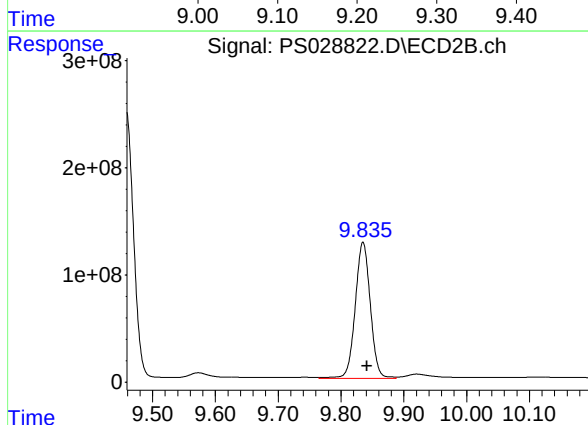
#11 2,4,5-TP (SILVEX)

R.T.: 9.200 min
Delta R.T.: -0.006 min
Response: 4130706060
Conc: 262.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

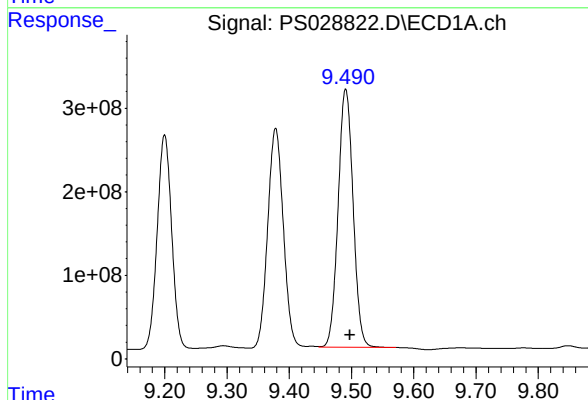
Manual Integrations
APPROVED

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Supervised By :Ankita Jodhani 12/27/2024



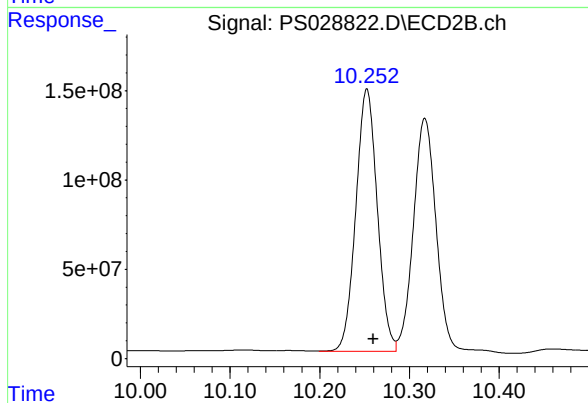
#11 2,4,5-TP (SILVEX)

R.T.: 9.835 min
Delta R.T.: -0.007 min
Response: 2118714928
Conc: 235.84 ng/ml



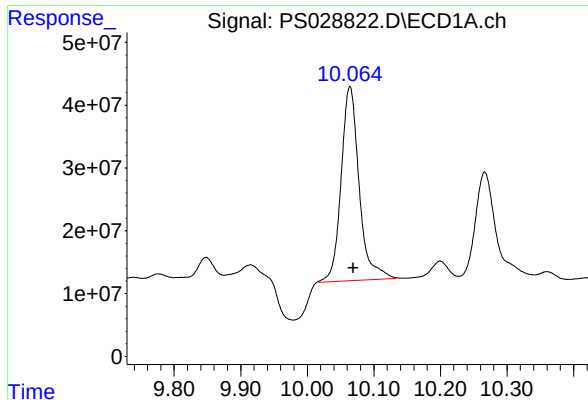
#12 2,4,5-T

R.T.: 9.490 min
Delta R.T.: -0.007 min
Response: 5163624155
Conc: 317.39 ng/ml m



#12 2,4,5-T

R.T.: 10.252 min
Delta R.T.: -0.008 min
Response: 2444082075
Conc: 280.63 ng/ml m



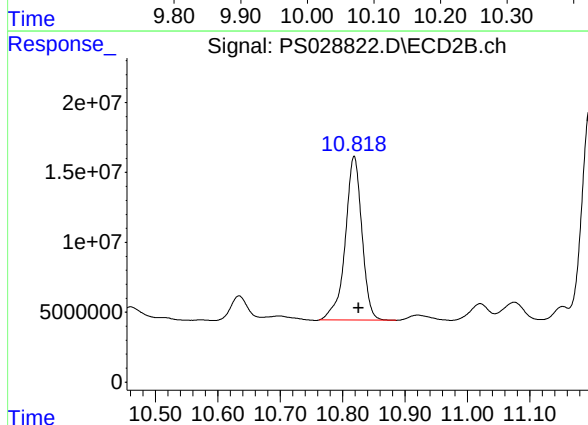
#13 2,4-DB

R.T.: 10.064 min
Delta R.T.: -0.006 min
Response: 581192864
Conc: 186.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

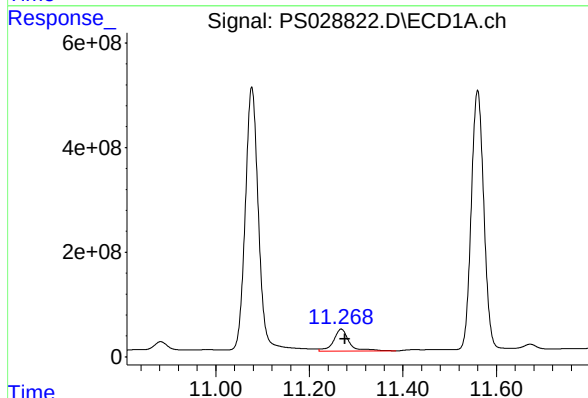
Manual Integrations
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Supervised By :Ankita Jodhani 12/27/2024



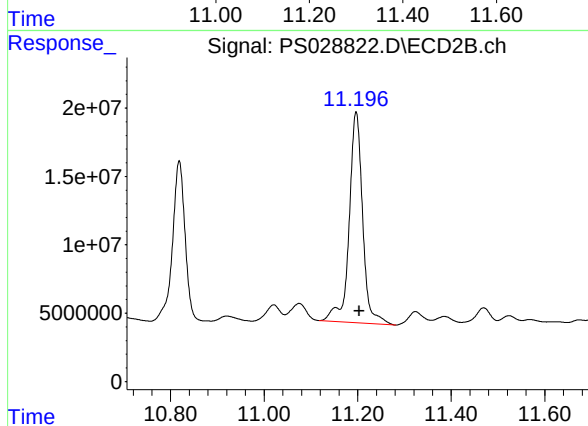
#13 2,4-DB

R.T.: 10.818 min
Delta R.T.: -0.007 min
Response: 217392170
Conc: 223.86 ng/ml



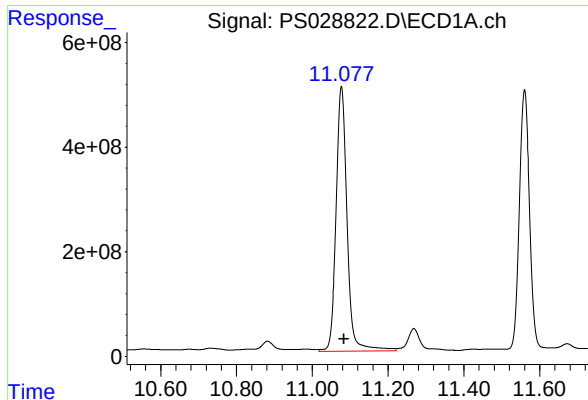
#14 DINOSEB

R.T.: 11.268 min
Delta R.T.: -0.008 min
Response: 987697998
Conc: 73.48 ng/ml



#14 DINOSEB

R.T.: 11.197 min
Delta R.T.: -0.007 min
Response: 308578838
Conc: 50.10 ng/ml



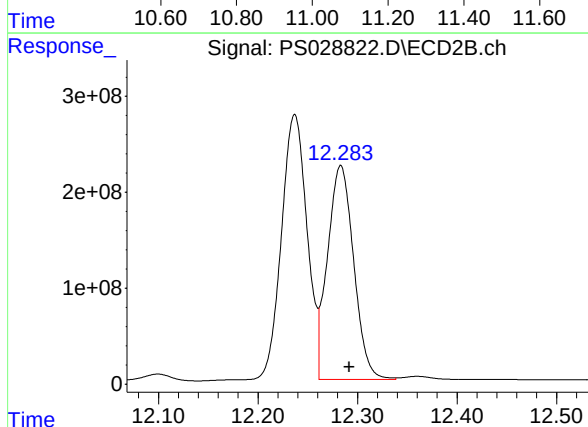
#15 Picloram

R.T.: 11.077 min
Delta R.T.: -0.007 min
Response: 10143129588
Conc: 378.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

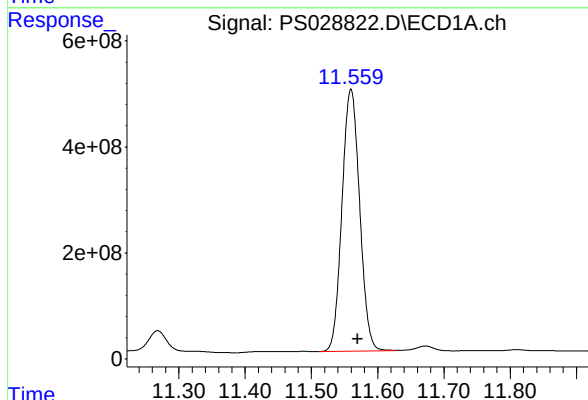
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



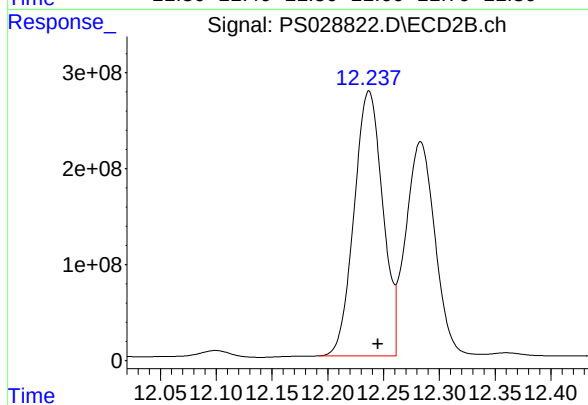
#15 Picloram

R.T.: 12.283 min
Delta R.T.: -0.009 min
Response: 4079739156
Conc: 317.76 ng/ml



#16 DCPA

R.T.: 11.559 min
Delta R.T.: -0.011 min
Response: 9156284781
Conc: 380.70 ng/ml m



#16 DCPA

R.T.: 12.237 min
Delta R.T.: -0.008 min
Response: 4937040029
Conc: 459.49 ng/ml

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-14-121224MSD	SDG No.:	P5306
Lab Sample ID:	P5306-15MSD	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	95.9
Sample Wt/Vol:	30.07 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028823.D	1	12/20/24 08:20	12/26/24 17:52	PB165776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	0.14		0.0090	0.034	0.070	mg/Kg
75-99-0	DALAPON	0.14		0.026	0.052	0.070	mg/Kg
120-36-5	DICHLORPROP	0.11		0.0099	0.034	0.070	mg/Kg
94-75-7	2,4-D	0.16		0.013	0.034	0.070	mg/Kg
93-72-1	2,4,5-TP (Silvex)	0.091		0.0098	0.034	0.070	mg/Kg
93-76-5	2,4,5-T	0.11		0.011	0.034	0.070	mg/Kg
94-82-6	2,4-DB	0.078		0.019	0.034	0.070	mg/Kg
88-85-7	DINOSEB	0.026	JP	0.013	0.052	0.070	mg/Kg
SURROGATES							
19719-28-9	2,4-DCAA	507		27 - 122		101%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028823.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 17:52
 Operator : AR\AJ
 Sample : P5306-15MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-14-121224MSD

Manual Integrations APPROVED

Reviewed By : Abdul Mirza 12/27/2024
 Supervised By : Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:42:38 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	7.206	7.696	1146.6E6	464.3E6	506.912	412.525
Target Compounds						
1) T Dalapon	2.622	2.676	958.3E6	777.0E6	340.224m	394.709m
2) T 3,5-DICHL...	6.381	6.658	1257.8E6	513.6E6	381.713	309.879
3) T 4-Nitroph...	7.007	7.226	68581080	35398809	45.658	42.298m
5) T DICAMBA	7.392	7.893	4043.5E6	2022.6E6	410.066	368.422
6) T MCPP	7.570	7.994	163.3E6	86254950	26.225	26.395
7) T MCPA	7.720	8.236	277.4E6	166.7E6	31.643	35.984
8) T DICHLORPROP	8.096	8.606	856.7E6	388.9E6	322.907	281.890
9) T 2,4-D	8.325	8.934	1339.5E6	587.2E6	470.075m	406.866m
10) T Pentachlo...	8.623	9.459	8946.9E6	4170.0E6	229.014m	191.294
11) T 2,4,5-TP ...	9.199	9.836	4119.7E6	2121.3E6	262.247	236.127
12) T 2,4,5-T	9.490	10.254	5335.7E6	2491.1E6	327.961	286.033
13) T 2,4-DB	10.063	10.819	581.9E6	217.8E6	186.402m	224.268
14) T DINOSEB	11.267	11.198	1007.3E6	311.6E6	74.938	50.587 #
15) T Picloram	11.077	12.284	10108.0E6	4098.7E6	376.983	319.240
16) T DCPA	11.560	12.237	9093.8E6	4946.5E6	378.103m	460.374

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028823.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 17:52
Operator : AR\AJ
Sample : P5306-15MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

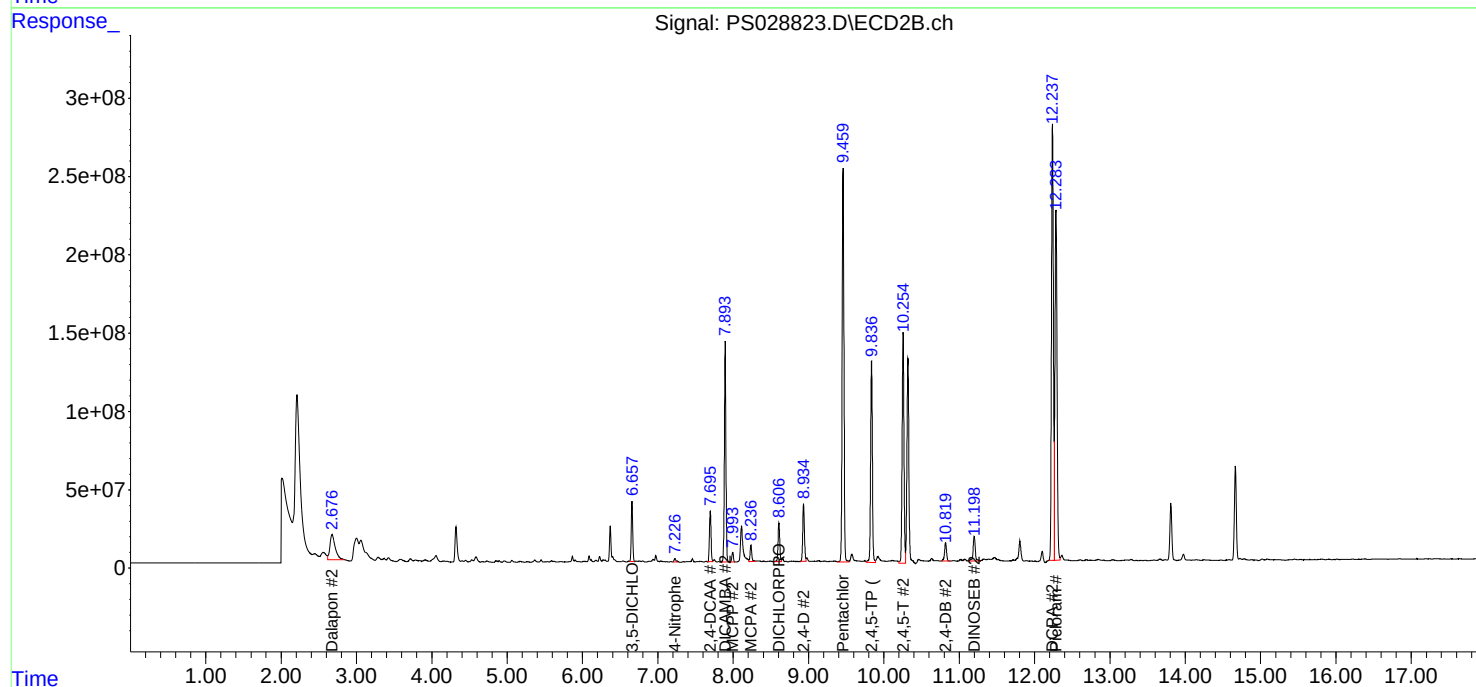
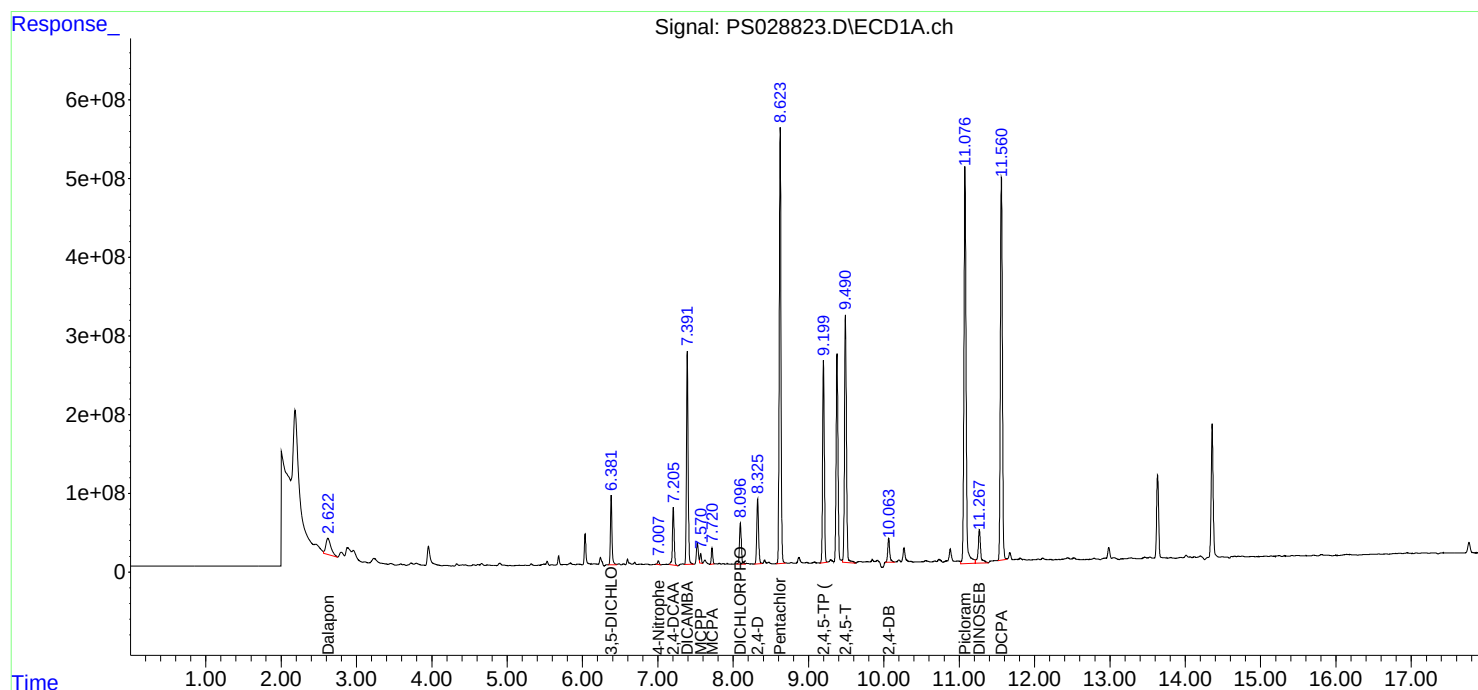
Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

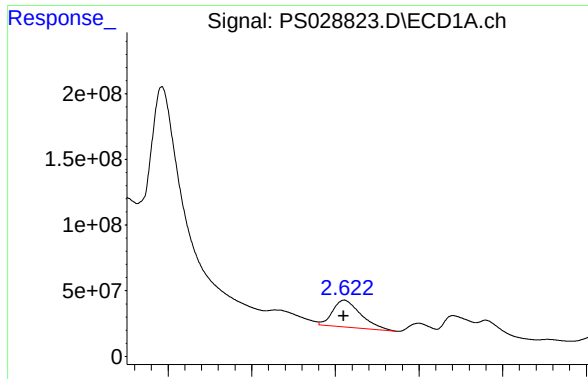
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:42:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





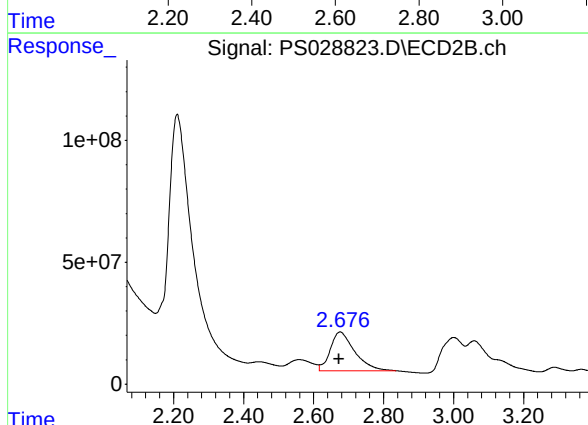
#1 Dalapon

R.T.: 2.622 min
Delta R.T.: 0.002 min
Response: 958292640
Conc: 340.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

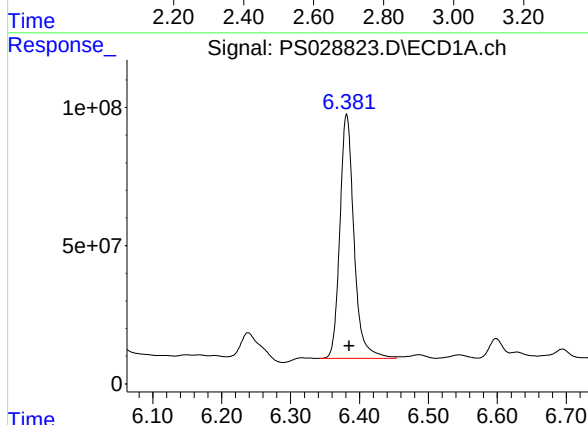
Manual Integrations
APPROVED

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Supervised By :Ankita Jodhani 12/27/2024



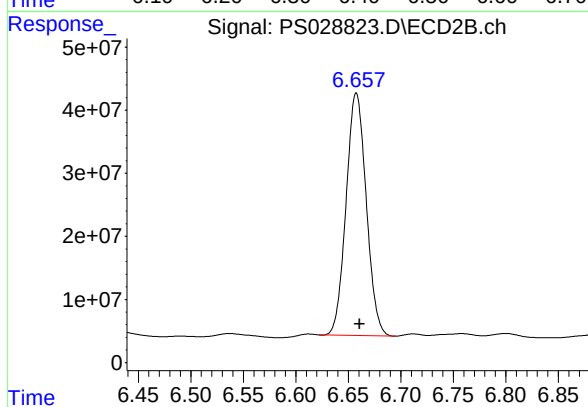
#1 Dalapon

R.T.: 2.676 min
Delta R.T.: 0.003 min
Response: 777025995
Conc: 394.71 ng/ml



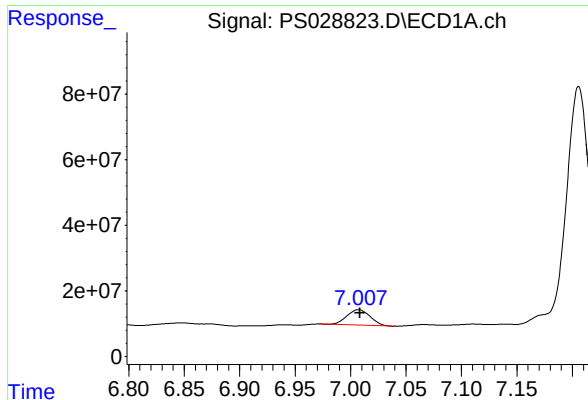
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1257797079
Conc: 381.71 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.658 min
Delta R.T.: -0.003 min
Response: 513647497
Conc: 309.88 ng/ml



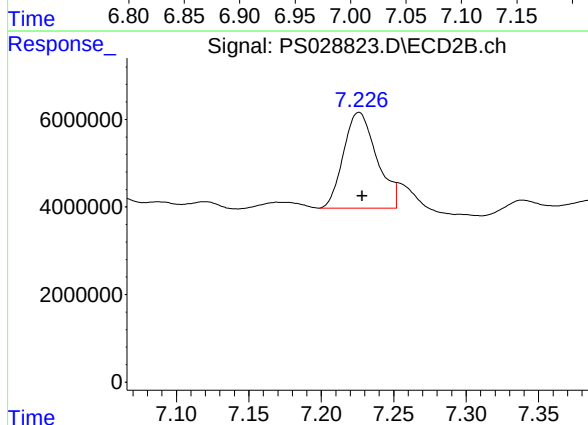
#3 4-Nitrophenol

R.T.: 7.007 min
Delta R.T.: -0.001 min
Response: 68581080
Conc: 45.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

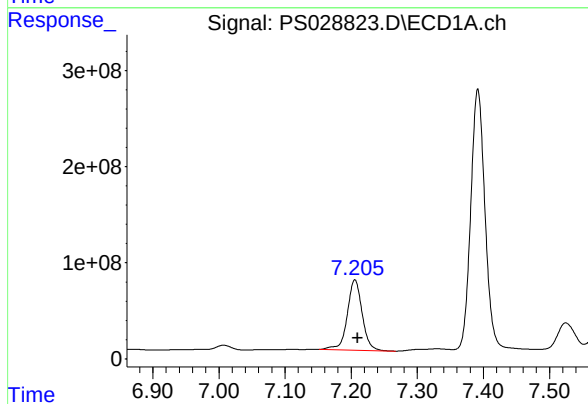
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



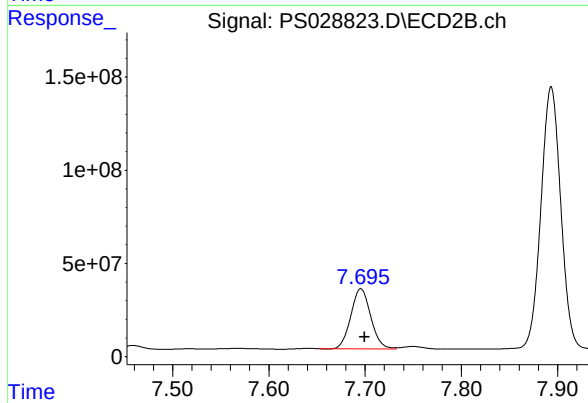
#3 4-Nitrophenol

R.T.: 7.226 min
Delta R.T.: -0.002 min
Response: 35398809
Conc: 42.30 ng/ml



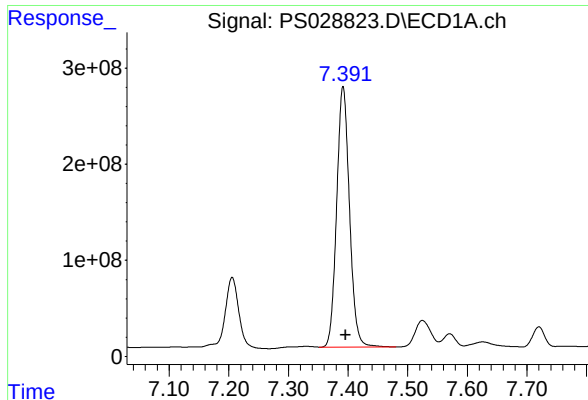
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1146648447
Conc: 506.91 ng/ml



#4 2,4-DCAA

R.T.: 7.696 min
Delta R.T.: -0.004 min
Response: 464311991
Conc: 412.52 ng/ml



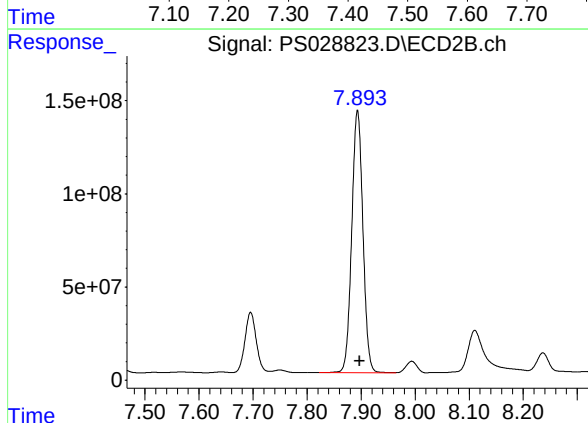
#5 DICAMBA

R.T.: 7.392 min
Delta R.T.: -0.004 min
Response: 4043513847
Conc: 410.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

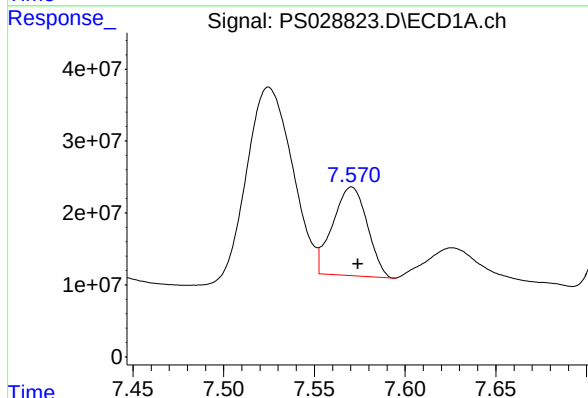
Manual Integrations
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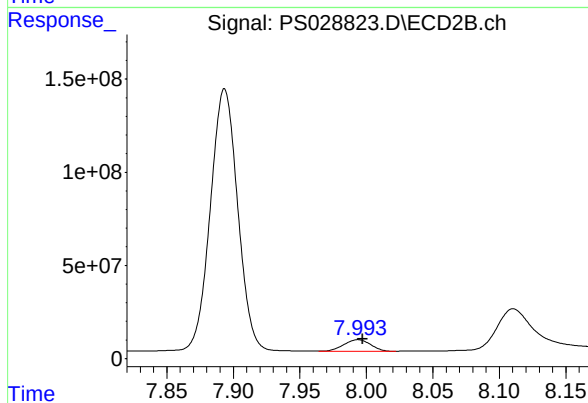
#5 DICAMBA

R.T.: 7.893 min
Delta R.T.: -0.004 min
Response: 2022591767
Conc: 368.42 ng/ml



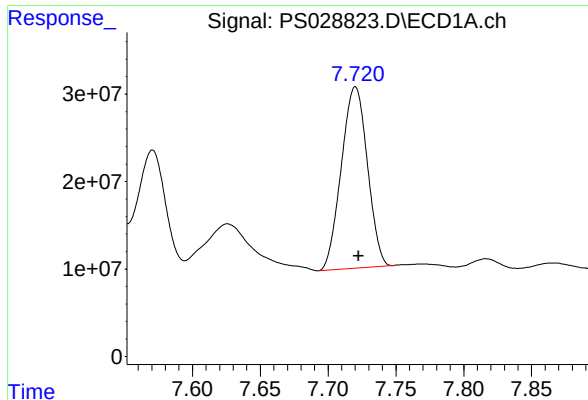
#6 MCP

R.T.: 7.570 min
Delta R.T.: -0.004 min
Response: 163305560
Conc: 26.22 ug/ml



#6 MCP

R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 86254950
Conc: 26.40 ug/ml



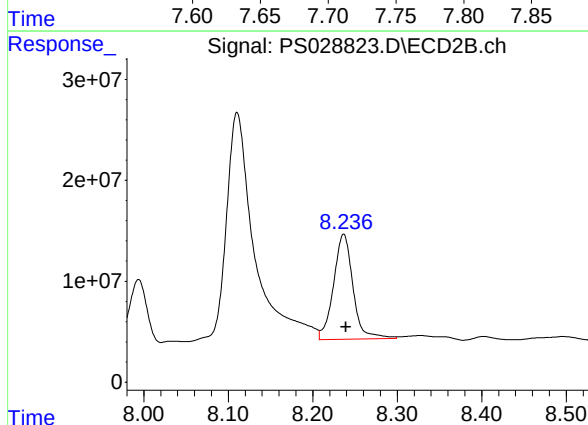
#7 MCPA

R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 277369270
Conc: 31.64 ug/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

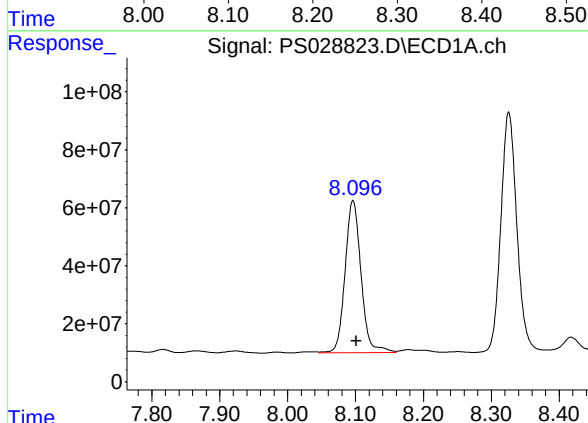
Manual Integrations
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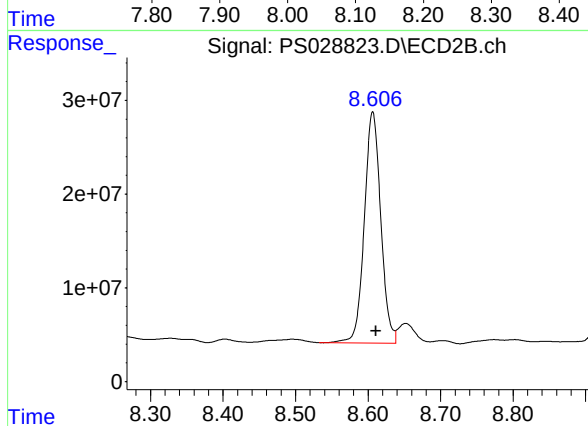
#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 166711194
Conc: 35.98 ug/ml



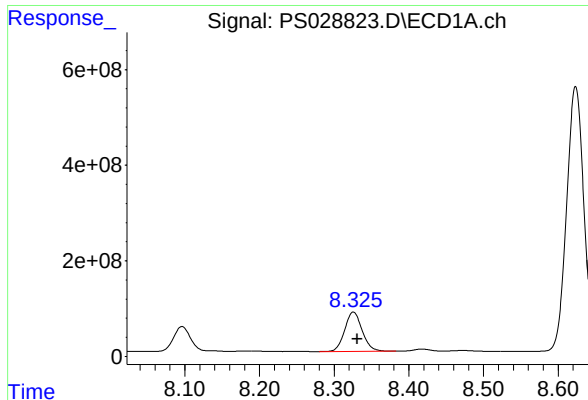
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 856728787
Conc: 322.91 ng/ml



#8 DICHLORPROP

R.T.: 8.606 min
Delta R.T.: -0.005 min
Response: 388912099
Conc: 281.89 ng/ml



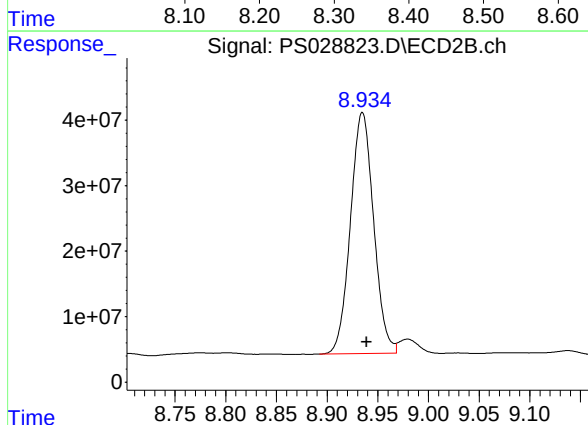
#9 2,4-D

R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 1339494194
Conc: 470.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

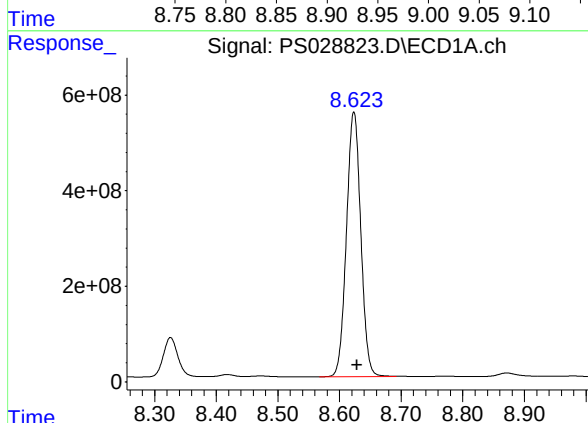
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



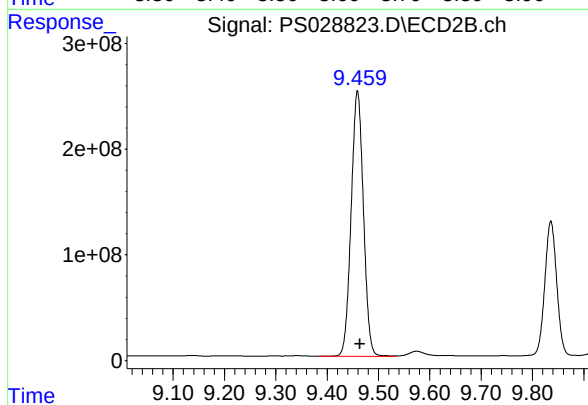
#9 2,4-D

R.T.: 8.934 min
Delta R.T.: -0.005 min
Response: 587166976
Conc: 406.87 ng/ml m



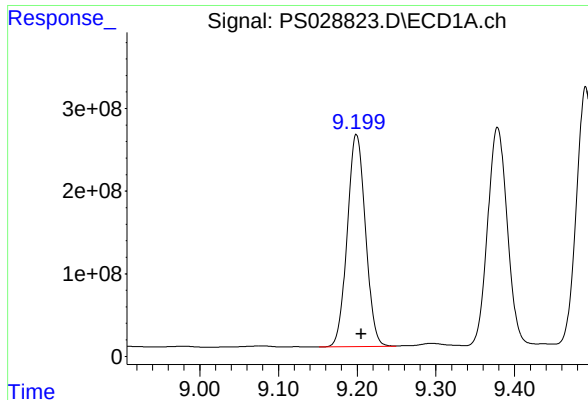
#10 Pentachlorophenol

R.T.: 8.623 min
Delta R.T.: -0.005 min
Response: 8946892195
Conc: 229.01 ng/ml m



#10 Pentachlorophenol

R.T.: 9.459 min
Delta R.T.: -0.005 min
Response: 4169959365
Conc: 191.29 ng/ml



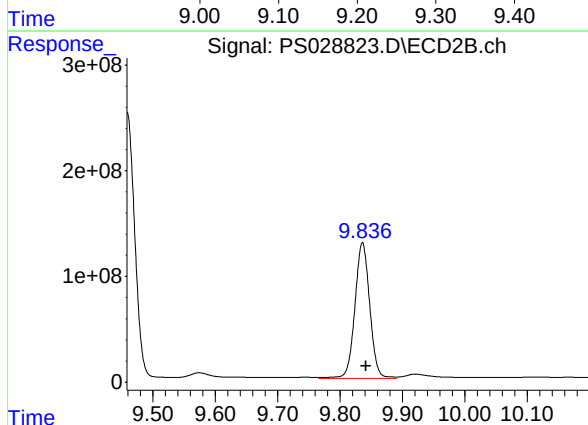
#11 2,4,5-TP (SILVEX)

R.T.: 9.199 min
Delta R.T.: -0.006 min
Response: 4119730257
Conc: 262.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

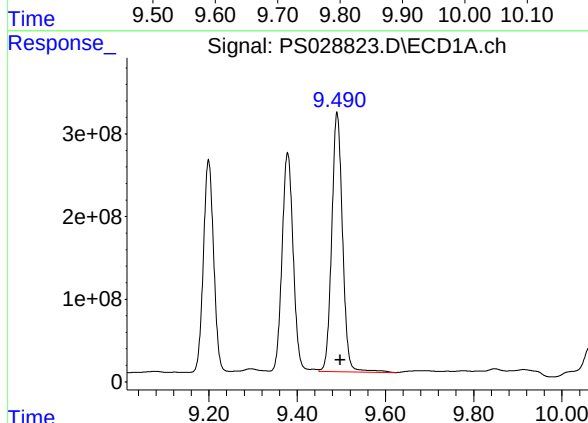
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



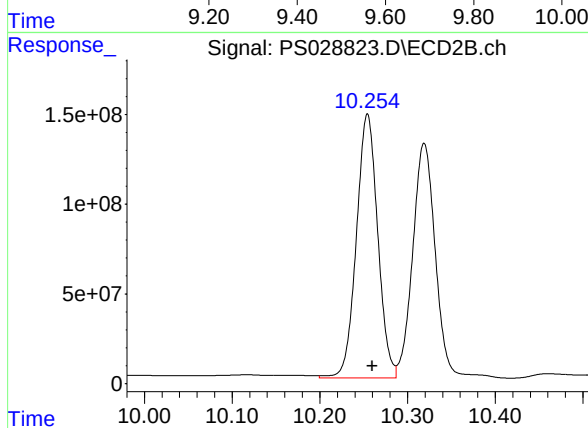
#11 2,4,5-TP (SILVEX)

R.T.: 9.836 min
Delta R.T.: -0.006 min
Response: 2121253591
Conc: 236.13 ng/ml



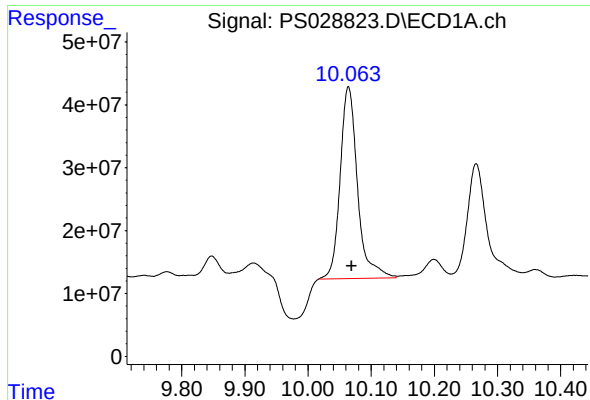
#12 2,4,5-T

R.T.: 9.490 min
Delta R.T.: -0.007 min
Response: 5335661881
Conc: 327.96 ng/ml



#12 2,4,5-T

R.T.: 10.254 min
Delta R.T.: -0.006 min
Response: 2491110696
Conc: 286.03 ng/ml



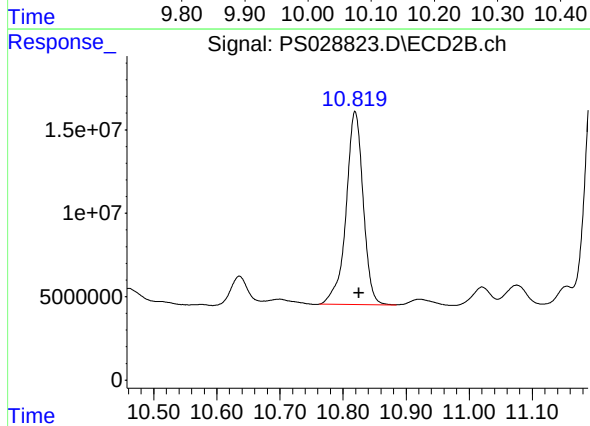
#13 2,4-DB

R.T.: 10.063 min
Delta R.T.: -0.006 min
Response: 581871836
Conc: 186.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

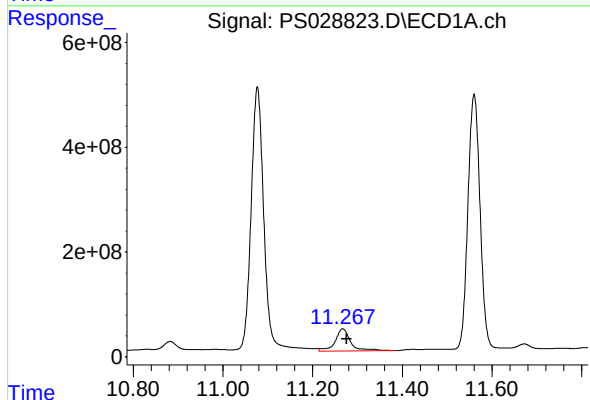
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



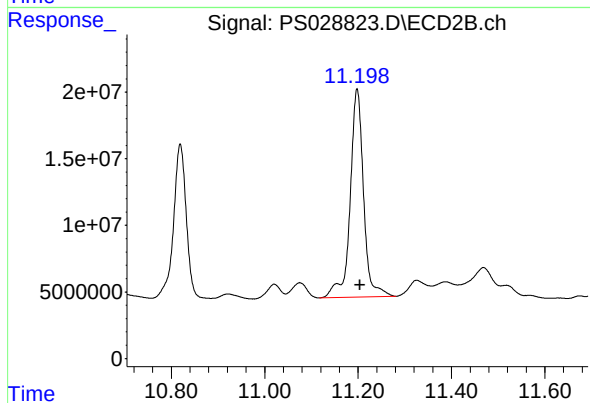
#13 2,4-DB

R.T.: 10.819 min
Delta R.T.: -0.007 min
Response: 217786039
Conc: 224.27 ng/ml



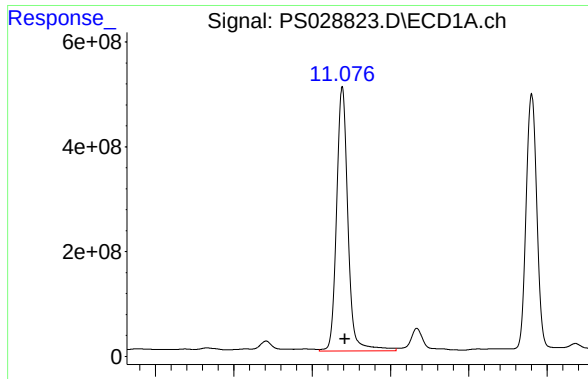
#14 DINOSEB

R.T.: 11.267 min
Delta R.T.: -0.009 min
Response: 1007296294
Conc: 74.94 ng/ml



#14 DINOSEB

R.T.: 11.198 min
Delta R.T.: -0.006 min
Response: 311574996
Conc: 50.59 ng/ml



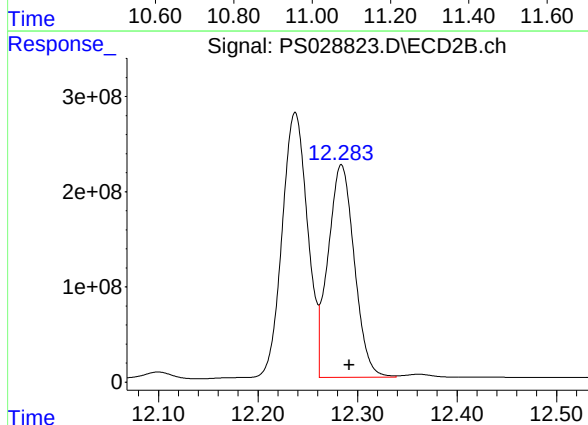
#15 Picloram

R.T.: 11.077 min
Delta R.T.: -0.007 min
Response: 10107966927
Conc: 376.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

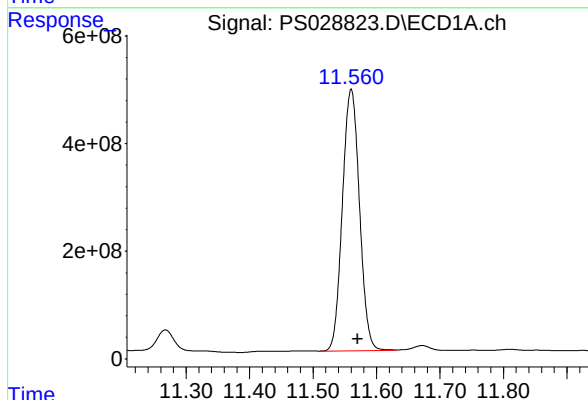
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/27/2024
Supervised By :Ankita Jodhani 12/27/2024



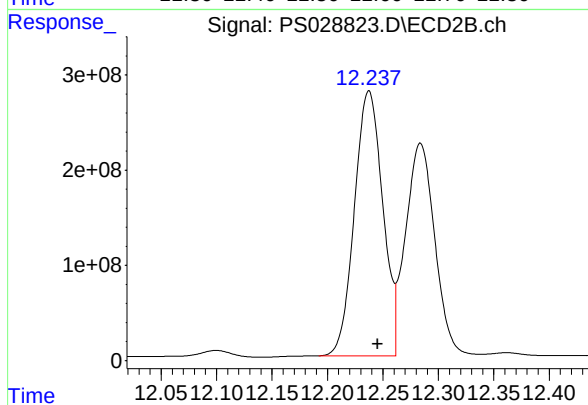
#15 Picloram

R.T.: 12.284 min
Delta R.T.: -0.008 min
Response: 4098729458
Conc: 319.24 ng/ml



#16 DCPA

R.T.: 11.560 min
Delta R.T.: -0.010 min
Response: 9093760469
Conc: 378.10 ng/ml m



#16 DCPA

R.T.: 12.237 min
Delta R.T.: -0.008 min
Response: 4946526152
Conc: 460.37 ng/ml

Manual Integration Report

Sequence:	PS122324	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS028787.D	MCPP	Abdul	12/26/2024 8:03:36 AM	Ankita	12/27/2024 7:49:25	Peak Integrated by Software
HSTDICC1000	PS028790.D	2,4-DCAA	Abdul	12/26/2024 8:03:40 AM	Ankita	12/27/2024 7:49:27	Peak Integrated by Software
PB165776BS	PS028798.D	MCPP	Abdul	12/30/2024 9:08:51 AM	Ankita	12/30/2024 3:31:14	Peak Integrated by Software
P5306-01	PS028801.D	2,4-DCAA #2	Abdul	12/26/2024 8:03:56 AM	Ankita	12/27/2024 7:49:34	Peak Integrated by Software
P5306-03	PS028802.D	2,4-DCAA #2	Abdul	12/26/2024 8:04:00 AM	Ankita	12/27/2024 7:49:35	Peak Integrated by Software
P5306-05	PS028803.D	2,4-DCAA #2	Abdul	12/26/2024 8:04:04 AM	Ankita	12/27/2024 7:49:37	Peak Integrated by Software
P5306-07	PS028804.D	2,4-DCAA #2	Abdul	12/26/2024 8:04:07 AM	Ankita	12/27/2024 7:49:38	Peak Integrated by Software
P5306-09	PS028805.D	2,4-DCAA #2	Abdul	12/26/2024 8:04:12 AM	Ankita	12/27/2024 7:49:40	Peak Integrated by Software
P5306-11	PS028806.D	2,4-DCAA #2	Abdul	12/26/2024 8:04:16 AM	Ankita	12/27/2024 7:49:42	Peak Integrated by Software

Manual Integration Report

Sequence:	ps122624	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028820.D	DCPA	Abdul	12/27/2024 8:03:44 AM	Ankita	12/27/2024 8:19:33	Peak Integrated by Software
P5306-13	PS028821.D	2,4-DCAA #2	Abdul	12/27/2024 8:03:49 AM	Ankita	12/27/2024 8:19:34	Peak Integrated by Software
P5306-15MS	PS028822.D	2,4,5-T	Abdul	12/27/2024 8:03:53 AM	Ankita	12/27/2024 8:19:36	Peak Integrated by Software
P5306-15MS	PS028822.D	2,4,5-T #2	Abdul	12/27/2024 8:03:53 AM	Ankita	12/27/2024 8:19:36	Peak Integrated by Software
P5306-15MS	PS028822.D	2,4-DB	Abdul	12/27/2024 8:03:53 AM	Ankita	12/27/2024 8:19:36	Peak Integrated by Software
P5306-15MS	PS028822.D	4-Nitrophenol #2	Abdul	12/27/2024 8:03:53 AM	Ankita	12/27/2024 8:19:36	Peak Integrated by Software
P5306-15MS	PS028822.D	Dalapon	Abdul	12/27/2024 8:03:53 AM	Ankita	12/27/2024 8:19:36	Peak Integrated by Software
P5306-15MS	PS028822.D	Dalapon #2	Abdul	12/27/2024 8:03:53 AM	Ankita	12/27/2024 8:19:36	Peak Integrated by Software
P5306-15MS	PS028822.D	DCPA	Abdul	12/27/2024 8:03:53 AM	Ankita	12/27/2024 8:19:36	Peak Integrated by Software
P5306-15MS	PS028822.D	MCPP	Abdul	12/27/2024 8:03:53 AM	Ankita	12/27/2024 8:19:36	Peak Integrated by Software
P5306-15MSD	PS028823.D	2,4-D	Abdul	12/27/2024 8:03:58 AM	Ankita	12/27/2024 8:19:38	Peak Integrated by Software
P5306-15MSD	PS028823.D	2,4-D #2	Abdul	12/27/2024 8:03:58 AM	Ankita	12/27/2024 8:19:38	Peak Integrated by Software
P5306-15MSD	PS028823.D	2,4-DB	Abdul	12/27/2024 8:03:58 AM	Ankita	12/27/2024 8:19:38	Peak Integrated by Software

Manual Integration Report

Sequence:

ps122624

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5306-15MSD	PS028823.D	4-Nitrophenol #2	Abdul	12/27/2024 8:03:58 AM	Ankita	12/27/2024 8:19:38	Peak Integrated by Software
P5306-15MSD	PS028823.D	Dalapon	Abdul	12/27/2024 8:03:58 AM	Ankita	12/27/2024 8:19:38	Peak Integrated by Software
P5306-15MSD	PS028823.D	Dalapon #2	Abdul	12/27/2024 8:03:58 AM	Ankita	12/27/2024 8:19:38	Peak Integrated by Software
P5306-15MSD	PS028823.D	DCPA	Abdul	12/27/2024 8:03:58 AM	Ankita	12/27/2024 8:19:38	Peak Integrated by Software
P5306-15MSD	PS028823.D	Pentachlorophenol	Abdul	12/27/2024 8:03:58 AM	Ankita	12/27/2024 8:19:38	Peak Integrated by Software

Manual Integration Report

Sequence:

ps123024

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028853.D	DCPA	yogesh	12/31/2024 7:58:55 AM	Ankita	12/31/2024 7:59:20	Peak Integrated by Software
HSTDCCC750	PS028859.D	DCPA	yogesh	12/31/2024 7:58:58 AM	Ankita	12/31/2024 7:59:23	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM
SubDirectory	PS122324	HP Acquire Method	HP Processing Method ps122324 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028785.D	23 Dec 2024 10:36	AR\AJ	Ok
2	I.BLK	PS028786.D	23 Dec 2024 11:00	AR\AJ	Ok
3	HSTDICC200	PS028787.D	23 Dec 2024 11:23	AR\AJ	Ok,M
4	HSTDICC500	PS028788.D	23 Dec 2024 11:47	AR\AJ	Ok
5	HSTDICC750	PS028789.D	23 Dec 2024 12:11	AR\AJ	Ok
6	HSTDICC1000	PS028790.D	23 Dec 2024 12:35	AR\AJ	Ok,M
7	HSTDICC1500	PS028791.D	23 Dec 2024 12:59	AR\AJ	Ok
8	HSTDICV750	PS028792.D	23 Dec 2024 13:23	AR\AJ	Ok
9	I.BLK	PS028793.D	23 Dec 2024 13:47	AR\AJ	Ok
10	HSTDCCC750	PS028794.D	23 Dec 2024 14:11	AR\AJ	Ok
11	P5330-01	PS028795.D	23 Dec 2024 14:34	AR\AJ	Ok,M
12	P5355-01	PS028796.D	23 Dec 2024 14:58	AR\AJ	Ok,M
13	PB165776BL	PS028797.D	23 Dec 2024 15:22	AR\AJ	Ok
14	PB165776BS	PS028798.D	23 Dec 2024 15:46	AR\AJ	Ok,M
15	I.BLK	PS028799.D	23 Dec 2024 16:10	AR\AJ	Ok
16	HSTDCCC750	PS028800.D	23 Dec 2024 16:34	AR\AJ	Ok
17	P5306-01	PS028801.D	23 Dec 2024 16:58	AR\AJ	Ok,M
18	P5306-03	PS028802.D	23 Dec 2024 17:22	AR\AJ	Ok,M
19	P5306-05	PS028803.D	23 Dec 2024 17:46	AR\AJ	Ok,M
20	P5306-07	PS028804.D	23 Dec 2024 18:10	AR\AJ	Ok,M
21	P5306-09	PS028805.D	23 Dec 2024 18:33	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM
SubDirectory	PS122324	HP Acquire Method	HP Processing Method ps122324 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

22	P5306-11	PS028806.D	23 Dec 2024 18:57	AR\AJ	Ok,M
23	P5306-13	PS028807.D	23 Dec 2024 19:21	AR\AJ	Not Ok
24	P5306-15MS	PS028808.D	23 Dec 2024 19:45	AR\AJ	Not Ok
25	P5306-15MSD	PS028809.D	23 Dec 2024 20:09	AR\AJ	Not Ok
26	I.BLK	PS028810.D	23 Dec 2024 20:33	AR\AJ	Ok
27	HSTDCCC750	PS028811.D	23 Dec 2024 20:57	AR\AJ	Ok
28	PB165784BL	PS028812.D	23 Dec 2024 21:21	AR\AJ	Ok
29	P5356-01	PS028813.D	23 Dec 2024 21:45	AR\AJ	Ok
30	PB165784BS	PS028814.D	23 Dec 2024 22:09	AR\AJ	Ok
31	PB165784BSD	PS028815.D	23 Dec 2024 22:32	AR\AJ	Ok,M
32	I.BLK	PS028816.D	23 Dec 2024 22:56	AR\AJ	Ok
33	HSTDCCC750	PS028817.D	23 Dec 2024 23:20	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122624

Review By	Abdul	Review On	12/27/2024 8:04:20 AM
Supervise By	Ankita	Supervise On	12/27/2024 8:19:46 AM
SubDirectory	PS122624	HP Acquire Method	HP Processing Method ps122324 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028818.D	26 Dec 2024 10:19	AR\AJ	Ok
2	I.BLK	PS028819.D	26 Dec 2024 10:43	AR\AJ	Ok
3	HSTDCCC750	PS028820.D	26 Dec 2024 11:07	AR\AJ	Ok,M
4	P5306-13	PS028821.D	26 Dec 2024 17:05	AR\AJ	Ok,M
5	P5306-15MS	PS028822.D	26 Dec 2024 17:29	AR\AJ	Ok,M
6	P5306-15MSD	PS028823.D	26 Dec 2024 17:52	AR\AJ	Ok,M
7	I.BLK	PS028824.D	26 Dec 2024 18:16	AR\AJ	Ok
8	HSTDCCC750	PS028825.D	26 Dec 2024 18:40	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS123024

Review By	yogesh	Review On	12/31/2024 7:59:06 AM
Supervise By	Ankita	Supervise On	12/31/2024 7:59:28 AM
SubDirectory	PS123024	HP Acquire Method	HP Processing Method ps122324 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028847.D	30 Dec 2024 08:41	AR\AJ	Ok
2	I.BLK	PS028848.D	30 Dec 2024 09:05	AR\AJ	Ok
3	HSTDCCC750	PS028849.D	30 Dec 2024 10:25	AR\AJ	Ok
4	P5380-02RE	PS028850.D	30 Dec 2024 10:50	AR\AJ	Confirms
5	P5306-15	PS028851.D	30 Dec 2024 11:14	AR\AJ	Ok
6	I.BLK	PS028852.D	30 Dec 2024 11:38	AR\AJ	Ok
7	HSTDCCC750	PS028853.D	30 Dec 2024 12:02	AR\AJ	Ok,M
8	PB165905BL	PS028854.D	30 Dec 2024 16:03	AR\AJ	Ok
9	PB165905BS	PS028855.D	30 Dec 2024 16:51	AR\AJ	Ok
10	PB165905BSD	PS028856.D	30 Dec 2024 17:16	AR\AJ	Ok
11	P5386-05	PS028857.D	30 Dec 2024 17:39	AR\AJ	Ok,M
12	I.BLK	PS028858.D	30 Dec 2024 18:03	AR\AJ	Ok
13	HSTDCCC750	PS028859.D	30 Dec 2024 18:27	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM
SubDirectory	PS122324	HP Acquire Method	HP Processing Method ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028785.D	23 Dec 2024 10:36		AR\AJ	Ok
2	I.BLK	I.BLK	PS028786.D	23 Dec 2024 11:00		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028787.D	23 Dec 2024 11:23		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS028788.D	23 Dec 2024 11:47		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS028789.D	23 Dec 2024 12:11		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028790.D	23 Dec 2024 12:35		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028791.D	23 Dec 2024 12:59		AR\AJ	Ok
8	HSTDICV750	ICVPS122324	PS028792.D	23 Dec 2024 13:23		AR\AJ	Ok
9	I.BLK	I.BLK	PS028793.D	23 Dec 2024 13:47		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028794.D	23 Dec 2024 14:11		AR\AJ	Ok
11	P5330-01	TP-5	PS028795.D	23 Dec 2024 14:34		AR\AJ	Ok,M
12	P5355-01	RBR251688	PS028796.D	23 Dec 2024 14:58		AR\AJ	Ok,M
13	PB165776BL	PB165776BL	PS028797.D	23 Dec 2024 15:22		AR\AJ	Ok
14	PB165776BS	PB165776BS	PS028798.D	23 Dec 2024 15:46		AR\AJ	Ok,M
15	I.BLK	I.BLK	PS028799.D	23 Dec 2024 16:10		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS028800.D	23 Dec 2024 16:34		AR\AJ	Ok
17	P5306-01	OU4-VSL-07-121224	PS028801.D	23 Dec 2024 16:58		AR\AJ	Ok,M
18	P5306-03	OU4-VSL-08-121224	PS028802.D	23 Dec 2024 17:22		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM
SubDirectory	PS122324	HP Acquire Method	HP Processing Method ps122324 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC	PP24066		
Internal Standard/PEM	PP24069,PP24070		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P5306-05	OU4-VSL-09-121224	PS028803.D	23 Dec 2024 17:46		AR\AJ	Ok,M
20	P5306-07	OU4-VSL-10-121224	PS028804.D	23 Dec 2024 18:10		AR\AJ	Ok,M
21	P5306-09	OU4-VSL-11-121224	PS028805.D	23 Dec 2024 18:33		AR\AJ	Ok,M
22	P5306-11	OU4-VSL-12-121224	PS028806.D	23 Dec 2024 18:57		AR\AJ	Ok,M
23	P5306-13	OU4-VSL-13-121224	PS028807.D	23 Dec 2024 19:21	2,4-DCAA low in both column	AR\AJ	Not Ok
24	P5306-15MS	OU4-VSL-14-121224M	PS028808.D	23 Dec 2024 19:45	2,4-DCAA high in first column , compound#14 recovery fail	AR\AJ	Not Ok
25	P5306-15MSD	OU4-VSL-14-121224M	PS028809.D	23 Dec 2024 20:09	2,4-DCAA high in first column , compound#14 recovery fail	AR\AJ	Not Ok
26	I.BLK	I.BLK	PS028810.D	23 Dec 2024 20:33		AR\AJ	Ok
27	HSTDCCC750	HSTDCCC750	PS028811.D	23 Dec 2024 20:57		AR\AJ	Ok
28	PB165784BL	PB165784BL	PS028812.D	23 Dec 2024 21:21		AR\AJ	Ok
29	P5356-01	STAND-PIPE	PS028813.D	23 Dec 2024 21:45		AR\AJ	Ok
30	PB165784BS	PB165784BS	PS028814.D	23 Dec 2024 22:09		AR\AJ	Ok
31	PB165784BSD	PB165784BSD	PS028815.D	23 Dec 2024 22:32		AR\AJ	Ok,M
32	I.BLK	I.BLK	PS028816.D	23 Dec 2024 22:56		AR\AJ	Ok
33	HSTDCCC750	HSTDCCC750	PS028817.D	23 Dec 2024 23:20		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS122624

Review By	Abdul	Review On	12/27/2024 8:04:20 AM
Supervise By	Ankita	Supervise On	12/27/2024 8:19:46 AM
SubDirectory	PS122624	HP Acquire Method	HP Processing Method ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028818.D	26 Dec 2024 10:19		AR\AJ	Ok
2	I.BLK	I.BLK	PS028819.D	26 Dec 2024 10:43		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028820.D	26 Dec 2024 11:07		AR\AJ	Ok,M
4	P5306-13	OU4-VSL-13-121224	PS028821.D	26 Dec 2024 17:05		AR\AJ	Ok,M
5	P5306-15MS	OU4-VSL-14-121224M	PS028822.D	26 Dec 2024 17:29	Comp#6,10 recovery fail	AR\AJ	Ok,M
6	P5306-15MSD	OU4-VSL-14-121224M	PS028823.D	26 Dec 2024 17:52	Comp#6,10 recovery fail	AR\AJ	Ok,M
7	I.BLK	I.BLK	PS028824.D	26 Dec 2024 18:16		AR\AJ	Ok
8	HSTDCCC750	HSTDCCC750	PS028825.D	26 Dec 2024 18:40		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS123024

Review By	yogesh	Review On	12/31/2024 7:59:06 AM
Supervise By	Ankita	Supervise On	12/31/2024 7:59:28 AM
SubDirectory	PS123024	HP Acquire Method	HP Processing Method ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028847.D	30 Dec 2024 08:41		AR\AJ	Ok
2	I.BLK	I.BLK	PS028848.D	30 Dec 2024 09:05		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028849.D	30 Dec 2024 10:25		AR\AJ	Ok
4	P5380-02RE	TAPIAL3-IDW-SOIL-12	PS028850.D	30 Dec 2024 10:50	2,4-DCAA high in 1st columns.	AR\AJ	Confirms
5	P5306-15	OU4-VSL-14-121224	PS028851.D	30 Dec 2024 11:14		AR\AJ	Ok
6	I.BLK	I.BLK	PS028852.D	30 Dec 2024 11:38		AR\AJ	Ok
7	HSTDCCC750	HSTDCCC750	PS028853.D	30 Dec 2024 12:02		AR\AJ	Ok,M
8	PB165905BL	PB165905BL	PS028854.D	30 Dec 2024 16:03		AR\AJ	Ok
9	PB165905BS	PB165905BS	PS028855.D	30 Dec 2024 16:51		AR\AJ	Ok
10	PB165905BSD	PB165905BSD	PS028856.D	30 Dec 2024 17:16		AR\AJ	Ok
11	P5386-05	MOO-24-00397	PS028857.D	30 Dec 2024 17:39		AR\AJ	Ok,M
12	I.BLK	I.BLK	PS028858.D	30 Dec 2024 18:03		AR\AJ	Ok
13	HSTDCCC750	HSTDCCC750	PS028859.D	30 Dec 2024 18:27		AR\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/17/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:12
Out Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133976

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P5245-03	72-12016	1	1.15	8.37	9.52	8.99	93.7	
P5299-01	SB-01	2	1.15	8.40	9.55	7.74	78.5	
P5299-02	SB-02	3	1.16	8.70	9.86	7.73	75.5	
P5299-03	SB-01	33	1.13	8.61	9.74	7.05	68.8	
P5299-04	SB-02	4	1.15	8.75	9.9	8.08	79.2	
P5306-01	OU4-VSL-07-121224	5	1.16	8.52	9.68	8.9	90.8	
P5306-03	OU4-VSL-08-121224	6	1.17	8.73	9.9	9.1	90.8	
P5306-05	OU4-VSL-09-121224	7	1.19	8.45	9.64	8.8	90.1	
P5306-07	OU4-VSL-10-121224	8	1.15	8.65	9.8	9.37	95.0	
P5306-09	OU4-VSL-11-121224	9	1.11	8.77	9.88	9.32	93.6	
P5306-11	OU4-VSL-12-121224	10	1.12	8.65	9.77	8.97	90.8	
P5306-13	OU4-VSL-13-121224	11	1.13	8.72	9.85	8.98	90.0	
P5306-15	OU4-VSL-14-121224	12	1.18	8.46	9.64	9.29	95.9	
P5306-17	OU4-VSL-06R-121224	13	1.15	8.80	9.95	9.22	91.7	
P5307-01	1A-1B-1C-ROOF-2	14	1.00	1.00	2.00	2.00	100.0	caluk
P5307-02	2A-2B-2C-ROOF-2	15	1.00	1.00	2.00	2.00	100.0	caluk
P5307-03	3A-3B-3C-1907	16	1.00	1.00	2.00	2.00	100.0	caluk
P5307-04	4A-4B-4C-1907	17	1.00	1.00	2.00	2.00	100.0	caluk
P5307-05	5A-5B-5C-1907	18	1.00	1.00	2.00	2.00	100.0	caluk
P5307-06	6A-6B-6C-1952	19	1.00	1.00	2.00	2.00	100.0	caluk
P5307-07	1907-BLDG-GRAY	20	1.00	1.00	2.00	2.00	100.0	caluk
P5307-08	1952-BLDG	21	1.00	1.00	2.00	2.00	100.0	caluk
P5307-09	9A-9B-9C-1907	22	1.00	1.00	2.00	2.00	100.0	caluk
P5307-10	1907-BLDG-OFF-WHITE	23	1.00	1.00	2.00	2.00	100.0	caluk
P5307-11	11A-11B-11C-1952-BLDG	24	1.00	1.00	2.00	2.00	100.0	caluk
P5307-12	12A-12B-12C-1952	25	1.00	1.00	2.00	2.00	100.0	caluk
P5307-13	13A-13B-13C-1952	26	1.00	1.00	2.00	2.00	100.0	caluk
P5307-14	14A-14B-14C-1907	27	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/17/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:12
Out Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133976

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P5307-15	15A-15B-15C-ROOF-7	28	1.00	1.00	2.00	2.00	100.0	caluk
P5312-01	SOIL-VNJ-222	29	1.15	8.43	9.58	8.55	87.8	
P5312-02	SOIL-VNJ-222	30	1.12	8.66	9.78	9.35	95.0	
P5312-03	CONCRETE-VNJ-222	31	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P5312-04	CONCRETE-VNJ-222	32	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Solid

Wegh By: RJ **Extraction By:** RJ

Balance check: RJ **Filter By:** RJ

Balance ID: EX-SC-2 **pH Meter ID:** N/A

pH Strip Lot#: N/A **Hood ID:** 3,7

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Extraction Start Date : 12/20/2024

Extraction Start Time : 08:20

Extraction End Date : 12/20/2024

Extraction End Time : 16:20

Concentration By: EH

Supervisor By : rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP23930
Surrogate	1.0ML	5000 PPB	PP23949
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2560
Acidified Na2SO4	N/A	EP2572
Sand	N/A	E2865
HCL	N/A	M6111
DI WATER	N/A	N/A
37% KOH	N/A	EP2563
Methylene Chloride	N/A	E3848
1:3 SULPHURIC ACID	N/A	EP2564
Ether	N/A	E3370
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2529
Hexane	N/A	E3826
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze,40ML Vial Lot # 03-40 BTS721..

KD Bath ID: N/A **Envap ID:** NEVAP-02

KD Bath Temperature: N/A **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/20/24	RP (E-1 Lab)	RP (E-1 Lab)
16:25	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 12/20/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165776BL	HBLK776	Herbicide Group1	30.02	N/A	ritesh	Evelyn	10			U3-1
PB165776BS	HLCS776	Herbicide Group1	30.01	N/A	ritesh	Evelyn	10			2
P5306-01	OU4-VSL-07-121224	Herbicide Group1	30.04	N/A	ritesh	Evelyn	10	E		3
P5306-03	OU4-VSL-08-121224	Herbicide Group1	30.09	N/A	ritesh	Evelyn	10	E		4
P5306-05	OU4-VSL-09-121224	Herbicide Group1	30.05	N/A	ritesh	Evelyn	10	E		5
P5306-07	OU4-VSL-10-121224	Herbicide Group1	30.06	N/A	ritesh	Evelyn	10	E		6
P5306-09	OU4-VSL-11-121224	Herbicide Group1	30.01	N/A	ritesh	Evelyn	10	E		U2-1
P5306-11	OU4-VSL-12-121224	Herbicide Group1	30.06	N/A	ritesh	Evelyn	10	E		2
P5306-13	OU4-VSL-13-121224	Herbicide Group1	30.03	N/A	ritesh	Evelyn	10	E		3
P5306-15	OU4-VSL-14-121224	Herbicide Group1	30.08	N/A	ritesh	Evelyn	10	E		4
P5306-15MS	OU4-VSL-14-121224MS	Herbicide Group1	30.04	N/A	ritesh	Evelyn	10	E		5
P5306-15MS D	OU4-VSL-14-121224MSD	Herbicide Group1	30.07	N/A	ritesh	Evelyn	10	E		6
P5330-01	TP-5	Herbicide	30.03	N/A	ritesh	Evelyn	10	D		U4-1
P5355-01	RBR251688	Herbicide	30.02	N/A	ritesh	Evelyn	10	G		2

* Extracts relinquished on the same date as received.

2
12/20/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5306H WorkList ID : 186510 Department : Extraction Date : 12-20-2024 08:16:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5306-01	OU4-VSL-07-121224	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	L61	12/12/2024	8151A
P5306-03	OU4-VSL-08-121224	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	L61	12/12/2024	8151A
P5306-05	OU4-VSL-09-121224	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	L61	12/12/2024	8151A
P5306-07	OU4-VSL-10-121224	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	L61	12/12/2024	8151A
P5306-09	OU4-VSL-11-121224	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	L61	12/12/2024	8151A
P5306-11	OU4-VSL-12-121224	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	L61	12/12/2024	8151A
P5306-13	OU4-VSL-13-121224	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	L61	12/12/2024	8151A
P5306-15	OU4-VSL-14-121224	Solid	Herbicide Group1	Cool 4 deg C	NOBI03	L61	12/12/2024	8151A
P5330-01	TP-5	Solid	Herbicide	Cool 4 deg C	PSEG03	L51	12/18/2024	8151A
P5355-01	RBR251688	Solid	Herbicide	Cool 4 deg C	PSEG03	N13	12/19/2024	8151A

Date/Time 12/20/24 8:14
 Raw Sample Received by: RJ (Sgt 1st)
 Raw Sample Relinquished by: J. C (Sgt 1st)

Date/Time 12/20/24 8:50
 Raw Sample Received by: J. C (Sgt 1st)
 Raw Sample Relinquished by: RJ (Sgt 1st)

Prep Standard - Chemical Standard Summary

Order ID : P5306
Test : Herbicide Group1
Prepbatch ID : PB165776,
Sequence ID/Qc Batch ID: PS122324,PS122324,ps122624,ps123024,

Standard ID :
EP2560,EP2572,PP23930,PP23949,PP24061,PP24062,PP24064,PP24065,PP24066,PP24067,PP24068,PP24069,PP24070,

Chemical ID :
E2865,E3370,E3551,E3818,E3826,E3827,E3828,M5173,M6111,P10549,P11180,P11181,P12619,P12629,P12686,P12708,P12709,P12784,P12785,P13502,P13503,P13504,P13505,P13517,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2560	11/14/2024	05/08/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/14/2024

FROM 8000.00000ml of E3827 + 8000.00000ml of E3828 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
601	Acidified Sodium Sulphate 2	EP2572	12/16/2024	01/17/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/16/2024

FROM 100.00000ml of E3370 + 150.00000ml of M5173 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP23930	10/30/2024	04/23/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/30/2024

FROM 0.50000ml of P13517 + 1.00000ml of P12784 + 1.00000ml of P12785 + 47.50000ml of E3818 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP23949	11/11/2024	05/08/2025	Abdul Mirza	None	None	Ankita Jodhani
								11/13/2024

FROM 1.25000ml of P13502 + 1.25000ml of P13503 + 1.25000ml of P13504 + 1.25000ml of P13505 + 195.00000ml of E3827 = Final Quantity: 200.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1321	2/200 PPM Herb Mega Mix	PP24061	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.20000ml of P10549 + 1.00000ml of P11180 + 1.00000ml of P12619 + 1.00000ml of P12629 + 1.00000ml of P12686 + 95.80000ml of E3826 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24062	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 1.00000ml of P11181 + 1.00000ml of P12708 + 1.00000ml of P12709 + 97.00000ml of E3826 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1452	1500 PPB HERB MIX STD	PP24064	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
11/27/2024								

FROM 0.25000ml of E3826 + 0.75000ml of PP24061 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1453	1000 PPB Herb MIX STD	PP24065	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
11/27/2024								

FROM 0.50000ml of E3826 + 0.50000ml of PP24061 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1454	750 PPB Herb MIX STD	PP24066	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24065 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1455	500 PPB Herb MIX STD	PP24067	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24061 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1456	200 PPB Herb MIX STD	PP24068	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.90000ml of E3826 + 0.10000ml of PP24061 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1854	1000 PPB HERB MIX ICV STD	PP24069	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24062 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1691	750 PPB ICV HERB STD	PP24070	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
FROM 0.25000ml of E3826 + 0.75000ml of PP24069 = Final Quantity: 1.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	01/17/2025	08/01/2022 / Rajesh	07/13/2022 / Rajesh	E3370

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0170243	05/26/2025	11/26/2024 / Ankita	04/06/2021 / dhaval	P10549

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11181

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12619

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A192429	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12629

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32059 / Herbicide Mix#3 (Methyl Ester), 20000 ug/ml	A0199844	05/26/2025	11/26/2024 / Ankita	07/24/2023 / Abdul	P12686

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	05/11/2025	11/11/2024 / Abdul	08/16/2024 / yogesh	P13502

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	05/11/2025	11/11/2024 / Abdul	08/16/2024 / yogesh	P13503

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	05/11/2025	11/11/2024 / Abdul	08/16/2024 / yogesh	P13504

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	05/11/2025	11/11/2024 / Abdul	08/16/2024 / yogesh	P13505

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/03/2024 / Abdul	P13517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/03/2024 / Abdul	P13517

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

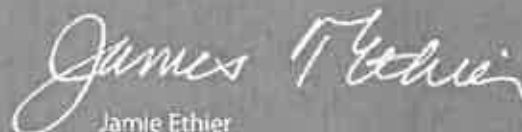
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction



Material No.: 9244-03
Batch No.: 0000288039
Manufactured Date: 2021/07/22
Expiration Date: 2023/07/22
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

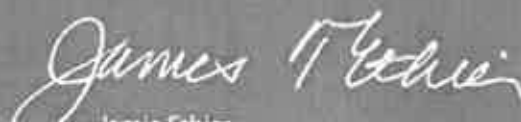
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titration Acid (μeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Recd. by RP on 7/13/22

E 3370


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %
COMMENTS		
QC: PhC Irma Belmares		

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 **E 3551**

RC-02-01, Ed. 3

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantors



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 10/9/24

E 3818

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3827

Recd. by RS on ~~11/8/24~~ 11/7/24
RS
11/7

Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Receive date
9/29/24
Met diag.

avantor™



Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
Revision No.: 0

M6109
M6110
M6111

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	0.7 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**

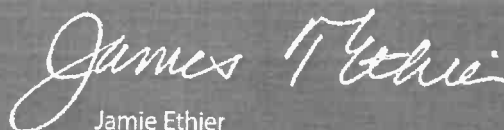


Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result

For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

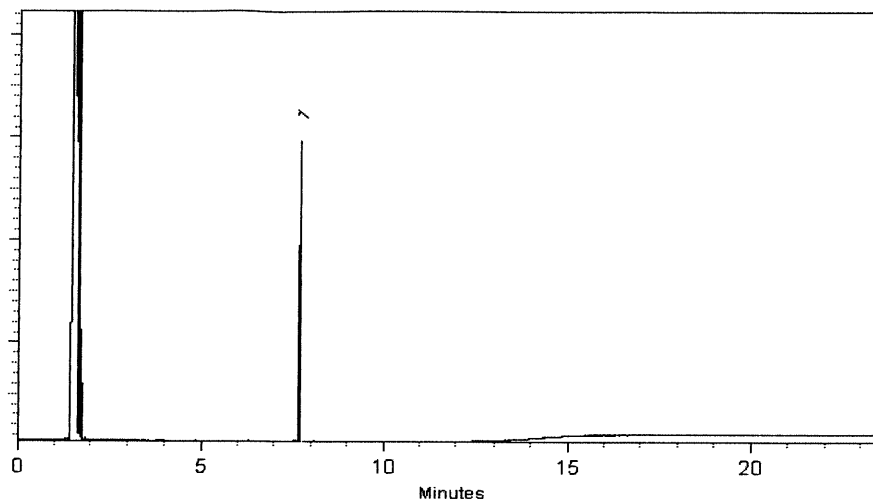
250°C

Det. Temp:

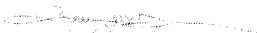
330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P11177
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P11186
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01/02/21

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

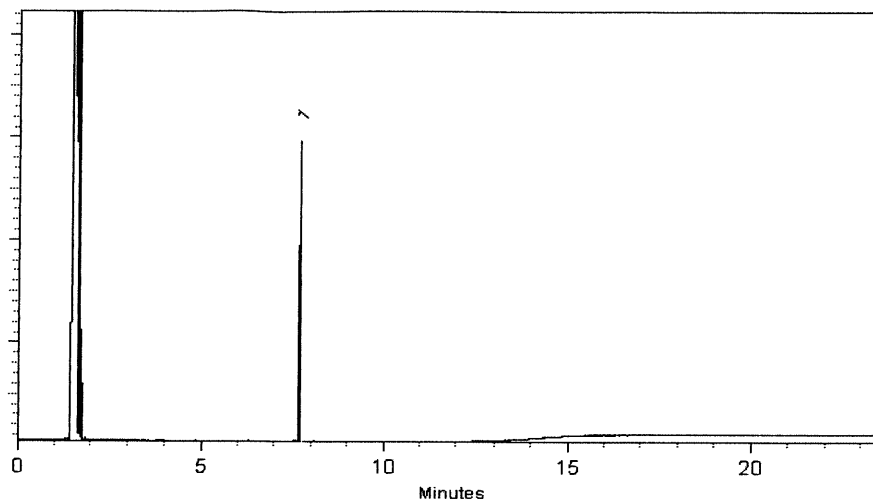
250°C

Det. Temp:

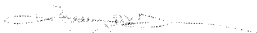
330°C

Det. Type:

FID

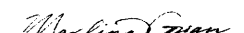


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864
Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard
515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 29, 2028 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P11177
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P11186
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AR
01/02/21



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Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32062 **Lot No.:** A0155055

Description : Herbicide Mix #4/ME (Methyl Ester)

Herbicide Mix #4/ME (Methyl Ester) 200µg/mL,
Hexane/Methyl-tert-butyl-ether, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 10°C or colder

P12616 / (5)
↓
P12620
✓ *Paul* =
7/5/2023

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	3,5-Dichlorobenzoic acid methyl ester CAS # 2905-67-1 (Lot 3903900) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
2	4-Nitroanisole CAS # 100-17-4 (Lot 24765/7) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
3	Pentachloroanisole CAS # 1825-21-4 (Lot 7921100) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
4	Chloramben methyl ester CAS # 7286-84-2 (Lot 6487100) Purity 98%	199.9 µg/mL	+/- 1.4176 µg/mL Gravimetric +/- 6.7480 µg/mL Unstressed +/- 6.7480 µg/mL Stressed
5	Bentazon methyl ester CAS # 61592-45-8 (Lot 817100) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
6	Picloram methyl ester CAS # 14143-55-6 (Lot 386-21B) Purity 98%	201.9 µg/mL	+/- 1.4315 µg/mL Gravimetric +/- 6.8141 µg/mL Unstressed +/- 6.8141 µg/mL Stressed
7	DCPA methyl ester (Chlorthal-dimethyl) CAS # 1861-32-1 (Lot 8008700) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed

8	Acifluorfen methyl ester		200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7	(Lot 6282300)		+/- 6.7507	µg/mL	Unstressed
	Purity 99%			+/- 6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

Column:
 30m x 0.25mm x 0.25µm
 Rtx-5 (cat.#10223)

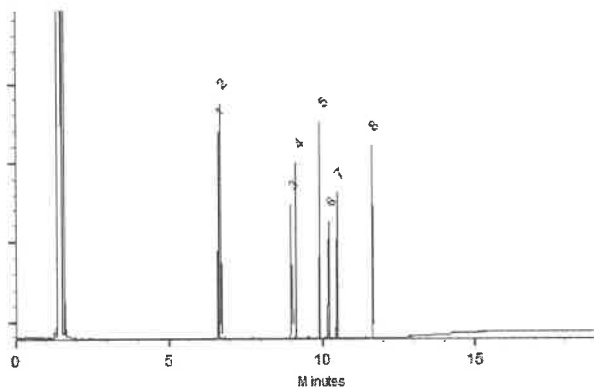
Carrier Gas:
 hydrogen-constant pressure 10 psi.

Temp. Program:
 75°C (hold 1 min.) to 330°C
 @ 20°C/min. (hold 10 min.)

Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maje

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson
 Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32055 **Lot No.:** A0192429
Description : Herbicide Mix #1/ME (Methyl Ester)
Herbicide Mix #1/ME (Methyl Ester) 200 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P12626 / 5
P12630
7/5/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dicamba methyl ester	6597-78-0	11705400	99%	201.6 µg/mL	+/- 3.4204
2	Dichlorprop methyl ester	57153-17-0	11672100	99%	201.4 µg/mL	+/- 3.4170
3	2,4-D methyl ester	1928-38-7	10048000	99%	201.2 µg/mL	+/- 3.4136
4	2,4,5-TP (silvex) methyl ester	4841-20-7	6364900	99%	201.2 µg/mL	+/- 3.4136
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	200.7 µg/mL	+/- 3.4052
6	Dinoseb methyl ether	6099-79-2	12914300	99%	200.8 µg/mL	+/- 3.4068
7	2,4-DB methyl ester	18625-12-2	12542000	99%	201.0 µg/mL	+/- 3.4102

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

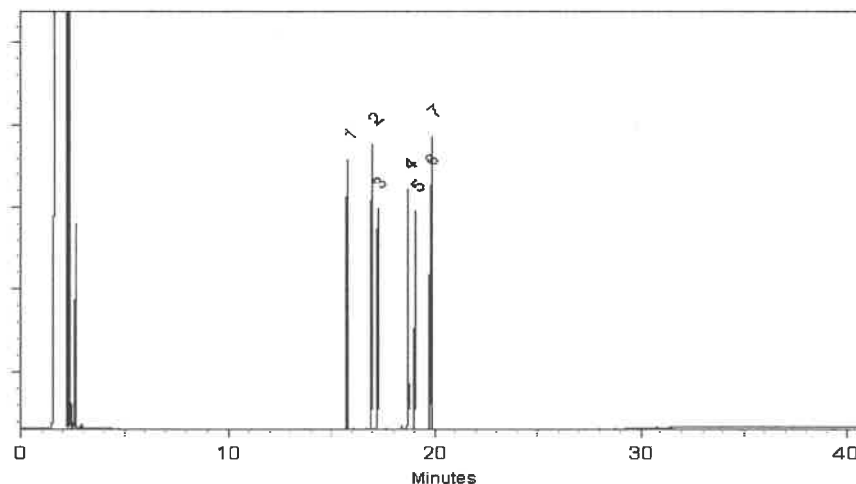
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 09-Dec-2022

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 12-Dec-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32059 **Lot No.:** A0199844

Description : Herbicide Mix #3/ME (Methyl Ester)
Herbicide Mix #3/ME (Methyl Ester) 20,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P 12685 / (S)
↓
P 12689
↓
RAU= 7/24/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	MCP (Mecoprop) methyl ester	23844-56-6	14546400	99%	20,035.0 µg/mL	+/- 360.1907
2	MCPA methyl ester	2436-73-9	SL201209	99%	20,055.0 µg/mL	+/- 360.5503

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

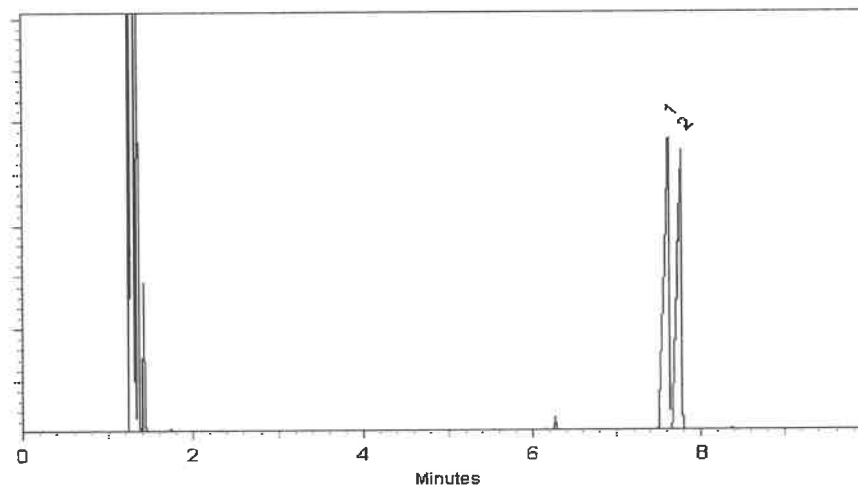
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician


Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 12-Jul-2023

Balance Serial # B442140311

Date Passed: 19-Jul-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P12706
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P12715
/ (10)
/ 1
/ 8/15/23

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Lot Number: 0006752480

Product Number: HBM-8151M-1

Lot Issue Date: 18-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen methyl ester	100.3 ±	0.5 µg/mL	050594-67-7	RM03058
bentazon methyl derivative	100.2 ±	0.5 µg/mL	061592-45-8	RM13829
chloramben methyl ester	100.4 ±	0.5 µg/mL	007286-84-2	RM03055
2,4-D methyl ester	100.2 ±	0.5 µg/mL	001928-38-7	RM03040
dalapon methyl ester	100.4 ±	0.5 µg/mL	017640-02-7	RM14219
2,4-DB methyl ester	100.2 ±	0.5 µg/mL	018625-12-2	RM03029
DCPA	100.2 ±	0.5 µg/mL	001861-32-1	RM13426
dicamba methyl ester	100.4 ±	0.5 µg/mL	006597-78-0	RM03039
methyl-3,5-dichlorobenzoate	100.1 ±	0.5 µg/mL	002905-67-1	RM03048
dichlorprop methyl ester	100.4 ±	0.5 µg/mL	057153-17-0	NT02086
dinoseb methyl ether	100.5 ±	0.5 µg/mL	006099-79-2	RM03051
MCPA methyl ester	10031 ±	50 µg/mL	002436-73-9	RM12863
MCPP methyl ester	10031 ±	50 µg/mL	023844-56-6	RM20060
4-nitroanisole	100.3 ±	0.5 µg/mL	000100-17-4	RM02806
pentachloroanisole	100.4 ±	0.5 µg/mL	001825-21-4	RM02457
picloram methyl ester	100.2 ±	0.5 µg/mL	014143-55-6	RM03044
silvex methyl ester	100.2 ±	0.5 µg/mL	004841-20-7	RM03799
2,4,5-T methyl ester	100.4 ±	0.5 µg/mL	001928-37-6	RM03033

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

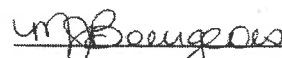
Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P 12706 / (10)
↓
P 12715
✓ RAUF
8.15.23



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12706
↓
P12715
/ (10)
/ 1
/ 8/15/23

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Lot Number: 0006752480

Product Number: HBM-8151M-1

Lot Issue Date: 18-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen methyl ester	100.3 ±	0.5 µg/mL	050594-67-7	RM03058
bentazon methyl derivative	100.2 ±	0.5 µg/mL	061592-45-8	RM13829
chloramben methyl ester	100.4 ±	0.5 µg/mL	007286-84-2	RM03055
2,4-D methyl ester	100.2 ±	0.5 µg/mL	001928-38-7	RM03040
dalapon methyl ester	100.4 ±	0.5 µg/mL	017640-02-7	RM14219
2,4-DB methyl ester	100.2 ±	0.5 µg/mL	018625-12-2	RM03029
DCPA	100.2 ±	0.5 µg/mL	001861-32-1	RM13426
dicamba methyl ester	100.4 ±	0.5 µg/mL	006597-78-0	RM03039
methyl-3,5-dichlorobenzoate	100.1 ±	0.5 µg/mL	002905-67-1	RM03048
dichlorprop methyl ester	100.4 ±	0.5 µg/mL	057153-17-0	NT02086
dinoseb methyl ether	100.5 ±	0.5 µg/mL	006099-79-2	RM03051
MCPA methyl ester	10031 ±	50 µg/mL	002436-73-9	RM12863
MCPP methyl ester	10031 ±	50 µg/mL	023844-56-6	RM20060
4-nitroanisole	100.3 ±	0.5 µg/mL	000100-17-4	RM02806
pentachloroanisole	100.4 ±	0.5 µg/mL	001825-21-4	RM02457
picloram methyl ester	100.2 ±	0.5 µg/mL	014143-55-6	RM03044
silvex methyl ester	100.2 ±	0.5 µg/mL	004841-20-7	RM03799
2,4,5-T methyl ester	100.4 ±	0.5 µg/mL	001928-37-6	RM03033

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

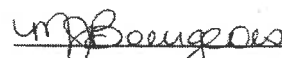
Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P 12706 / (10)
↓
P 12715
✓ RAUF
8.15.23



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO
9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12766
↓
P12785
✓
9.11.23

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1 ± 0.5 µg/mL	050594-66-6	NT02057	
bentazon	100.1 ± 0.5 µg/mL	025057-89-0	RM20289	
chloramben	100.4 ± 0.5 µg/mL	000133-90-4	RM02698	
2,4-D	100.1 ± 0.5 µg/mL	000094-75-7	RM17172	
dalapon	100.4 ± 0.5 µg/mL	000075-99-0	RM21030	
2,4-DB	100.1 ± 0.5 µg/mL	000094-82-6	RM02866	
tetrachloroterephthalic acid	100.3 ± 0.5 µg/mL	002136-79-0	RM13887	
dicamba	100.2 ± 0.5 µg/mL	001918-00-9	RM20089	
3,5-dichlorobenzoic acid	100.0 ± 0.5 µg/mL	000051-36-5	RM02768	
dichlorprop	100.0 ± 0.5 µg/mL	000120-36-5	RM20896	
dinoseb	100.0 ± 0.5 µg/mL	000088-85-7	RM20667	
MCPA	100.4 ± 50 µg/mL	000094-74-6	RM12220	
MCPP (mecoprop)	100.37 ± 50 µg/mL	000093-65-2	RM09273	
4-nitrophenol	100.1 ± 0.5 µg/mL	000100-02-7	RM03752	
pentachlorophenol	100.1 ± 0.5 µg/mL	000087-86-5	RM02474	
picloram	100.4 ± 0.5 µg/mL	001918-02-1	RM20442	
silvex	100.1 ± 0.5 µg/mL	000093-72-1	RM20208	
2,4,5-T	100.4 ± 0.5 µg/mL	000093-76-5	NT01808	

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P12766 / (20)
↓
P12785 /
✓
9/11/2023

P12766
 ↓
 P12785
 9.11.23
 (20)

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1 ± 0.5 µg/mL	050594-66-6	NT02057	
bentazon	100.1 ± 0.5 µg/mL	025057-89-0	RM20289	
chloramben	100.4 ± 0.5 µg/mL	000133-90-4	RM02698	
2,4-D	100.1 ± 0.5 µg/mL	000094-75-7	RM17172	
dalapon	100.4 ± 0.5 µg/mL	000075-99-0	RM21030	
2,4-DB	100.1 ± 0.5 µg/mL	000094-82-6	RM02866	
tetrachloroterephthalic acid	100.3 ± 0.5 µg/mL	002136-79-0	RM13887	
dicamba	100.2 ± 0.5 µg/mL	001918-00-9	RM20089	
3,5-dichlorobenzoic acid	100.0 ± 0.5 µg/mL	000051-36-5	RM02768	
dichlorprop	100.0 ± 0.5 µg/mL	000120-36-5	RM20896	
dinoseb	100.0 ± 0.5 µg/mL	000088-85-7	RM20667	
MCPA	100.4 ± 50 µg/mL	000094-74-6	RM12220	
MCPP (mecoprop)	100.37 ± 50 µg/mL	000093-65-2	RM09273	
4-nitrophenol	100.1 ± 0.5 µg/mL	000100-02-7	RM03752	
pentachlorophenol	100.1 ± 0.5 µg/mL	000087-86-5	RM02474	
picloram	100.4 ± 0.5 µg/mL	001918-02-1	RM20442	
silvex	100.1 ± 0.5 µg/mL	000093-72-1	RM20208	
2,4,5-T	100.4 ± 0.5 µg/mL	000093-76-5	NT01808	

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

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Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P12766 / (20)
↓
P12785 /
✓
9/11/2023



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

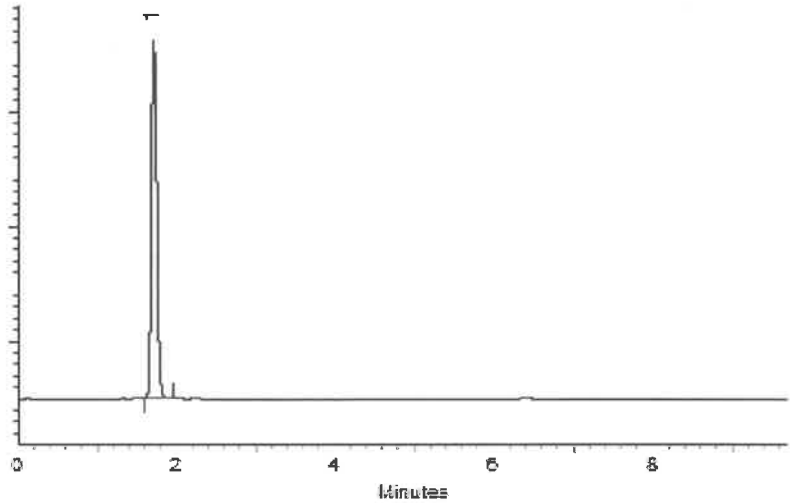
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

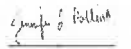


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

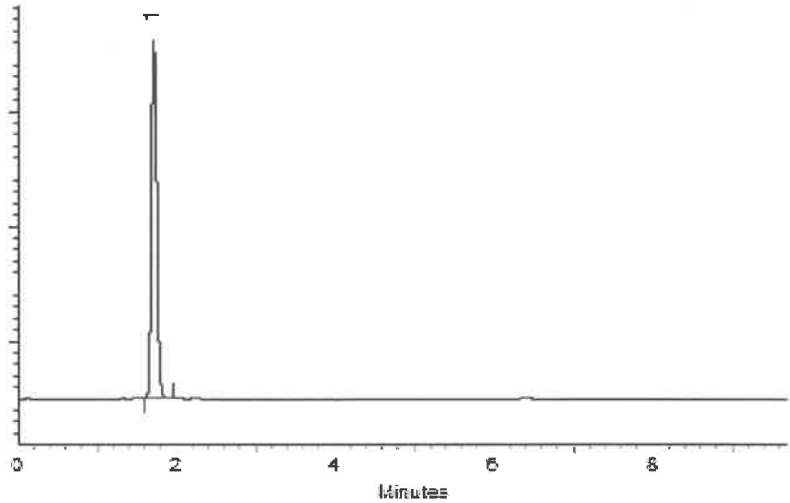
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

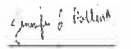


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

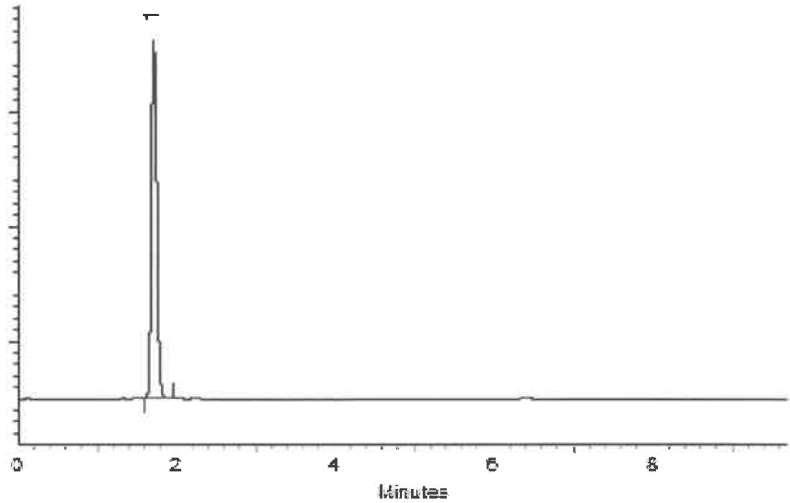
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

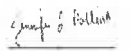


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

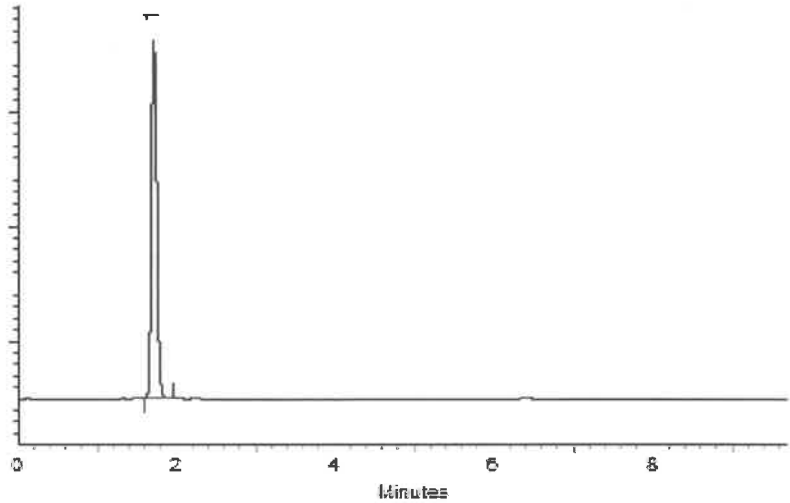
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

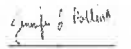


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.1 ±	0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3 ±	0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2 ±	0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0 ±	0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0 ±	0.5 µg/mL	000088-85-7	RM20667
MCPA	10004 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10037 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1 ±	0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.1 ±	0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4 ±	0.5 µg/mL	000093-76-5	NT01808

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13517 } ②
P13518 }
✓ *RAUF*
9/4/2024



SHIPPING DOCUMENTS

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Chemtech

Phone: (908) 789-8900

Fax: (908) 789-8922

284 Sheffield Street, Mountainside, NJ 07092

Company Name: Nobis Group

Address: 55 Technology Drive Suite 101, Lowell, MA 01851

Phone: 978-703-6014

Project Name: Raymark

Project Location: Stratford, CT

Project Number: 95700

Project Manager: Adam Roy

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By: P. Moran

<http://www.contestlabs.com>

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 4_01/08/2020

Page 1 of 1

Requested Turnaround Time								Dissolved Metals Samples					ANALYSIS REQUESTED												2 Preservation Code	
5-Day ☐				10-Day ☒				☐ Field Filtered																		
PFAS 10-Day (std) ☐				Due Date:				☐ Lab to Filter																		
Rush-Approval Required								Orthophosphate Samples																		
1-Day ☐				3-Day ☐				☐ Field Filtered																		
2-Day ☐				4-Day ☐				☐ Lab to Filter																		
Data Delivery								PCB ONLY																		
Format: PDF ☒ EXCEL ☒								SOXHLET ☐																		
Other: <u>EQUIS EDD</u>								NON SOXHLET ☐																		
CLP Like Data Pkg Required: ☐ No																										
Email To: <u>aroy@nobis-group.com</u>																										
Fax To #:																										
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	RCP VOCs	% Solids	PAHs	Herbicides	Pesticides	PCBs	Metals ICP + Hg - 6010	Cyanide	SPLP RCP Metals - 6020	Total and SPLP Vanadium	Glassware in the fridge? Y / N	Glassware in freezer? Y / N	Prepackaged Cooler? Y / N		
	004-VSL-07-121224	12/12/24	1000	Grab	S	U	3	2	1			X	X	X	X	X	X	X	X	X						
	004-VSL-08-121224		1010				3	2	1			X	X	X	X	X	X	X	X	X						
	004-VSL-09-121224		1020				3	2	1			X	X	X	X	X	X	X	X	X						
	004-VSL-10-121224		1030				3	2	1			X	X	X	X	X	X	X	X	X						
	004-VSL-11-121224		1040				3	2	1			X	X	X	X	X	X	X	X	X						
	004-VSL-12-121224		1050				3	2	1			X	X	X	X	X	X	X	X	X						
	004-VSL-13-121224		1100				3	2	1			X	X	X	X	X	X	X	X	X						
	004-VSL-14-121224		1110				3	2	1			X	X	X	X	X	X	X	X	X						
	004-VSL-06R-121224		1115				0	2	0												X					
Relinquished by: (signature)		Date/Time: 12/13/24 1130		Client Comments: DI water preserved samples frozen on 12/12/24																				2 Preservation Codes: I = Iced		
Received by: (signature)		Date/Time: 12-17-24 9:50																						H = HCL		
Relinquished by: (signature)		Date/Time:		Detection Limit Requirements				Special Requirements				Please use the following codes to indicate possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown												M = Methanol		
				MA				MA MCP Required																N = Nitric Acid		
Received by: (signature)		Date/Time:						MCP Certification Form Required																S = Sulfuric Acid		
								CT RCP Required																B = Sodium Bisulfate		
Relinquished by: (signature)		Date/Time:		CT				RCP Certification Form Required																X = Sodium Hydroxide		
								MA State DW Required																T = Sodium Thiosulfate		
Received by: (signature)		Date/Time:		Other:				PWSID #				NELAP and AHA-LAP, LLC Accredited												O = Other (please define)		
Relinquished by: (signature)		Date/Time:		Project Entity																				DI water		
				Government ☐				Municipality ☐				MWRA ☐				WRTA ☐				☐ Chromatogram						
Received by: (signature)		Date/Time:		Federal ☐				21 J ☐				School ☐								☐ AIHA-LAP, LLC						
				City ☐				Brownfield ☐				MBTA ☐														
Lab Comments:																										
Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.																										

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5306

NOBI03

Order Date : 12/17/2024 10:24:00 AM

Project Mgr :

Client Name : Nobis Group

Project Name : Raymark Superfund Site

Report Type : Level 4

Client Contact : Adam Roy

Receive DateTime : 12/17/2024 9:50:00 AM

EDD Type : EQUIS

Invoice Name : Nobis Group

Purchase Order :

Hard Copy Date :

Invoice Contact : Adam Roy

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5306-01	OU4-VSL-07-121224	Solid	12/12/2024	10:00					
					VOCMS Group3		8260D	10 Bus. Days	
P5306-03	OU4-VSL-08-121224	Solid	12/12/2024	10:10					
					VOCMS Group3		8260D	10 Bus. Days	
P5306-05	OU4-VSL-09-121224	Solid	12/12/2024	10:20					
					VOCMS Group3		8260D	10 Bus. Days	
P5306-07	OU4-VSL-10-121224	Solid	12/12/2024	10:30					
					VOCMS Group3		8260D	10 Bus. Days	
P5306-09	OU4-VSL-11-121224	Solid	12/12/2024	10:40					
					VOCMS Group3		8260D	10 Bus. Days	
P5306-11	OU4-VSL-12-121224	Solid	12/12/2024	10:50					
					VOCMS Group3		8260D	10 Bus. Days	
P5306-13	OU4-VSL-13-121224	Solid	12/12/2024	11:00					
					VOCMS Group3		8260D	10 Bus. Days	
P5306-15	OU4-VSL-14-121224	Solid	12/12/2024	~~11:15~~ 11:10					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5306	NOBI03	Order Date : 12/17/2024 10:24:00 AM	Project Mgr :
Client Name : Nobis Group		Project Name : Raymark Superfund Site	Report Type : Level 4
Client Contact : Adam Roy		Receive DateTime : 12/17/2024 9:50:00 AM	EDD Type : EQUIS
Invoice Name : Nobis Group		Purchase Order :	Hard Copy Date :
Invoice Contact : Adam Roy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group3		8260D		10 Bus. Days

Relinquished By : 
Date / Time : 12-17-24 1230

Received By : 
Date / Time : 12-17-24 12:30

Storage Area : VOA Refridgerator Room

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028787.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 11:23
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC200

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 13:43:30 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.210	7.699	503.9E6	237.0E6	222.752	210.534
Target Compounds							
1) T	Dalapon	2.620	2.673	500.0E6	362.7E6	177.529	184.238
2) T	3,5-DICHL...	6.385	6.661	668.9E6	323.0E6	203.004	194.854
3) T	4-Nitroph...	7.008	7.228	299.9E6	166.2E6	199.645	198.584
5) T	DICAMBA	7.396	7.897	1911.4E6	998.4E6	193.846	181.867
6) T	MCPD	7.574	7.997	82965047	58391123	13.335	17.869 #
7) T	MCPA	7.723	8.239	151.0E6	85488472	17.227	18.453
8) T	DICHLORPROP	8.101	8.611	551.3E6	266.5E6	207.799	193.146
9) T	2,4-D	8.331	8.939	591.5E6	276.9E6	207.594	191.888
10) T	Pentachlo...	8.628	9.464	8263.2E6	4286.0E6	211.512	196.616
11) T	2,4,5-TP ...	9.205	9.842	3194.4E6	1738.0E6	203.346	193.467
12) T	2,4,5-T	9.498	10.260	3340.3E6	1703.5E6	205.314	195.600
13) T	2,4-DB	10.069	10.826	695.4E6	175.1E6	222.773	180.294
14) T	DINOSEB	11.276	11.204	2736.5E6	1244.5E6	203.581	202.062
15) T	Picloram	11.084	12.292	5334.3E6	2328.7E6	198.947	181.377
16) T	DCPA	11.570	12.245	4983.4E6	2065.0E6	207.201	192.188

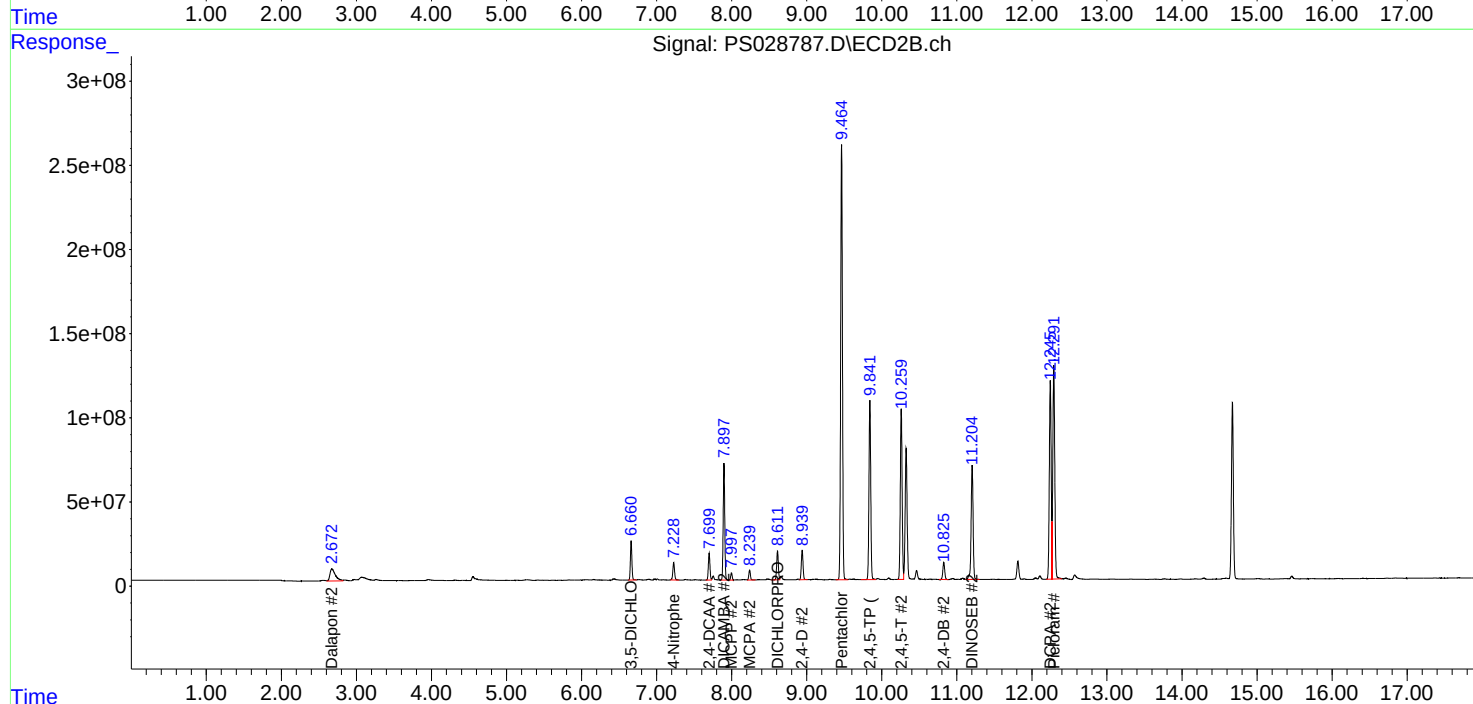
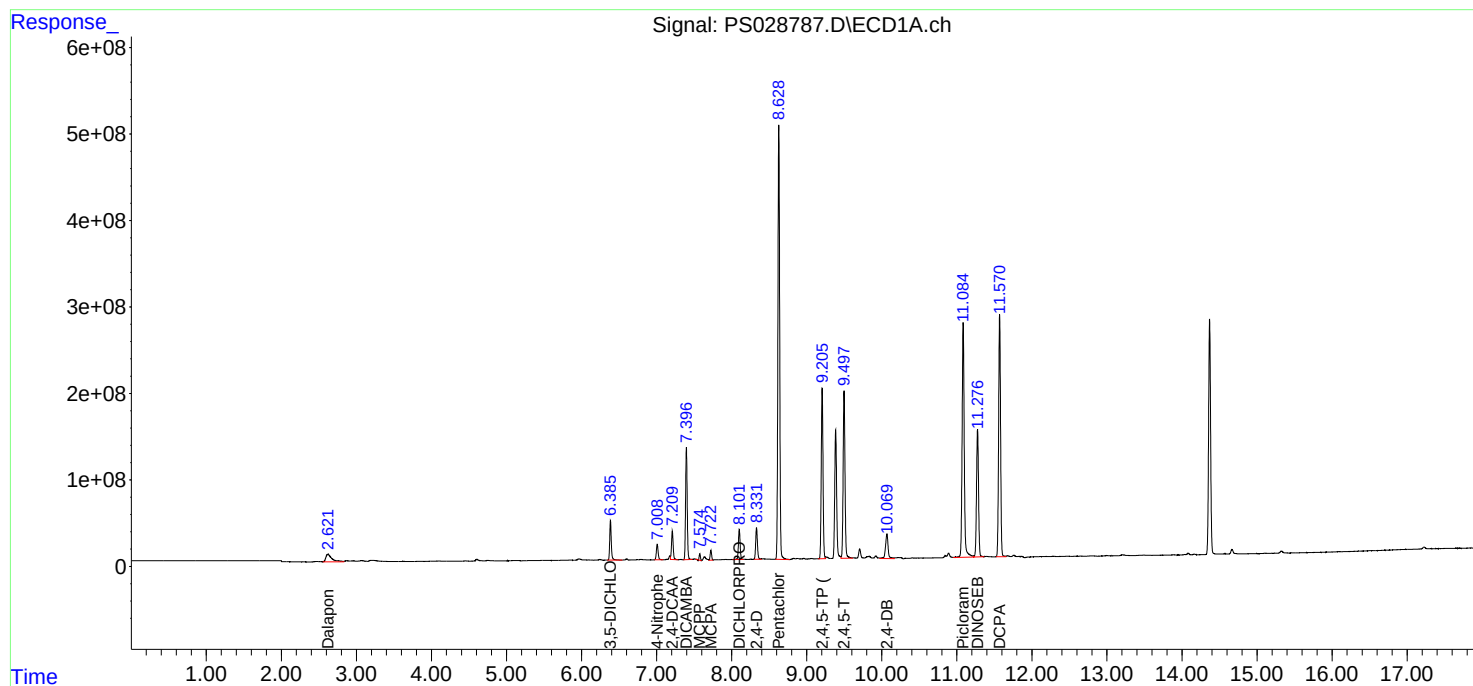
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

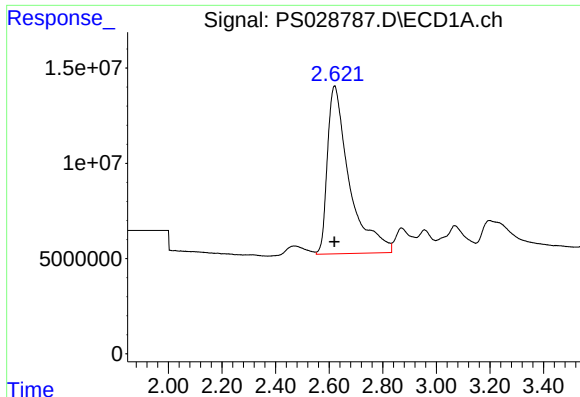
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:23
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:43:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

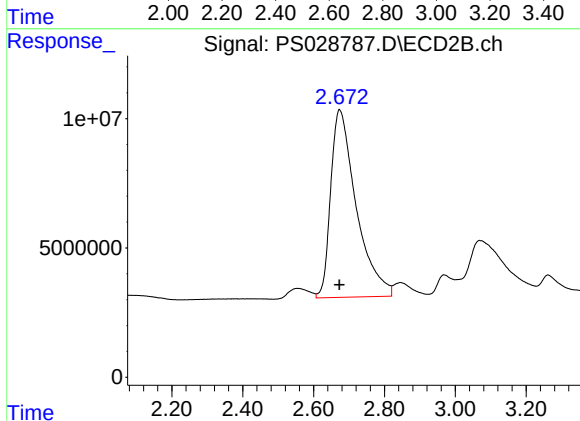




#1 Dalapon

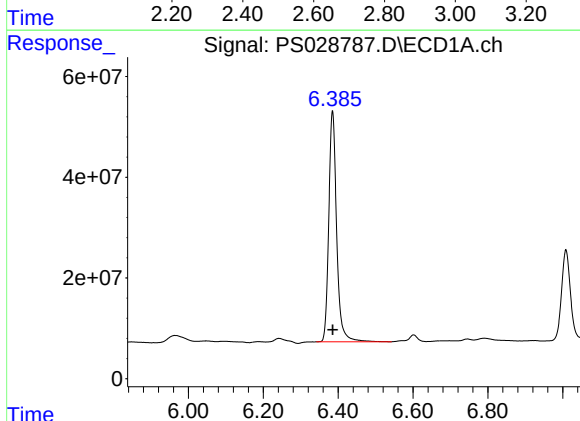
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 500038468
Conc: 177.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



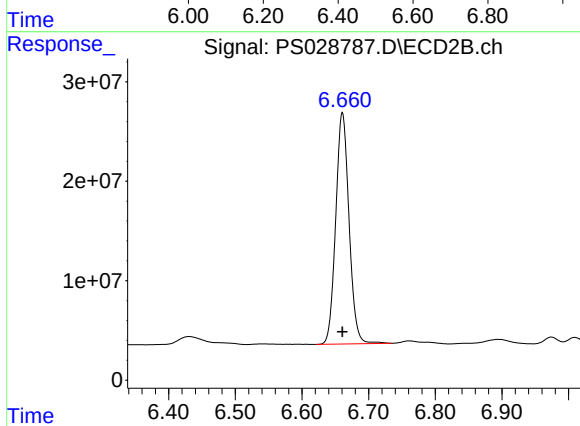
#1 Dalapon

R.T.: 2.673 min
Delta R.T.: 0.000 min
Response: 362691844
Conc: 184.24 ng/ml



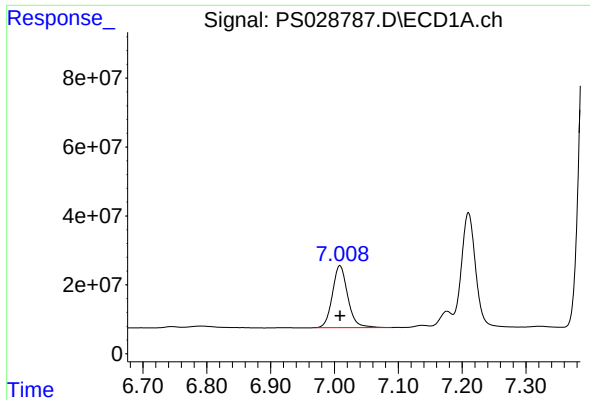
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 668926243
Conc: 203.00 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

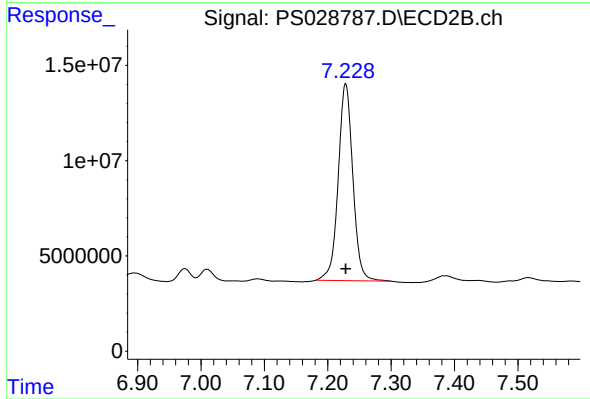
R.T.: 6.661 min
Delta R.T.: 0.000 min
Response: 322985148
Conc: 194.85 ng/ml



#3 4-Nitrophenol

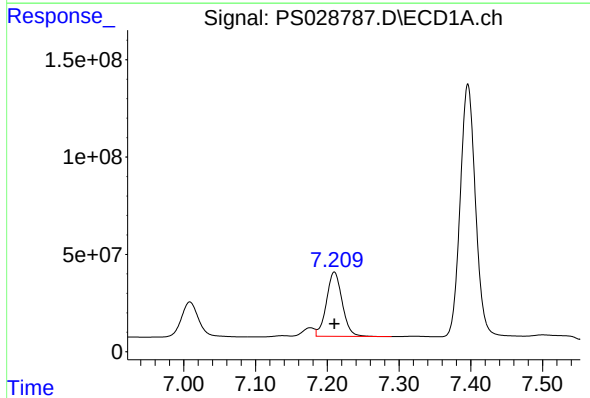
R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 299878461
Conc: 199.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



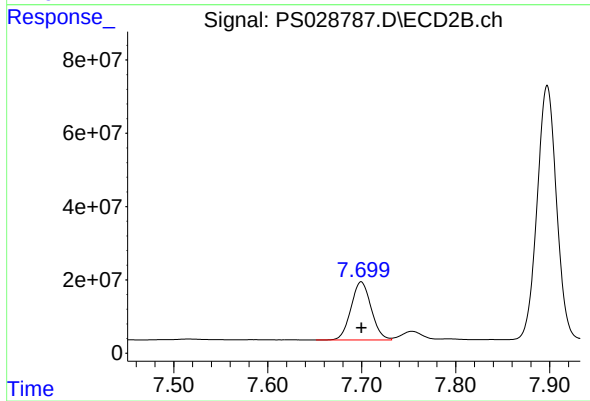
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 166193367
Conc: 198.58 ng/ml



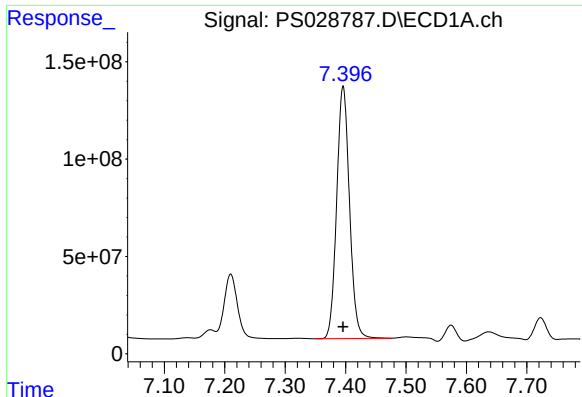
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 503871113
Conc: 222.75 ng/ml



#4 2,4-DCAA

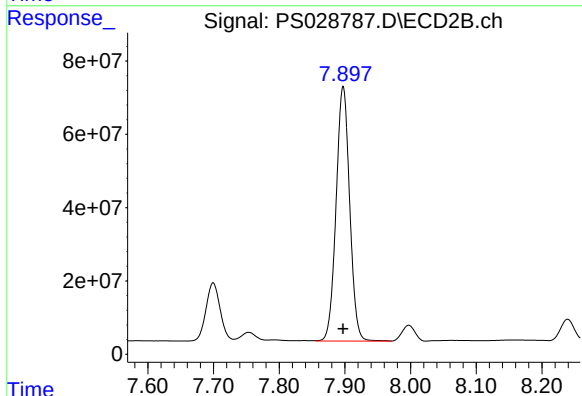
R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 236963416
Conc: 210.53 ng/ml



#5 DICAMBA

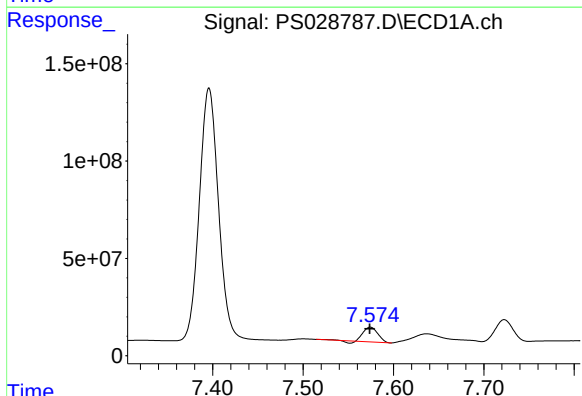
R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 1911442793
Conc: 193.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



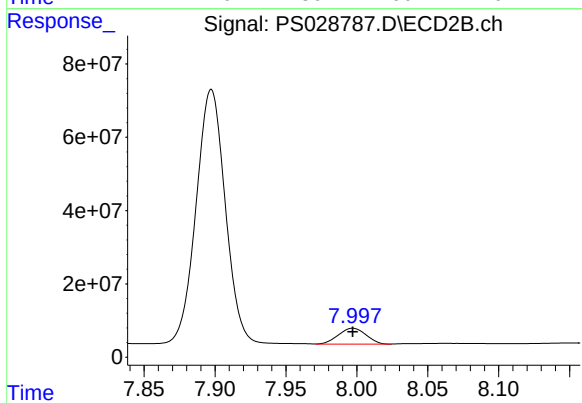
#5 DICAMBA

R.T.: 7.897 min
Delta R.T.: 0.000 min
Response: 998426779
Conc: 181.87 ng/ml



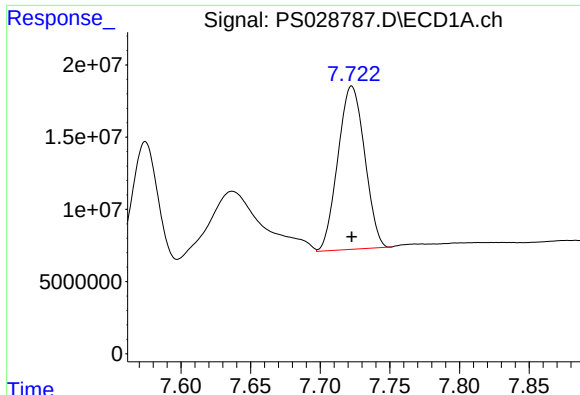
#6 MCP

R.T.: 7.574 min
Delta R.T.: 0.000 min
Response: 82965047
Conc: 13.34 ug/ml



#6 MCP

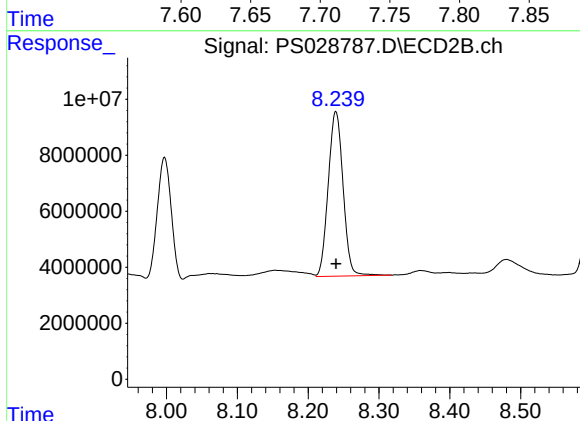
R.T.: 7.997 min
Delta R.T.: 0.000 min
Response: 58391123
Conc: 17.87 ug/ml



#7 MCPA

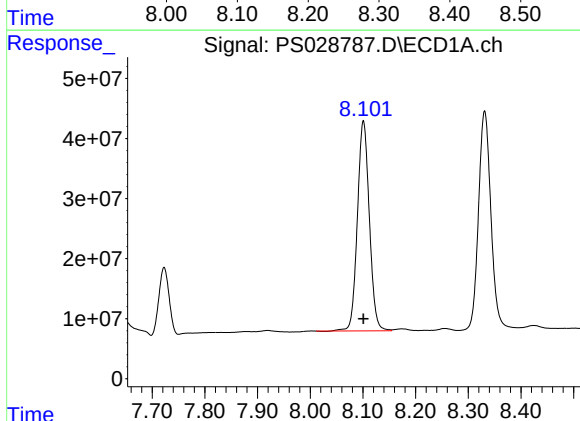
R.T.: 7.723 min
Delta R.T.: 0.000 min
Response: 151004248
Conc: 17.23 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



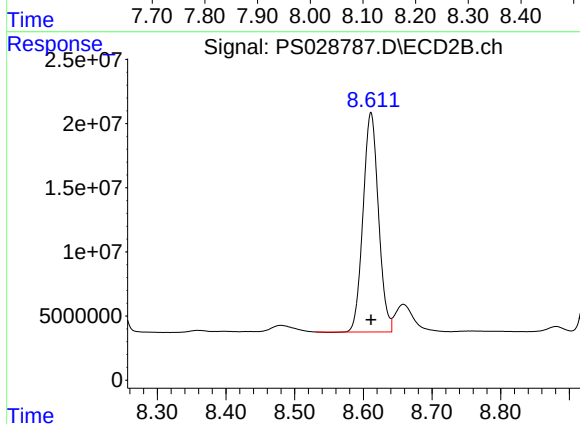
#7 MCPA

R.T.: 8.239 min
Delta R.T.: 0.000 min
Response: 85488472
Conc: 18.45 ug/ml



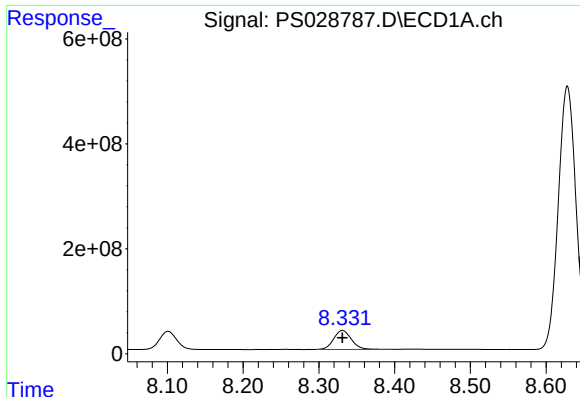
#8 DICHLORPROP

R.T.: 8.101 min
Delta R.T.: 0.000 min
Response: 551327966
Conc: 207.80 ng/ml



#8 DICHLORPROP

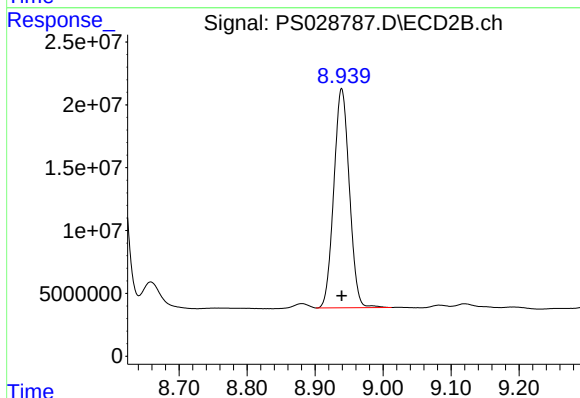
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 266475549
Conc: 193.15 ng/ml



#9 2,4-D

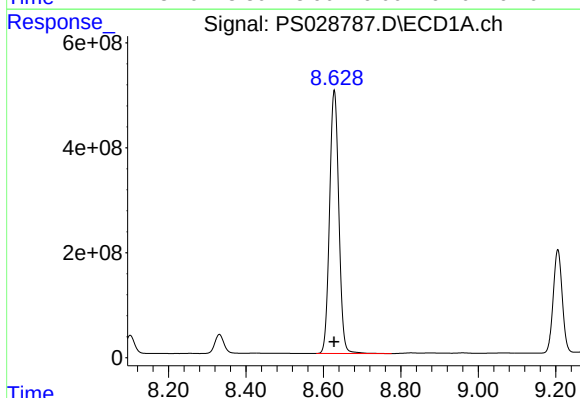
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 591545661
Conc: 207.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



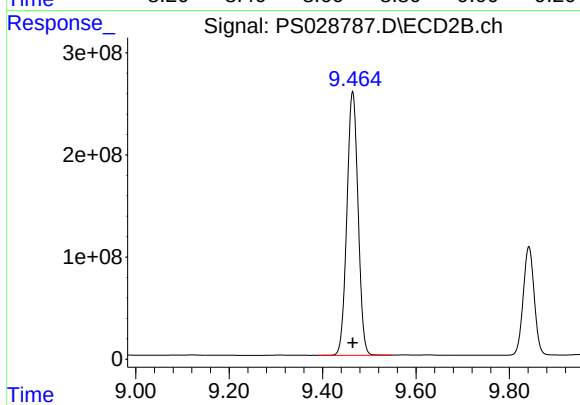
#9 2,4-D

R.T.: 8.939 min
Delta R.T.: 0.000 min
Response: 276921663
Conc: 191.89 ng/ml



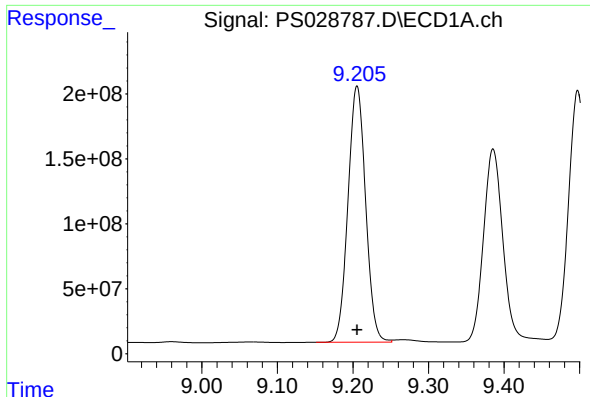
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 8263150461
Conc: 211.51 ng/ml



#10 Pentachlorophenol

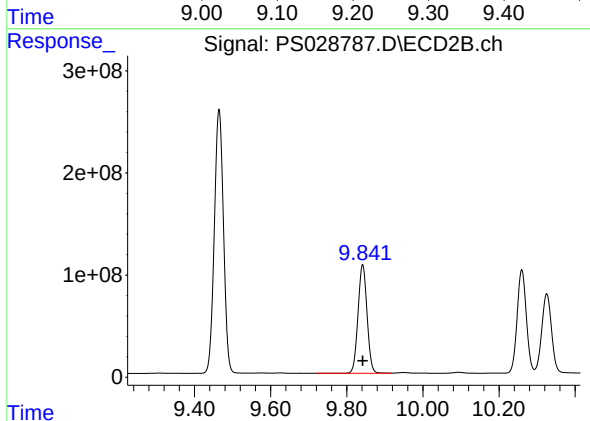
R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 4285983917
Conc: 196.62 ng/ml



#11 2,4,5-TP (SILVEX)

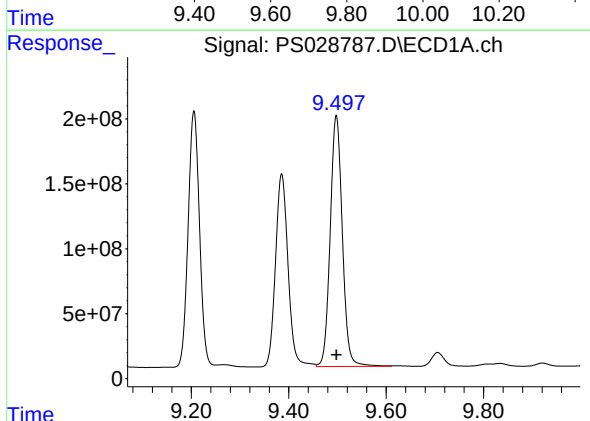
R.T.: 9.205 min
Delta R.T.: 0.000 min
Response: 3194421416
Conc: 203.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



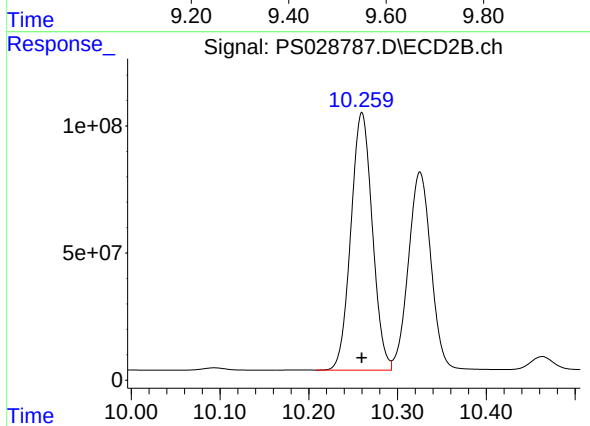
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 1738011876
Conc: 193.47 ng/ml



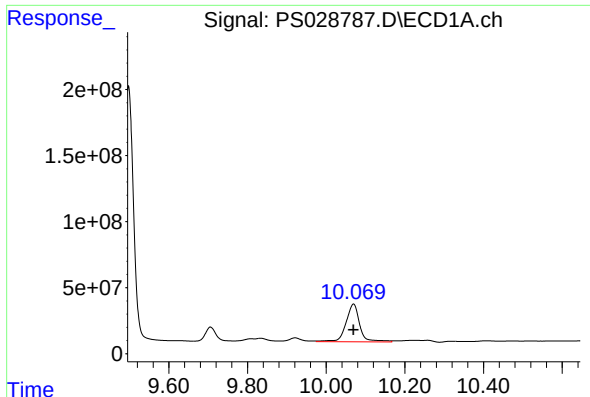
#12 2,4,5-T

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 3340298408
Conc: 205.31 ng/ml



#12 2,4,5-T

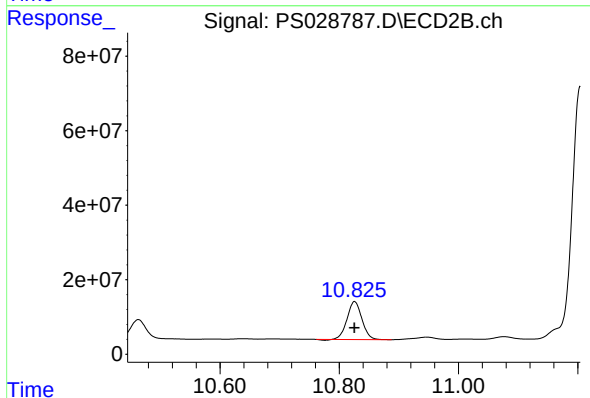
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 1703520011
Conc: 195.60 ng/ml



#13 2,4-DB

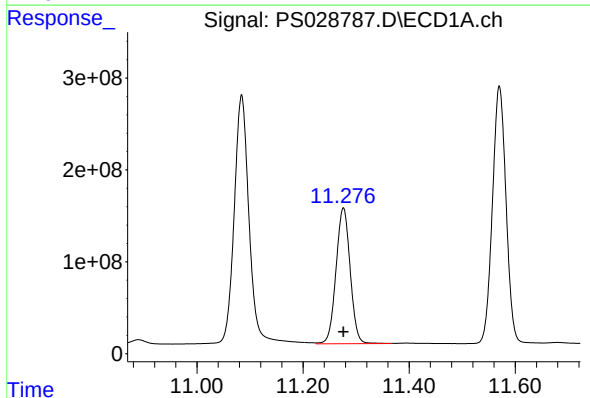
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 695408240
Conc: 222.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



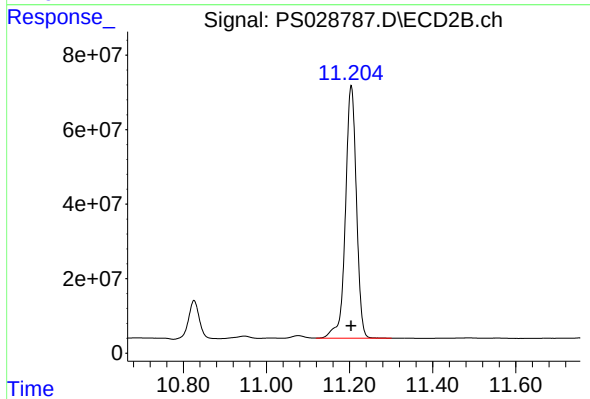
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 175083291
Conc: 180.29 ng/ml



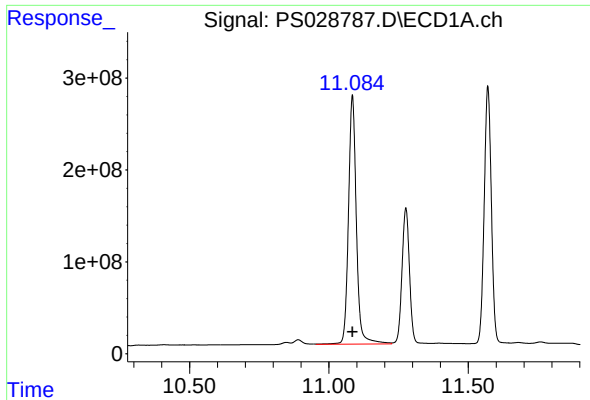
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml



#14 DINOSEB

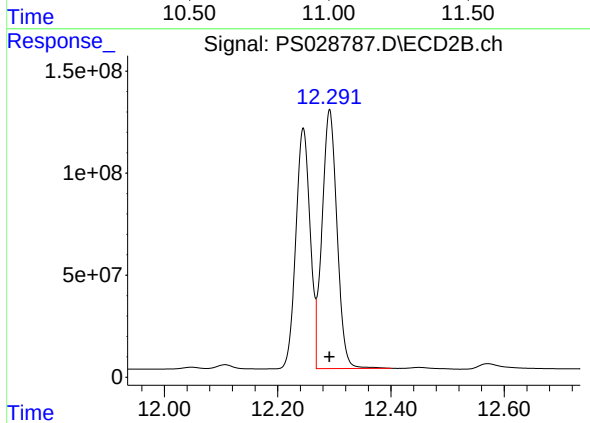
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml



#15 Picloram

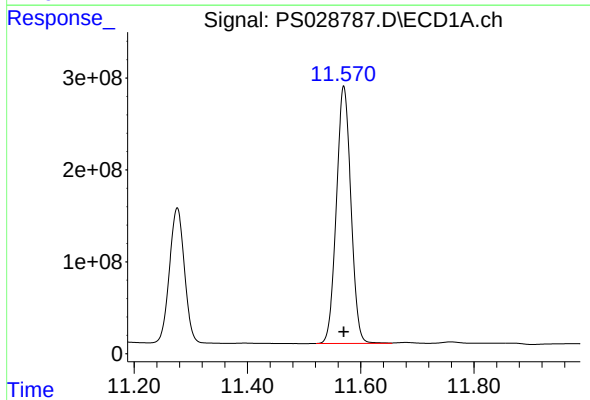
R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 5334309678
Conc: 198.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



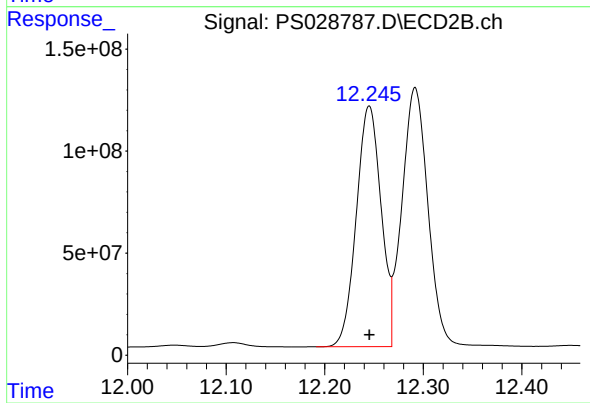
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 2328698069
Conc: 181.38 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 4983398928
Conc: 207.20 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 2064979082
Conc: 192.19 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028790.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 12:35
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 23 13:39:39 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:35:06 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.210	7.700	2453.9E6	1104.1E6	1134.943	998.684
Target Compounds							
1) T	Dalapon	2.620	2.675	2590.1E6	1784.2E6	908.696	909.276
2) T	3,5-DICHL...	6.385	6.660	2970.3E6	1521.1E6	932.245	932.254
3) T	4-Nitroph...	7.008	7.228	1335.0E6	747.4E6	912.099	916.441
5) T	DICAMBA	7.397	7.898	9168.9E6	5233.4E6	942.217	940.257
6) T	MCPD	7.581	8.004	613.6E6	312.6E6	93.266	93.797
7) T	MCPA	7.731	8.247	836.7E6	431.0E6	92.726	92.759
8) T	DICHLORPROP	8.102	8.611	2407.7E6	1281.5E6	943.767	937.998
9) T	2,4-D	8.331	8.940	2561.8E6	1344.1E6	936.700	939.288
10) T	Pentachlo...	8.629	9.465	36738.0E6	20389.3E6	996.145	954.348
11) T	2,4,5-TP ...	9.206	9.842	14533.1E6	8474.0E6	953.244	951.557
12) T	2,4,5-T	9.497	10.260	14990.1E6	8190.7E6	954.258	952.545
13) T	2,4-DB	10.069	10.826	2816.6E6	933.2E6	949.832	946.746
14) T	DINOSEB	11.276	11.204	12260.6E6	5663.4E6	942.779	940.845
15) T	Picloram	11.085	12.292	25059.4E6	12444.4E6	951.841	952.255
16) T	DCPA	11.570	12.245	22401.4E6	10328.8E6	964.963	963.806

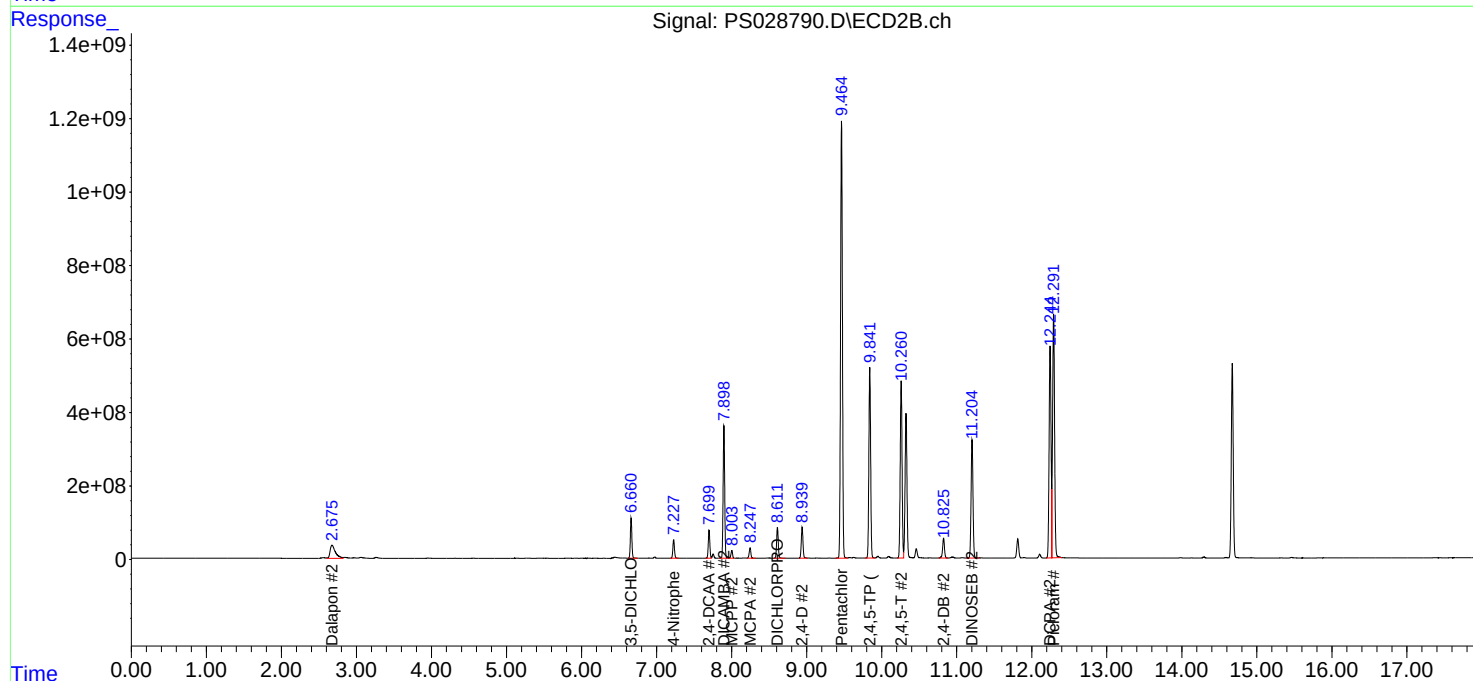
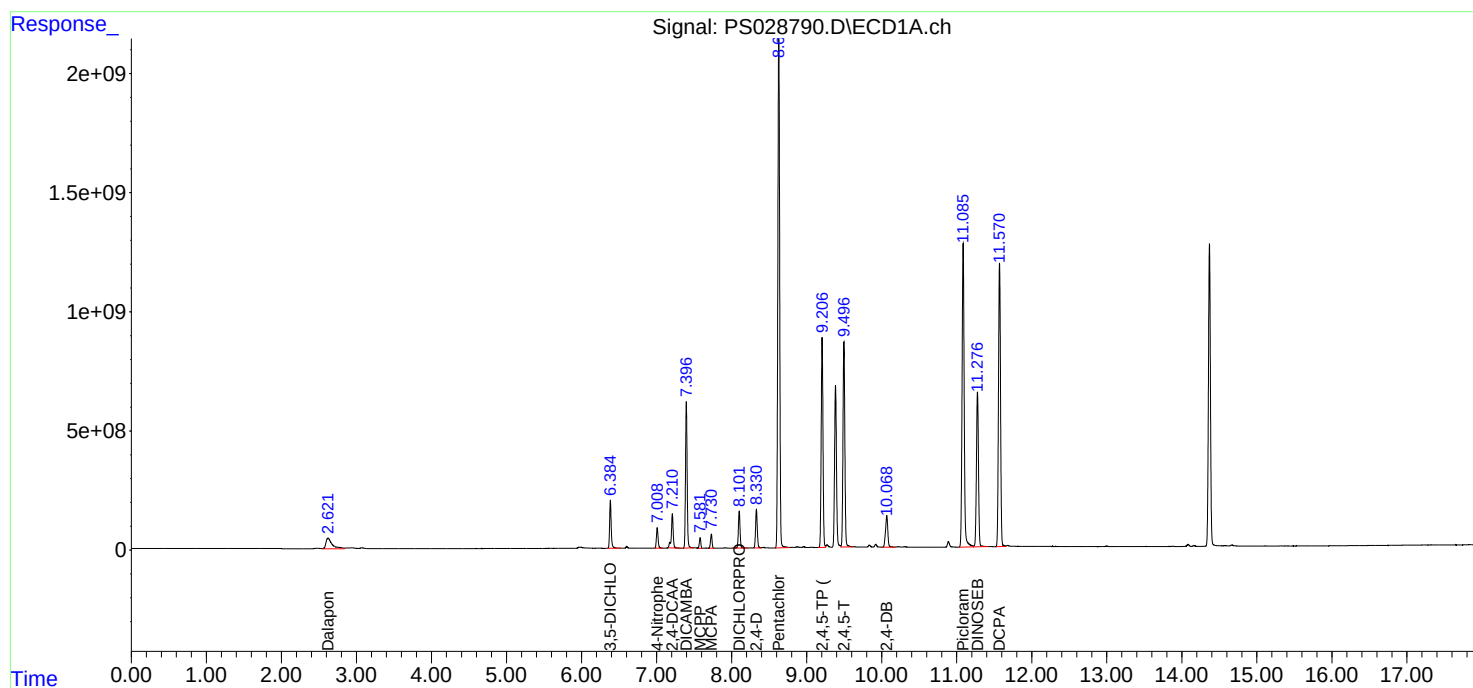
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

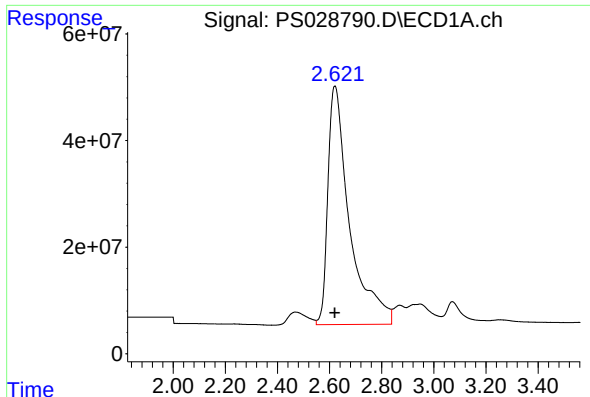
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028790.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:35
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:39:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

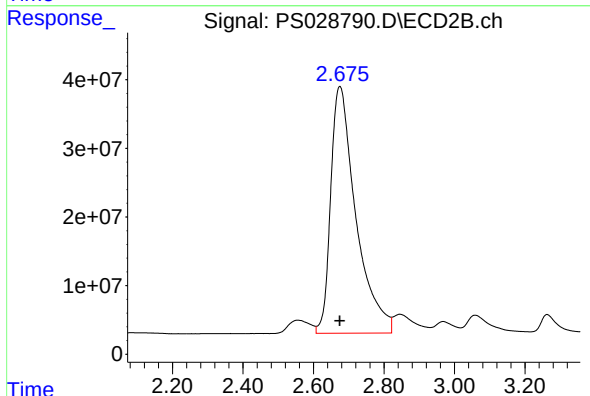




#1 Dalapon

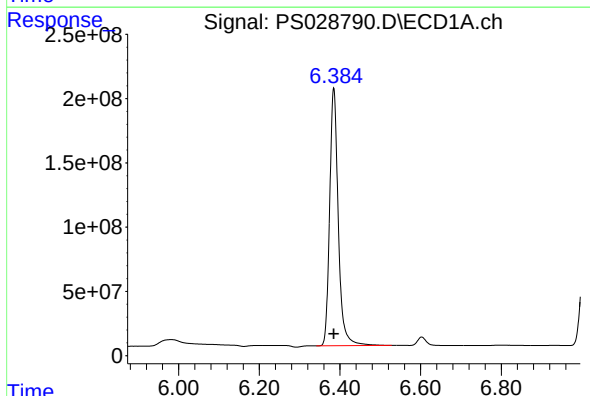
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 2590128401
Conc: 908.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



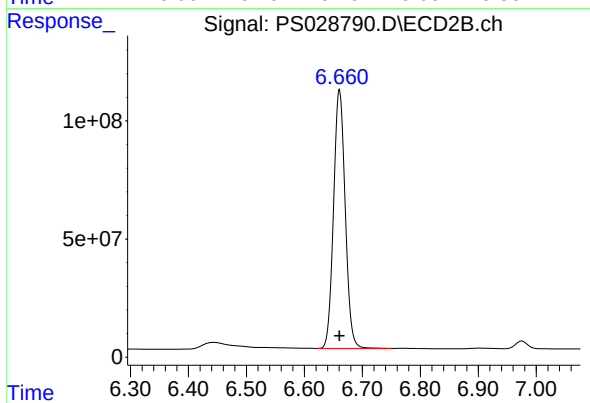
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.000 min
Response: 1784237725
Conc: 909.28 ng/ml



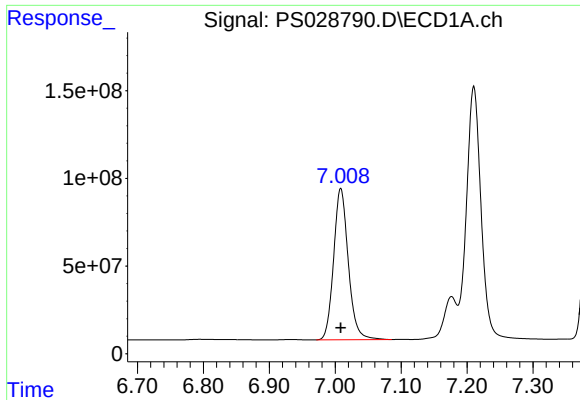
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2970251089
Conc: 932.25 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

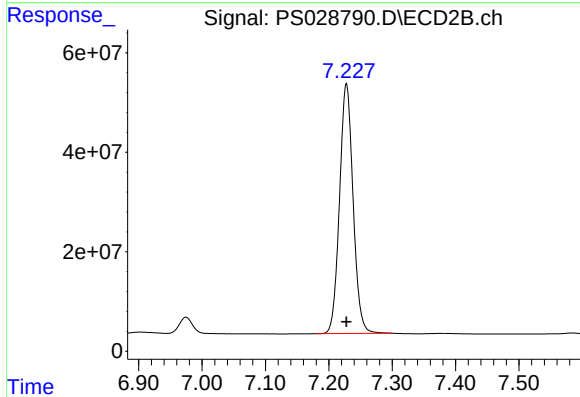
R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 1521097294
Conc: 932.25 ng/ml



#3 4-Nitrophenol

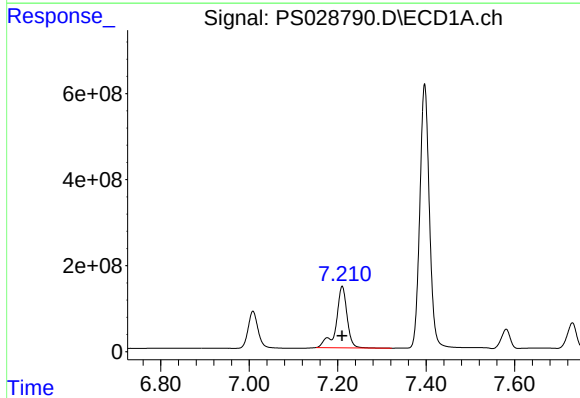
R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1335023608
Conc: 912.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



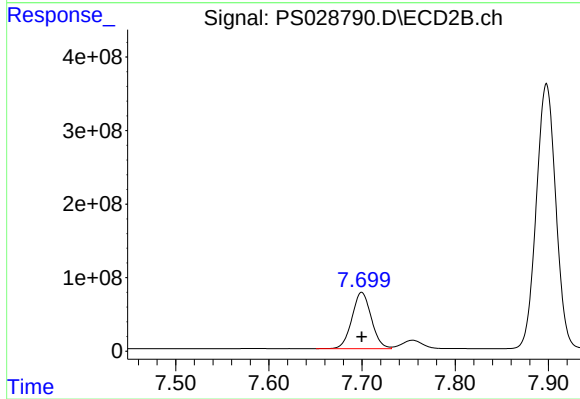
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 747396809
Conc: 916.44 ng/ml



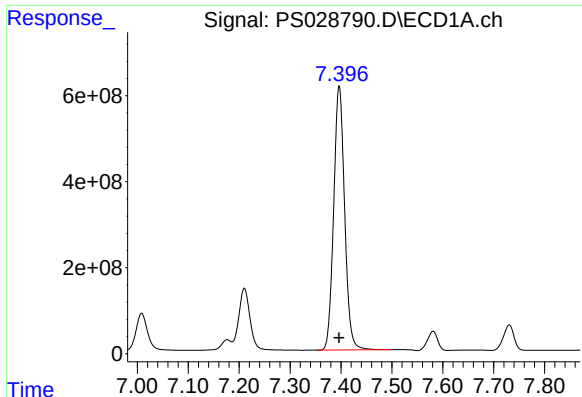
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 2453909564
Conc: 1134.94 ng/ml



#4 2,4-DCAA

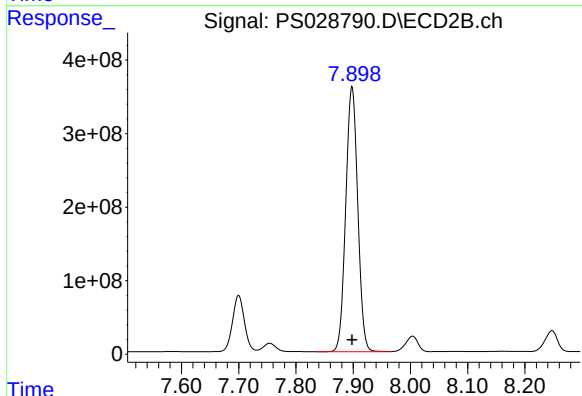
R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 1104094634
Conc: 998.68 ng/ml



#5 DICAMBA

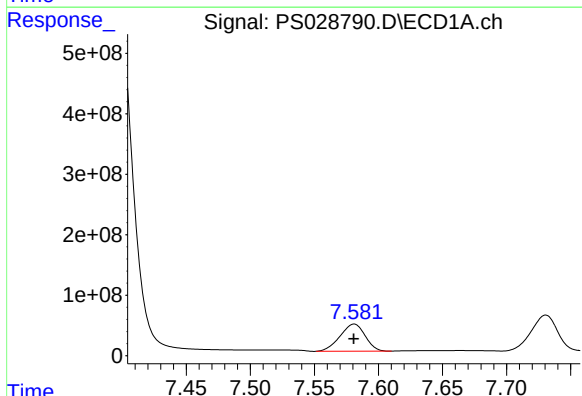
R.T.: 7.397 min
Delta R.T.: 0.000 min
Response: 9168915637
Conc: 942.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



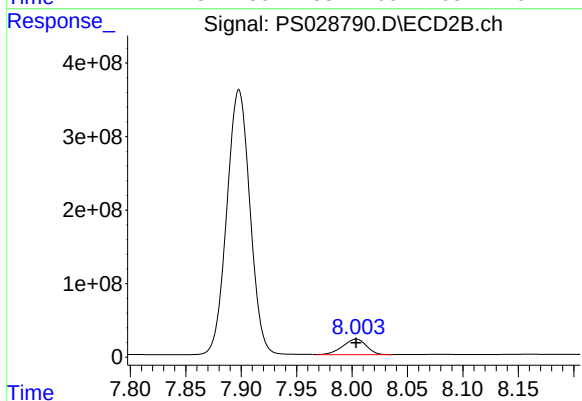
#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 5233373016
Conc: 940.26 ng/ml



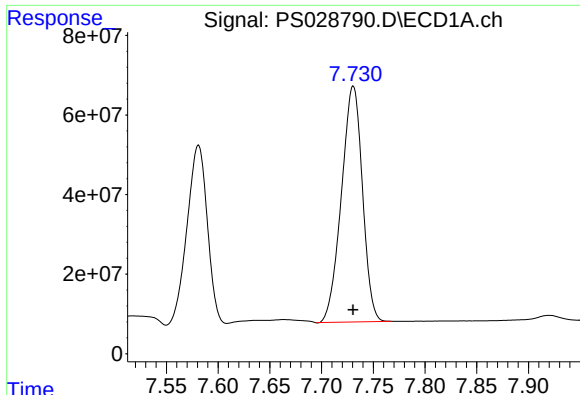
#6 MCP

R.T.: 7.581 min
Delta R.T.: 0.000 min
Response: 613570466
Conc: 93.27 ug/ml



#6 MCP

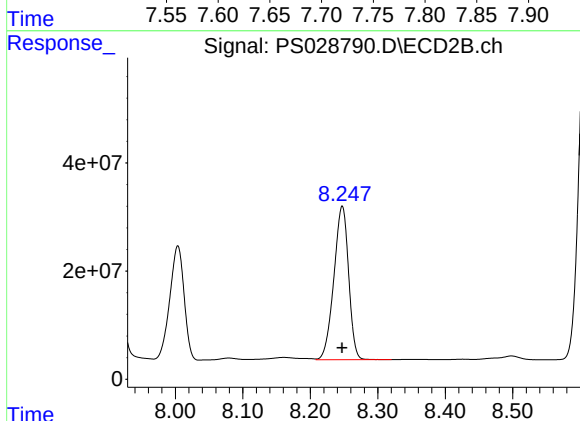
R.T.: 8.004 min
Delta R.T.: 0.000 min
Response: 312584461
Conc: 93.80 ug/ml



#7 MCPA

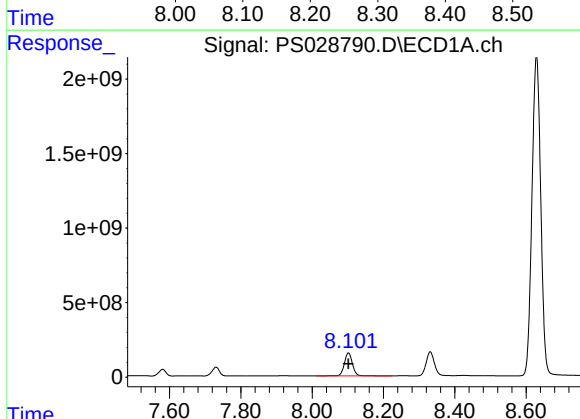
R.T.: 7.731 min
Delta R.T.: 0.000 min
Response: 836729639
Conc: 92.73 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



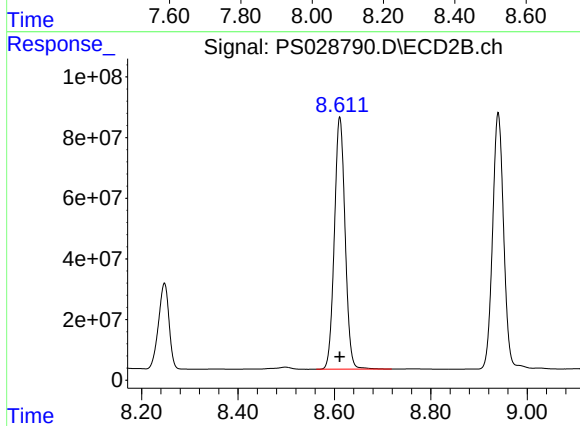
#7 MCPA

R.T.: 8.247 min
Delta R.T.: 0.000 min
Response: 431033829
Conc: 92.76 ug/ml



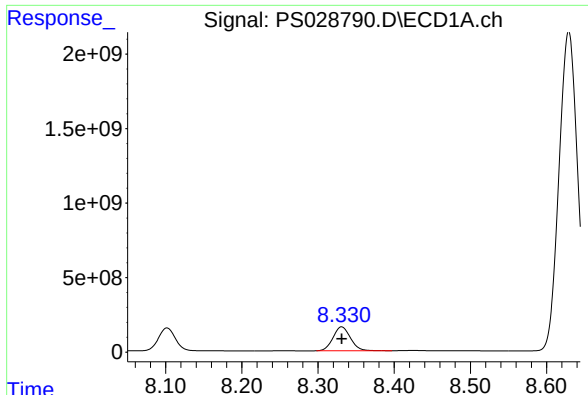
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 2407731346
Conc: 943.77 ng/ml



#8 DICHLORPROP

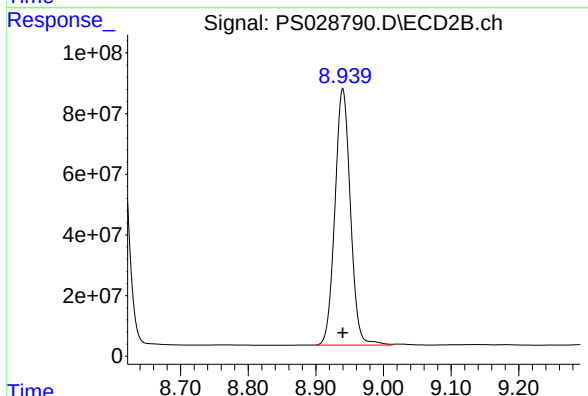
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 1281467502
Conc: 938.00 ng/ml



#9 2,4-D

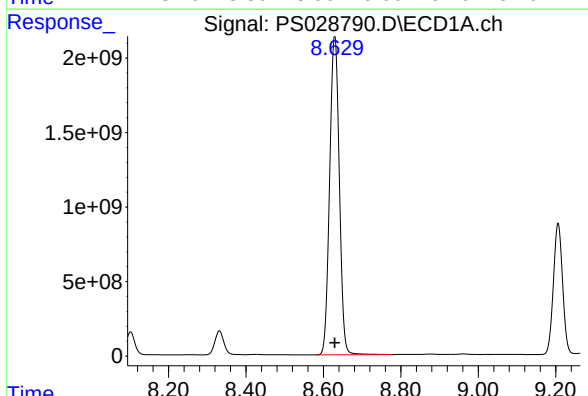
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 2561822082
Conc: 936.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



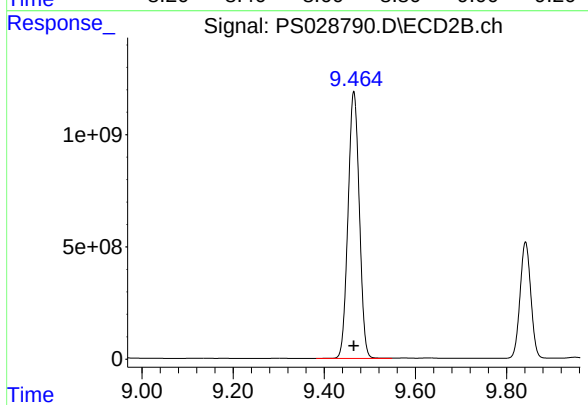
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1344098924
Conc: 939.29 ng/ml



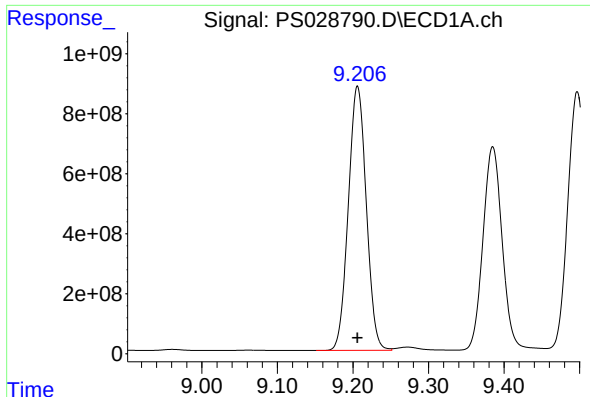
#10 Pentachlorophenol

R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 36737981703
Conc: 996.15 ng/ml



#10 Pentachlorophenol

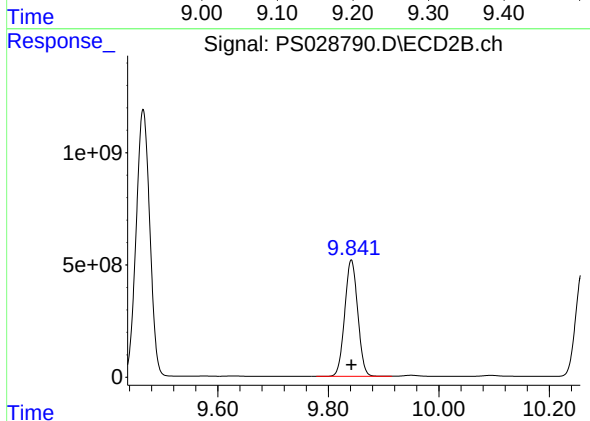
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 20389309944
Conc: 954.35 ng/ml



#11 2,4,5-TP (SILVEX)

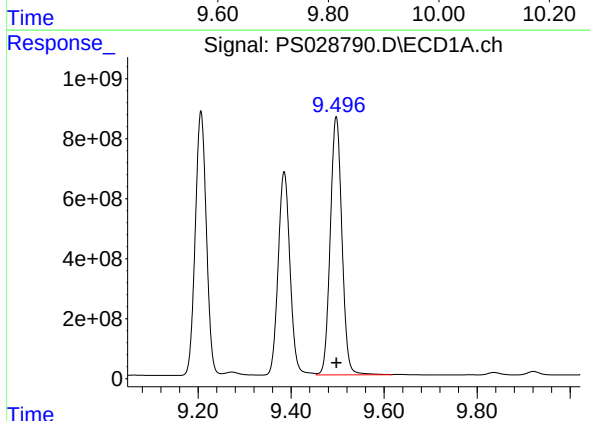
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 14533086349
Conc: 953.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



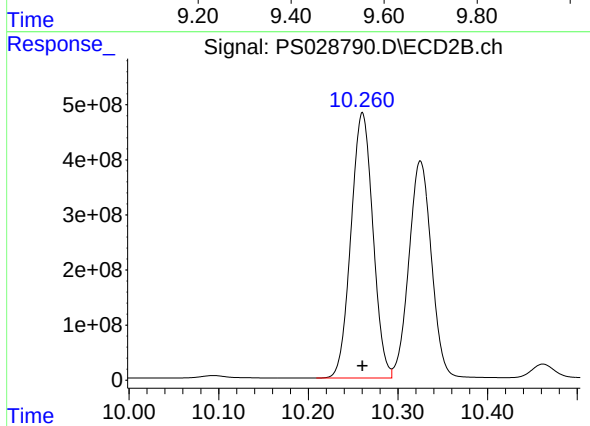
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 8474047803
Conc: 951.56 ng/ml



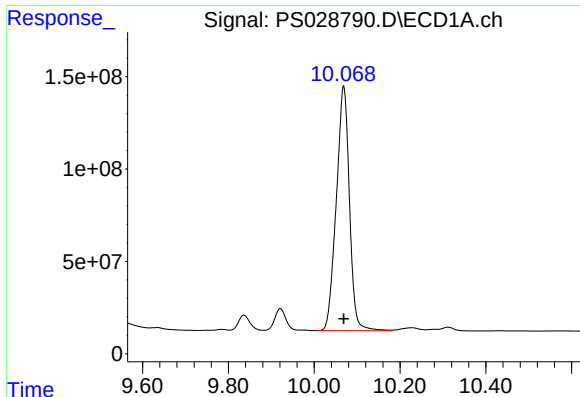
#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 14990081895
Conc: 954.26 ng/ml



#12 2,4,5-T

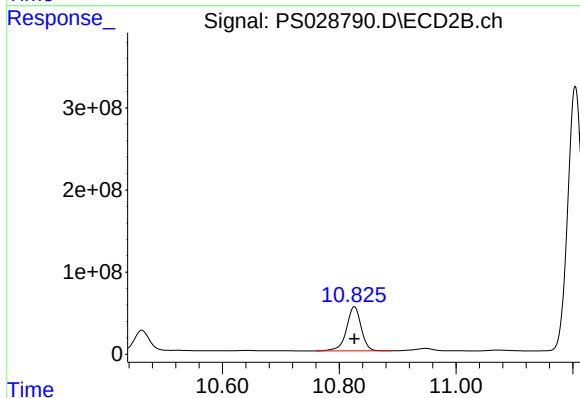
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 8190674112
Conc: 952.55 ng/ml



#13 2,4-DB

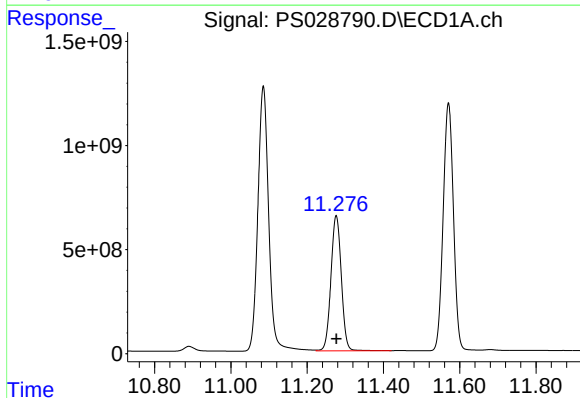
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 2816645135
Conc: 949.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



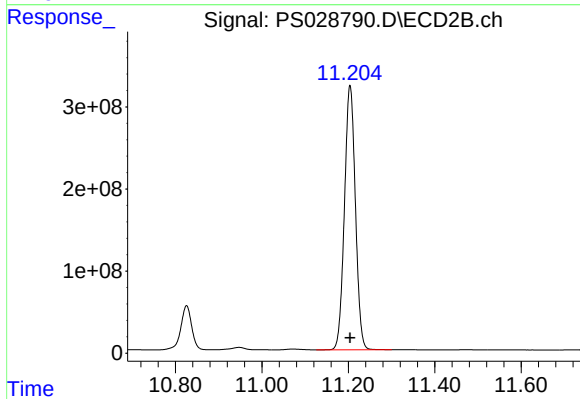
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 933183960
Conc: 946.75 ng/ml



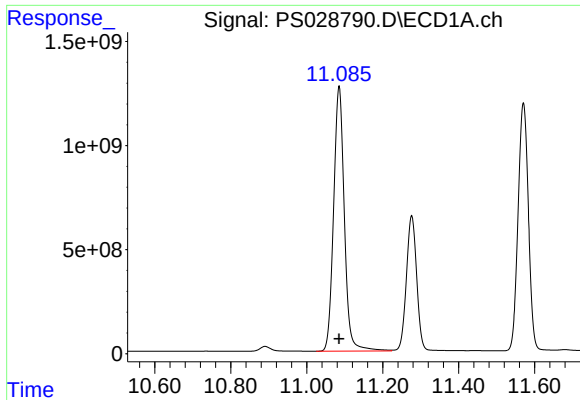
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 12260566434
Conc: 942.78 ng/ml



#14 DINOSEB

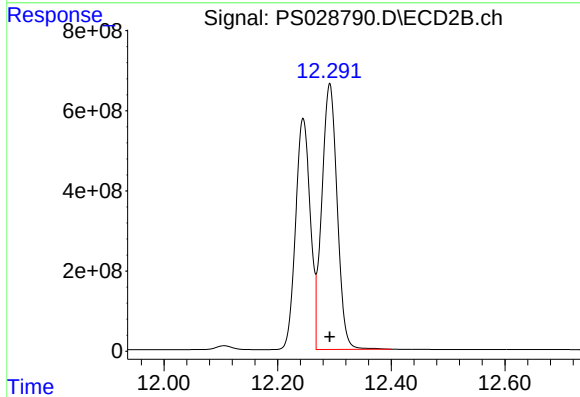
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 5663401402
Conc: 940.85 ng/ml



#15 Picloram

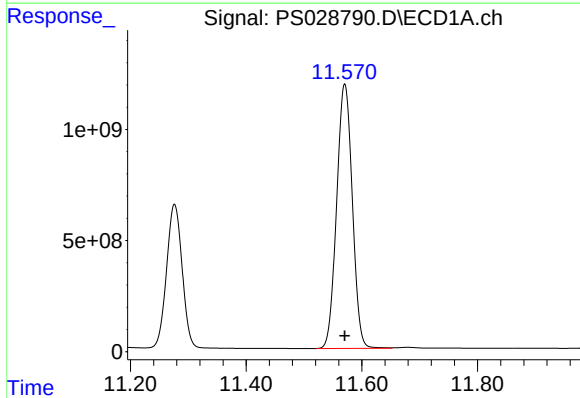
R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 25059396827
Conc: 951.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



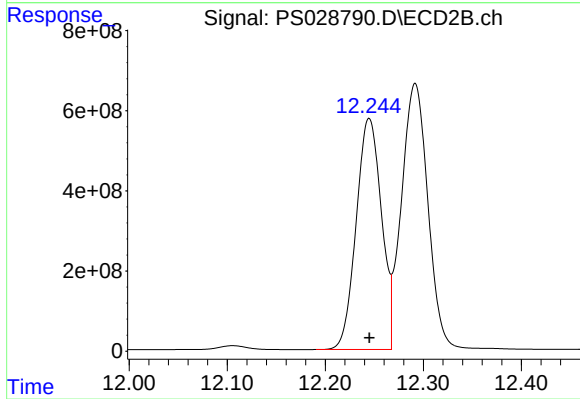
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 12444414253
Conc: 952.26 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 22401440664
Conc: 964.96 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 10328797190
Conc: 963.81 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028798.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 15:46
 Operator : AR\AJ
 Sample : PB165776BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB165776BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 04:29:43 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.209	7.699	1237.5E6	577.0E6	547.094	512.653
Target Compounds							
1) T	Dalapon	2.621	2.675	1358.3E6	913.2E6	482.241	463.871
2) T	3,5-DICHL...	6.384	6.660	1679.2E6	789.7E6	509.597	476.391
3) T	4-Nitroph...	7.007	7.227	726.4E6	385.8E6	483.595	460.950
5) T	DICAMBA	7.395	7.896	5049.6E6	2628.1E6	512.097	478.709
6) T	MCPD	7.576	7.999	282.7E6	154.6E6	45.392	47.295
7) T	MCPA	7.724	8.241	426.8E6	219.0E6	48.692	47.263
8) T	DICHLORPROP	8.100	8.610	1360.4E6	671.9E6	512.751	486.978
9) T	2,4-D	8.329	8.939	1462.6E6	699.1E6	513.283	484.461
10) T	Pentachlo...	8.627	9.464	21037.6E6	10876.4E6	538.501	498.945
11) T	2,4,5-TP ...	9.204	9.841	8203.7E6	4390.9E6	522.215	488.775
12) T	2,4,5-T	9.495	10.259	8496.7E6	4254.4E6	522.254	488.492
13) T	2,4-DB	10.066	10.825	1549.8E6	473.0E6	496.478	487.081
14) T	DINOSEB	11.274	11.203	6906.1E6	2943.9E6	513.784	477.969
15) T	Picloram	11.082	12.291	13388.1E6	6048.5E6	499.319	471.106
16) T	DCPA	11.567	12.244	12602.5E6	5287.6E6	523.989	492.117

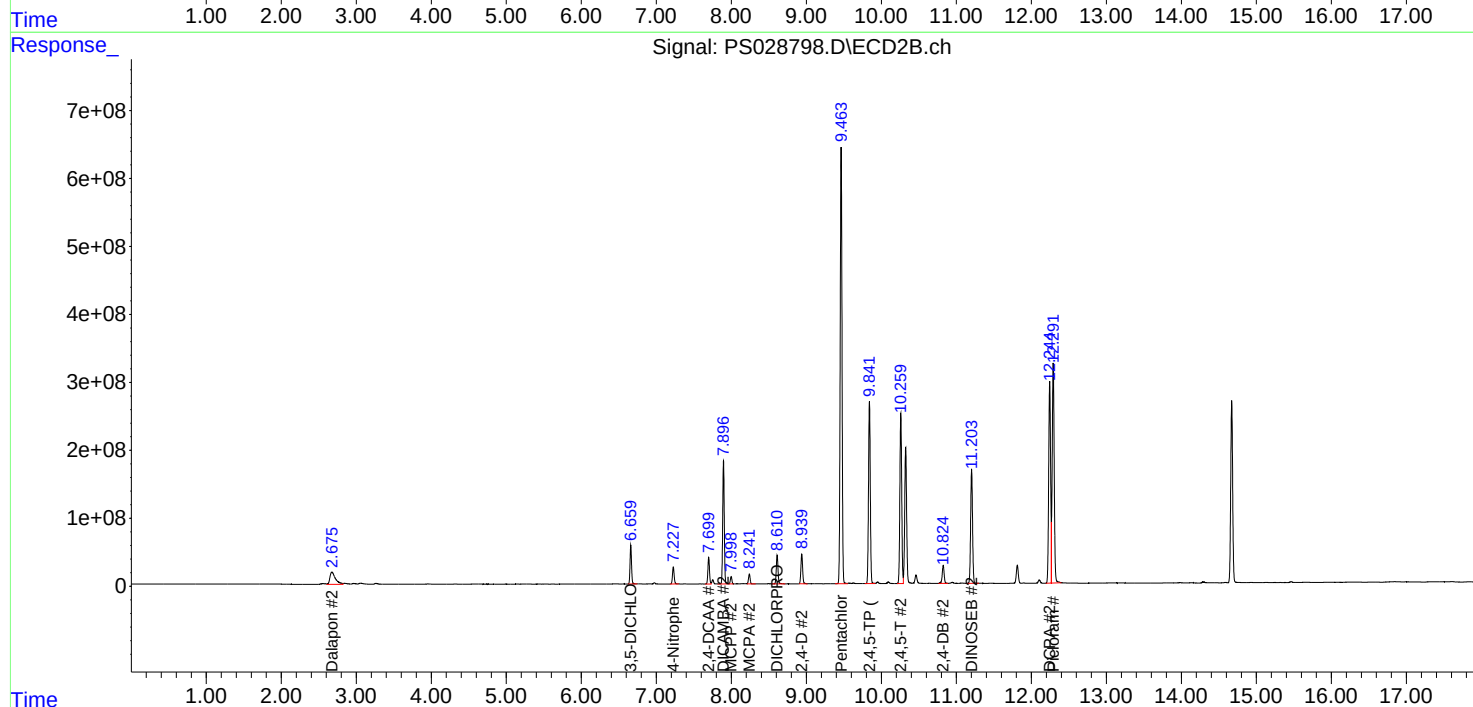
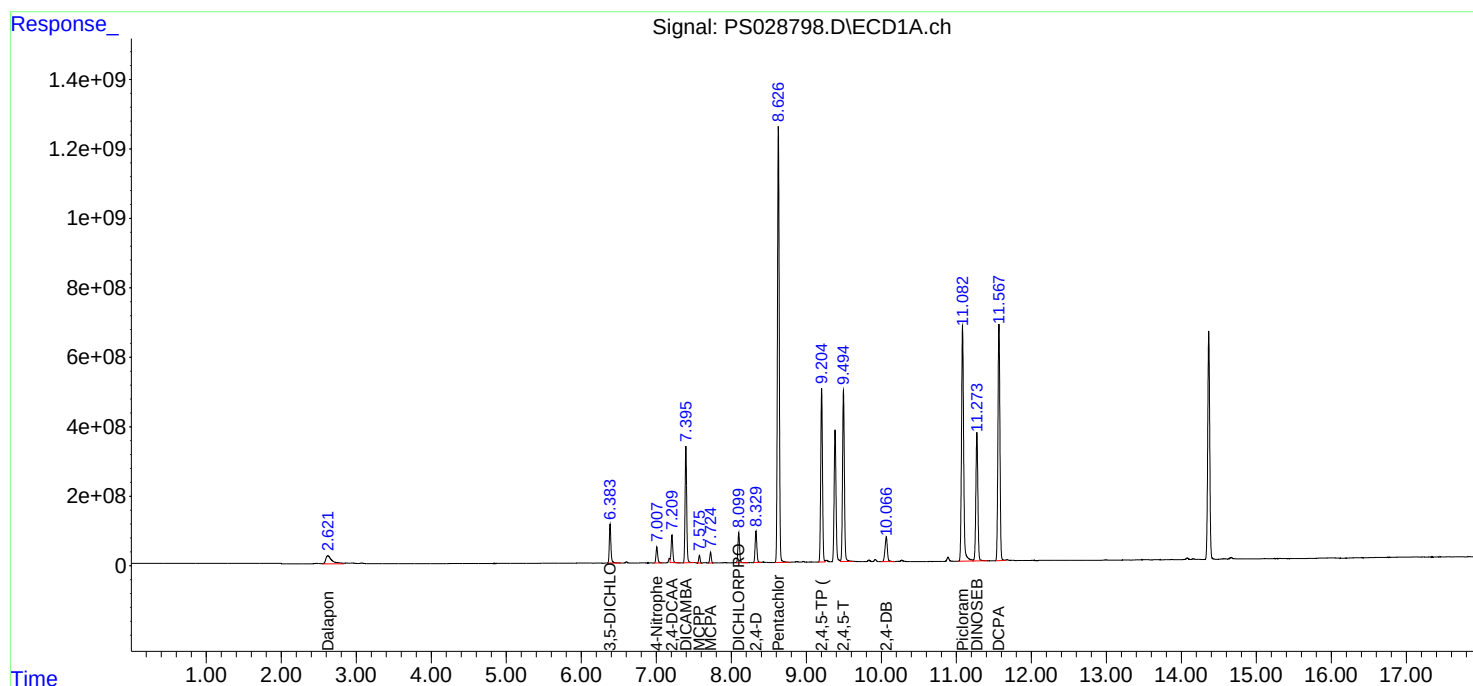
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

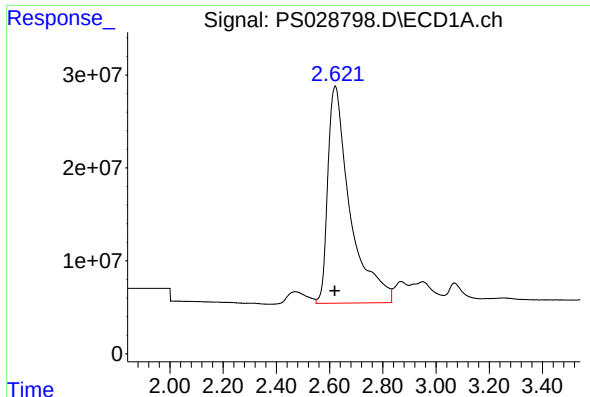
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028798.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 15:46
Operator : AR\AJ
Sample : PB165776BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165776BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 30 04:29:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

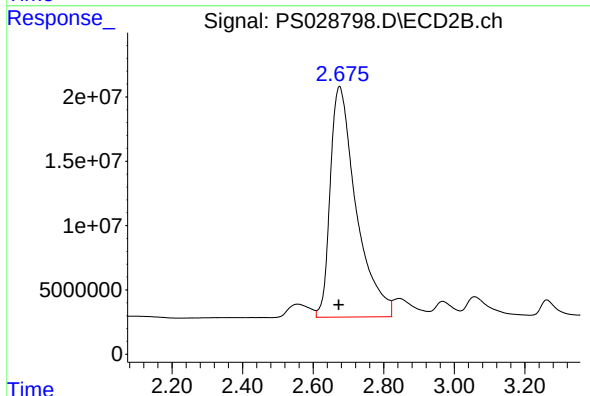




#1 Dalapon

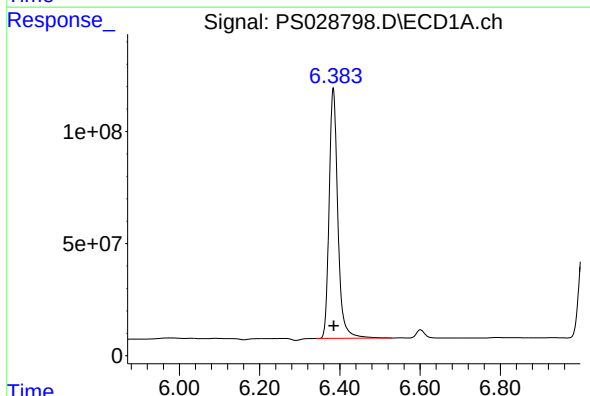
R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1358303902
Conc: 482.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS



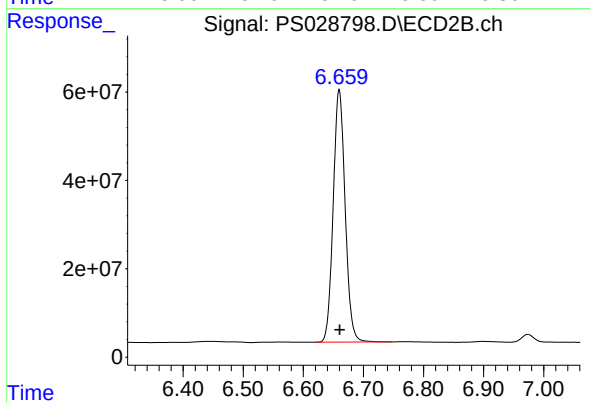
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 913177245
Conc: 463.87 ng/ml



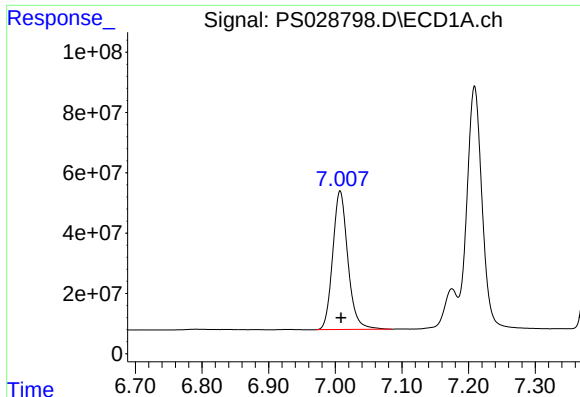
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: -0.001 min
Response: 1679190823
Conc: 509.60 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

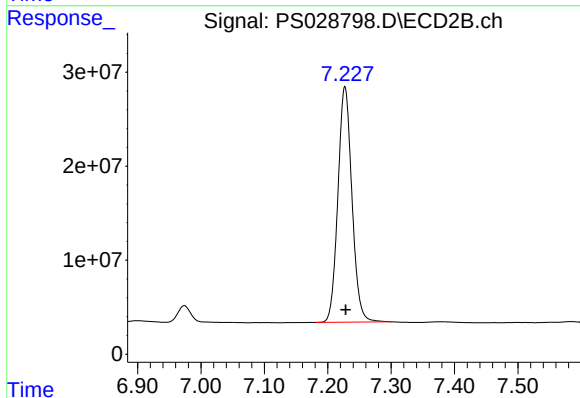
R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 789653152
Conc: 476.39 ng/ml



#3 4-Nitrophenol

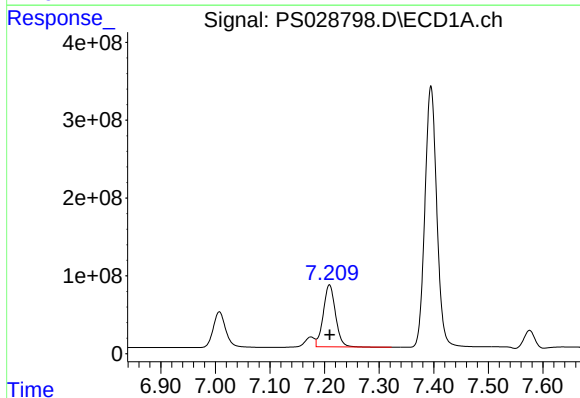
R.T.: 7.007 min
Delta R.T.: -0.001 min
Response: 726388218
Conc: 483.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS



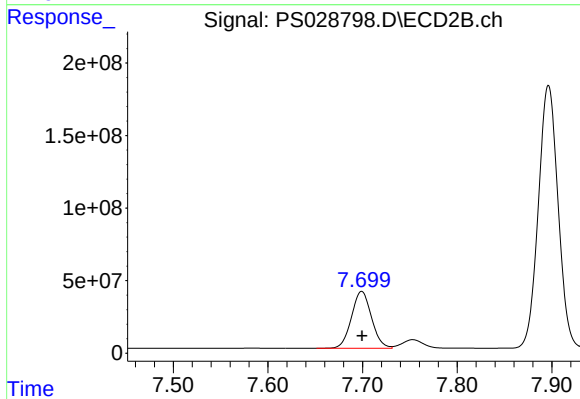
#3 4-Nitrophenol

R.T.: 7.227 min
Delta R.T.: -0.001 min
Response: 385766118
Conc: 460.95 ng/ml



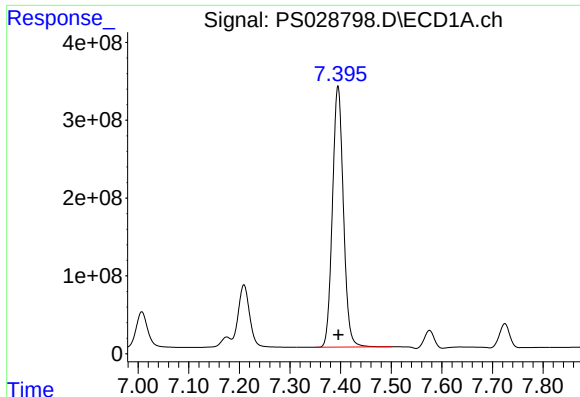
#4 2,4-DCAA

R.T.: 7.209 min
Delta R.T.: 0.000 min
Response: 1237539819
Conc: 547.09 ng/ml



#4 2,4-DCAA

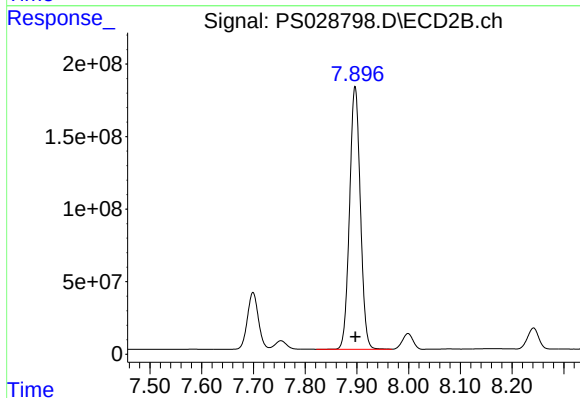
R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 577009805
Conc: 512.65 ng/ml



#5 DICAMBA

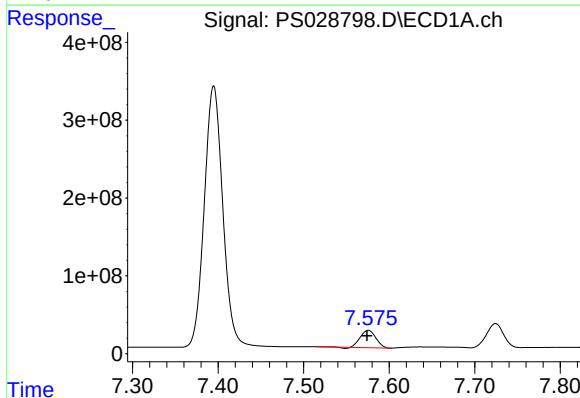
R.T.: 7.395 min
Delta R.T.: -0.001 min
Response: 5049611035
Conc: 512.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS



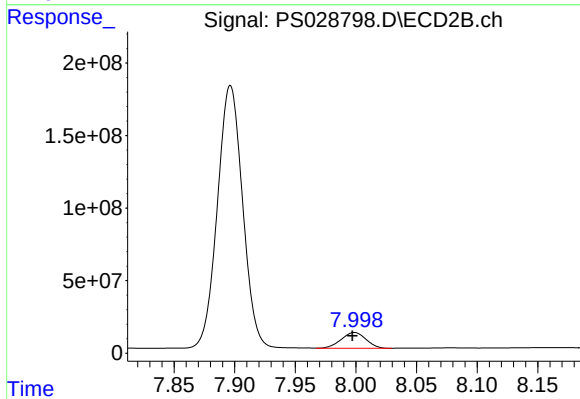
#5 DICAMBA

R.T.: 7.896 min
Delta R.T.: 0.000 min
Response: 2628052983
Conc: 478.71 ng/ml



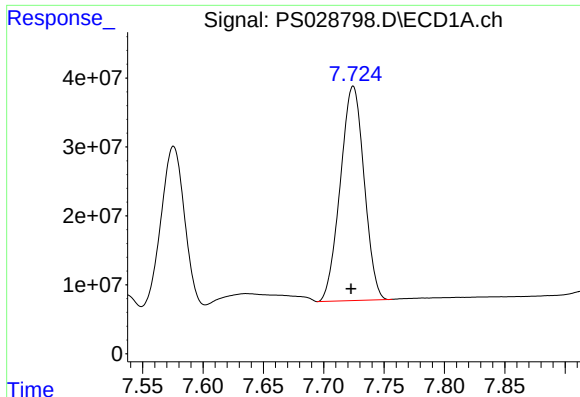
#6 MCP

R.T.: 7.576 min
Delta R.T.: 0.002 min
Response: 282663193
Conc: 45.39 ug/ml



#6 MCP

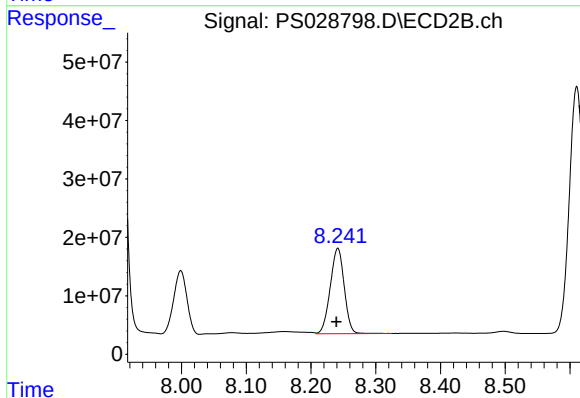
R.T.: 7.999 min
Delta R.T.: 0.002 min
Response: 154551303
Conc: 47.30 ug/ml



#7 MCPA

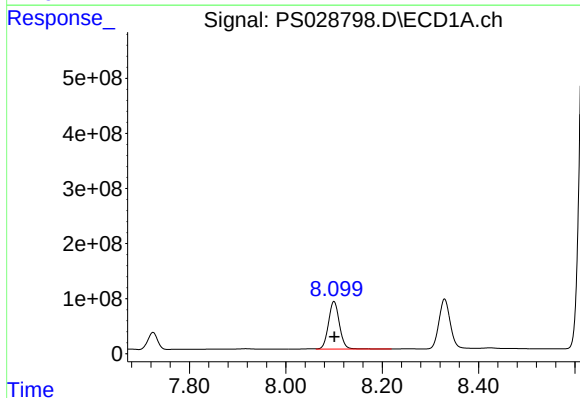
R.T.: 7.724 min
Delta R.T.: 0.002 min
Response: 426805011
Conc: 48.69 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS



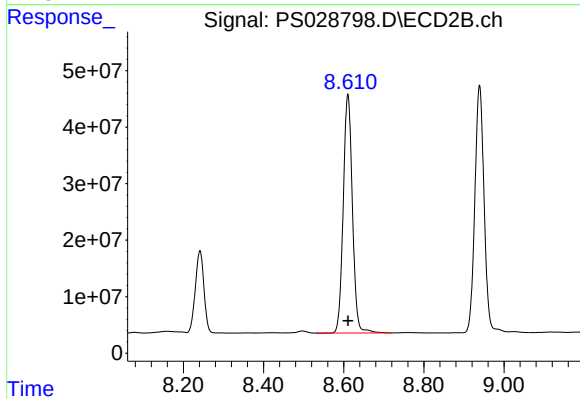
#7 MCPA

R.T.: 8.241 min
Delta R.T.: 0.002 min
Response: 218964705
Conc: 47.26 ug/ml



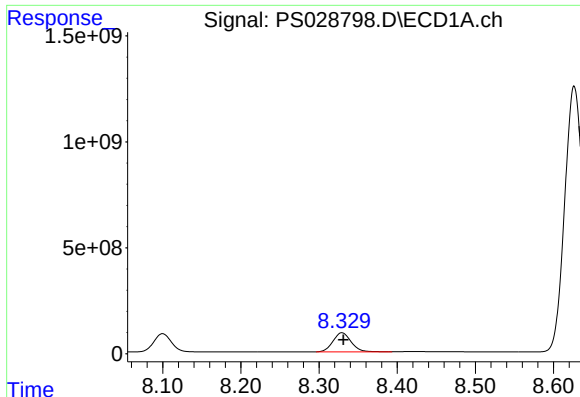
#8 DICHLORPROP

R.T.: 8.100 min
Delta R.T.: -0.001 min
Response: 1360420072
Conc: 512.75 ng/ml



#8 DICHLORPROP

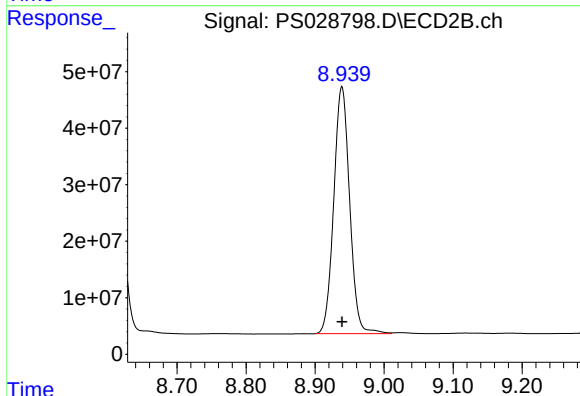
R.T.: 8.610 min
Delta R.T.: 0.000 min
Response: 671863402
Conc: 486.98 ng/ml



#9 2,4-D

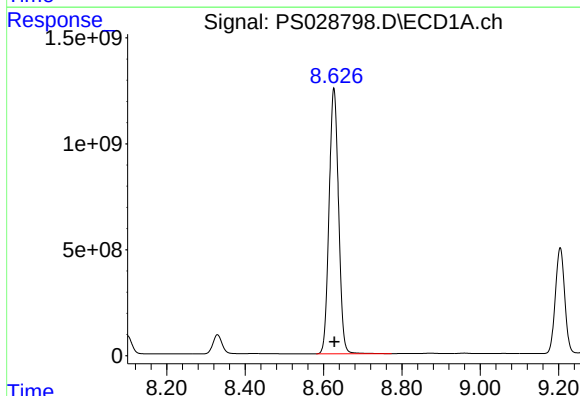
R.T.: 8.329 min
Delta R.T.: -0.002 min
Response: 1462617907
Conc: 513.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS



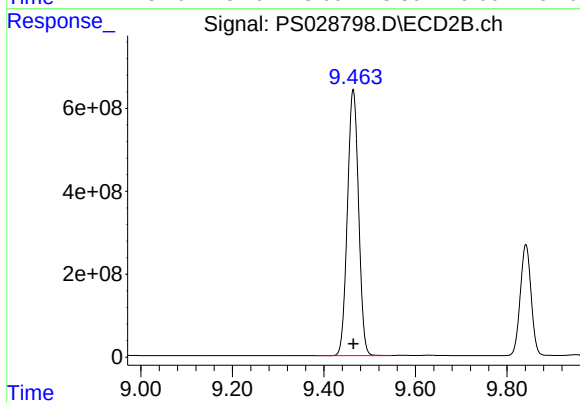
#9 2,4-D

R.T.: 8.939 min
Delta R.T.: 0.000 min
Response: 699147681
Conc: 484.46 ng/ml



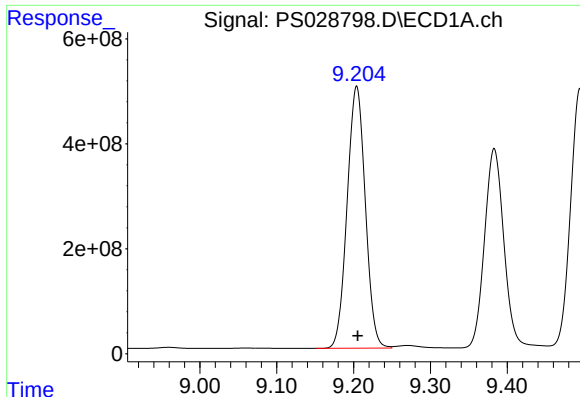
#10 Pentachlorophenol

R.T.: 8.627 min
Delta R.T.: -0.002 min
Response: 21037599396
Conc: 538.50 ng/ml



#10 Pentachlorophenol

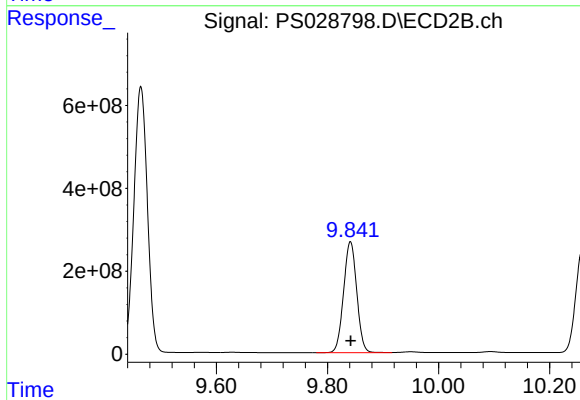
R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 10876367242
Conc: 498.95 ng/ml



#11 2,4,5-TP (SILVEX)

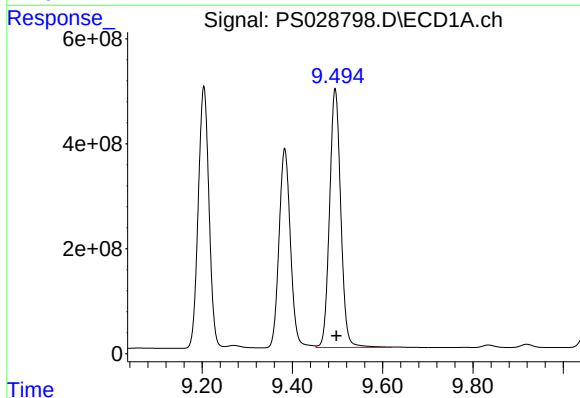
R.T.: 9.204 min
Delta R.T.: -0.001 min
Response: 8203653829
Conc: 522.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS



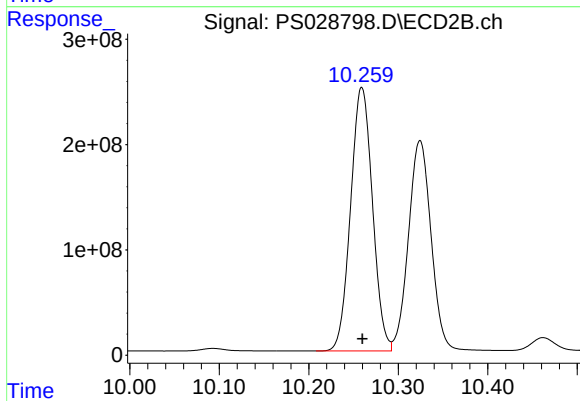
#11 2,4,5-TP (SILVEX)

R.T.: 9.841 min
Delta R.T.: 0.000 min
Response: 4390916804
Conc: 488.77 ng/ml



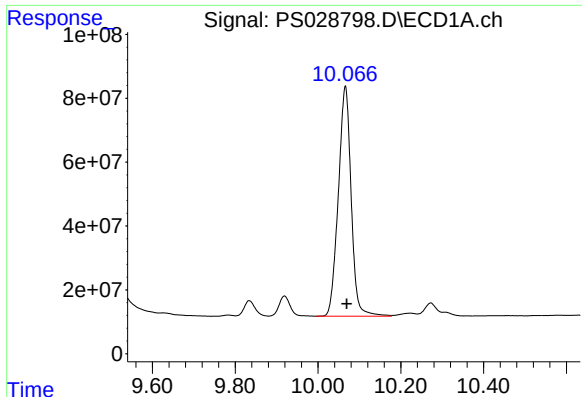
#12 2,4,5-T

R.T.: 9.495 min
Delta R.T.: -0.003 min
Response: 8496654682
Conc: 522.25 ng/ml



#12 2,4,5-T

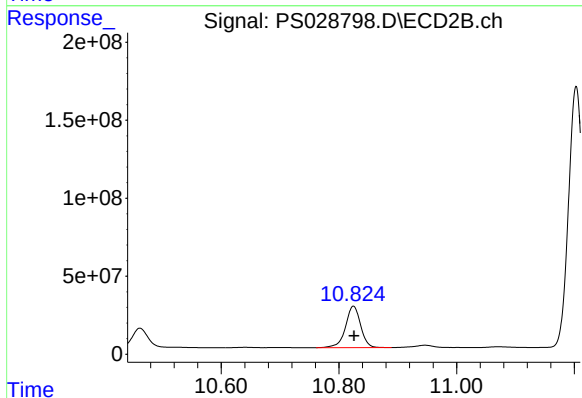
R.T.: 10.259 min
Delta R.T.: 0.000 min
Response: 4254363586
Conc: 488.49 ng/ml



#13 2,4-DB

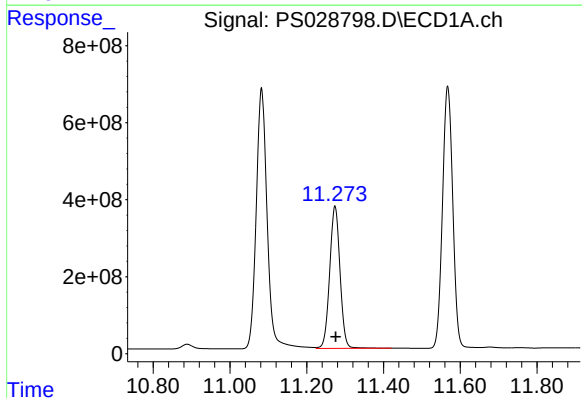
R.T.: 10.066 min
Delta R.T.: -0.003 min
Response: 1549804433
Conc: 496.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS



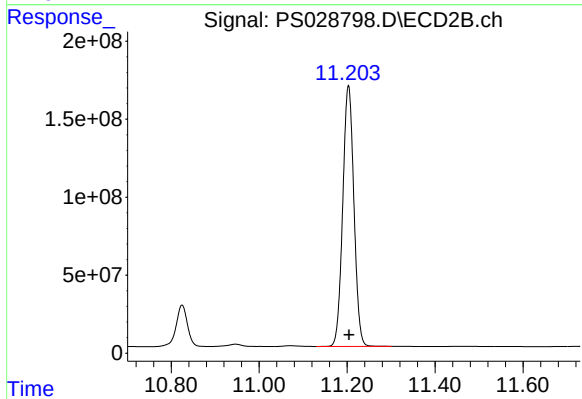
#13 2,4-DB

R.T.: 10.825 min
Delta R.T.: -0.001 min
Response: 473003271
Conc: 487.08 ng/ml



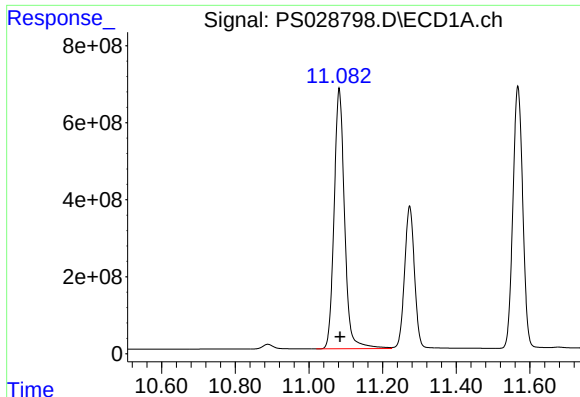
#14 DINOSEB

R.T.: 11.274 min
Delta R.T.: -0.002 min
Response: 6906146827
Conc: 513.78 ng/ml



#14 DINOSEB

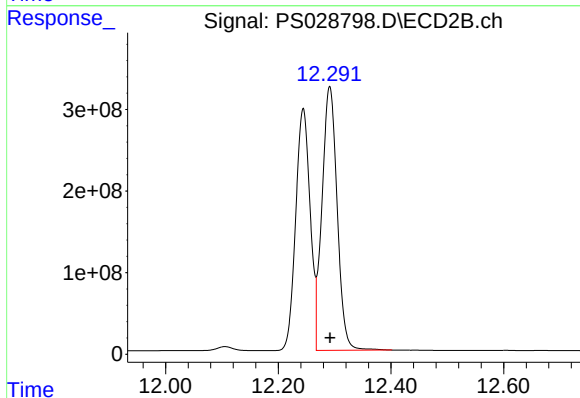
R.T.: 11.203 min
Delta R.T.: 0.000 min
Response: 2943878768
Conc: 477.97 ng/ml



#15 Picloram

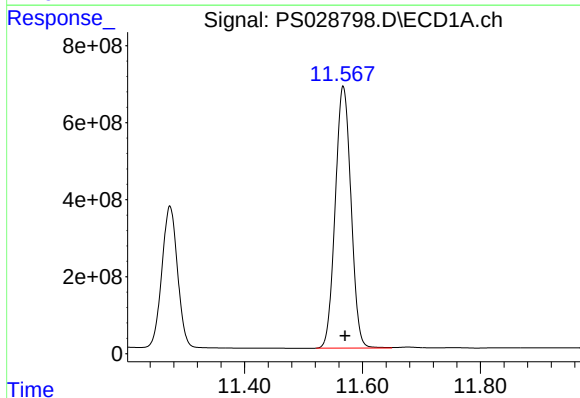
R.T.: 11.082 min
Delta R.T.: -0.002 min
Response: 13388137477
Conc: 499.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165776BS



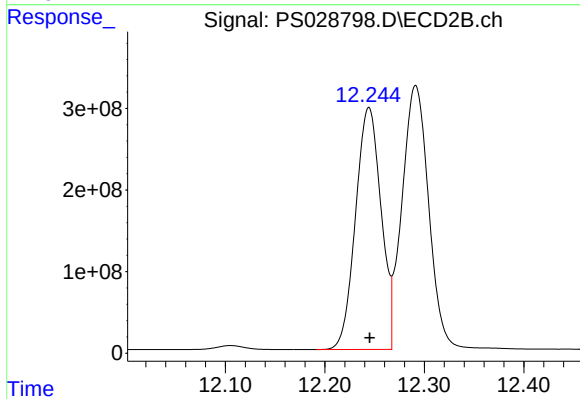
#15 Picloram

R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 6048539659
Conc: 471.11 ng/ml



#16 DCPA

R.T.: 11.567 min
Delta R.T.: -0.003 min
Response: 12602475043
Conc: 523.99 ng/ml



#16 DCPA

R.T.: 12.244 min
Delta R.T.: 0.000 min
Response: 5287593826
Conc: 492.12 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028801.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 16:58
 Operator : AR\AJ
 Sample : P5306-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-07-121224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 24 01:54:45 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.208	7.699	516.9E6	173.4E6	228.510	154.041 #
Target Compounds							
2) T	3,5-DICHL...	6.367	0.000	6345178	0	1.926	N.D. #
3) T	4-Nitroph...	7.015	7.239	144.9E6	3652815	96.454	4.365 #
6) T	MCP	7.569	8.020	5659296	14333988	<MDL	4.386 #
7) T	MCPA	7.746	0.000	16269781	0	1.856	N.D. #
8) T	DICHLORPROP	8.113	8.578f	16248797	694972	6.124	<MDL #
10) T	Pentachlo...	8.624	9.464	2819504	10605948	<MDL	<MDL #
11) T	2,4,5-TP ...	0.000	9.871f	0	20914611	N.D.	2.328
12) T	2,4,5-T	9.458f	10.286f	41338715	57814437	2.541	6.638 #
13) T	2,4-DB	10.049	0.000	182.0E6	0	58.297	N.D. #
14) T	DINOSEB	11.306f	11.222	78240736	5701313	5.821	<MDL #
15) T	Picloram	11.084	12.292	430.6E6	65635584	16.060	5.112 #
16) T	DCPA	0.000	12.292f	0	65635584	N.D.	6.109

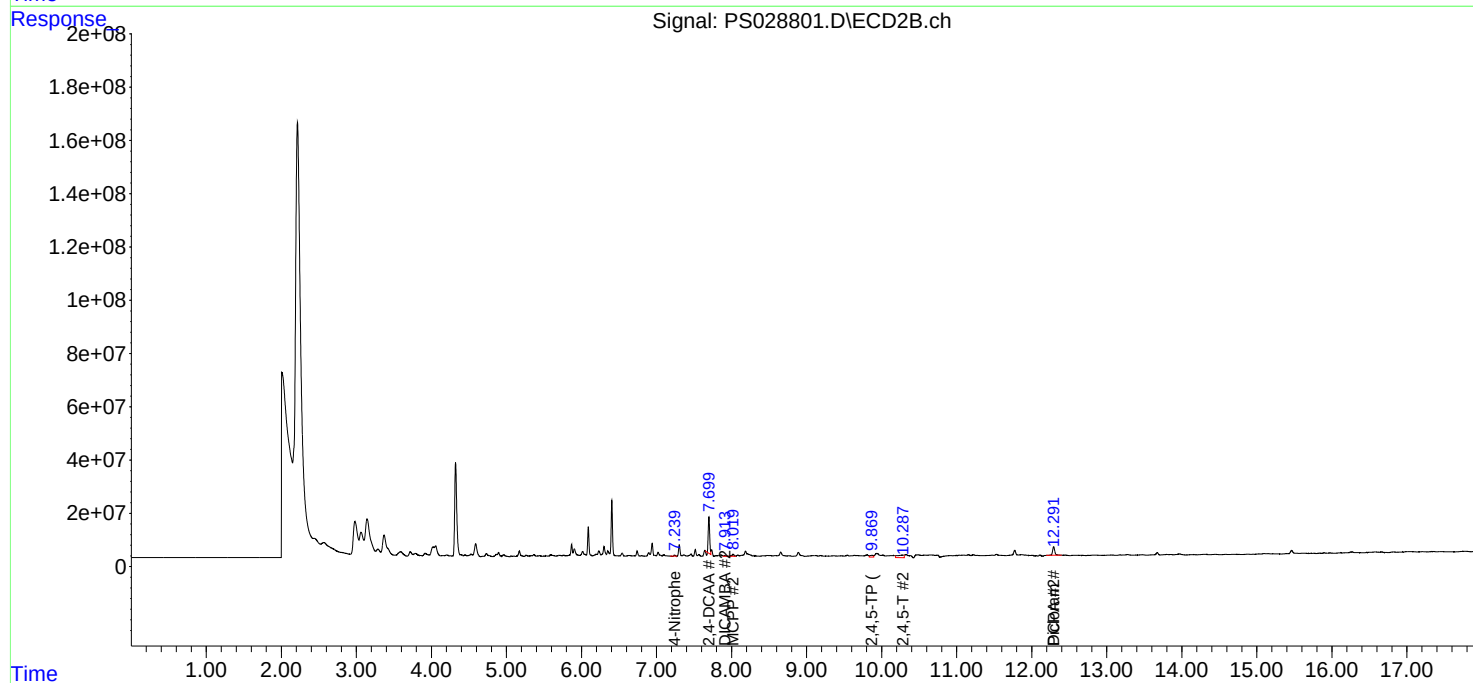
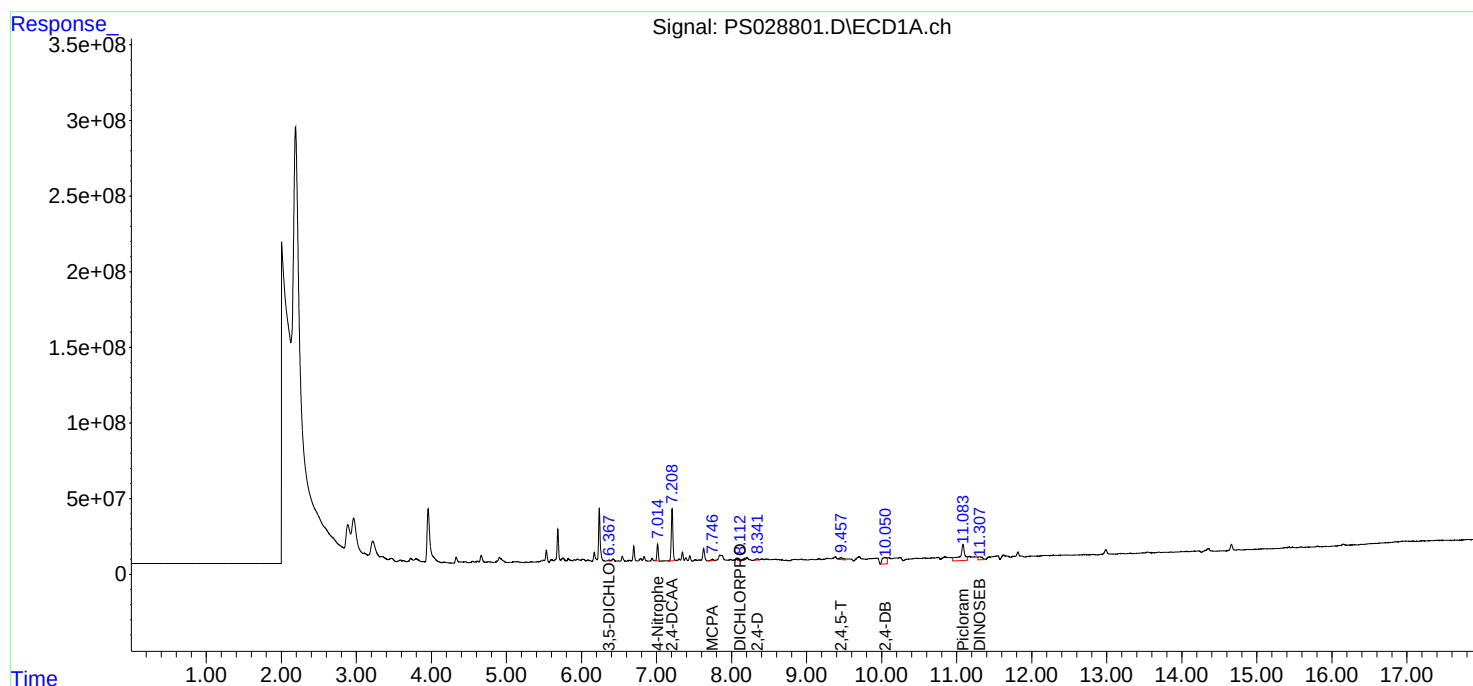
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

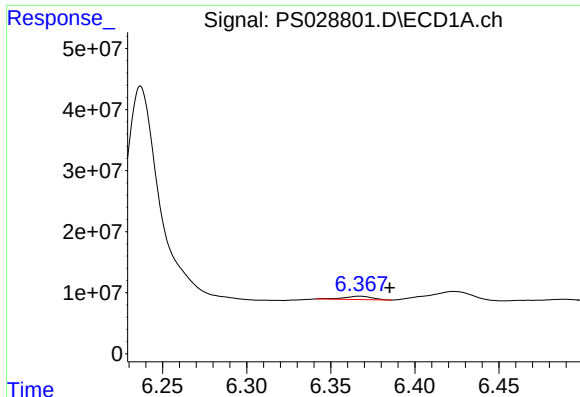
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028801.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 16:58
Operator : AR\AJ
Sample : P5306-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:54:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

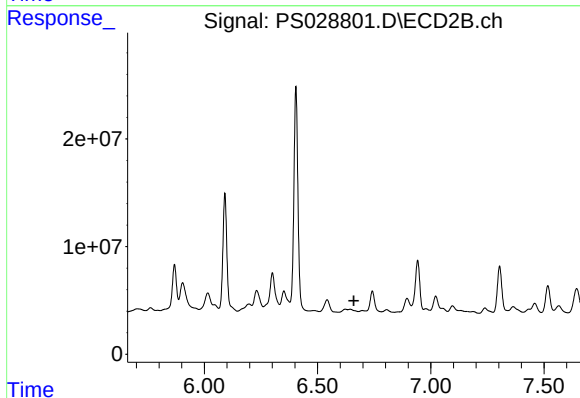




#2 3,5-DICHLOROBENZOIC ACID

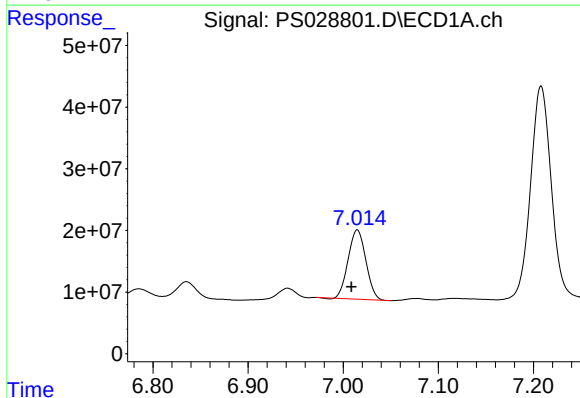
R.T.: 6.367 min
Delta R.T.: -0.018 min
Response: 6345178
Conc: 1.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224



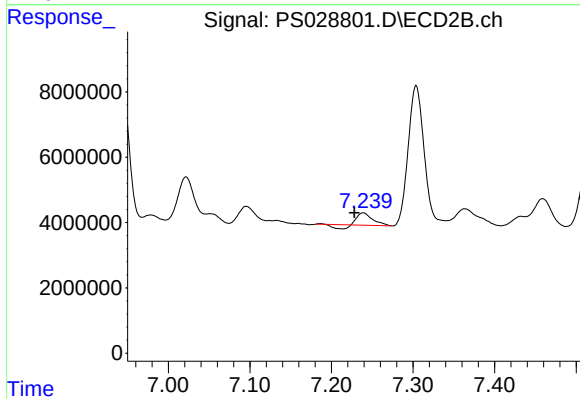
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 0.000 min
Exp R.T. : 6.661 min
Response: 0
Conc: N.D.



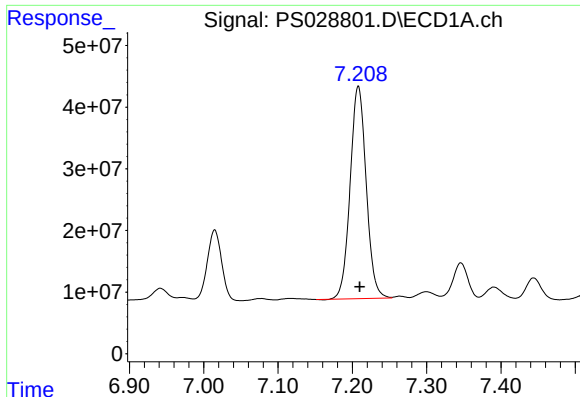
#3 4-Nitrophenol

R.T.: 7.015 min
Delta R.T.: 0.006 min
Response: 144879154
Conc: 96.45 ng/ml



#3 4-Nitrophenol

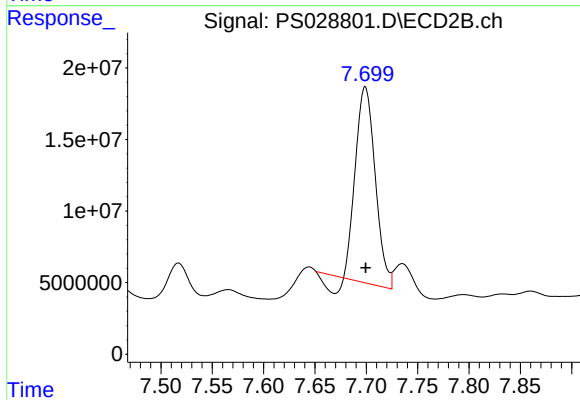
R.T.: 7.239 min
Delta R.T.: 0.011 min
Response: 3652815
Conc: 4.36 ng/ml



#4 2,4-DCAA

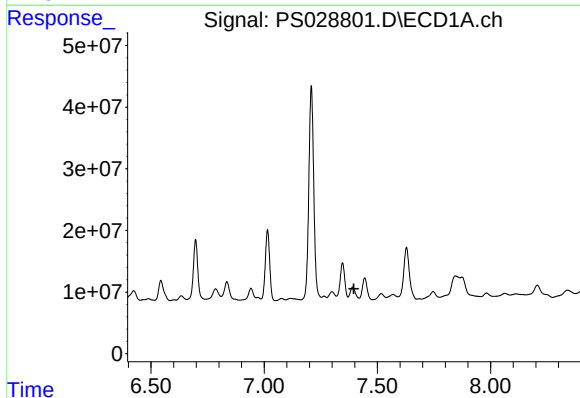
R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 516895298
Conc: 228.51 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224



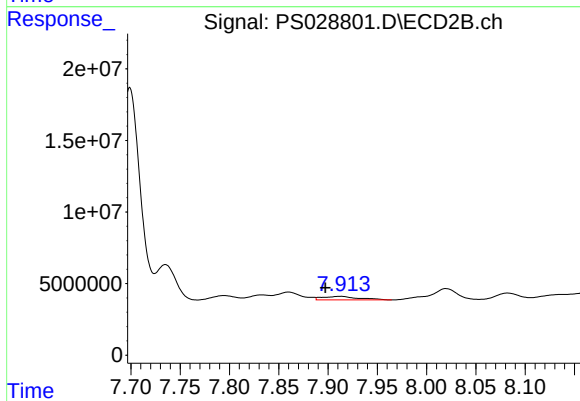
#4 2,4-DCAA

R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 173378752
Conc: 154.04 ng/ml



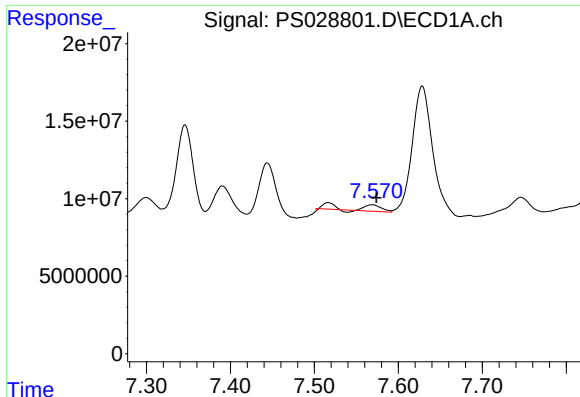
#5 DICAMBA

R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: -52105780
Conc: N.D.



#5 DICAMBA

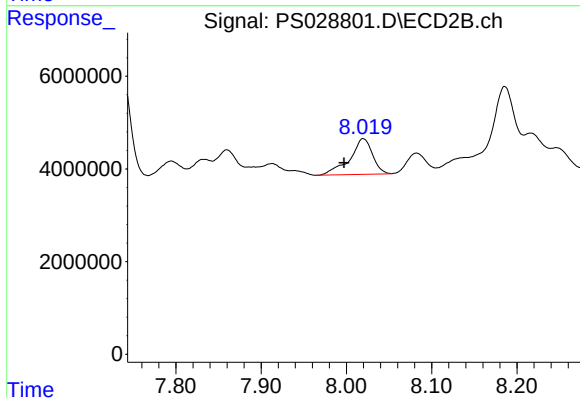
R.T.: 7.912 min
Delta R.T.: 0.015 min
Response: 6318751
Conc: 1.15 ng/ml



#6 MCPP

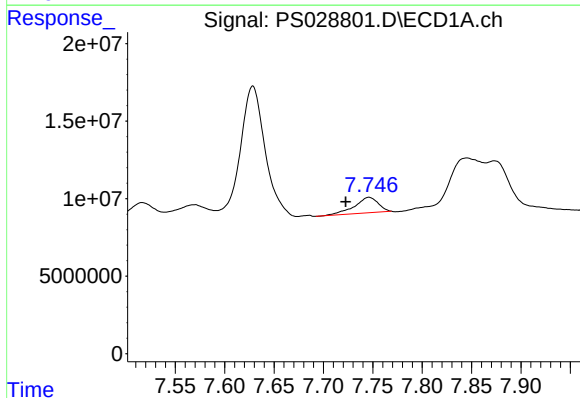
R.T.: 7.569 min
Delta R.T.: -0.005 min
Response: 5659296
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224



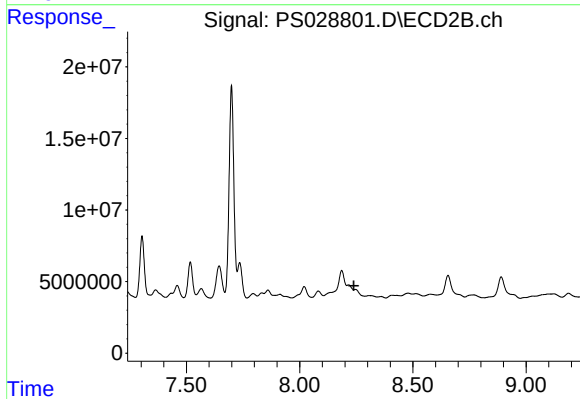
#6 MCPP

R.T.: 8.020 min
Delta R.T.: 0.023 min
Response: 14333988
Conc: 4.39 ug/ml



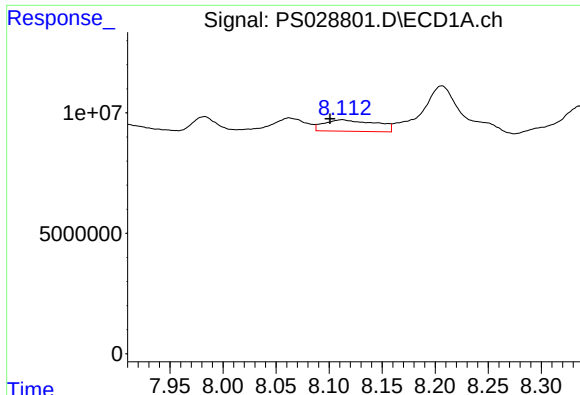
#7 MCPA

R.T.: 7.746 min
Delta R.T.: 0.023 min
Response: 16269781
Conc: 1.86 ug/ml



#7 MCPA

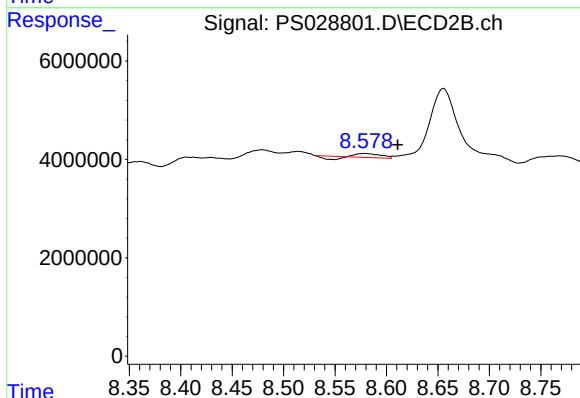
R.T.: 0.000 min
Exp R.T.: 8.239 min
Response: 0
Conc: N.D.



#8 DICHLORPROP

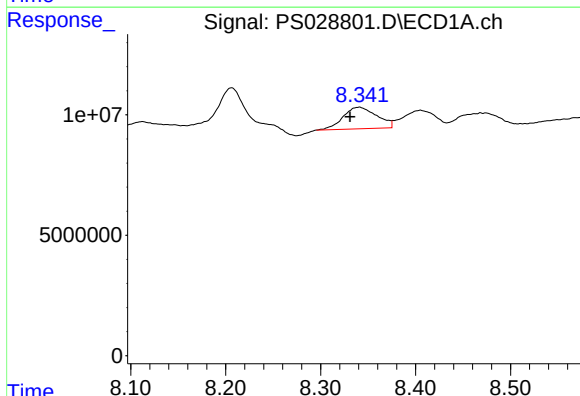
R.T.: 8.113 min
Delta R.T.: 0.012 min
Response: 16248797
Conc: 6.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224



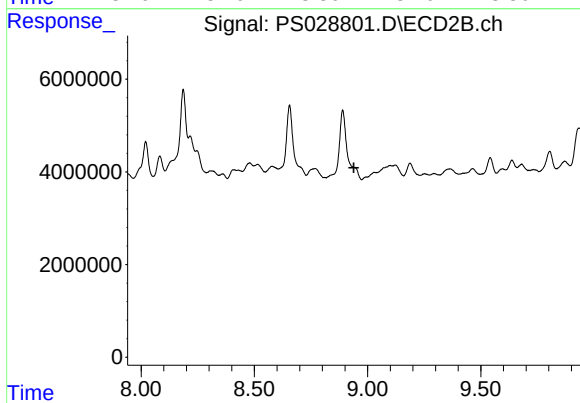
#8 DICHLORPROP

R.T.: 8.578 min
Delta R.T.: -0.033 min
Response: 694972
Conc: N.D.



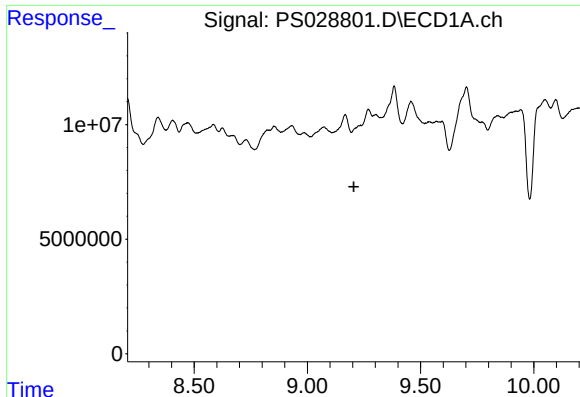
#9 2,4-D

R.T.: 8.341 min
Delta R.T.: 0.009 min
Response: 22243745
Conc: 7.81 ng/ml



#9 2,4-D

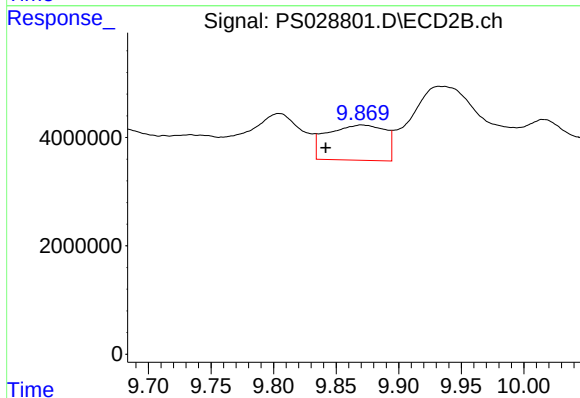
R.T.: 8.890 min
Delta R.T.: -0.049 min
Response: -15007292
Conc: N.D.



#11 2,4,5-TP (SILVEX)

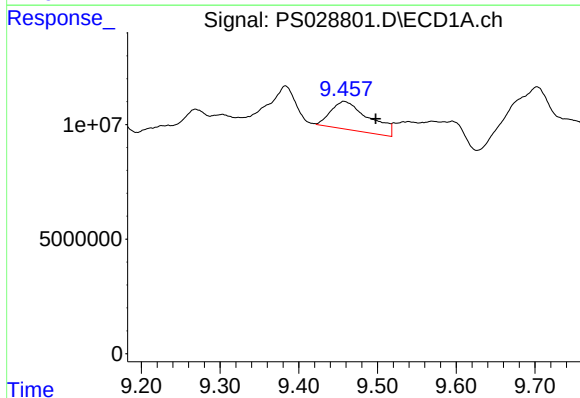
R.T.: 0.000 min
Exp R.T.: 9.205 min
Response: 0
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224



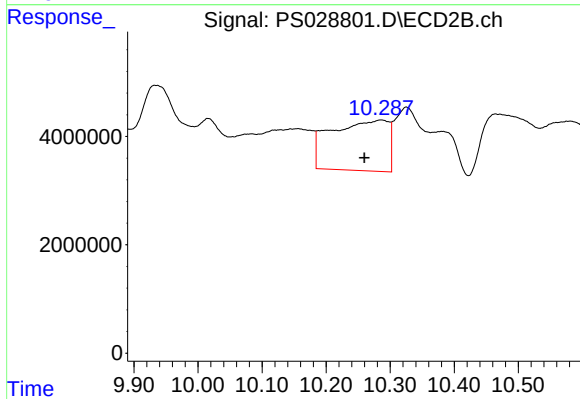
#11 2,4,5-TP (SILVEX)

R.T.: 9.871 min
Delta R.T.: 0.029 min
Response: 20914611
Conc: 2.33 ng/ml



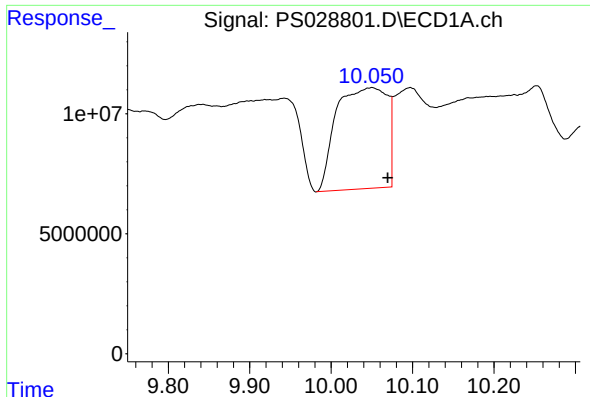
#12 2,4,5-T

R.T.: 9.458 min
Delta R.T.: -0.040 min
Response: 41338715
Conc: 2.54 ng/ml



#12 2,4,5-T

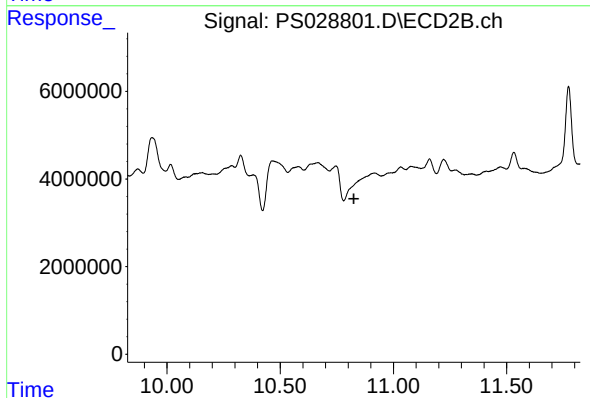
R.T.: 10.286 min
Delta R.T.: 0.026 min
Response: 57814437
Conc: 6.64 ng/ml



#13 2,4-DB

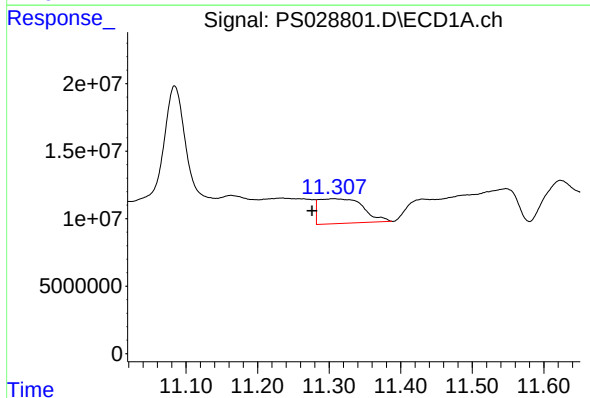
R.T.: 10.049 min
Delta R.T.: -0.020 min
Response: 181981025
Conc: 58.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224



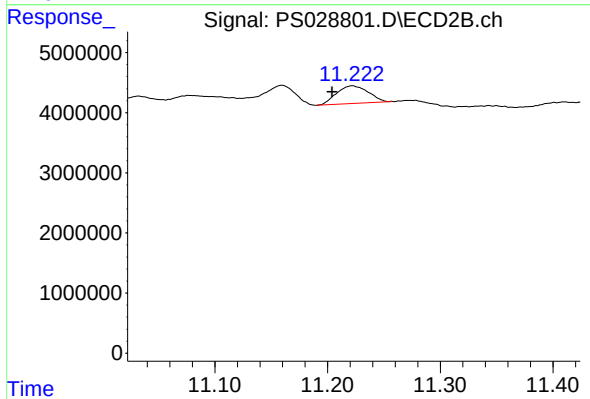
#13 2,4-DB

R.T.: 0.000 min
Exp R.T.: 10.826 min
Response: 0
Conc: N.D.



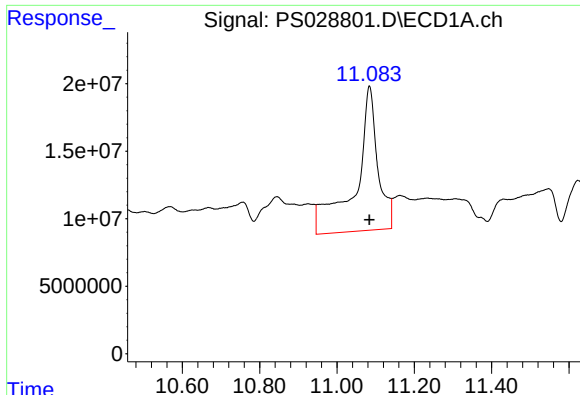
#14 DINOSEB

R.T.: 11.306 min
Delta R.T.: 0.030 min
Response: 78240736
Conc: 5.82 ng/ml



#14 DINOSEB

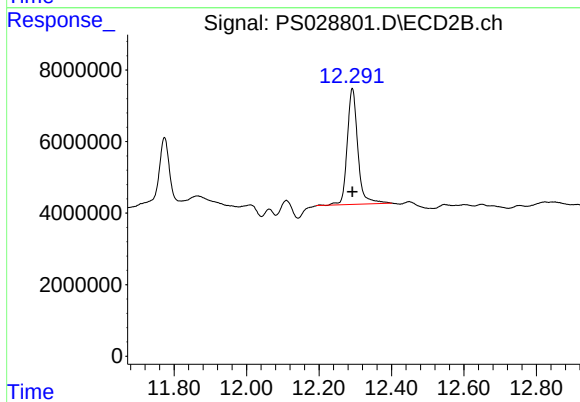
R.T.: 11.222 min
Delta R.T.: 0.018 min
Response: 5701313
Conc: N.D.



#15 Picloram

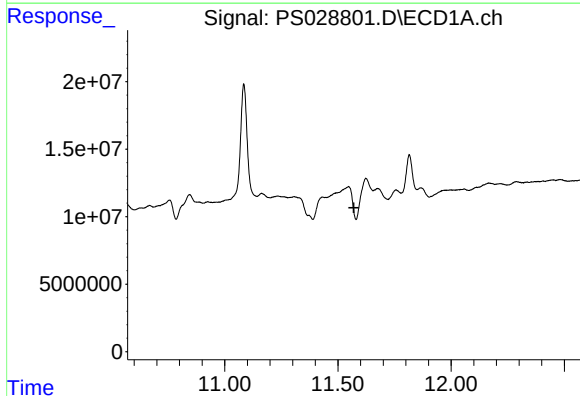
R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 430625647
Conc: 16.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-07-121224



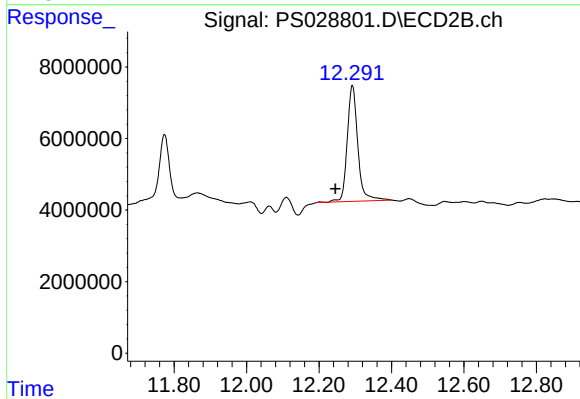
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 65635584
Conc: 5.11 ng/ml



#16 DCPA

R.T.: 0.000 min
Exp R.T. : 11.570 min
Response: 0
Conc: N.D.



#16 DCPA

R.T.: 12.292 min
Delta R.T.: 0.047 min
Response: 65635584
Conc: 6.11 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028802.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 17:22
 Operator : AR\AJ
 Sample : P5306-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-08-121224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 24 01:55:16 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.206	7.696	896.6E6	368.1E6	396.391	327.071
Target Compounds							
2) T	3,5-DICHL...	6.366	0.000	5534710	0	1.680	N.D. #
3) T	4-Nitroph...	7.013	7.237	56768392	4093204	37.794	4.891 #
5) T	DICAMBA	7.409	7.909	4610072	12512407	<MDL	2.279 #
6) T	MCP	7.560	8.017	297366	8610568	<MDL	2.635 #
7) T	MCPA	7.746	8.214f	89284955	18495492	10.186	3.992 #
8) T	DICHLORPROP	8.106	8.575f	25178213	38888299	9.490	28.187 #
9) T	2,4-D	8.339	0.000	22268502	0	7.815	N.D. #
10) T	Pentachlo...	8.616	9.460	2915288	5663135	<MDL	<MDL #
11) T	2,4,5-TP ...	9.223	9.799f	-5256848	40657593	N.D.	4.526
12) T	2,4,5-T	9.473	10.284	50060806	68547338	3.077	7.871 #
13) T	2,4-DB	10.044f	10.873f	266.6E6	-647411	85.396	N.D. #
14) T	DINOSEB	11.279	11.210	127.4E6	28071768	9.476	4.558 #
15) T	Picloram	11.082	12.286	195.4E6	7846426	7.289	<MDL #
16) T	DCPA	11.535f	12.286f	24894079	7846426	1.035	<MDL #

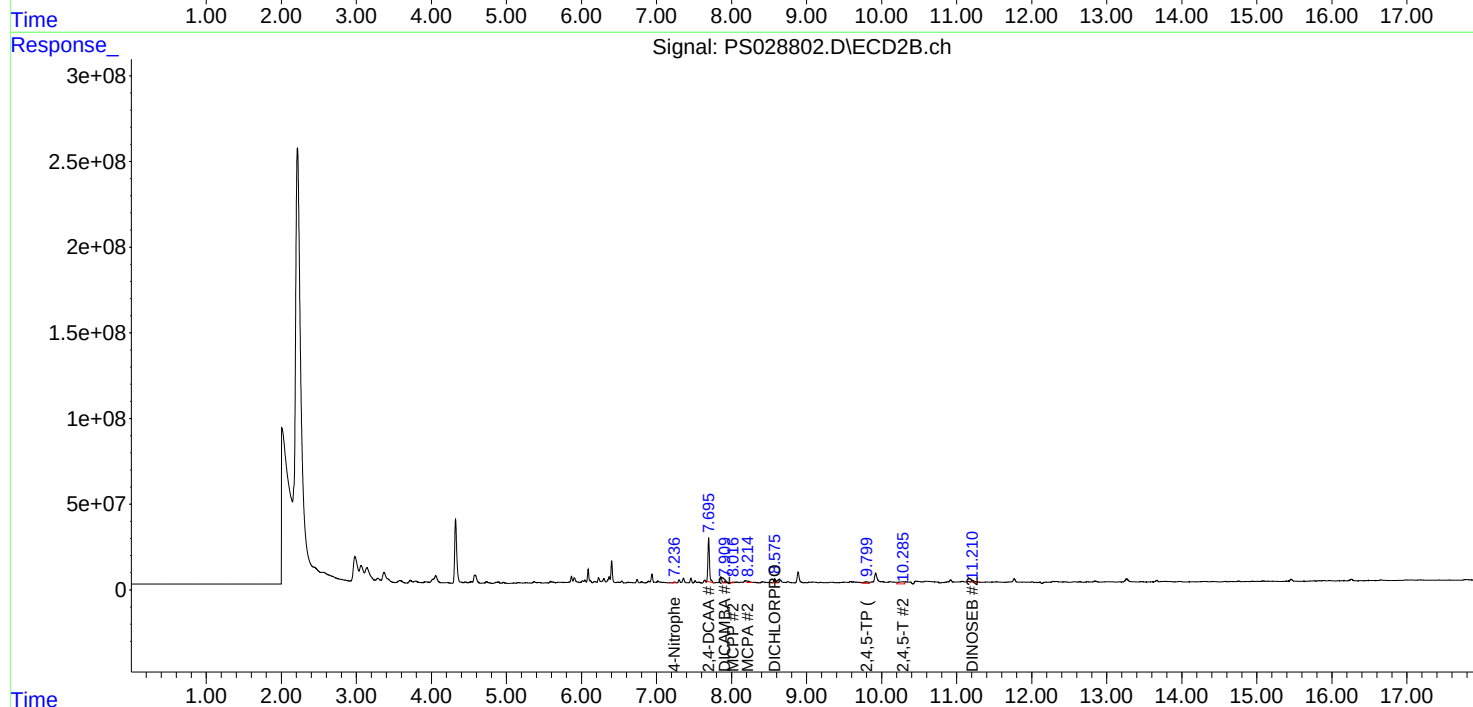
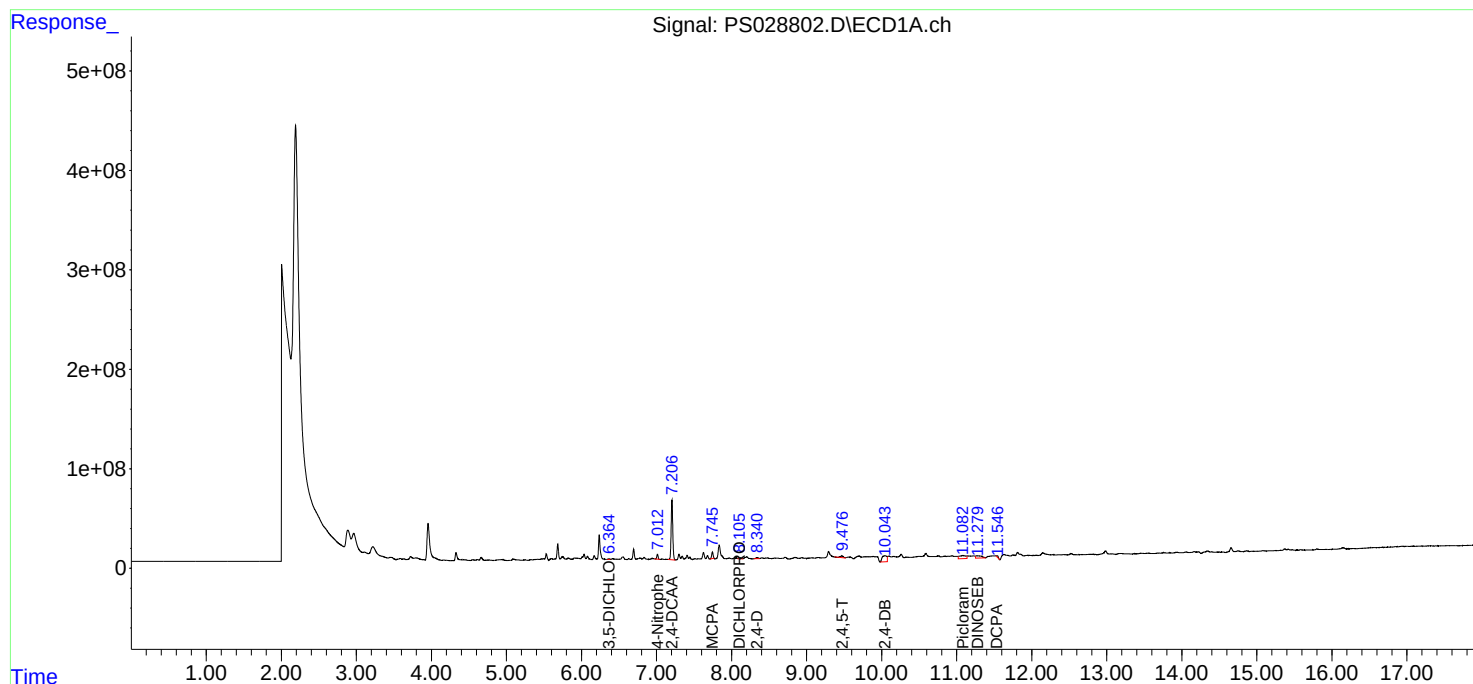
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

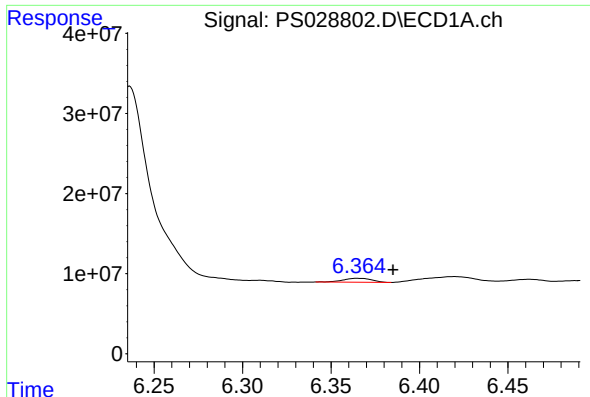
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028802.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 17:22
Operator : AR\AJ
Sample : P5306-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

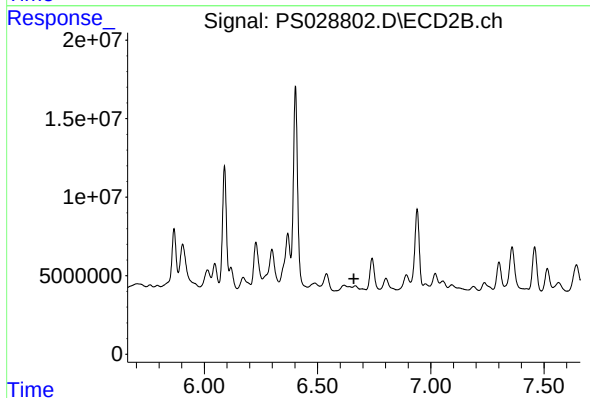




#2 3,5-DICHLOROBENZOIC ACID

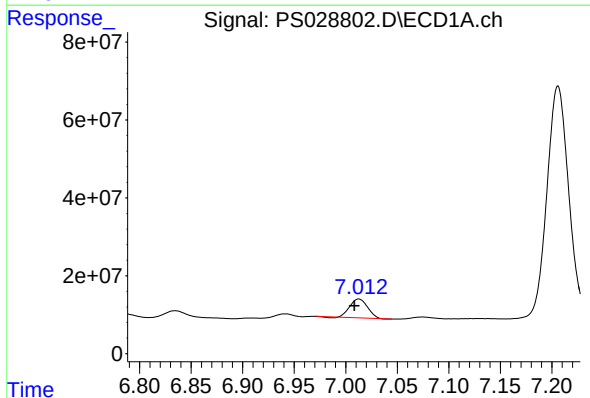
R.T.: 6.366 min
Delta R.T.: -0.020 min
Response: 5534710
Conc: 1.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224



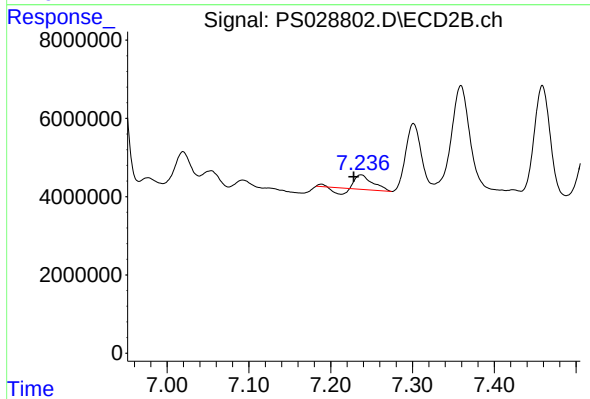
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 0.000 min
Exp R.T.: 6.661 min
Response: 0
Conc: N.D.



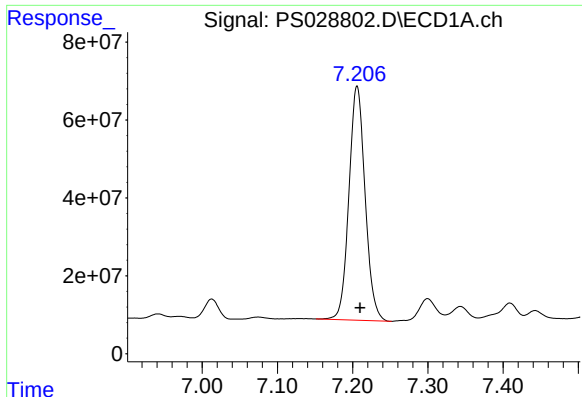
#3 4-Nitrophenol

R.T.: 7.013 min
Delta R.T.: 0.004 min
Response: 56768392
Conc: 37.79 ng/ml



#3 4-Nitrophenol

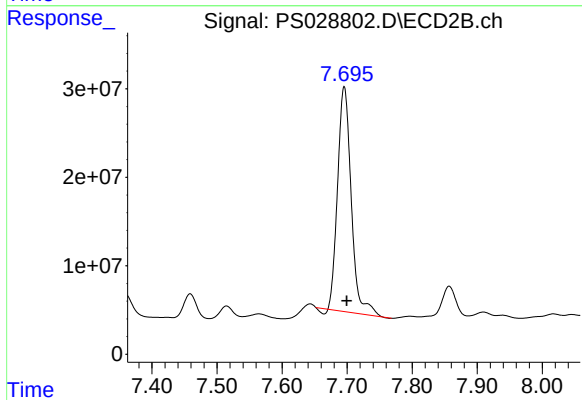
R.T.: 7.237 min
Delta R.T.: 0.009 min
Response: 4093204
Conc: 4.89 ng/ml



#4 2,4-DCAA

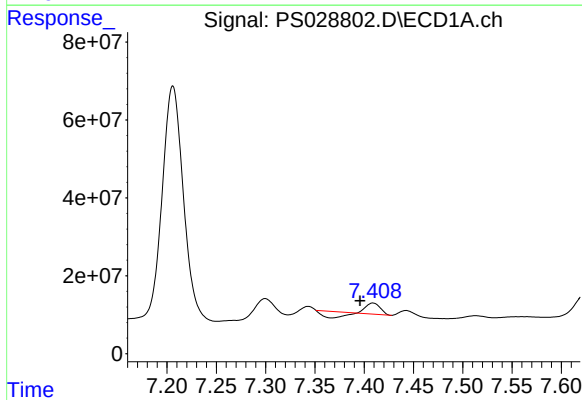
R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 896646153
Conc: 396.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224



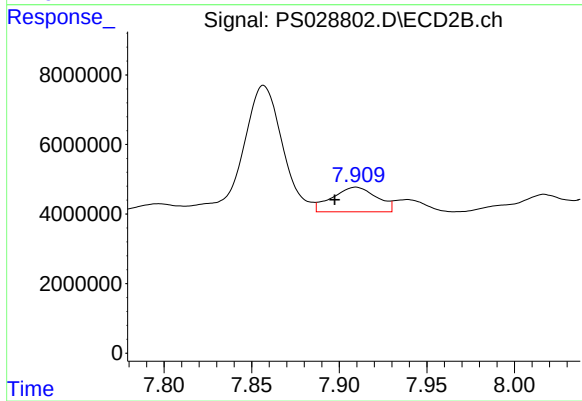
#4 2,4-DCAA

R.T.: 7.696 min
Delta R.T.: -0.004 min
Response: 368130754
Conc: 327.07 ng/ml



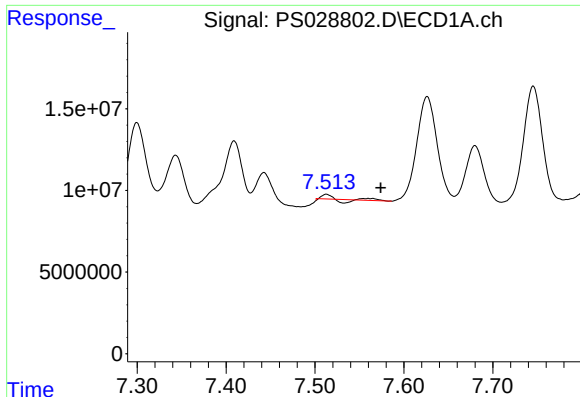
#5 DICAMBA

R.T.: 7.409 min
Delta R.T.: 0.013 min
Response: 4610072
Conc: N.D.



#5 DICAMBA

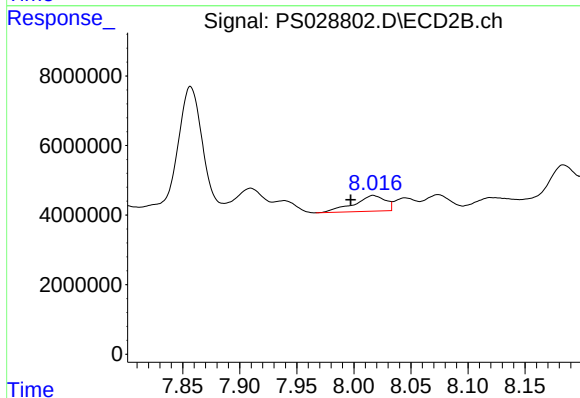
R.T.: 7.909 min
Delta R.T.: 0.012 min
Response: 12512407
Conc: 2.28 ng/ml



#6 MCPP

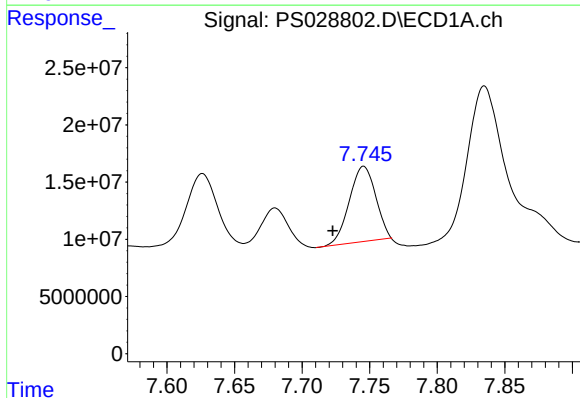
R.T.: 7.560 min
Delta R.T.: -0.014 min
Response: 297366
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224



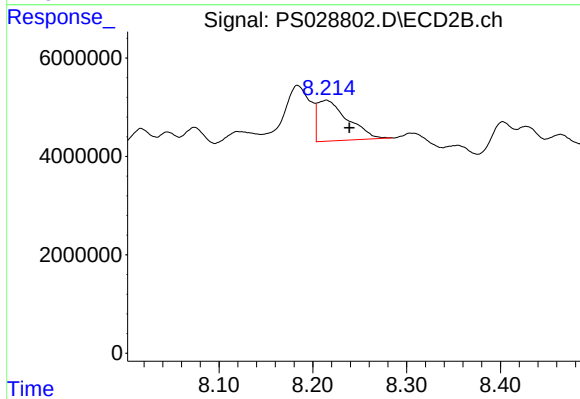
#6 MCPP

R.T.: 8.017 min
Delta R.T.: 0.020 min
Response: 8610568
Conc: 2.63 ug/ml



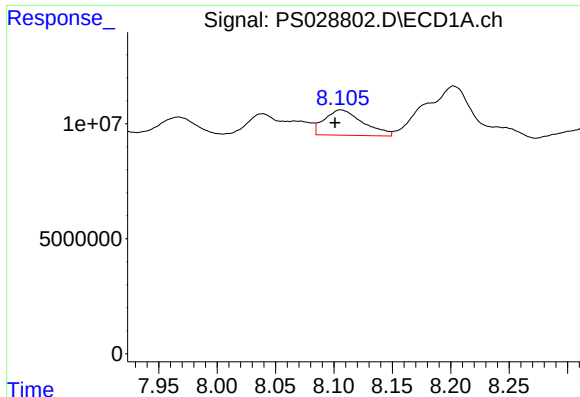
#7 MCPA

R.T.: 7.746 min
Delta R.T.: 0.023 min
Response: 89284955
Conc: 10.19 ug/ml



#7 MCPA

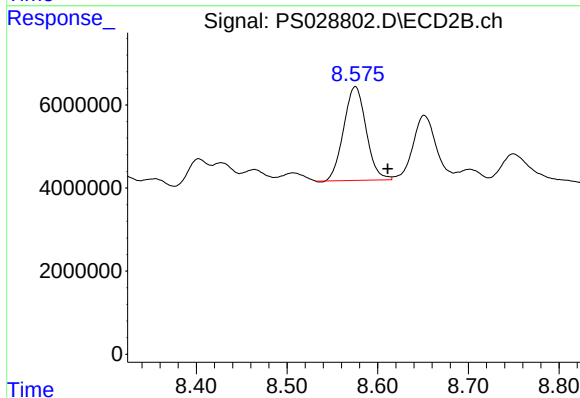
R.T.: 8.214 min
Delta R.T.: -0.025 min
Response: 18495492
Conc: 3.99 ug/ml



#8 DICHLORPROP

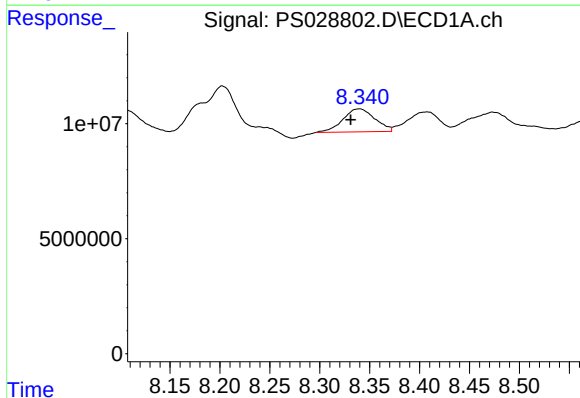
R.T.: 8.106 min
Delta R.T.: 0.005 min
Response: 25178213
Conc: 9.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224



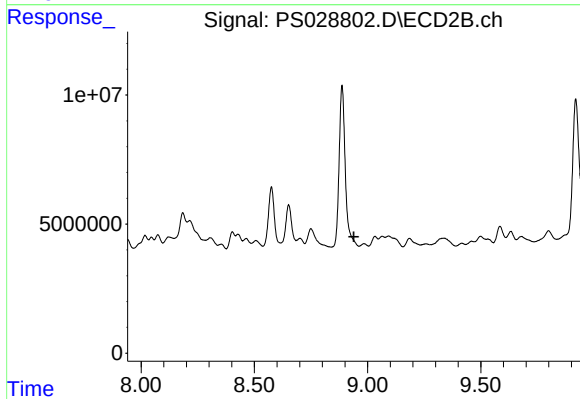
#8 DICHLORPROP

R.T.: 8.575 min
Delta R.T.: -0.036 min
Response: 38888299
Conc: 28.19 ng/ml



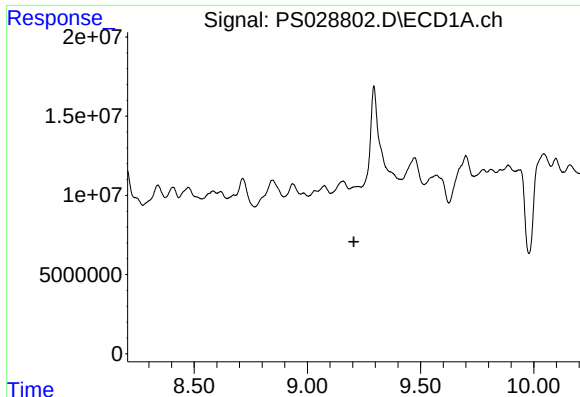
#9 2,4-D

R.T.: 8.339 min
Delta R.T.: 0.008 min
Response: 22268502
Conc: 7.81 ng/ml



#9 2,4-D

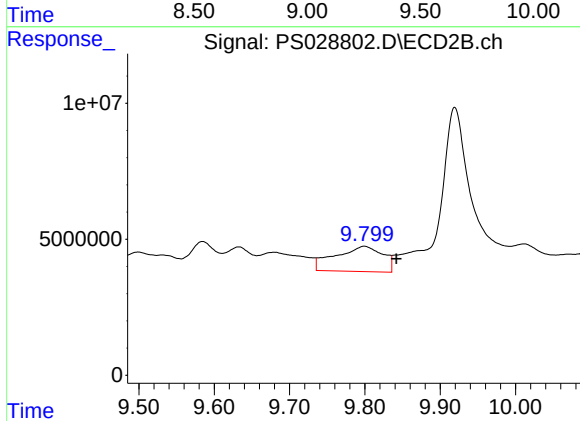
R.T.: 0.000 min
Exp R.T.: 8.939 min
Response: 0
Conc: N.D.



#11 2,4,5-TP (SILVEX)

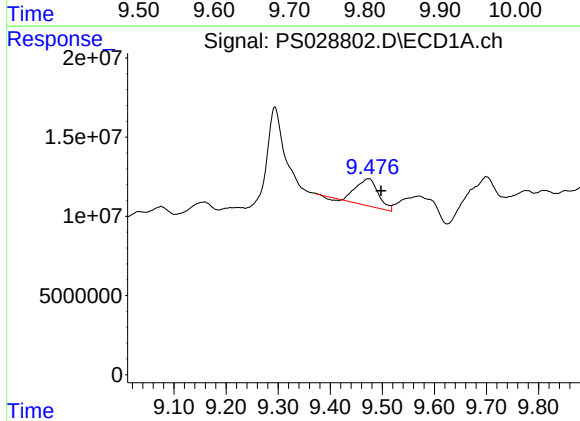
R.T.: 9.223 min
Delta R.T.: 0.018 min
Response: -5256848
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224



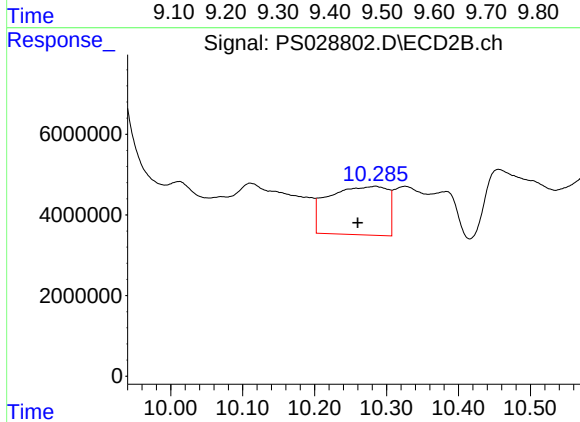
#11 2,4,5-TP (SILVEX)

R.T.: 9.799 min
Delta R.T.: -0.043 min
Response: 40657593
Conc: 4.53 ng/ml



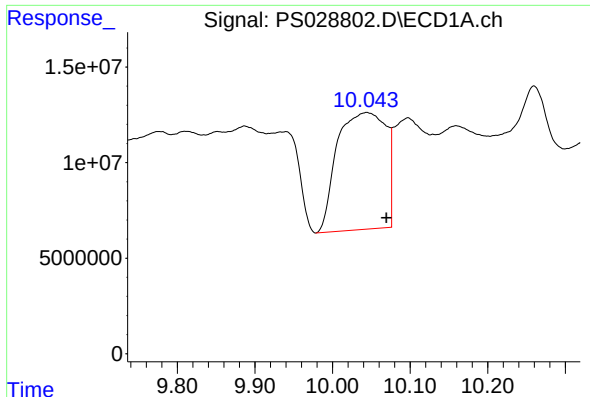
#12 2,4,5-T

R.T.: 9.473 min
Delta R.T.: -0.024 min
Response: 50060806
Conc: 3.08 ng/ml



#12 2,4,5-T

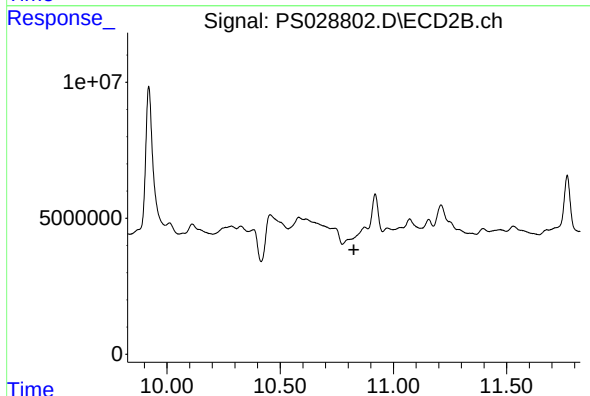
R.T.: 10.284 min
Delta R.T.: 0.024 min
Response: 68547338
Conc: 7.87 ng/ml



#13 2,4-DB

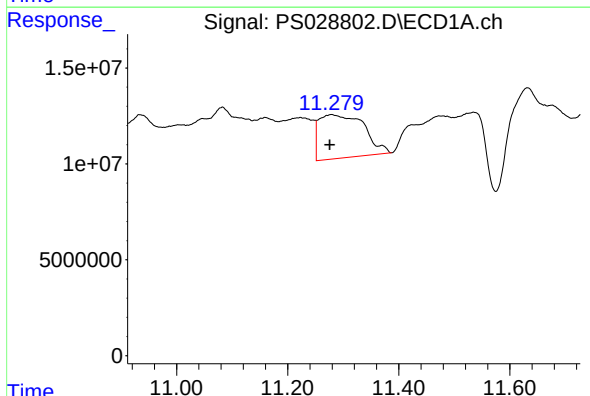
R.T.: 10.044 min
Delta R.T.: -0.025 min
Response: 266571095
Conc: 85.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224



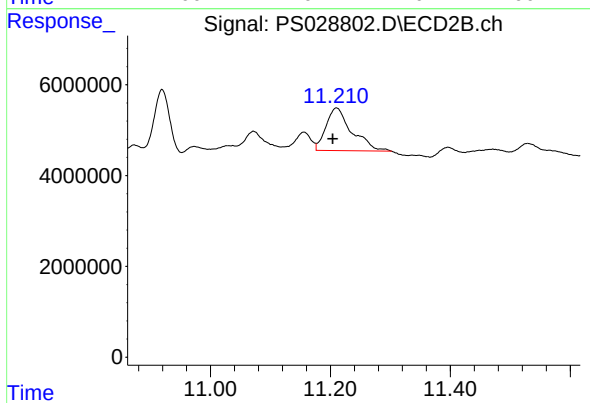
#13 2,4-DB

R.T.: 10.873 min
Delta R.T.: 0.047 min
Response: -647411
Conc: N.D.



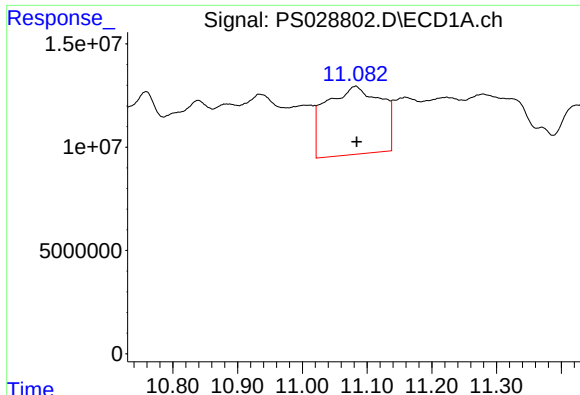
#14 DINOSEB

R.T.: 11.279 min
Delta R.T.: 0.003 min
Response: 127367488
Conc: 9.48 ng/ml



#14 DINOSEB

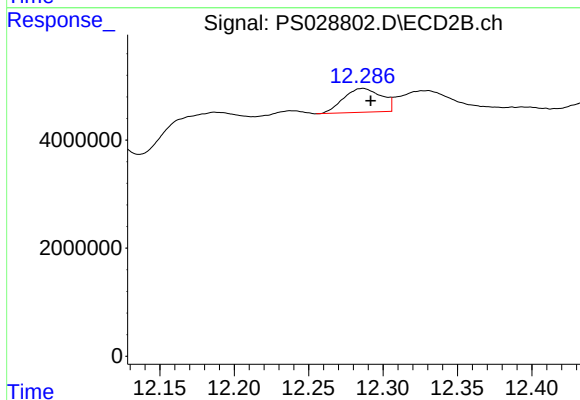
R.T.: 11.210 min
Delta R.T.: 0.006 min
Response: 28071768
Conc: 4.56 ng/ml



#15 Picloram

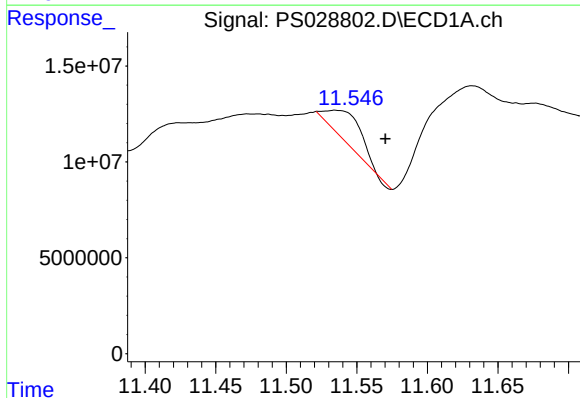
R.T.: 11.082 min
Delta R.T.: -0.002 min
Response: 195443546
Conc: 7.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-08-121224



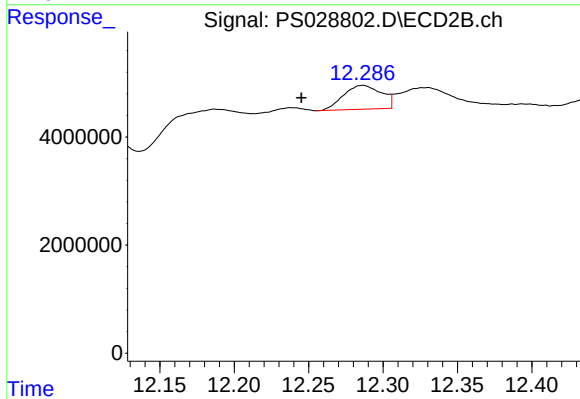
#15 Picloram

R.T.: 12.286 min
Delta R.T.: -0.005 min
Response: 7846426
Conc: N.D.



#16 DCPA

R.T.: 11.535 min
Delta R.T.: -0.035 min
Response: 24894079
Conc: 1.04 ng/ml



#16 DCPA

R.T.: 12.286 min
Delta R.T.: 0.041 min
Response: 7846426
Conc: N.D.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028803.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 17:46
Operator : AR\AJ
Sample : P5306-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.207	7.698	793.7E6	343.5E6	350.891	305.148
Target Compounds							
2) T	3,5-DICHL...	6.366	0.000	7250609	0	2.200	N.D. #
3) T	4-Nitroph...	7.013	7.236	84838817	1169562	56.482	1.398 #
5) T	DICAMBA	7.389	7.908	2509147	5310502	<MDL	<MDL #
6) T	MCP	7.566	8.019	2635593	9862061	<MDL	3.018 #
7) T	MCPA	7.744	8.247	9537955	5147985	1.088	1.111
8) T	DICHLORPROP	8.106	8.579f	8354470	78353644	3.149	56.792 #
9) T	2,4-D	8.343	0.000	34462078	0	12.094	N.D. #
10) T	Pentachlo...	8.623	9.460	10065128	17159488	<MDL	<MDL #
11) T	2,4,5-TP ...	9.161f	9.872f	4536171	35473046	<MDL	3.949 #
12) T	2,4,5-T	9.504	10.236	14850962	109.5E6	<MDL	12.578 #
13) T	2,4-DB	10.047	10.849	223.4E6	2824362	71.556	2.908 #
14) T	DINOSEB	11.277	11.207	302.9E6	22538303	22.537	3.659 #
15) T	Picloram	11.082	12.292	319.6E6	3165179	11.919	<MDL #
16) T	DCPA	0.000	12.292f	0	3165179	N.D.	<MDL

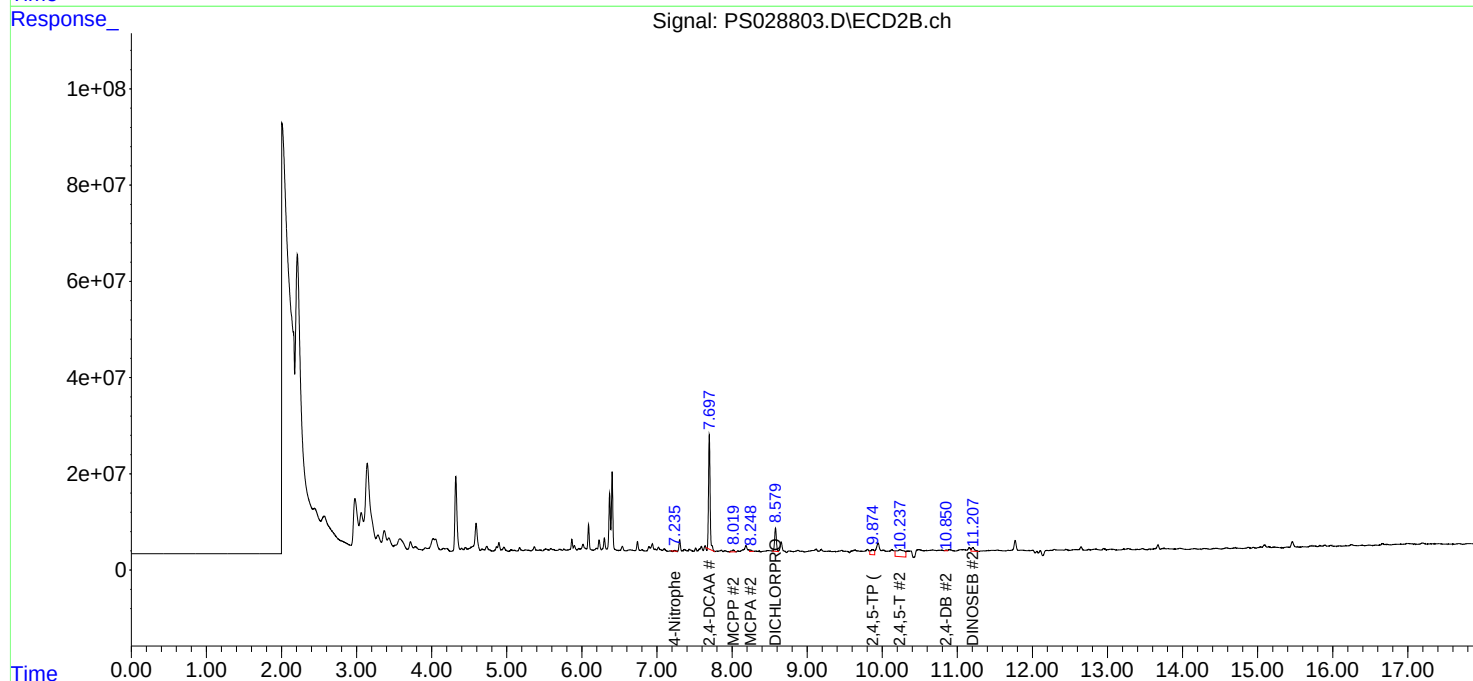
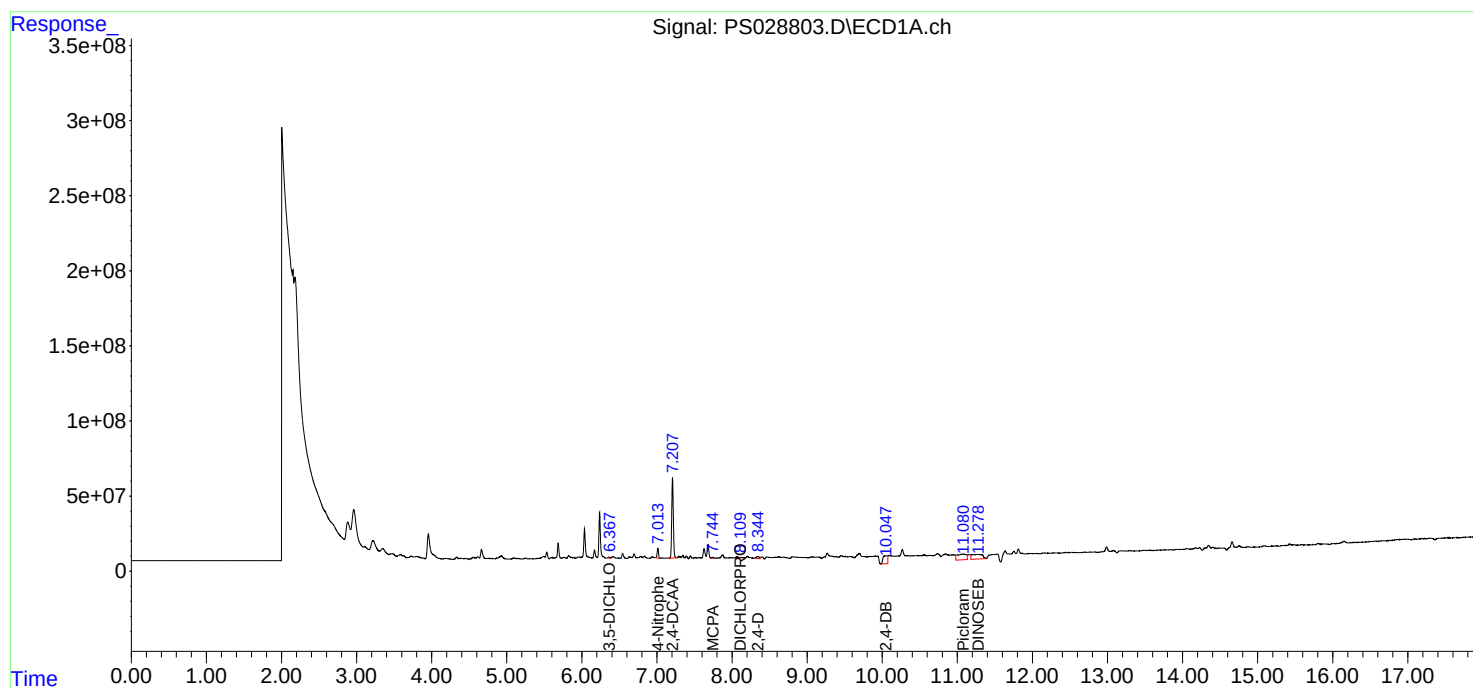
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

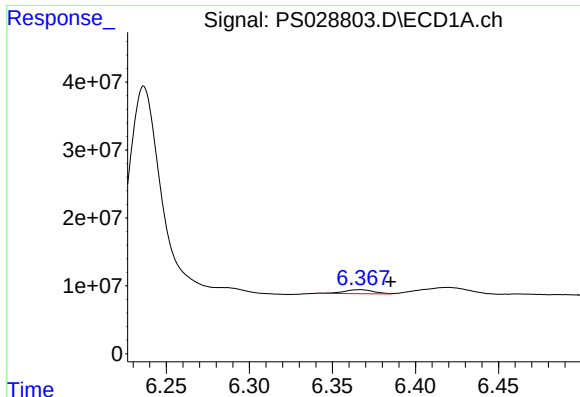
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028803.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 17:46
Operator : AR\AJ
Sample : P5306-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

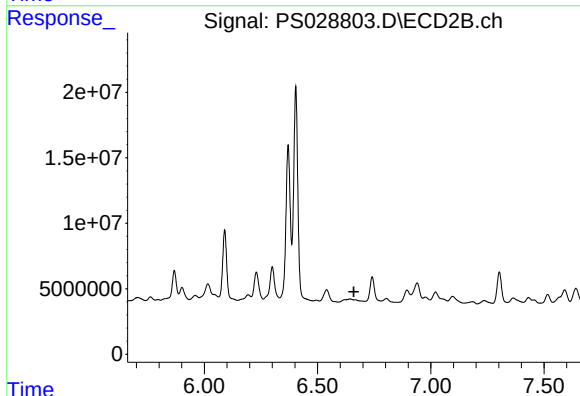




#2 3,5-DICHLOROBENZOIC ACID

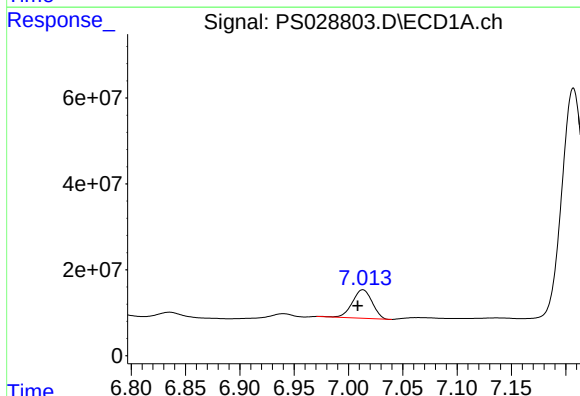
R.T.: 6.366 min
Delta R.T.: -0.019 min
Response: 7250609
Conc: 2.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224



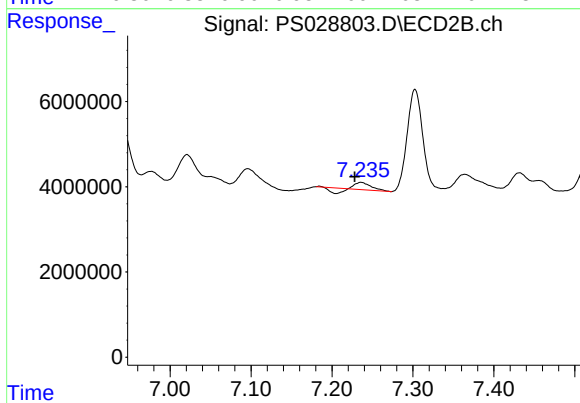
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 0.000 min
Exp R.T. : 6.661 min
Response: 0
Conc: N.D.



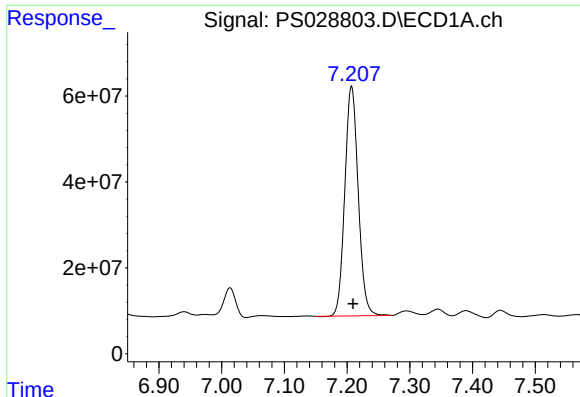
#3 4-Nitrophenol

R.T.: 7.013 min
Delta R.T.: 0.005 min
Response: 84838817
Conc: 56.48 ng/ml



#3 4-Nitrophenol

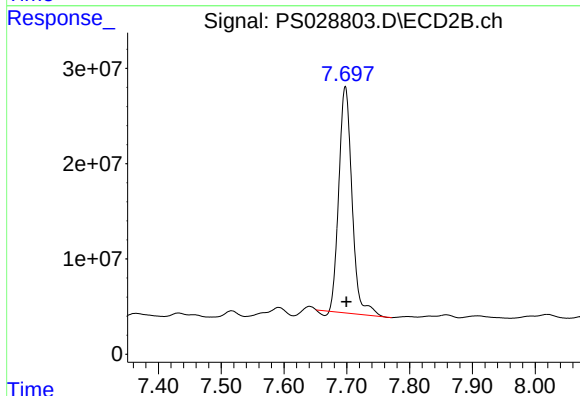
R.T.: 7.236 min
Delta R.T.: 0.008 min
Response: 1169562
Conc: 1.40 ng/ml



#4 2,4-DCAA

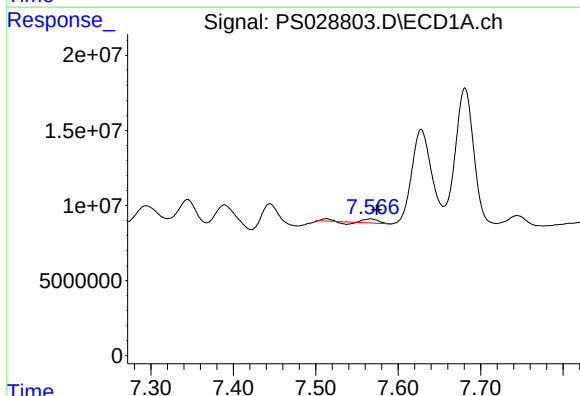
R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 793723958
Conc: 350.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224



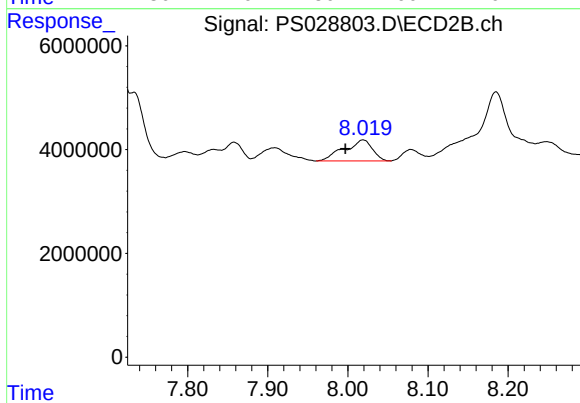
#4 2,4-DCAA

R.T.: 7.698 min
Delta R.T.: -0.002 min
Response: 343455571
Conc: 305.15 ng/ml



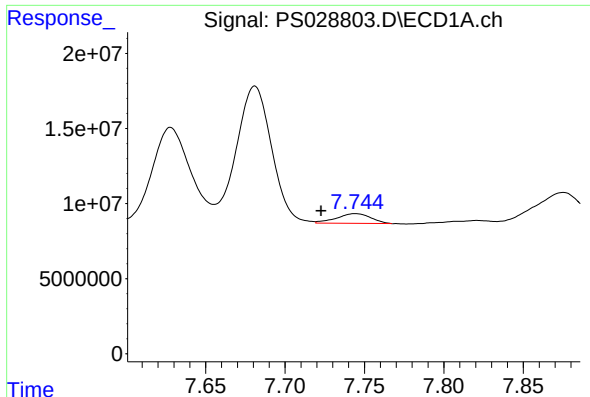
#6 MCPP

R.T.: 7.566 min
Delta R.T.: -0.008 min
Response: 2635593
Conc: N.D.



#6 MCPP

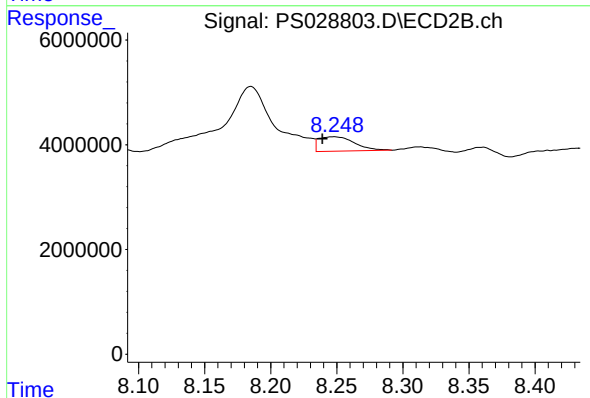
R.T.: 8.019 min
Delta R.T.: 0.022 min
Response: 9862061
Conc: 3.02 ug/ml



#7 MCPA

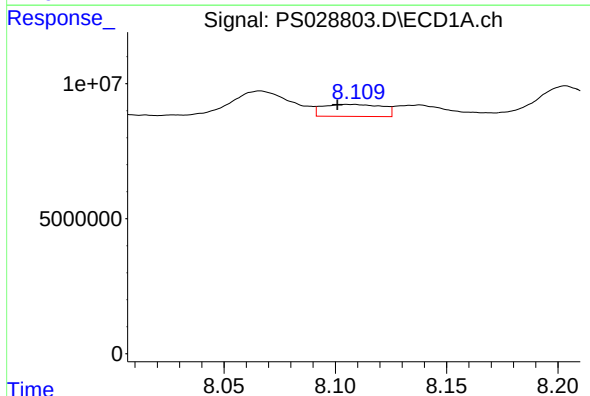
R.T.: 7.744 min
Delta R.T.: 0.022 min
Response: 9537955
Conc: 1.09 ug/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224



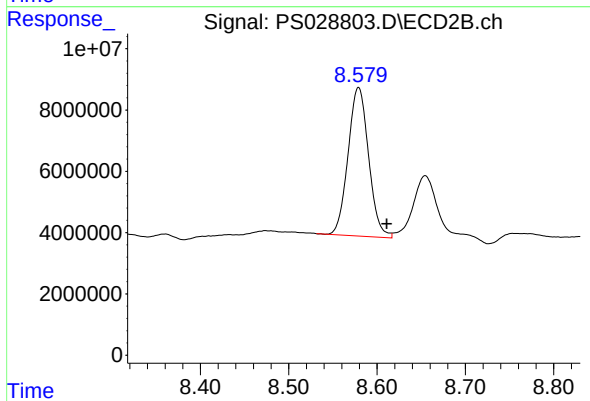
#7 MCPA

R.T.: 8.247 min
Delta R.T.: 0.008 min
Response: 5147985
Conc: 1.11 ug/ml



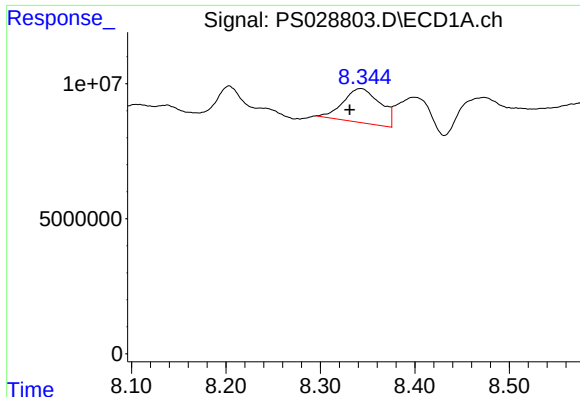
#8 DICHLORPROP

R.T.: 8.106 min
Delta R.T.: 0.005 min
Response: 8354470
Conc: 3.15 ng/ml



#8 DICHLORPROP

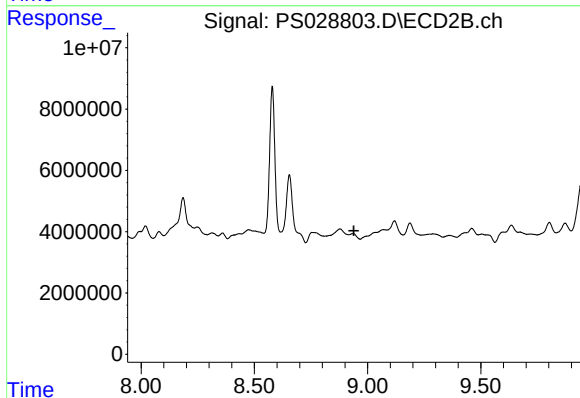
R.T.: 8.579 min
Delta R.T.: -0.032 min
Response: 78353644
Conc: 56.79 ng/ml



#9 2,4-D

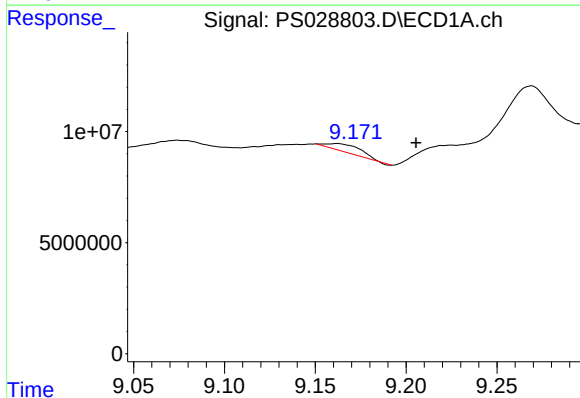
R.T.: 8.343 min
Delta R.T.: 0.011 min
Response: 34462078
Conc: 12.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224



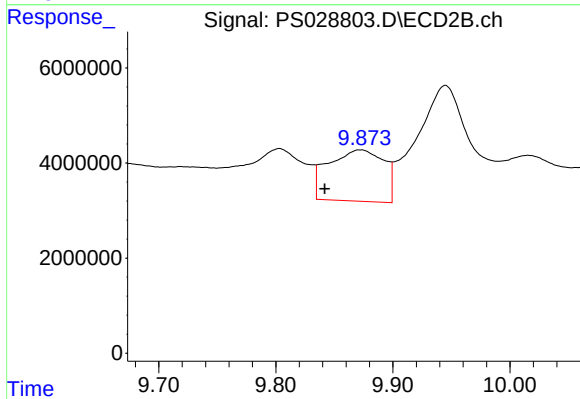
#9 2,4-D

R.T.: 0.000 min
Exp R.T. : 8.939 min
Response: 0
Conc: N.D.



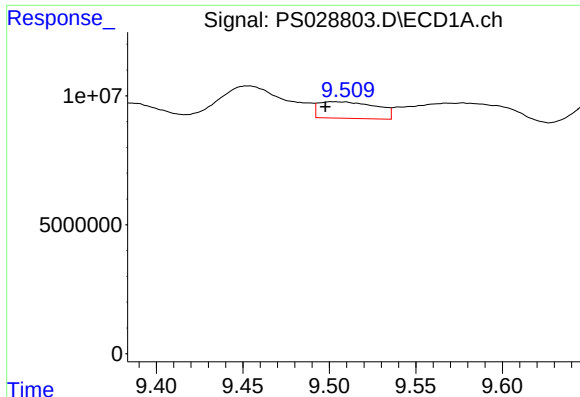
#11 2,4,5-TP (SILVEX)

R.T.: 9.161 min
Delta R.T.: -0.045 min
Response: 4536171
Conc: N.D.



#11 2,4,5-TP (SILVEX)

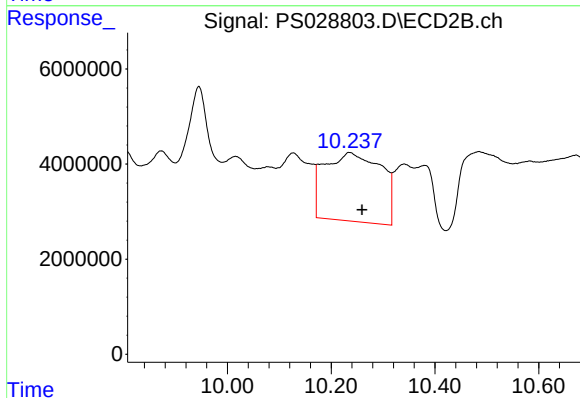
R.T.: 9.872 min
Delta R.T.: 0.031 min
Response: 35473046
Conc: 3.95 ng/ml



#12 2,4,5-T

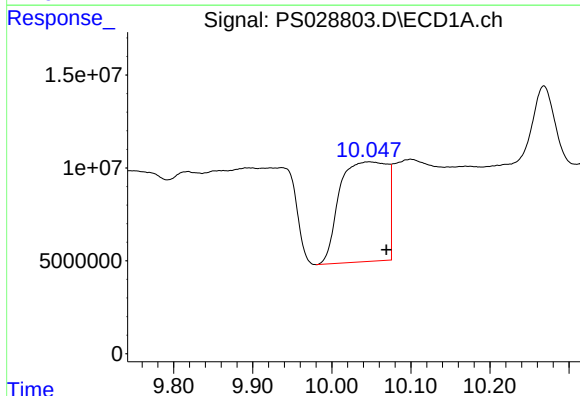
R.T.: 9.504 min
Delta R.T.: 0.006 min
Response: 14850962
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224



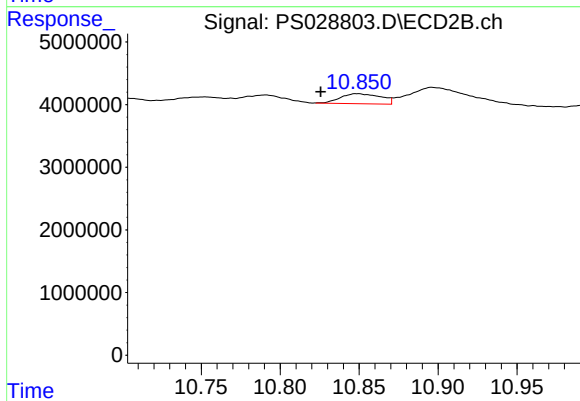
#12 2,4,5-T

R.T.: 10.236 min
Delta R.T.: -0.024 min
Response: 109544710
Conc: 12.58 ng/ml



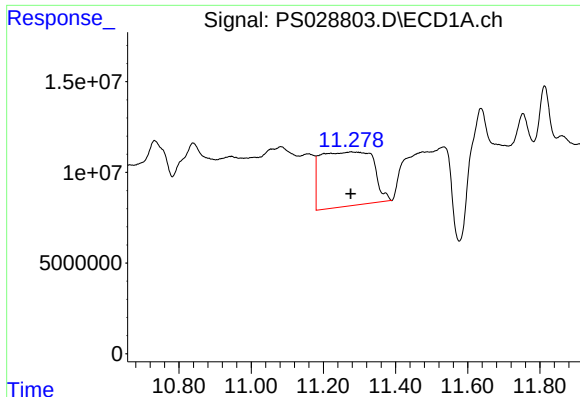
#13 2,4-DB

R.T.: 10.047 min
Delta R.T.: -0.022 min
Response: 223368443
Conc: 71.56 ng/ml



#13 2,4-DB

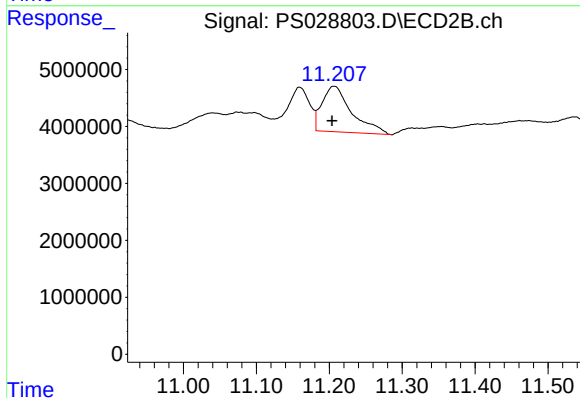
R.T.: 10.849 min
Delta R.T.: 0.024 min
Response: 2824362
Conc: 2.91 ng/ml



#14 DINoseb

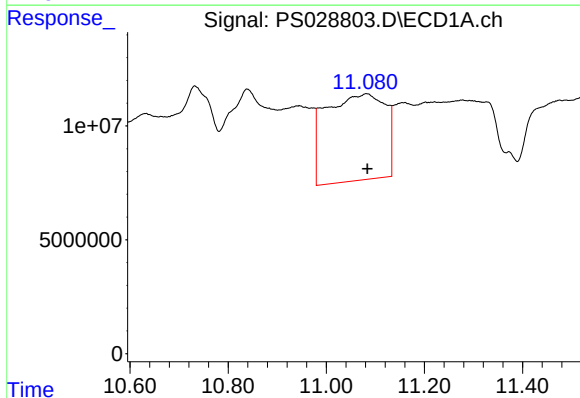
R.T.: 11.277 min
Delta R.T.: 0.000 min
Response: 302937388
Conc: 22.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-09-121224



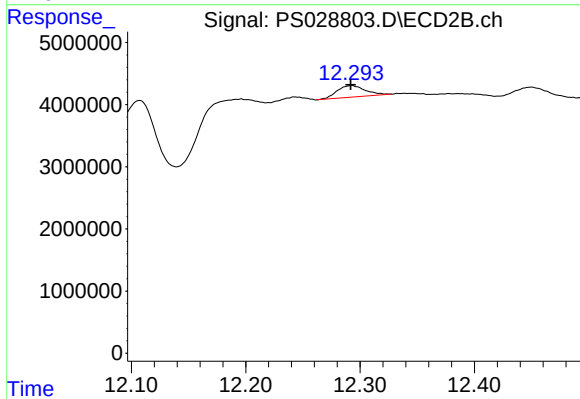
#14 DINoseb

R.T.: 11.207 min
Delta R.T.: 0.003 min
Response: 22538303
Conc: 3.66 ng/ml



#15 Picloram

R.T.: 11.082 min
Delta R.T.: -0.002 min
Response: 319581810
Conc: 11.92 ng/ml



#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 3165179
Conc: N.D.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028804.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:10
Operator : AR\AJ
Sample : P5306-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.208	7.698	703.8E6	299.6E6	311.151	266.174
Target Compounds							
2) T	3,5-DICHL...	6.367	0.000	5302236	0	1.609	N.D. #
3) T	4-Nitroph...	7.014	7.236	74210663	842770	49.406	1.007 #
5) T	DICAMBA	7.392	7.906	-5897953	4672107	N.D.	<MDL
6) T	MCP	7.569	8.020	4434059	8586074	<MDL	2.627 #
7) T	MCPA	7.745	0.000	7758377	0	<MDL	N.D. #
8) T	DICHLORPROP	8.115	8.579f	9815158	11398429	3.699	8.262 #
9) T	2,4-D	8.342	0.000	22892320	0	8.034	N.D. #
10) T	Pentachlo...	8.625	9.462	14144250	19350922	<MDL	<MDL #
11) T	2,4,5-TP ...	0.000	9.873f	0	33145572	N.D.	3.690
12) T	2,4,5-T	9.458f	10.237	45234828	109.9E6	2.780	12.623 #
13) T	2,4-DB	10.099f	0.000	380.0E6	0	121.729	N.D. #
14) T	DINOSEB	11.278	11.209	84806295	22353620	6.309	3.629 #
15) T	Picloram	11.088	12.295	185.8E6	3349484	6.931	<MDL #
16) T	DCPA	0.000	12.295f	0	3349484	N.D.	<MDL

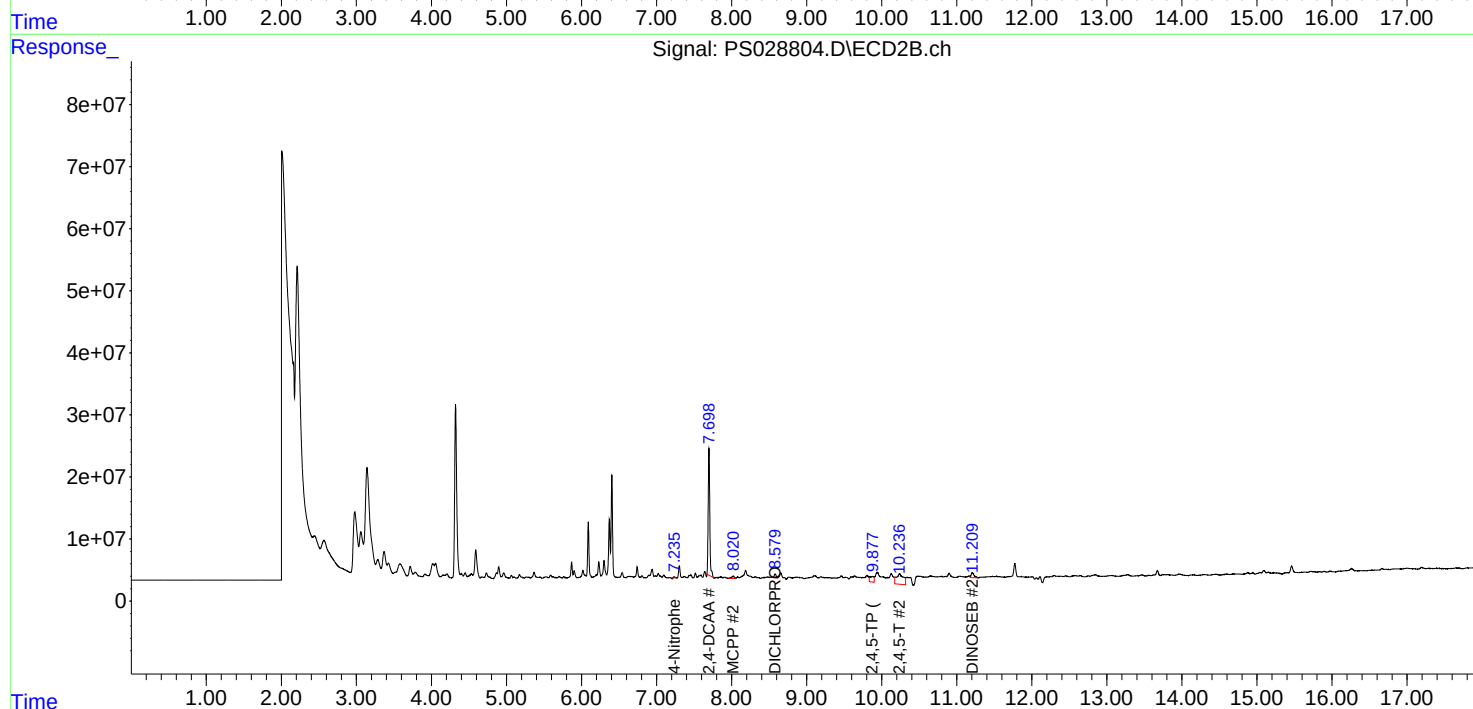
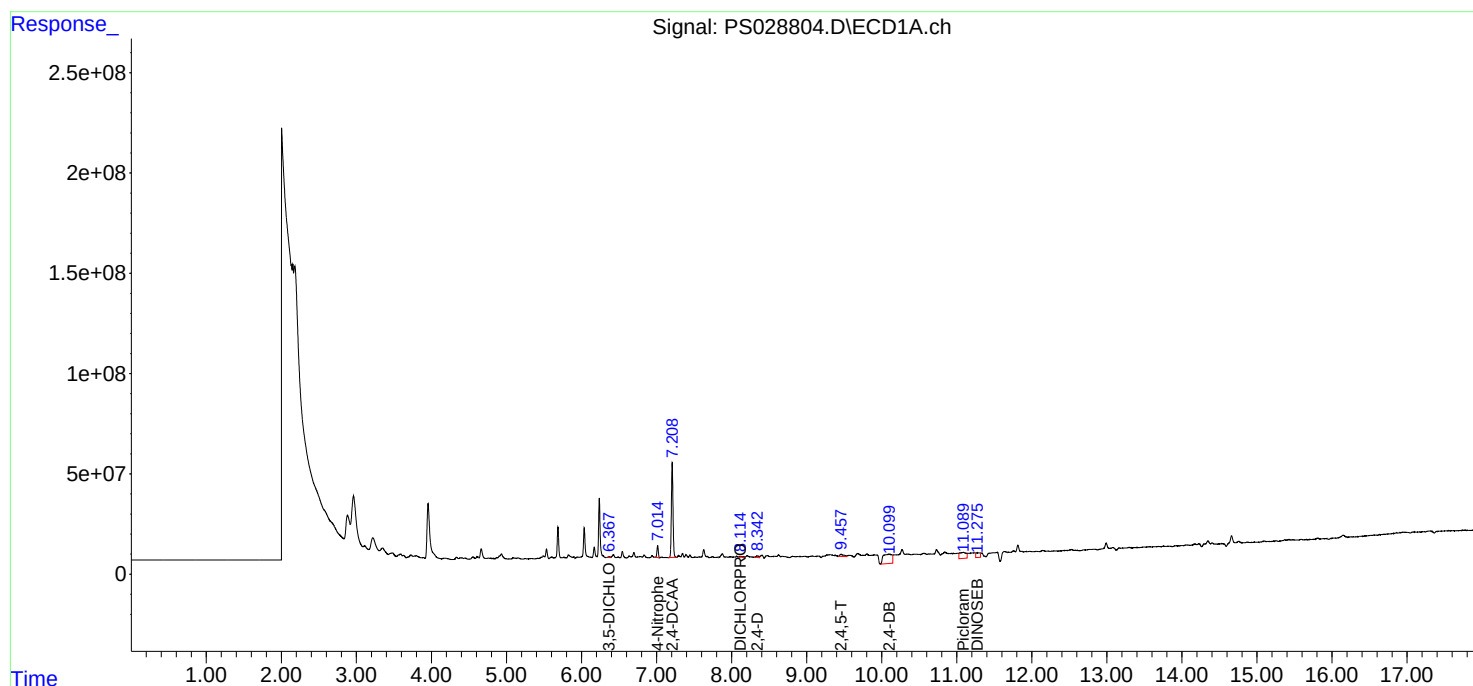
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

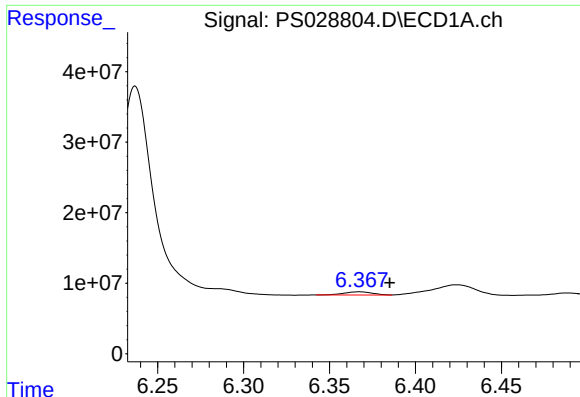
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028804.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:10
Operator : AR\AJ
Sample : P5306-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:55:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

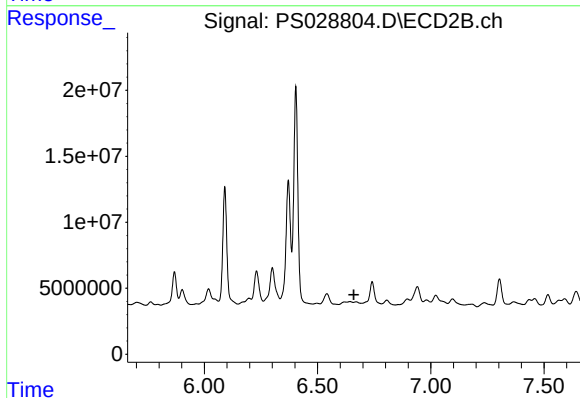




#2 3,5-DICHLOROBENZOIC ACID

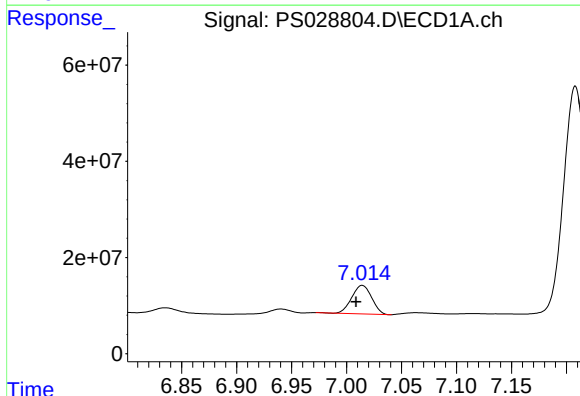
R.T.: 6.367 min
Delta R.T.: -0.018 min
Response: 5302236
Conc: 1.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224



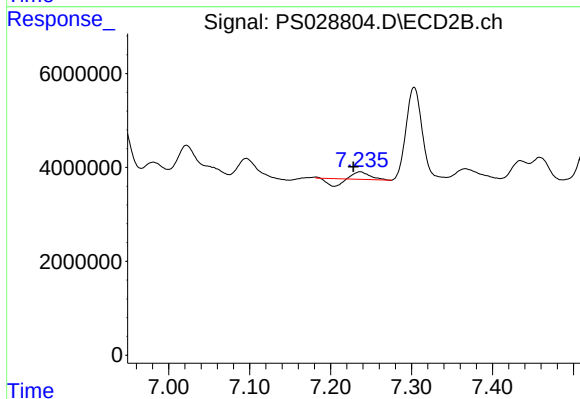
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 0.000 min
Exp R.T. : 6.661 min
Response: 0
Conc: N.D.



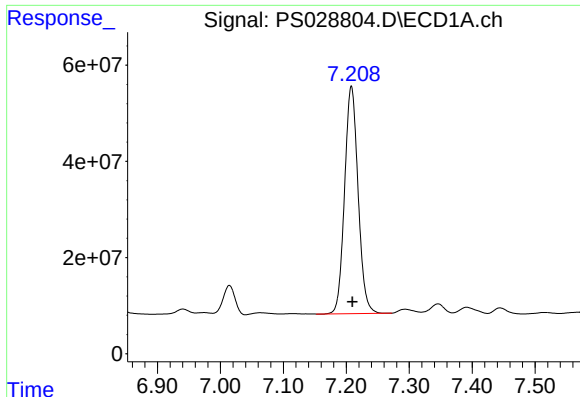
#3 4-Nitrophenol

R.T.: 7.014 min
Delta R.T.: 0.006 min
Response: 74210663
Conc: 49.41 ng/ml



#3 4-Nitrophenol

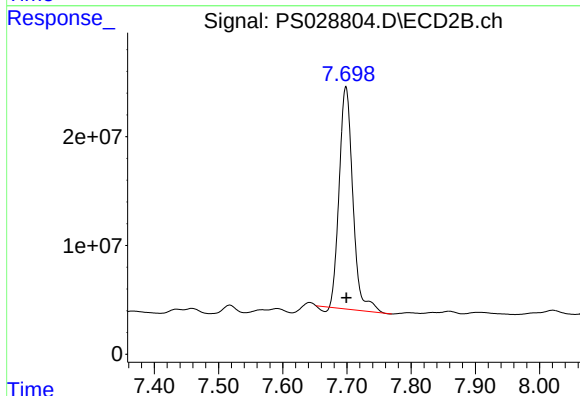
R.T.: 7.236 min
Delta R.T.: 0.008 min
Response: 842770
Conc: 1.01 ng/ml



#4 2,4-DCAA

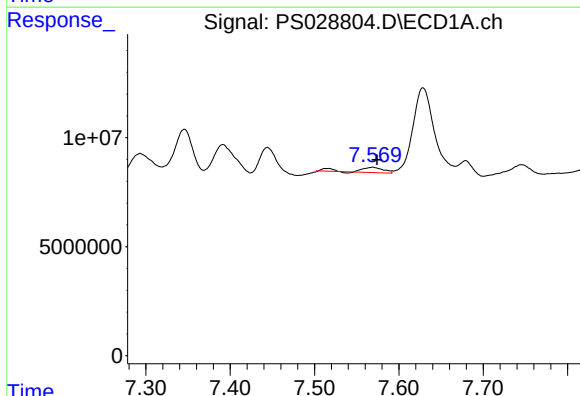
R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 703832292
Conc: 311.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224



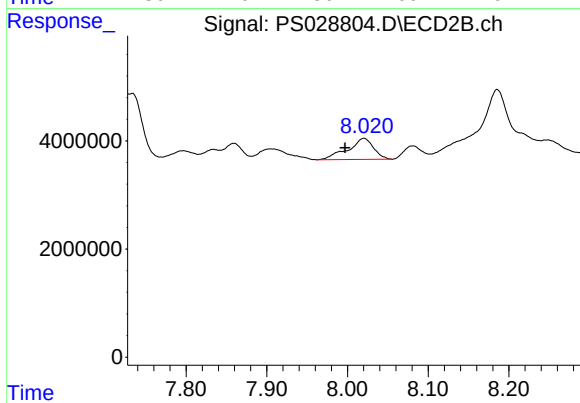
#4 2,4-DCAA

R.T.: 7.698 min
Delta R.T.: -0.001 min
Response: 299589055
Conc: 266.17 ng/ml



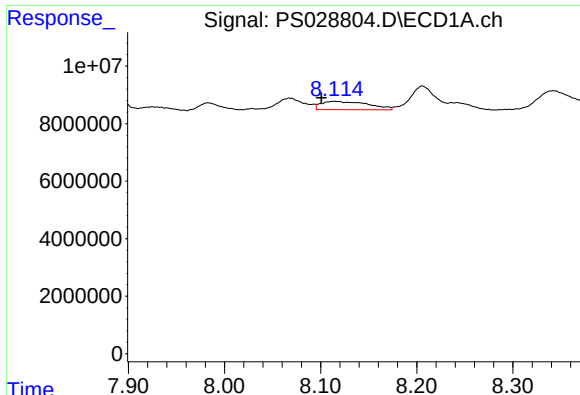
#6 MCP

R.T.: 7.569 min
Delta R.T.: -0.005 min
Response: 4434059
Conc: N.D.



#6 MCP

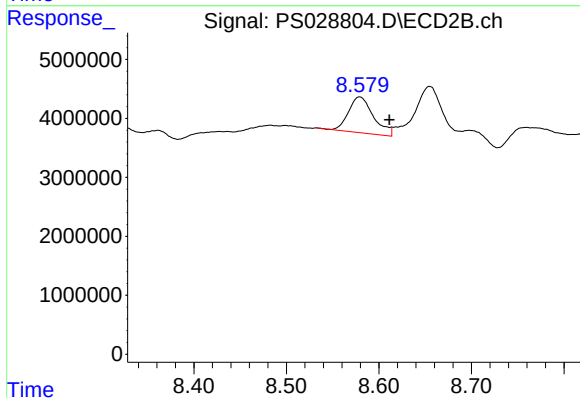
R.T.: 8.020 min
Delta R.T.: 0.023 min
Response: 8586074
Conc: 2.63 ug/ml



#8 DICHLORPROP

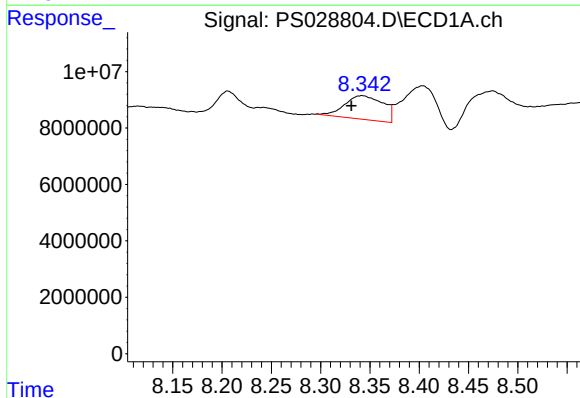
R.T.: 8.115 min
Delta R.T.: 0.014 min
Response: 9815158
Conc: 3.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224



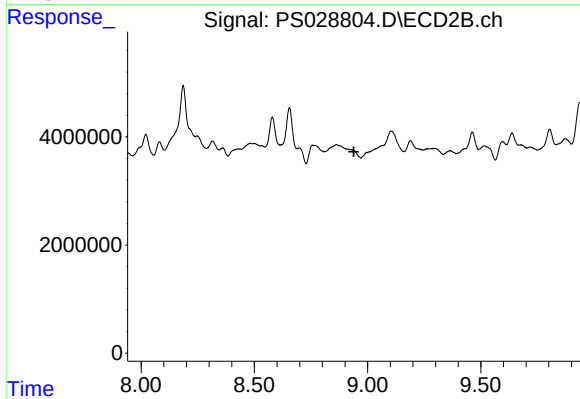
#8 DICHLORPROP

R.T.: 8.579 min
Delta R.T.: -0.032 min
Response: 11398429
Conc: 8.26 ng/ml



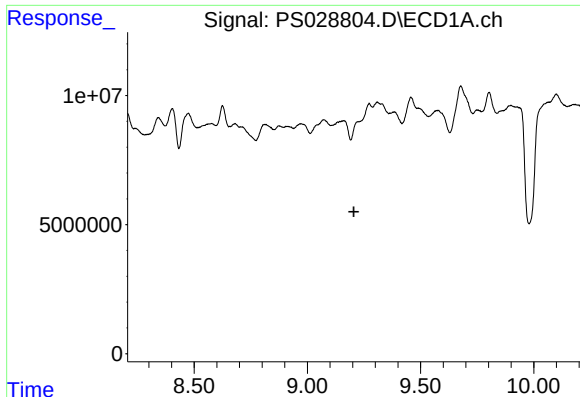
#9 2,4-D

R.T.: 8.342 min
Delta R.T.: 0.011 min
Response: 22892320
Conc: 8.03 ng/ml



#9 2,4-D

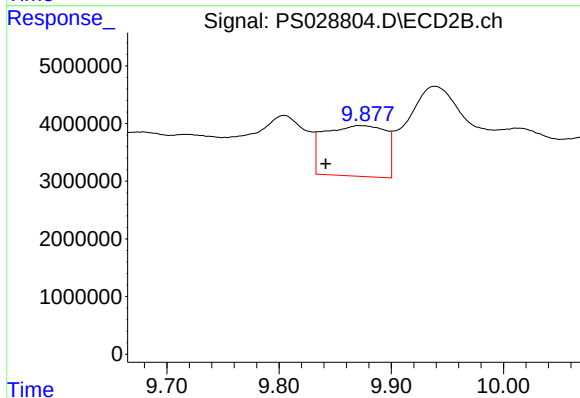
R.T.: 0.000 min
Exp R.T.: 8.939 min
Response: 0
Conc: N.D.



#11 2,4,5-TP (SILVEX)

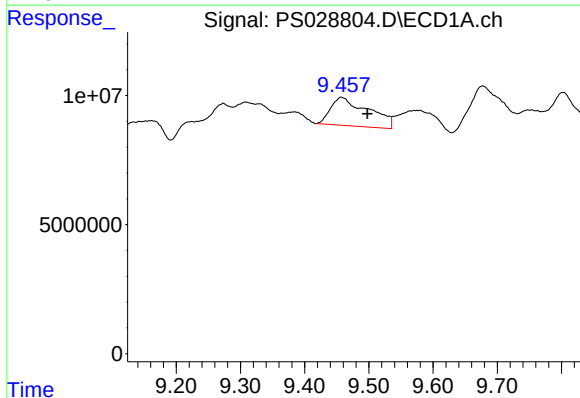
R.T.: 0.000 min
Exp R.T.: 9.205 min
Response: 0
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224



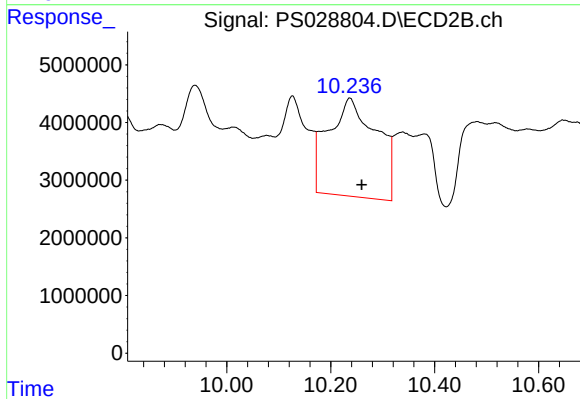
#11 2,4,5-TP (SILVEX)

R.T.: 9.873 min
Delta R.T.: 0.031 min
Response: 33145572
Conc: 3.69 ng/ml



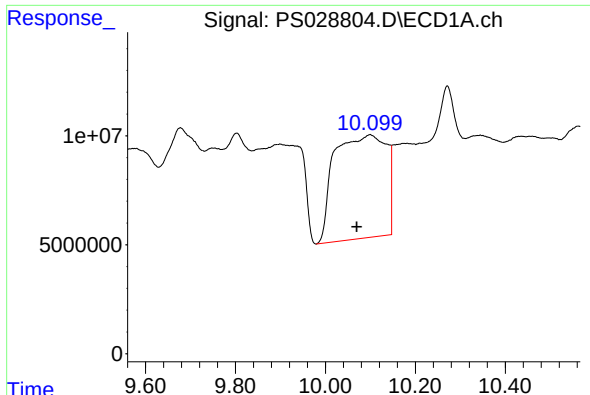
#12 2,4,5-T

R.T.: 9.458 min
Delta R.T.: -0.040 min
Response: 45234828
Conc: 2.78 ng/ml



#12 2,4,5-T

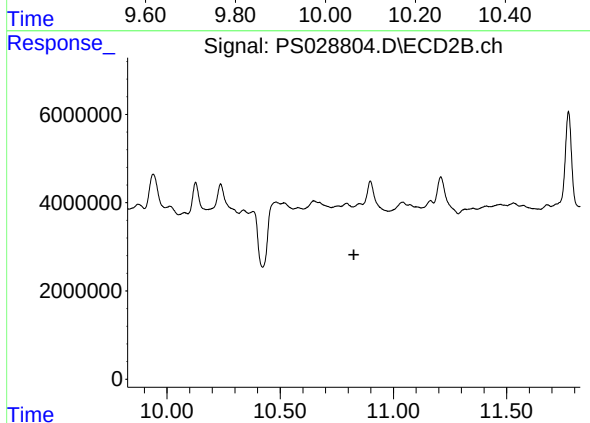
R.T.: 10.237 min
Delta R.T.: -0.023 min
Response: 109939192
Conc: 12.62 ng/ml



#13 2,4-DB

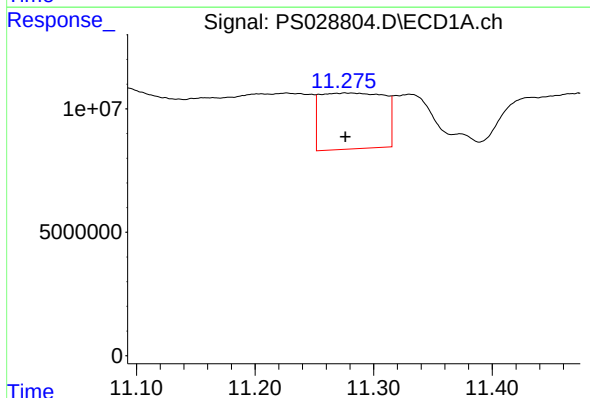
R.T.: 10.099 min
Delta R.T.: 0.030 min
Response: 379987762
Conc: 121.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224



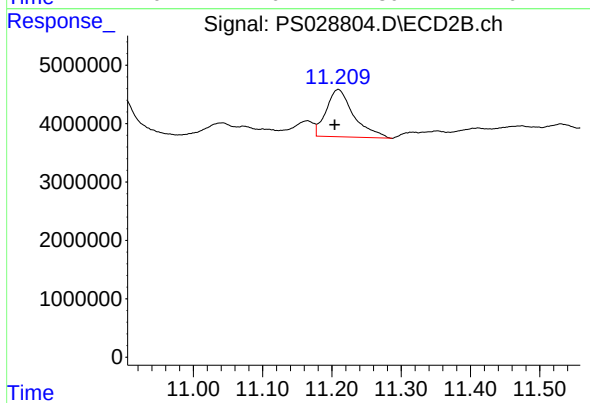
#13 2,4-DB

R.T.: 0.000 min
Exp R.T.: 10.826 min
Response: 0
Conc: N.D.



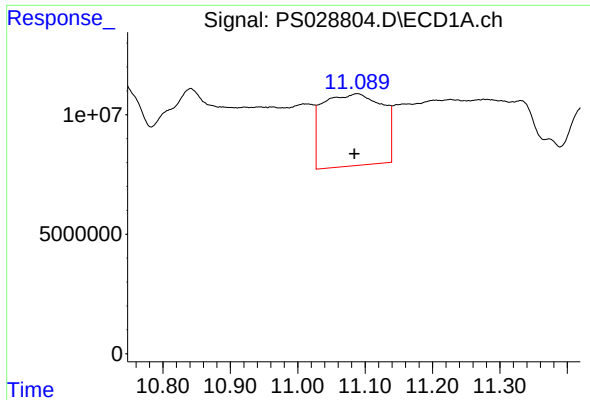
#14 DINOSEB

R.T.: 11.278 min
Delta R.T.: 0.002 min
Response: 84806295
Conc: 6.31 ng/ml



#14 DINOSEB

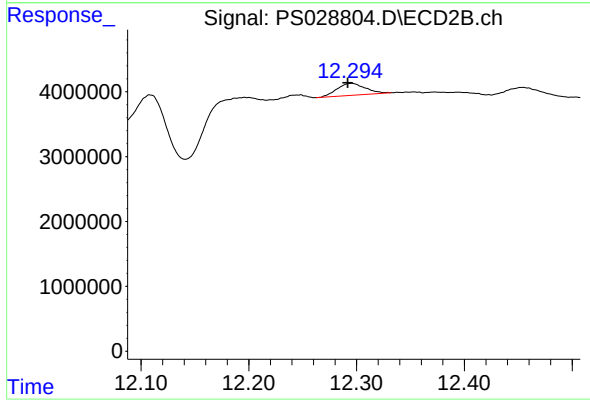
R.T.: 11.209 min
Delta R.T.: 0.005 min
Response: 22353620
Conc: 3.63 ng/ml



#15 Picloram

R.T.: 11.088 min
Delta R.T.: 0.004 min
Response: 185842048
Conc: 6.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-10-121224



#15 Picloram

R.T.: 12.295 min
Delta R.T.: 0.003 min
Response: 3349484
Conc: N.D.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028805.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 18:33
 Operator : AR\AJ
 Sample : P5306-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-11-121224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 24 01:56:15 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.206	7.695	891.1E6	377.6E6	393.938	335.510
Target Compounds							
2) T	3,5-DICHL...	6.367	0.000	5623295	0	1.707	N.D. #
3) T	4-Nitroph...	7.013	7.255f	66715756	-1878871	44.416	N.D. #
6) T	MCP	7.565	8.017	3607762	7454821	<MDL	2.281 #
7) T	MCPA	7.744	0.000	14632419	0	1.669	N.D. #
8) T	DICHLORPROP	8.108	8.576f	13703829	15201720	5.165	11.018 #
9) T	2,4-D	8.336	0.000	36388543	0	12.770	N.D. #
10) T	Pentachlo...	8.621	9.460	4375536	11964569	<MDL	<MDL #
11) T	2,4,5-TP ...	9.225	9.866	-12700190	34223510	N.D.	3.810
12) T	2,4,5-T	9.536f	10.281	38083264	80461066	2.341	9.239 #
13) T	2,4-DB	10.095f	0.000	418.1E6	0	133.924	N.D. #
14) T	DINOSEB	11.263	11.207	161.0E6	29796577	11.981	4.838 #
15) T	Picloram	11.085	12.290	251.3E6	3877383	9.372	<MDL #
16) T	DCPA	0.000	12.290f	0	3877383	N.D.	<MDL

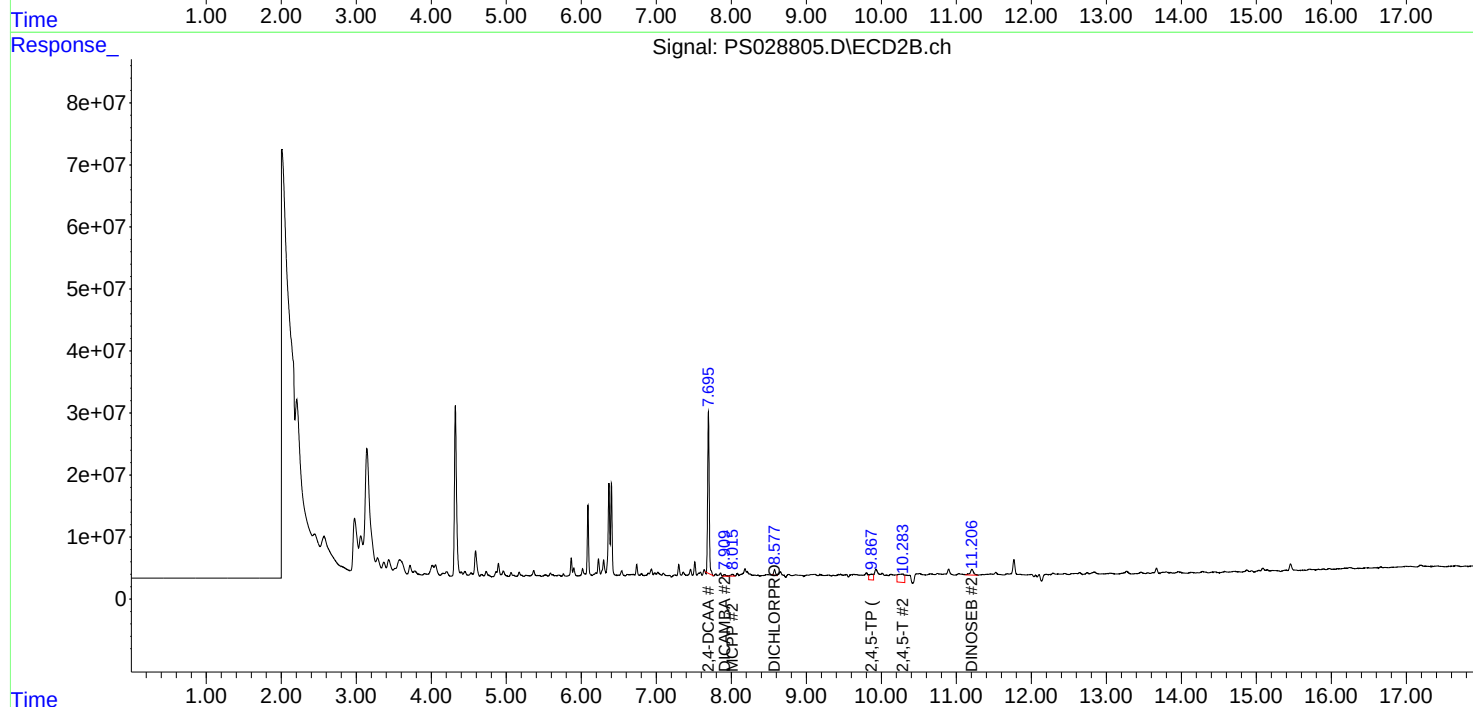
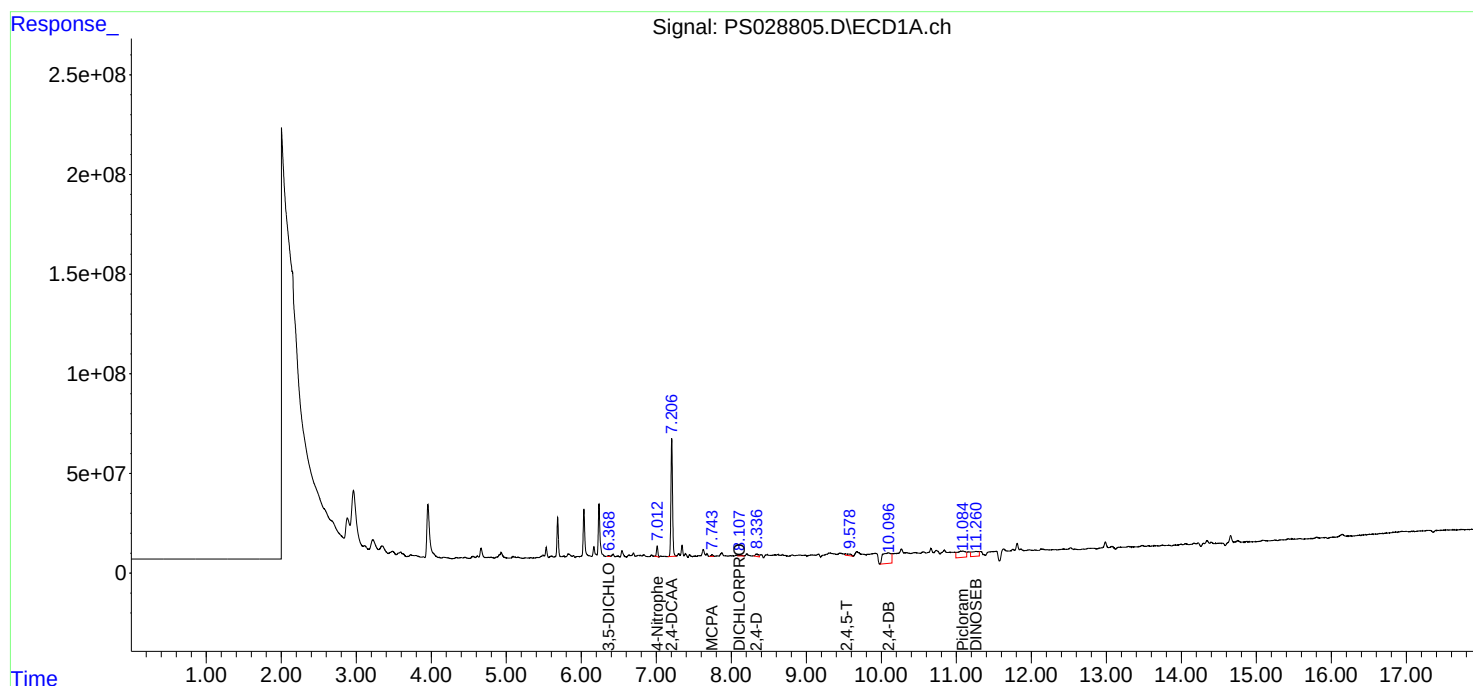
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

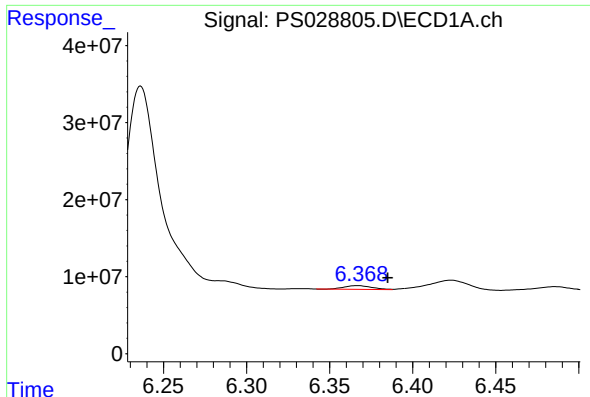
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028805.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:33
Operator : AR\AJ
Sample : P5306-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:56:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

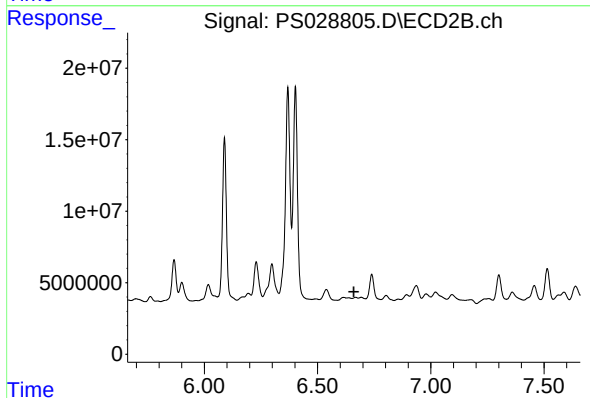




#2 3,5-DICHLOROBENZOIC ACID

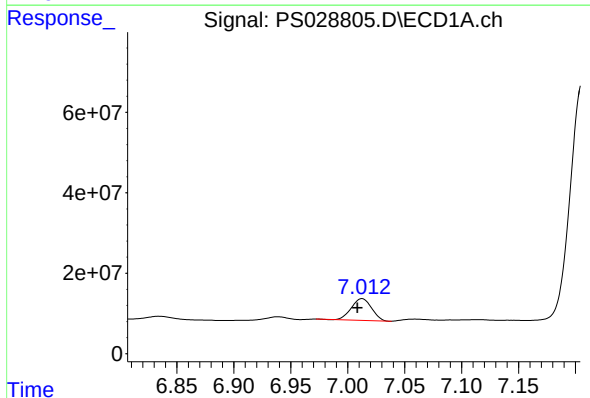
R.T.: 6.367 min
Delta R.T.: -0.018 min
Response: 5623295
Conc: 1.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224



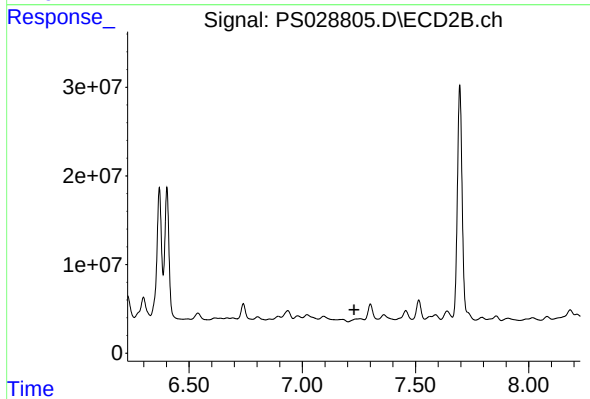
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 0.000 min
Exp R.T. : 6.661 min
Response: 0
Conc: N.D.



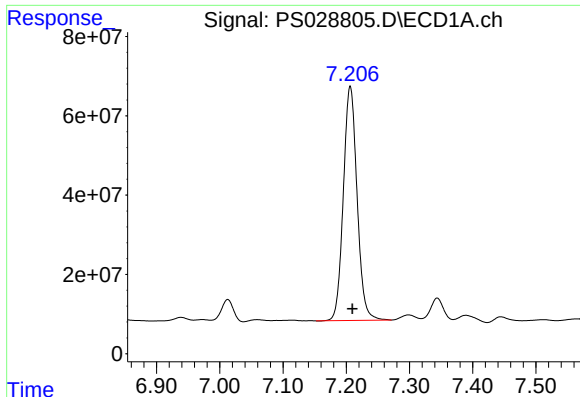
#3 4-Nitrophenol

R.T.: 7.013 min
Delta R.T.: 0.004 min
Response: 66715756
Conc: 44.42 ng/ml



#3 4-Nitrophenol

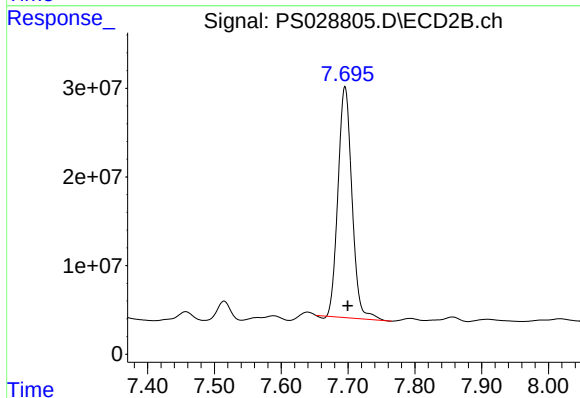
R.T.: 7.255 min
Delta R.T.: 0.027 min
Response: -1878871
Conc: N.D.



#4 2,4-DCAA

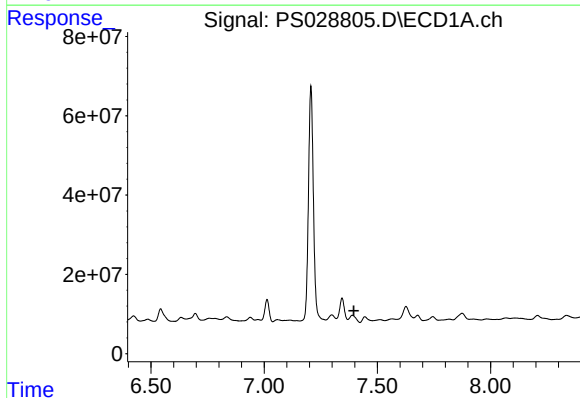
R.T.: 7.206 min
Delta R.T.: -0.003 min
Response: 891096840
Conc: 393.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224



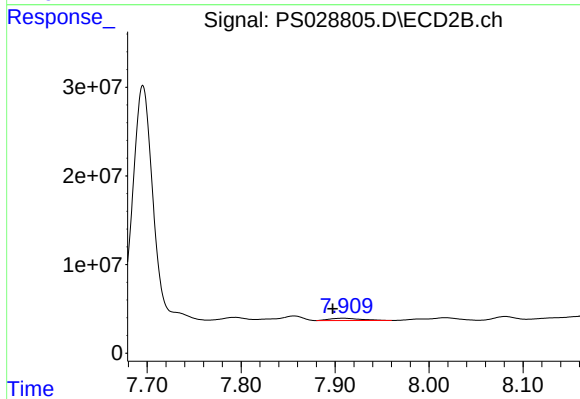
#4 2,4-DCAA

R.T.: 7.695 min
Delta R.T.: -0.004 min
Response: 377629181
Conc: 335.51 ng/ml



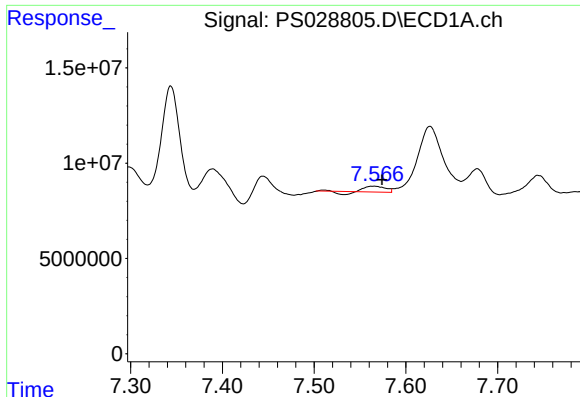
#5 DICAMBA

R.T.: 7.389 min
Delta R.T.: -0.007 min
Response: -35202142
Conc: N.D.



#5 DICAMBA

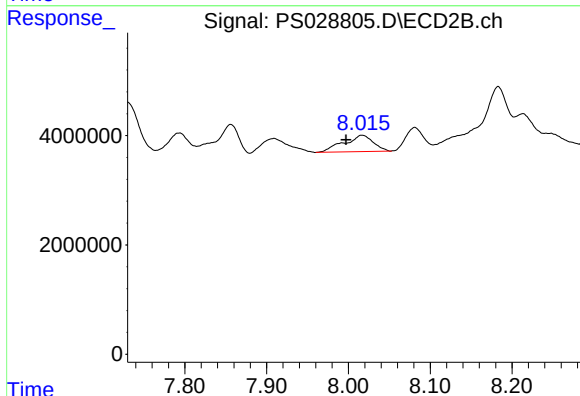
R.T.: 7.908 min
Delta R.T.: 0.011 min
Response: 6011359
Conc: 1.09 ng/ml



#6 MCPP

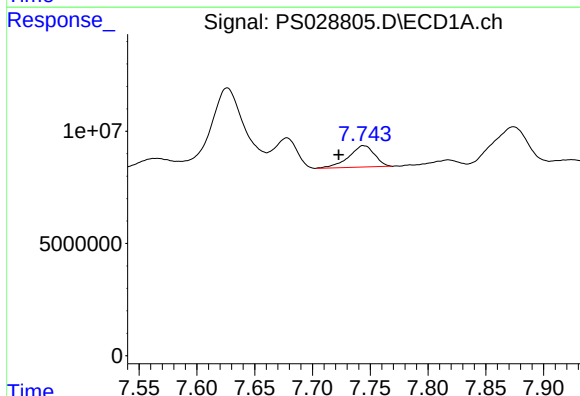
R.T.: 7.565 min
Delta R.T.: -0.009 min
Response: 3607762
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224



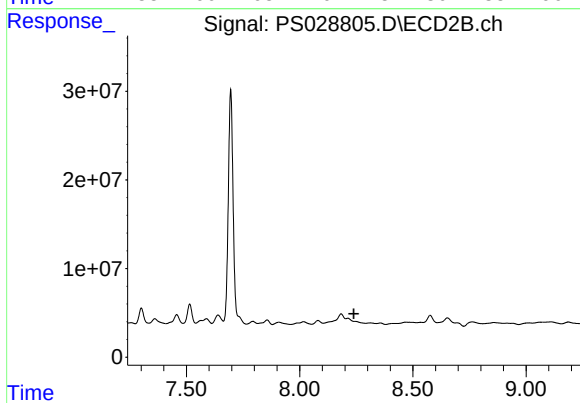
#6 MCPP

R.T.: 8.017 min
Delta R.T.: 0.020 min
Response: 7454821
Conc: 2.28 ug/ml



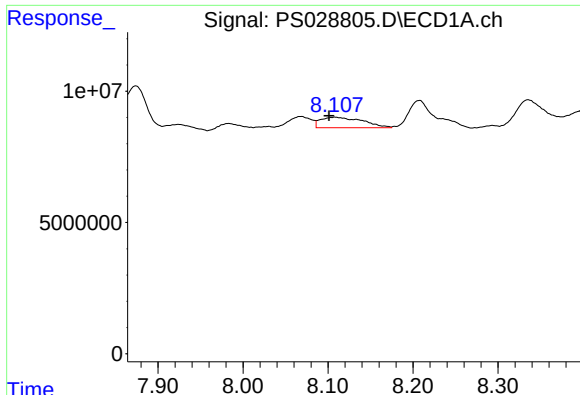
#7 MCPA

R.T.: 7.744 min
Delta R.T.: 0.022 min
Response: 14632419
Conc: 1.67 ug/ml



#7 MCPA

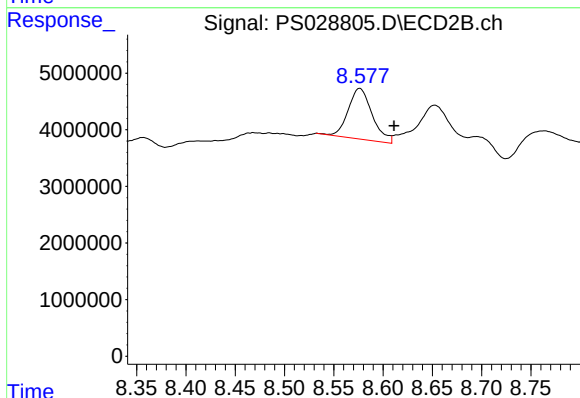
R.T.: 0.000 min
Exp R.T.: 8.239 min
Response: 0
Conc: N.D.



#8 DICHLORPROP

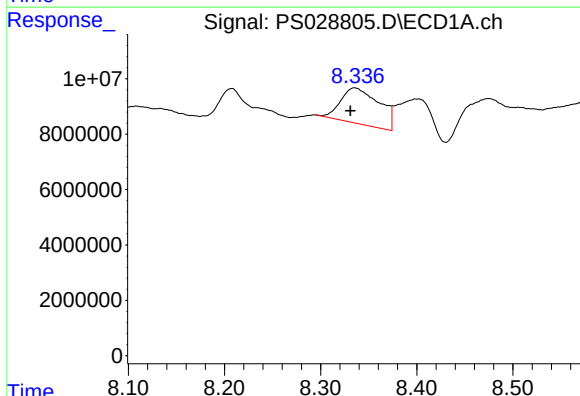
R.T.: 8.108 min
Delta R.T.: 0.007 min
Response: 13703829
Conc: 5.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224



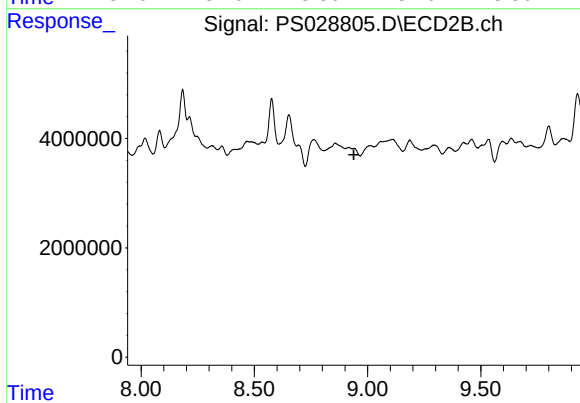
#8 DICHLORPROP

R.T.: 8.576 min
Delta R.T.: -0.035 min
Response: 15201720
Conc: 11.02 ng/ml



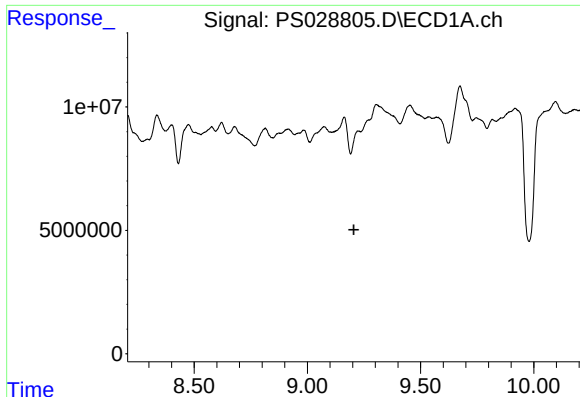
#9 2,4-D

R.T.: 8.336 min
Delta R.T.: 0.005 min
Response: 36388543
Conc: 12.77 ng/ml



#9 2,4-D

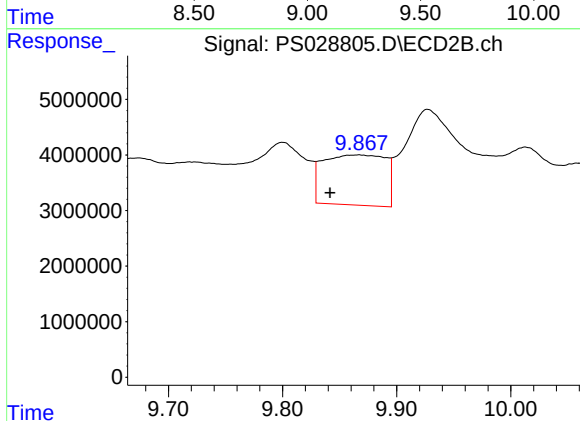
R.T.: 0.000 min
Exp R.T.: 8.939 min
Response: 0
Conc: N.D.



#11 2,4,5-TP (SILVEX)

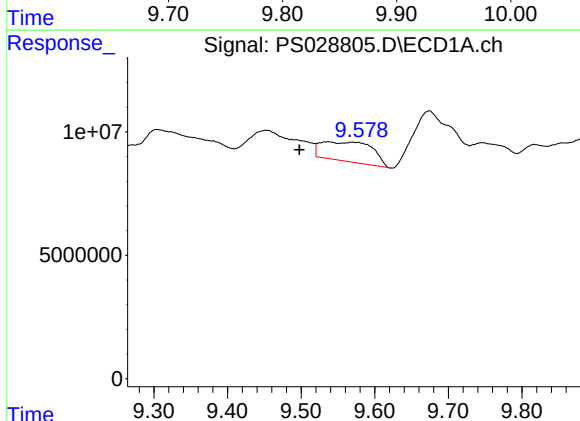
R.T.: 9.225 min
Delta R.T.: 0.020 min
Response: -12700190
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224



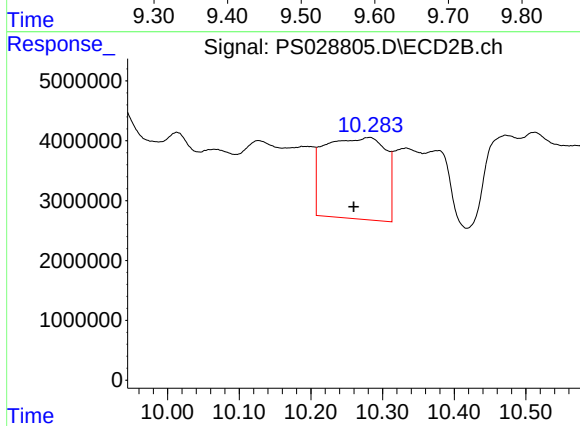
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: 0.024 min
Response: 34223510
Conc: 3.81 ng/ml



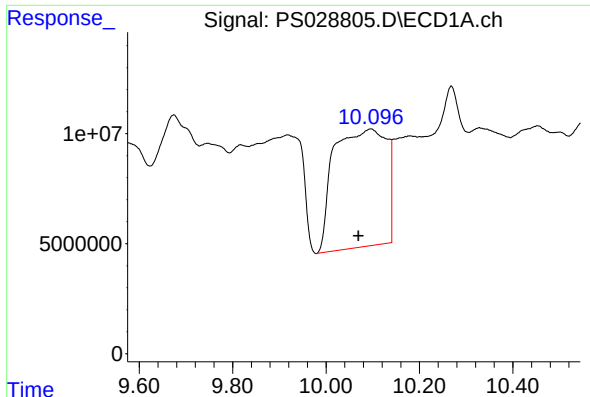
#12 2,4,5-T

R.T.: 9.536 min
Delta R.T.: 0.038 min
Response: 38083264
Conc: 2.34 ng/ml



#12 2,4,5-T

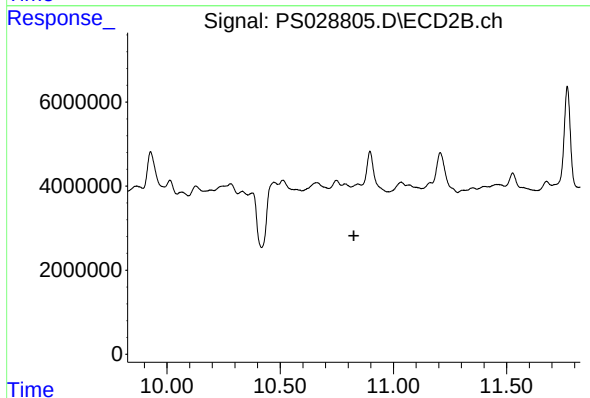
R.T.: 10.281 min
Delta R.T.: 0.021 min
Response: 80461066
Conc: 9.24 ng/ml



#13 2,4-DB

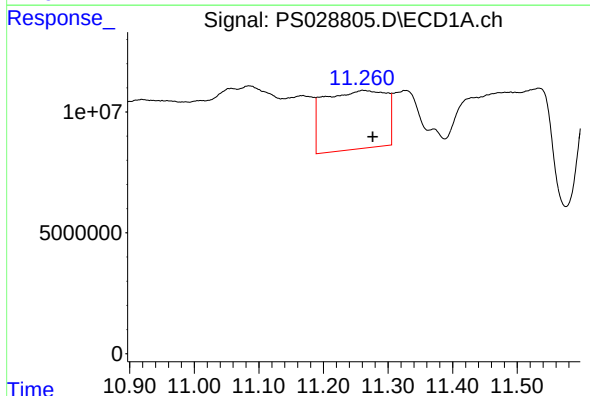
R.T.: 10.095 min
Delta R.T.: 0.026 min
Response: 418057413
Conc: 133.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224



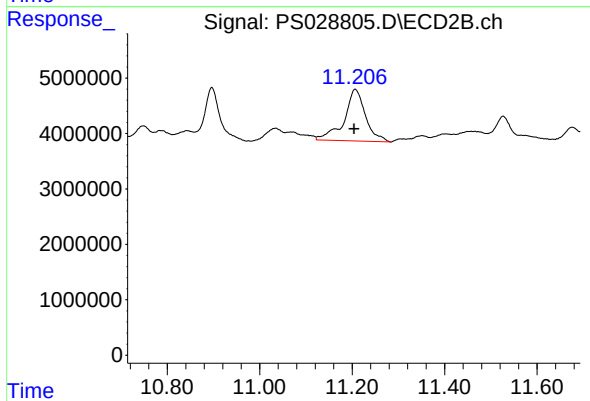
#13 2,4-DB

R.T.: 0.000 min
Exp R.T.: 10.826 min
Response: 0
Conc: N.D.



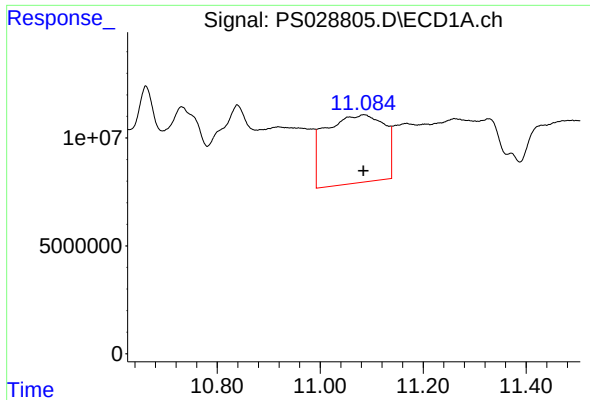
#14 DINOSEB

R.T.: 11.263 min
Delta R.T.: -0.013 min
Response: 161039404
Conc: 11.98 ng/ml



#14 DINOSEB

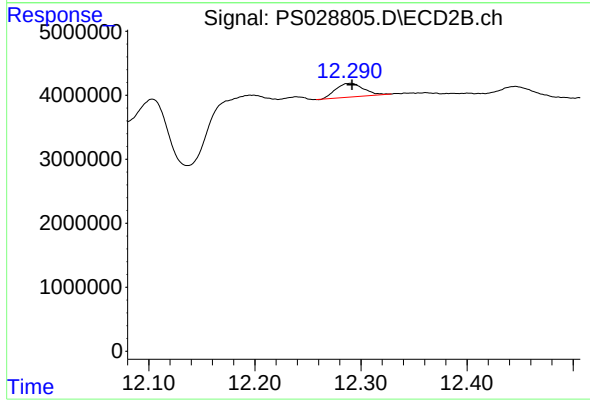
R.T.: 11.207 min
Delta R.T.: 0.003 min
Response: 29796577
Conc: 4.84 ng/ml



#15 Picloram

R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 251275939
Conc: 9.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-11-121224



#15 Picloram

R.T.: 12.290 min
Delta R.T.: -0.002 min
Response: 3877383
Conc: N.D.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
 Data File : PS028806.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Dec 2024 18:57
 Operator : AR\AJ
 Sample : P5306-11
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-12-121224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 24 01:56:35 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.206	7.695	844.0E6	360.8E6	373.113	320.539
Target Compounds							
2) T	3,5-DICHL...	6.366	6.662	3762711	4290817	1.142	2.589 #
3) T	4-Nitroph...	7.012	7.236	82564987	-943685	54.968	N.D. #
6) T	MCP	7.566	8.017	2920697	8534052	<MDL	2.612 #
7) T	MCPA	7.745	8.214f	32939101	14634180	3.758	3.159
8) T	DICHLORPROP	8.103	8.577f	32514572	228.2E6	12.255	165.411 #
9) T	2,4-D	8.339	0.000	24409117	0	8.566	N.D. #
10) T	Pentachlo...	8.622	9.459	11967027	13834819	<MDL	<MDL #
11) T	2,4,5-TP ...	0.000	9.852	0	9010288	N.D.	1.003
12) T	2,4,5-T	9.456f	10.254	45222884	31689311	2.780	3.639 #
13) T	2,4-DB	10.096f	0.000	421.1E6	0	134.896	N.D. #
14) T	DINOSEB	11.280	11.203	340.1E6	24481135	25.305	3.975 #
15) T	Picloram	11.087	12.288	361.0E6	3753792	13.463	<MDL #
16) T	DCPA	0.000	12.288f	0	3753792	N.D.	<MDL

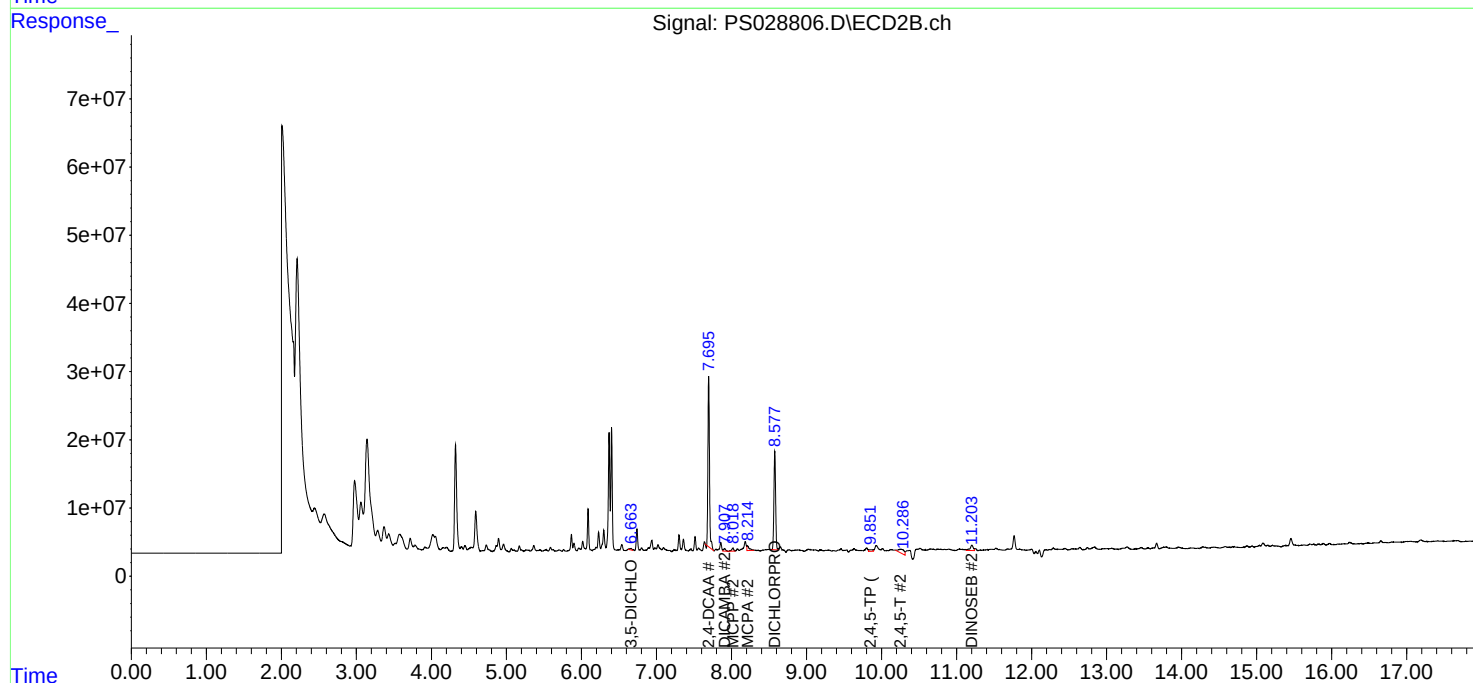
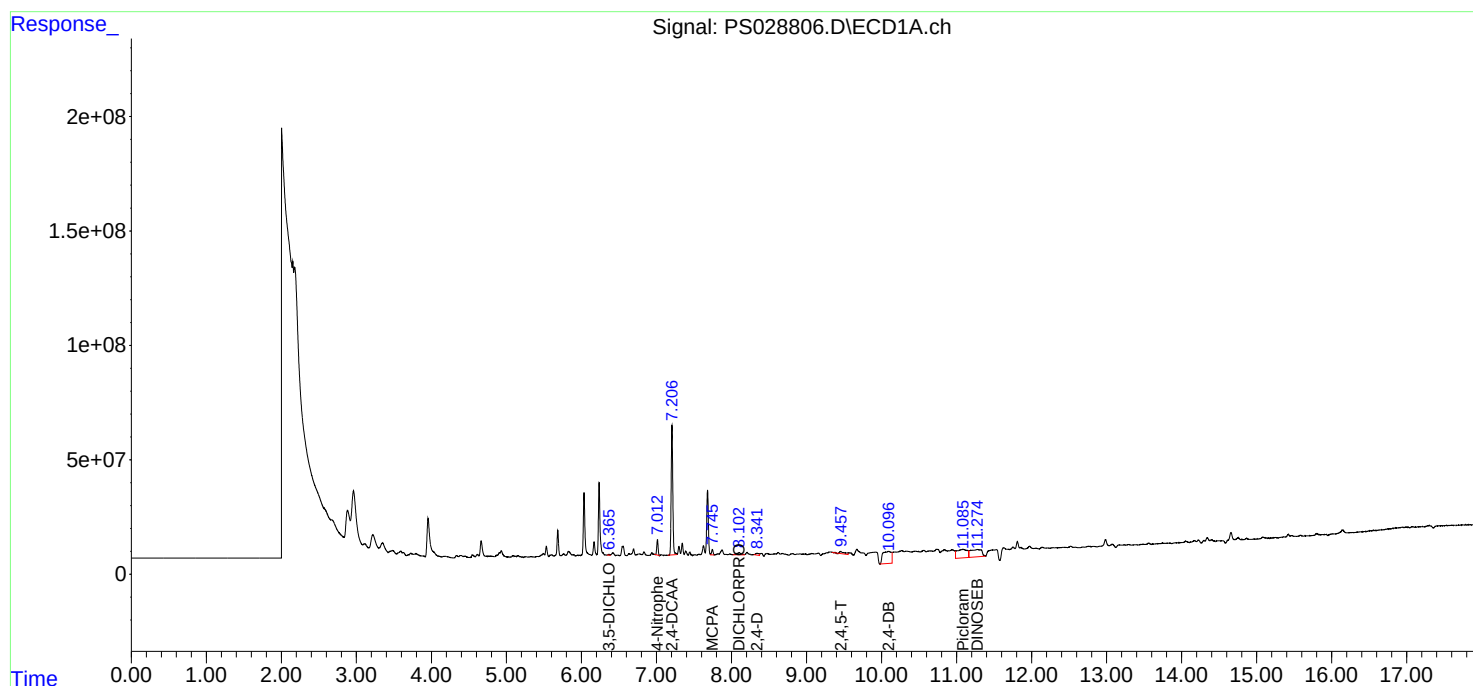
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

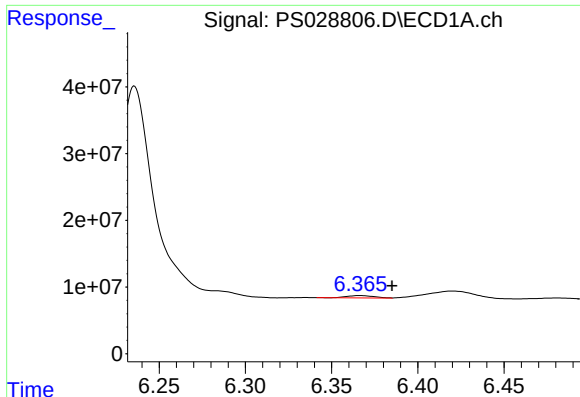
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028806.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 18:57
Operator : AR\AJ
Sample : P5306-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 24 01:56:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

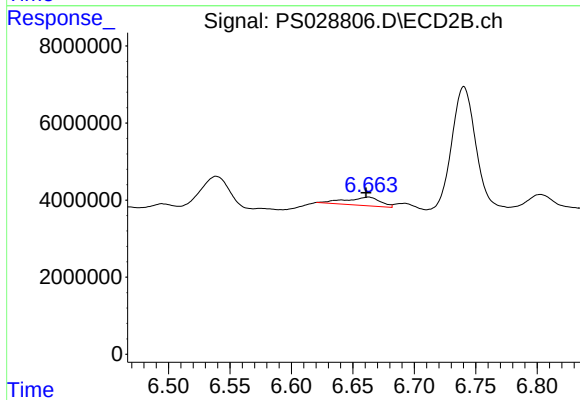




#2 3,5-DICHLOROBENZOIC ACID

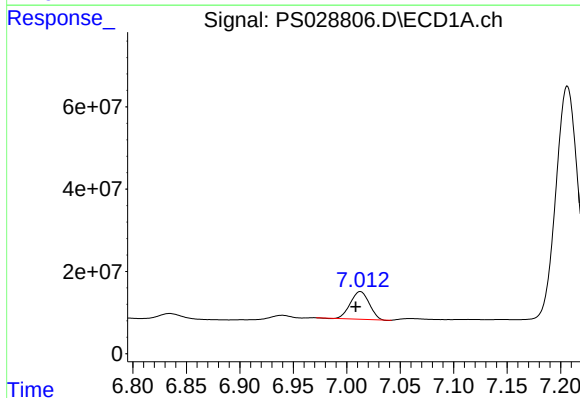
R.T.: 6.366 min
Delta R.T.: -0.019 min
Response: 3762711
Conc: 1.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224



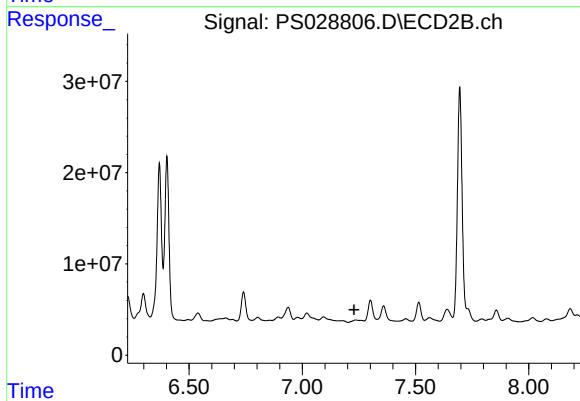
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.662 min
Delta R.T.: 0.002 min
Response: 4290817
Conc: 2.59 ng/ml



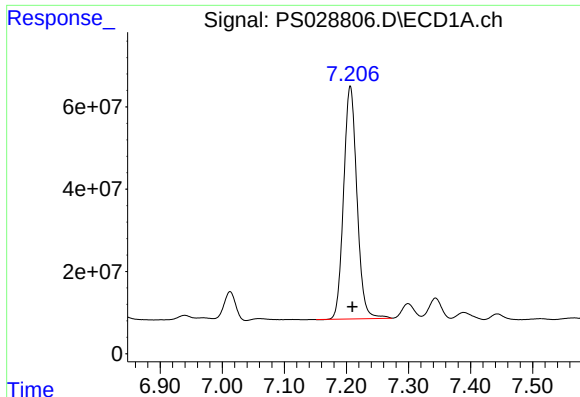
#3 4-Nitrophenol

R.T.: 7.012 min
Delta R.T.: 0.004 min
Response: 82564987
Conc: 54.97 ng/ml



#3 4-Nitrophenol

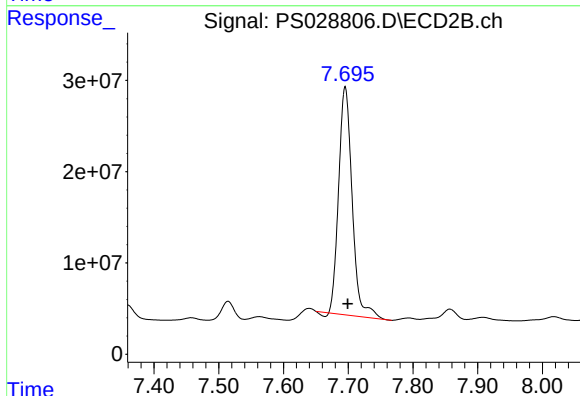
R.T.: 7.236 min
Delta R.T.: 0.008 min
Response: -943685
Conc: N.D.



#4 2,4-DCAA

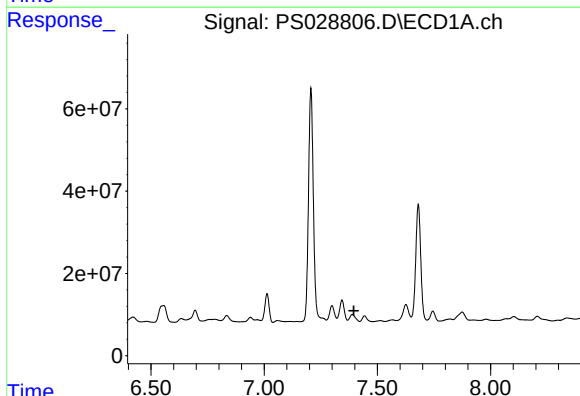
R.T.: 7.206 min
Delta R.T.: -0.003 min
Response: 843992259
Conc: 373.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224



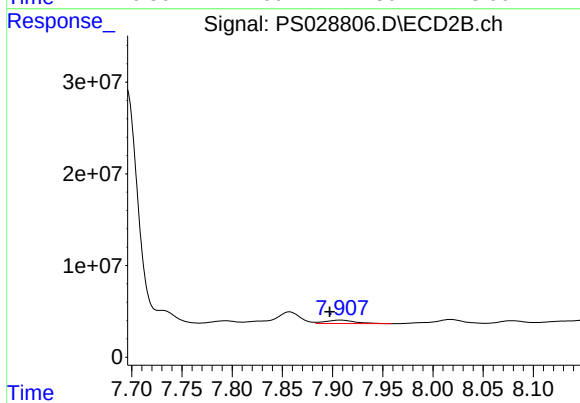
#4 2,4-DCAA

R.T.: 7.695 min
Delta R.T.: -0.004 min
Response: 360779175
Conc: 320.54 ng/ml



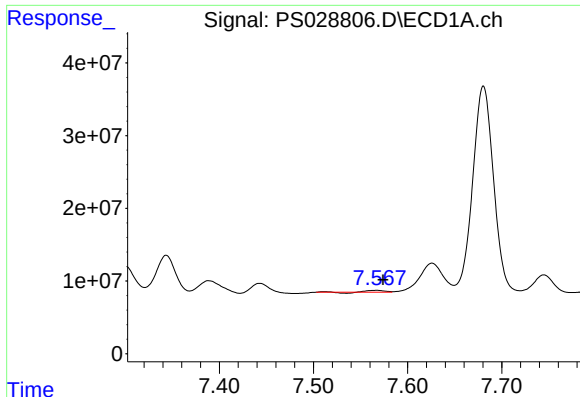
#5 DICAMBA

R.T.: 7.390 min
Delta R.T.: -0.006 min
Response: -33030073
Conc: N.D.



#5 DICAMBA

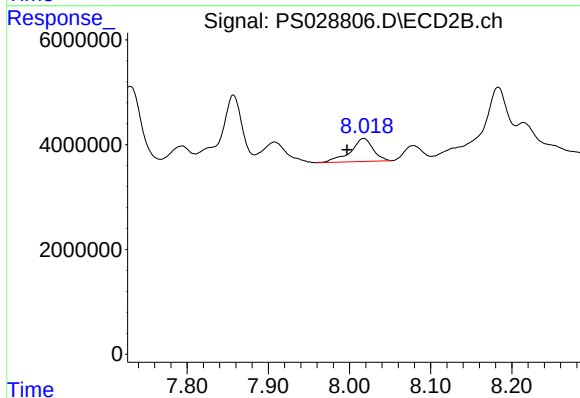
R.T.: 7.908 min
Delta R.T.: 0.010 min
Response: 7540983
Conc: 1.37 ng/ml



#6 MCP

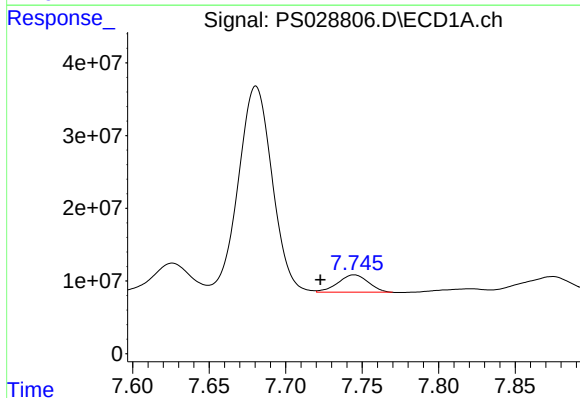
R.T.: 7.566 min
Delta R.T.: -0.008 min
Response: 2920697
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224



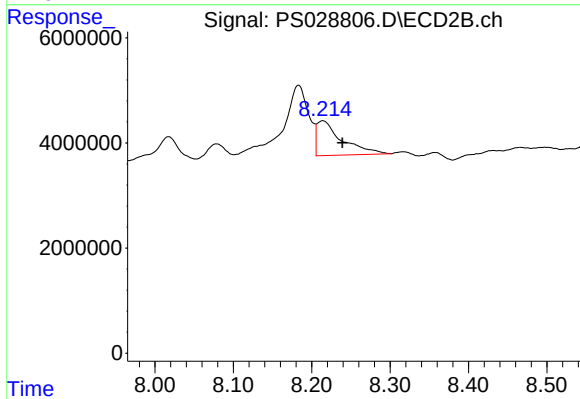
#6 MCP

R.T.: 8.017 min
Delta R.T.: 0.020 min
Response: 8534052
Conc: 2.61 ug/ml



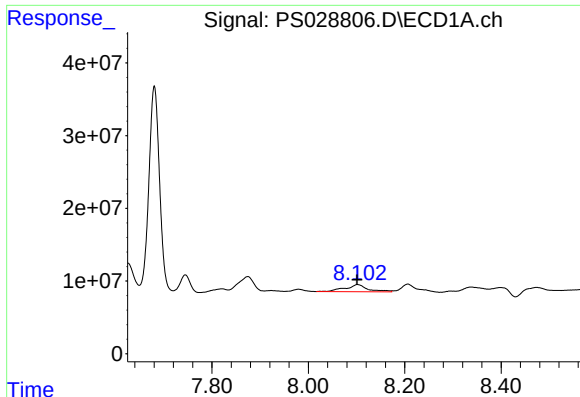
#7 MCP

R.T.: 7.745 min
Delta R.T.: 0.022 min
Response: 32939101
Conc: 3.76 ug/ml



#7 MCP

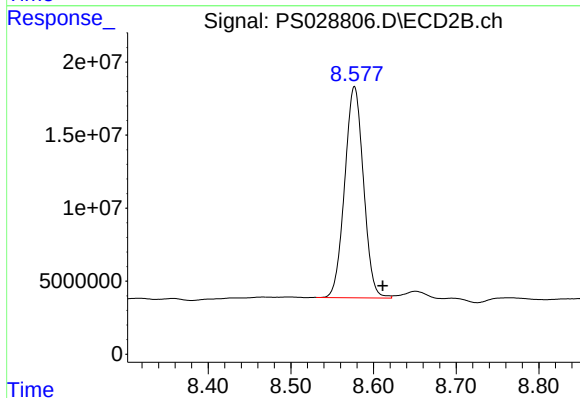
R.T.: 8.214 min
Delta R.T.: -0.025 min
Response: 14634180
Conc: 3.16 ug/ml



#8 DICHLORPROP

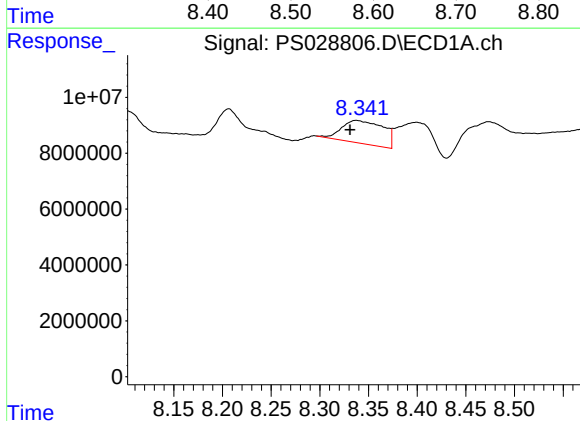
R.T.: 8.103 min
Delta R.T.: 0.002 min
Response: 32514572
Conc: 12.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224



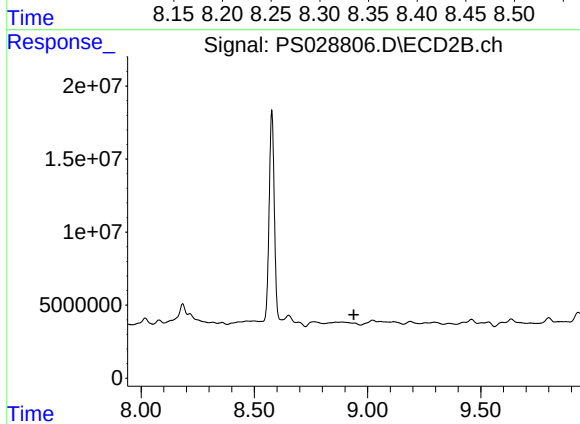
#8 DICHLORPROP

R.T.: 8.577 min
Delta R.T.: -0.034 min
Response: 228211213
Conc: 165.41 ng/ml



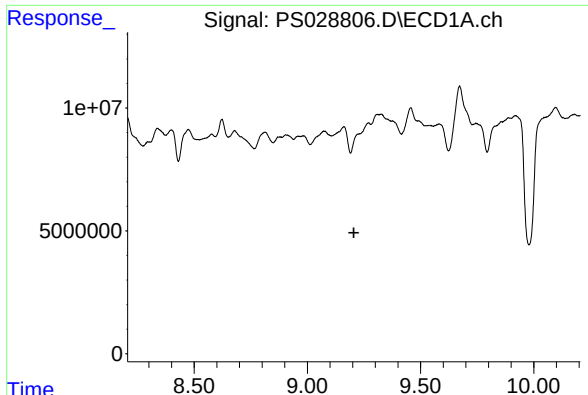
#9 2,4-D

R.T.: 8.339 min
Delta R.T.: 0.008 min
Response: 24409117
Conc: 8.57 ng/ml



#9 2,4-D

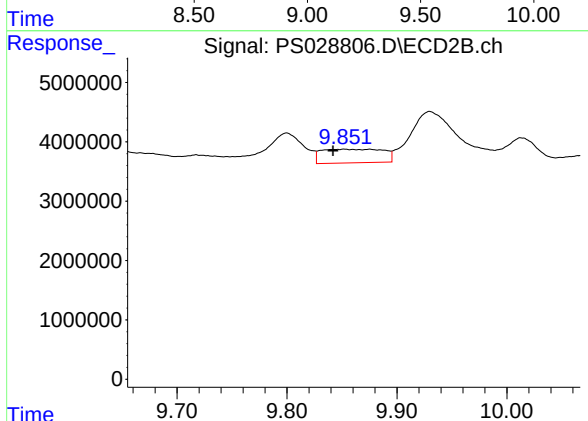
R.T.: 0.000 min
Exp R.T.: 8.939 min
Response: 0
Conc: N.D.



#11 2,4,5-TP (SILVEX)

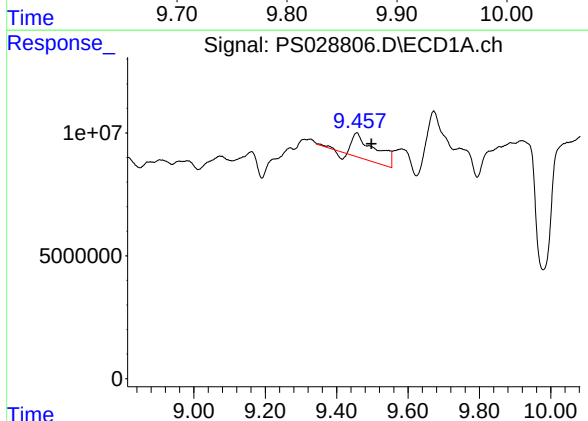
R.T.: 0.000 min
Exp R.T.: 9.205 min
Response: 0
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224



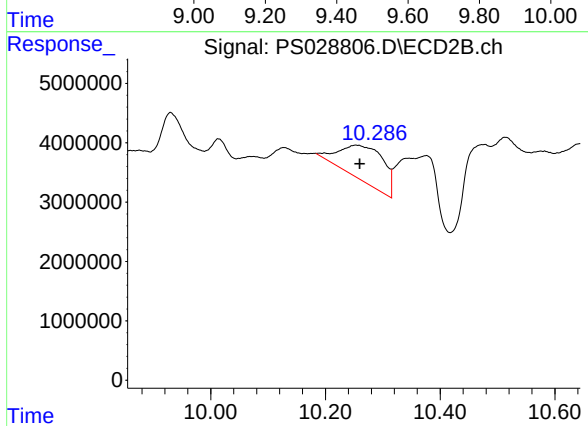
#11 2,4,5-TP (SILVEX)

R.T.: 9.852 min
Delta R.T.: 0.010 min
Response: 9010288
Conc: 1.00 ng/ml



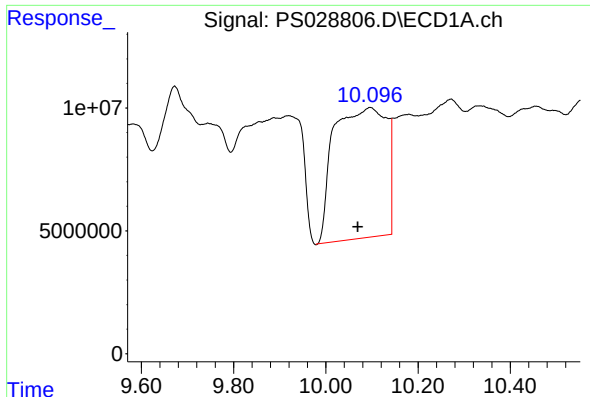
#12 2,4,5-T

R.T.: 9.456 min
Delta R.T.: -0.042 min
Response: 45222884
Conc: 2.78 ng/ml



#12 2,4,5-T

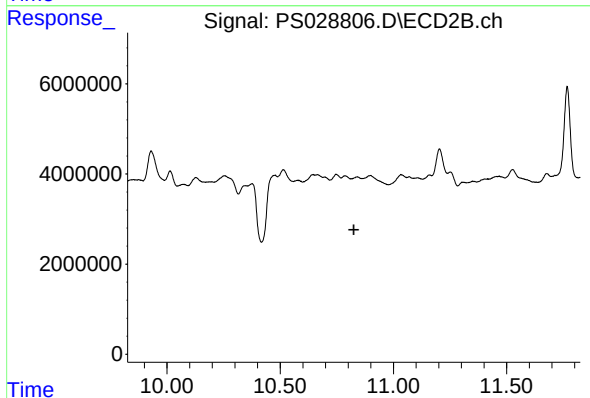
R.T.: 10.254 min
Delta R.T.: -0.006 min
Response: 31689311
Conc: 3.64 ng/ml



#13 2,4-DB

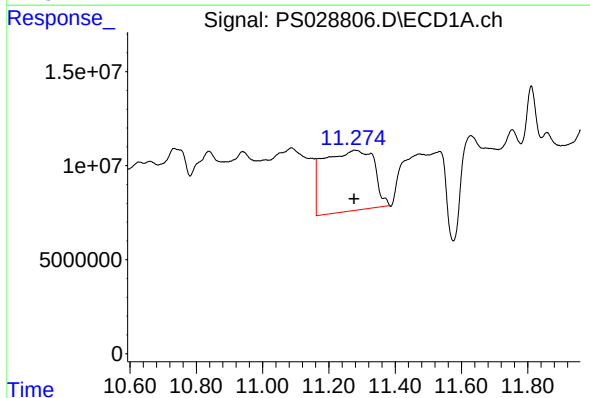
R.T.: 10.096 min
Delta R.T.: 0.026 min
Response: 421092269
Conc: 134.90 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224



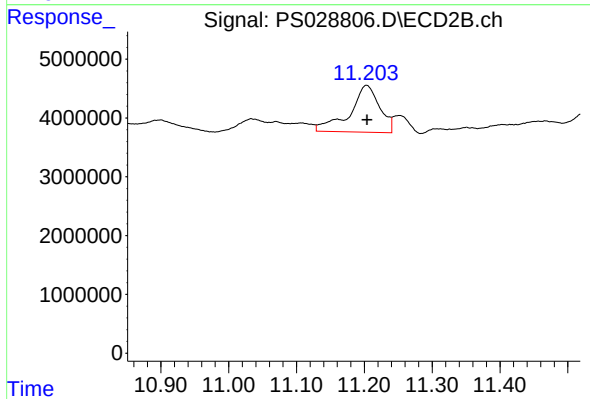
#13 2,4-DB

R.T.: 0.000 min
Exp R.T.: 10.826 min
Response: 0
Conc: N.D.



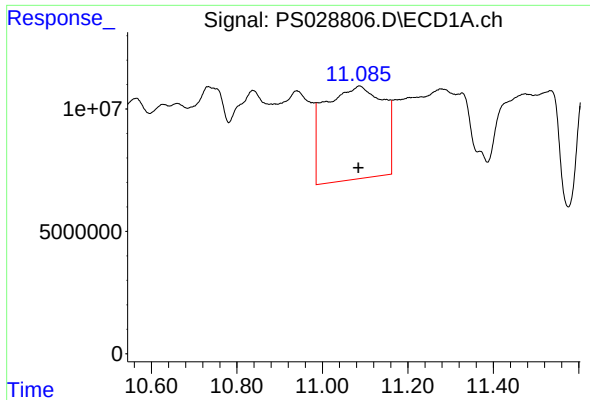
#14 DINOSEB

R.T.: 11.280 min
Delta R.T.: 0.004 min
Response: 340137570
Conc: 25.30 ng/ml



#14 DINOSEB

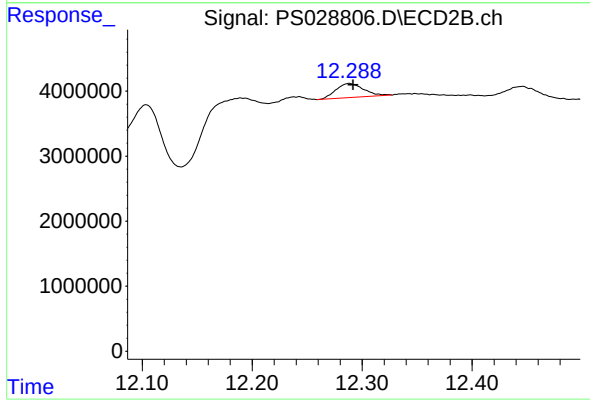
R.T.: 11.203 min
Delta R.T.: 0.000 min
Response: 24481135
Conc: 3.97 ng/ml



#15 Picloram

R.T.: 11.087 min
Delta R.T.: 0.003 min
Response: 360984216
Conc: 13.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-12-121224



#15 Picloram

R.T.: 12.288 min
Delta R.T.: -0.003 min
Response: 3753792
Conc: N.D.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028820.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 11:07
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:41:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.207	7.695	1847.1E6	846.3E6	816.549	751.937
Target Compounds							
1) T	Dalapon	2.622	2.676	2182.9E6	1380.9E6	774.990	701.474
2) T	3,5-DICHL...	6.382	6.658	2545.9E6	1160.3E6	772.609	699.994
3) T	4-Nitroph...	7.005	7.224	1136.6E6	571.9E6	756.701	683.418
5) T	DICAMBA	7.393	7.893	7818.4E6	3973.2E6	792.892	723.730
6) T	MCPD	7.575	7.997	493.7E6	235.2E6	79.282	71.985
7) T	MCPA	7.724	8.240	671.4E6	328.7E6	76.594	70.945
8) T	DICHLORPROP	8.098	8.606	2058.4E6	985.1E6	775.837	714.024
9) T	2,4-D	8.326	8.934	2184.3E6	1021.4E6	766.563	707.755
10) T	Pentachlo...	8.625	9.459	31990.6E6	15961.0E6	818.864	732.197
11) T	2,4,5-TP ...	9.200	9.836	12616.5E6	6564.6E6	803.119	730.735
12) T	2,4,5-T	9.492	10.253	12925.3E6	6304.2E6	794.466	723.858
13) T	2,4-DB	10.062	10.819	2400.6E6	708.9E6	769.040	730.047
14) T	DINOSEB	11.269	11.197	10593.2E6	4394.1E6	788.080	713.420
15) T	Picloram	11.077	12.283	21004.7E6	9448.9E6	783.384	735.951
16) T	DCPA	11.562	12.236	19014.5E6	7906.8E6	790.589	735.890

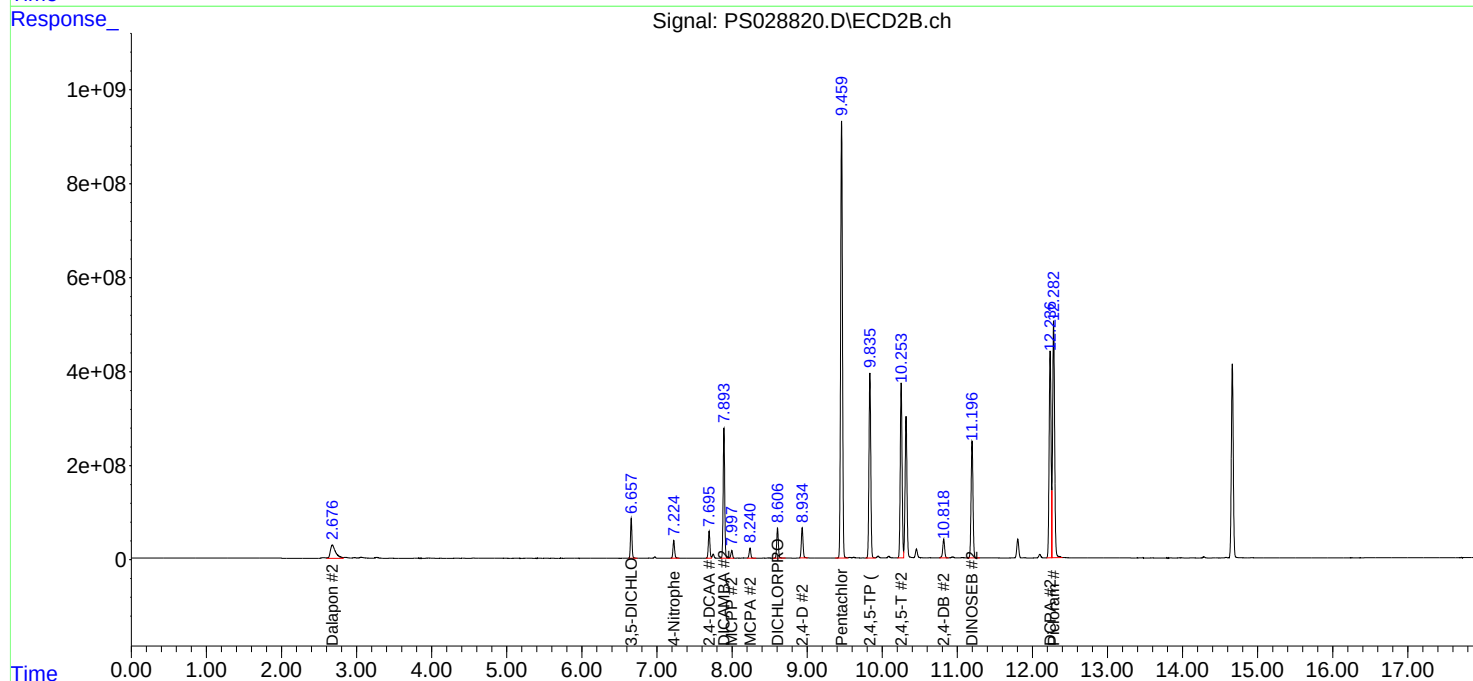
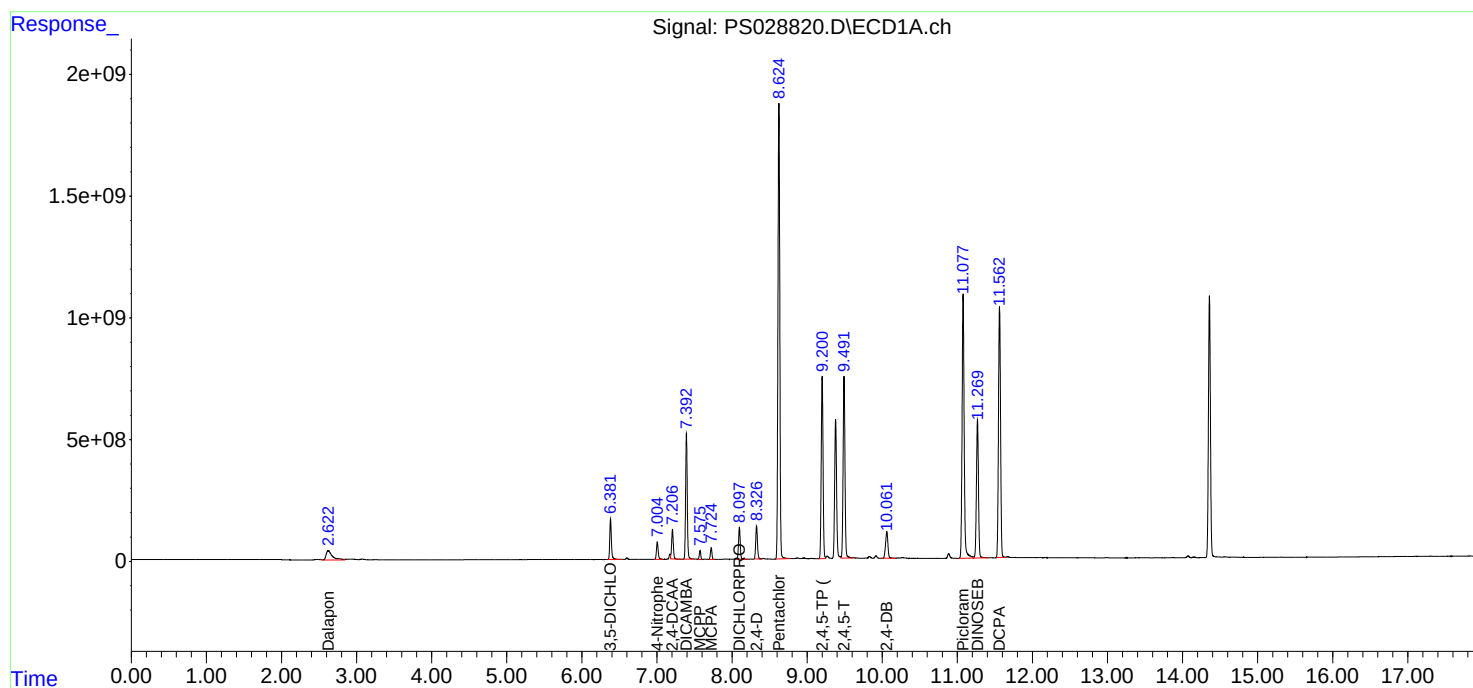
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

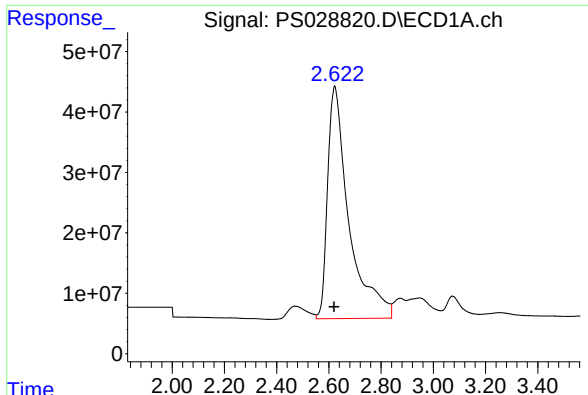
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028820.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 11:07
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:41:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

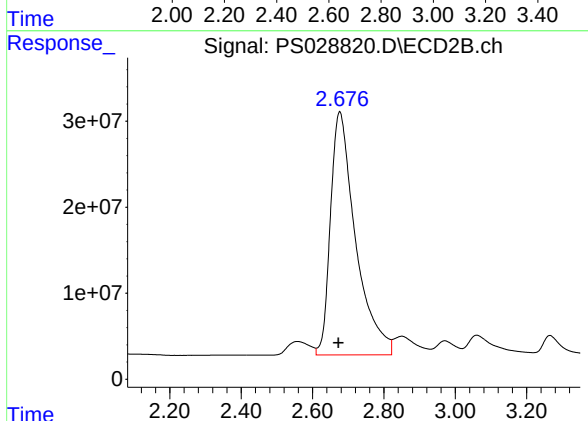




#1 Dalapon

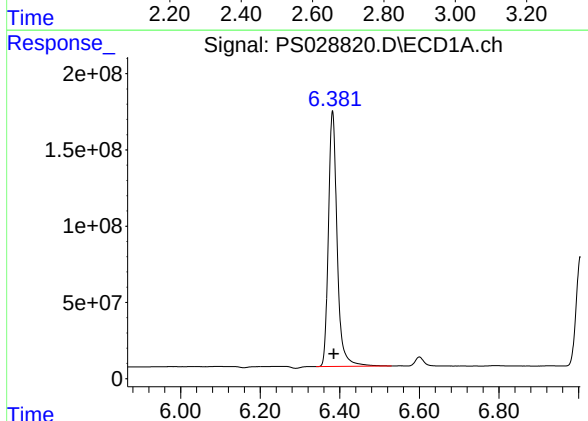
R.T.: 2.622 min
Delta R.T.: 0.002 min
Response: 2182877280
Conc: 774.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



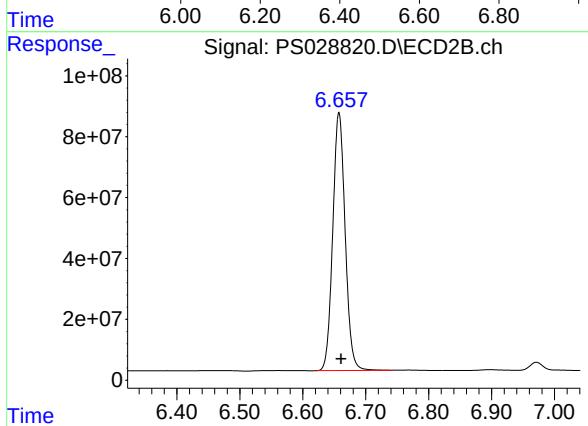
#1 Dalapon

R.T.: 2.676 min
Delta R.T.: 0.003 min
Response: 1380922873
Conc: 701.47 ng/ml



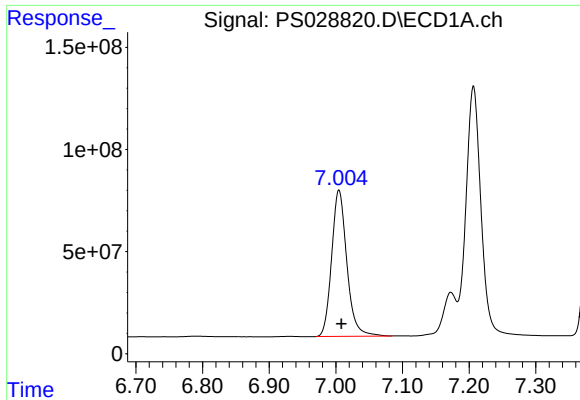
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.382 min
Delta R.T.: -0.003 min
Response: 2545850809
Conc: 772.61 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

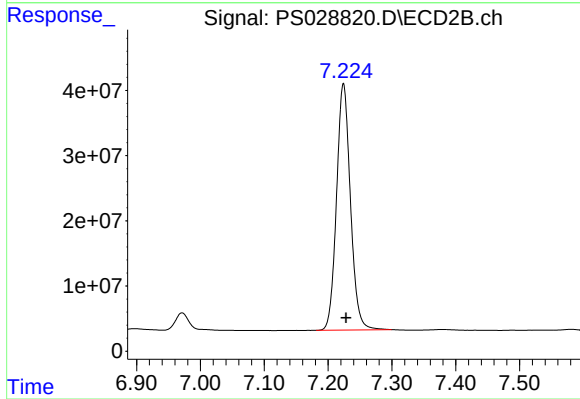
R.T.: 6.658 min
Delta R.T.: -0.003 min
Response: 1160291664
Conc: 699.99 ng/ml



#3 4-Nitrophenol

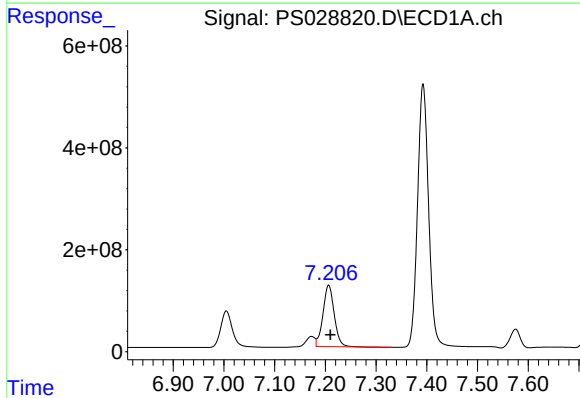
R.T.: 7.005 min
Delta R.T.: -0.004 min
Response: 1136609389
Conc: 756.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



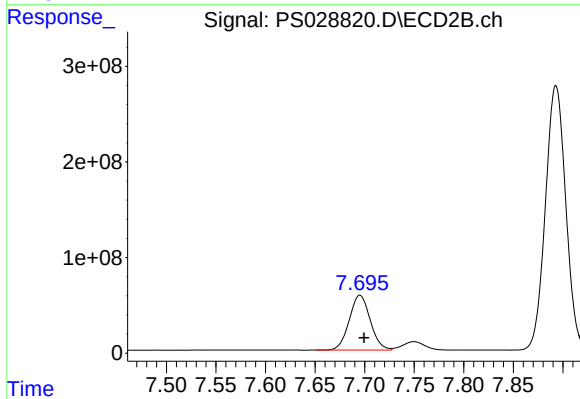
#3 4-Nitrophenol

R.T.: 7.224 min
Delta R.T.: -0.004 min
Response: 571947704
Conc: 683.42 ng/ml



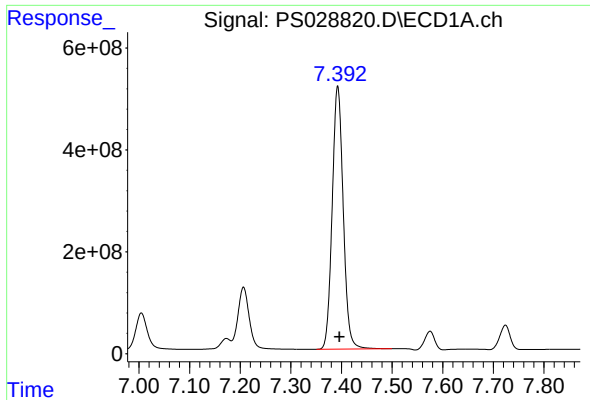
#4 2,4-DCAA

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 1847055797
Conc: 816.55 ng/ml



#4 2,4-DCAA

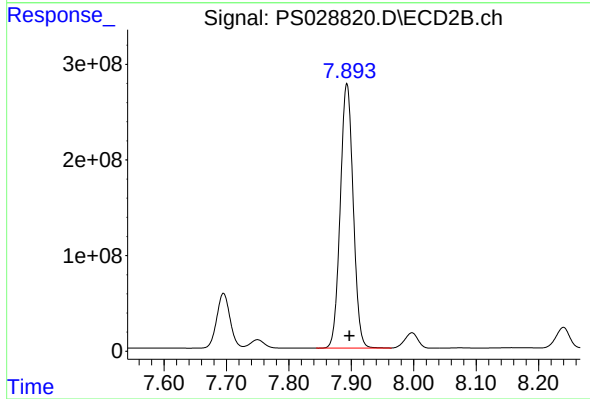
R.T.: 7.695 min
Delta R.T.: -0.004 min
Response: 846332840
Conc: 751.94 ng/ml



#5 DICAMBA

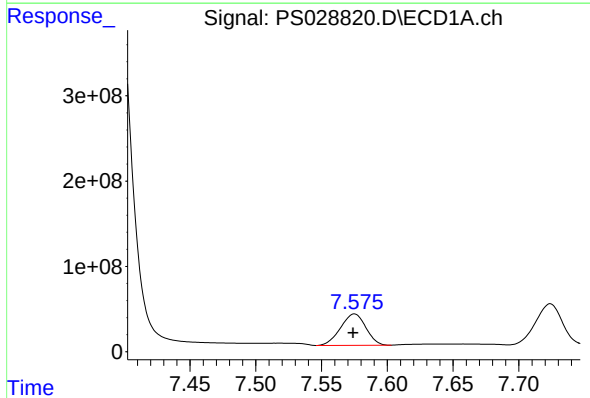
R.T.: 7.393 min
Delta R.T.: -0.003 min
Response: 7818429762
Conc: 792.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



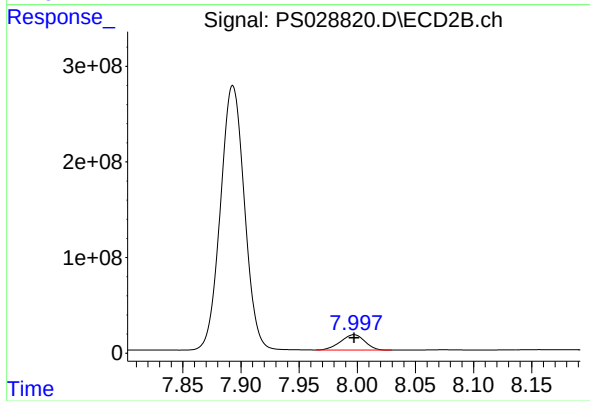
#5 DICAMBA

R.T.: 7.893 min
Delta R.T.: -0.004 min
Response: 3973182560
Conc: 723.73 ng/ml



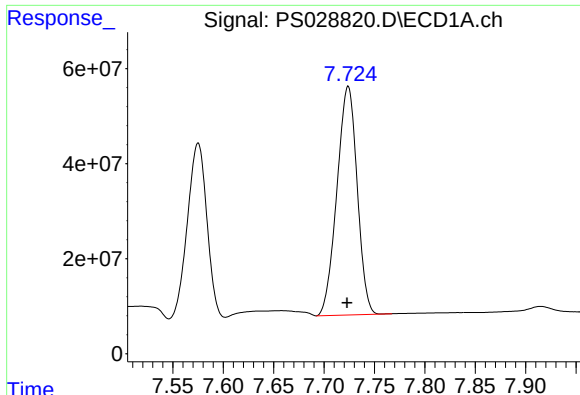
#6 MCP

R.T.: 7.575 min
Delta R.T.: 0.000 min
Response: 493705339
Conc: 79.28 ug/ml



#6 MCP

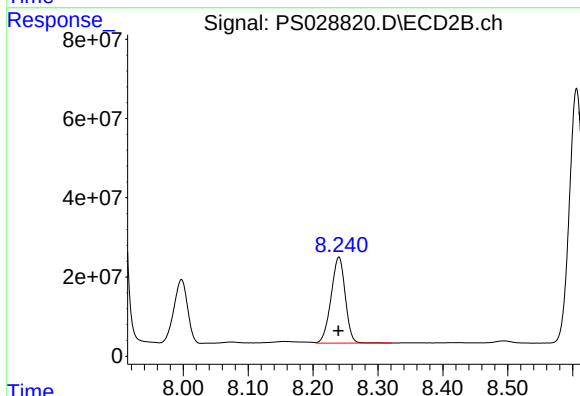
R.T.: 7.997 min
Delta R.T.: 0.000 min
Response: 235233422
Conc: 71.99 ug/ml



#7 MCPA

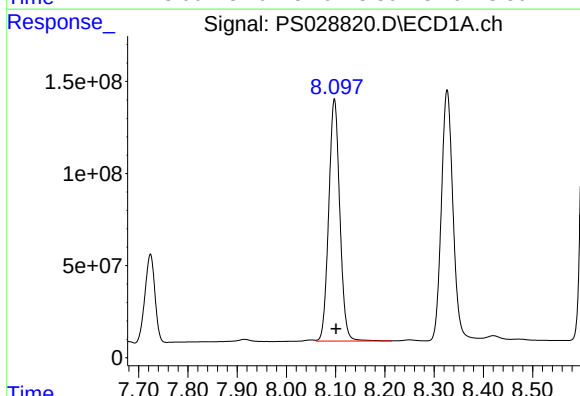
R.T.: 7.724 min
Delta R.T.: 0.001 min
Response: 671383385
Conc: 76.59 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



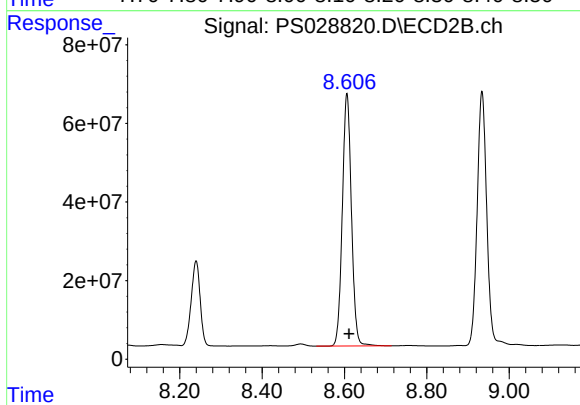
#7 MCPA

R.T.: 8.240 min
Delta R.T.: 0.000 min
Response: 328678191
Conc: 70.94 ug/ml



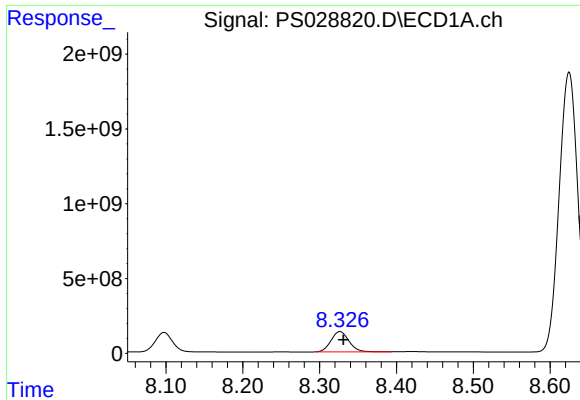
#8 DICHLORPROP

R.T.: 8.098 min
Delta R.T.: -0.004 min
Response: 2058431907
Conc: 775.84 ng/ml



#8 DICHLORPROP

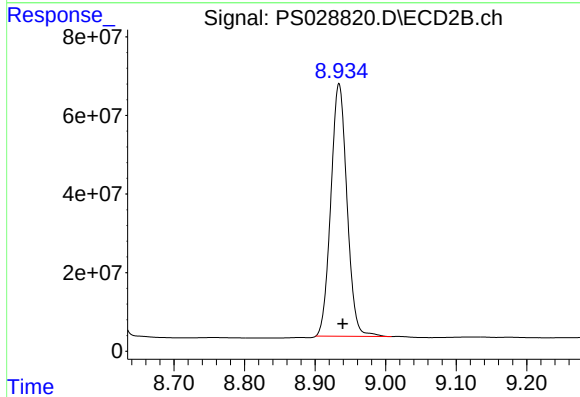
R.T.: 8.606 min
Delta R.T.: -0.005 min
Response: 985109509
Conc: 714.02 ng/ml



#9 2,4-D

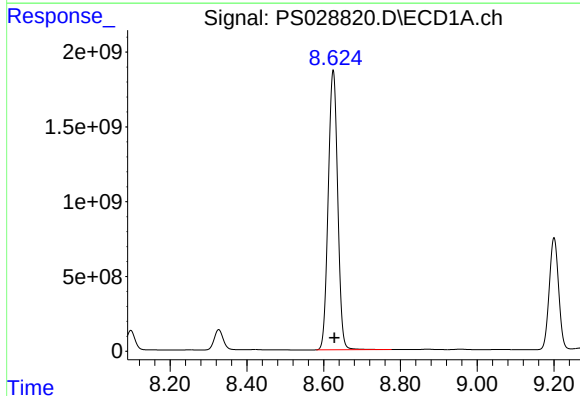
R.T.: 8.326 min
Delta R.T.: -0.005 min
Response: 2184345926
Conc: 766.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



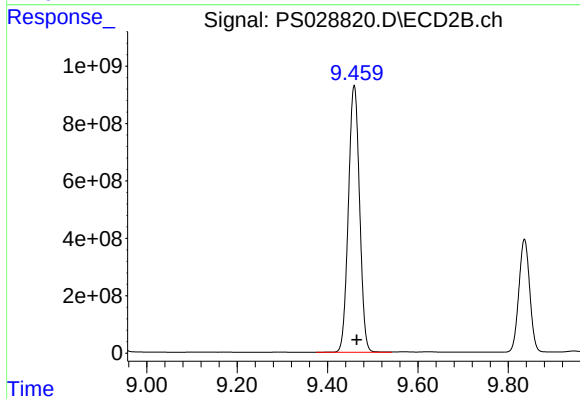
#9 2,4-D

R.T.: 8.934 min
Delta R.T.: -0.005 min
Response: 1021392891
Conc: 707.75 ng/ml



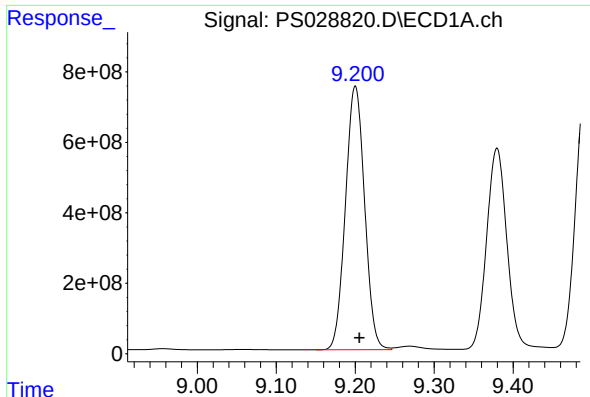
#10 Pentachlorophenol

R.T.: 8.625 min
Delta R.T.: -0.003 min
Response: 31990556634
Conc: 818.86 ng/ml



#10 Pentachlorophenol

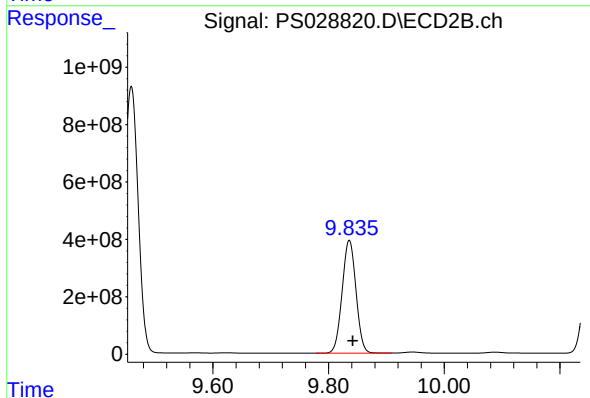
R.T.: 9.459 min
Delta R.T.: -0.005 min
Response: 15960965900
Conc: 732.20 ng/ml



#11 2,4,5-TP (SILVEX)

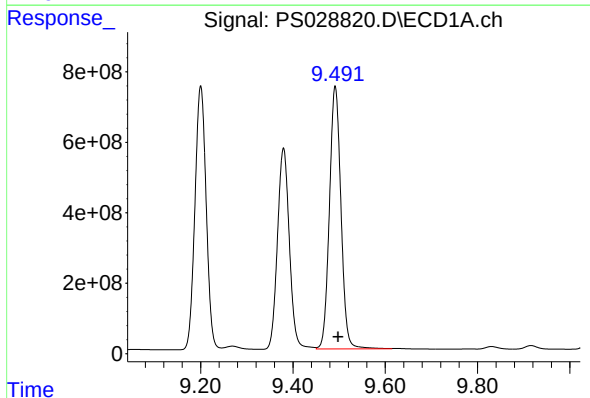
R.T.: 9.200 min
Delta R.T.: -0.005 min
Response: 12616465992
Conc: 803.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



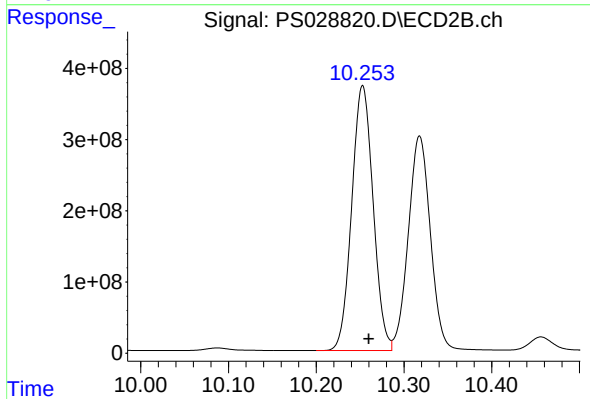
#11 2,4,5-TP (SILVEX)

R.T.: 9.836 min
Delta R.T.: -0.006 min
Response: 6564565450
Conc: 730.73 ng/ml



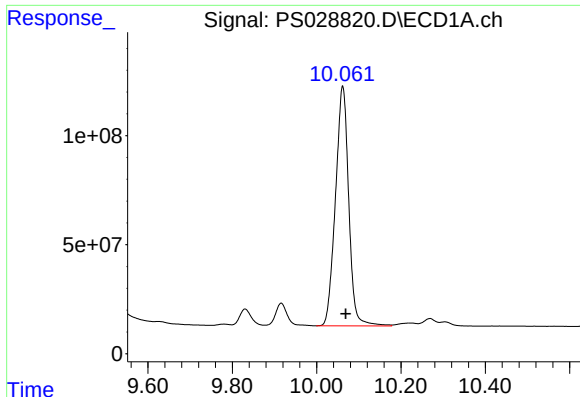
#12 2,4,5-T

R.T.: 9.492 min
Delta R.T.: -0.006 min
Response: 12925312952
Conc: 794.47 ng/ml



#12 2,4,5-T

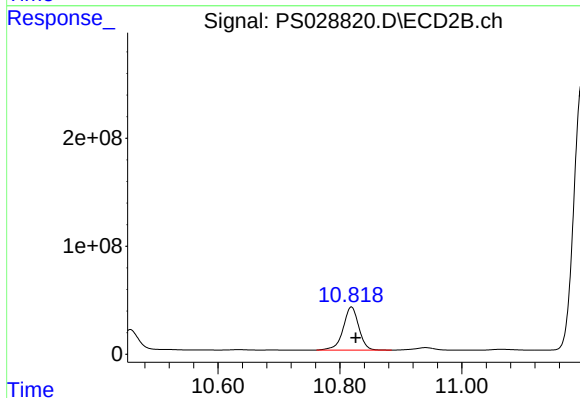
R.T.: 10.253 min
Delta R.T.: -0.007 min
Response: 6304215651
Conc: 723.86 ng/ml



#13 2,4-DB

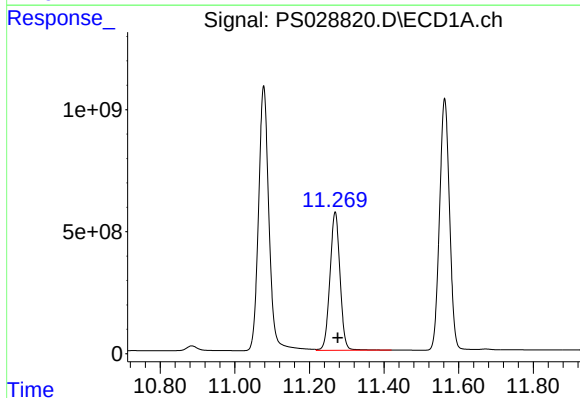
R.T.: 10.062 min
Delta R.T.: -0.008 min
Response: 2400632733
Conc: 769.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



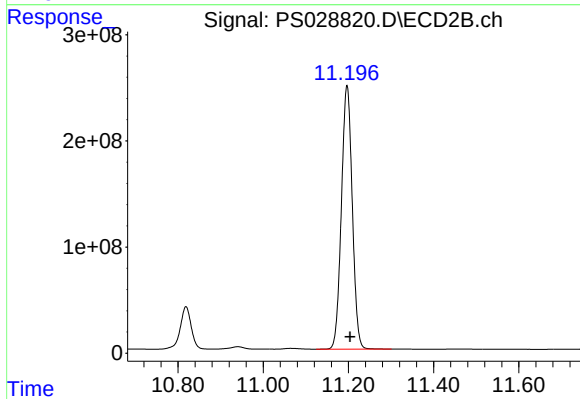
#13 2,4-DB

R.T.: 10.819 min
Delta R.T.: -0.007 min
Response: 708946375
Conc: 730.05 ng/ml



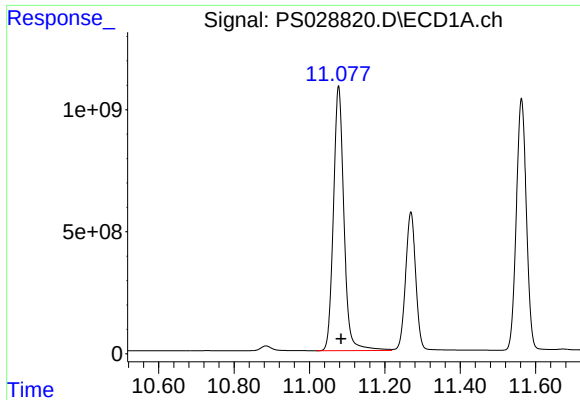
#14 DINOSEB

R.T.: 11.269 min
Delta R.T.: -0.007 min
Response: 10593151651
Conc: 788.08 ng/ml



#14 DINOSEB

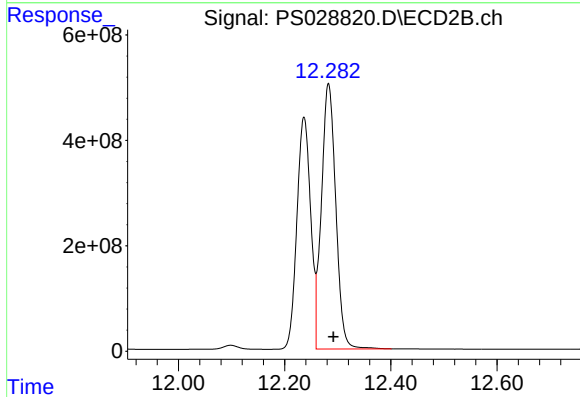
R.T.: 11.197 min
Delta R.T.: -0.007 min
Response: 4394055967
Conc: 713.42 ng/ml



#15 Picloram

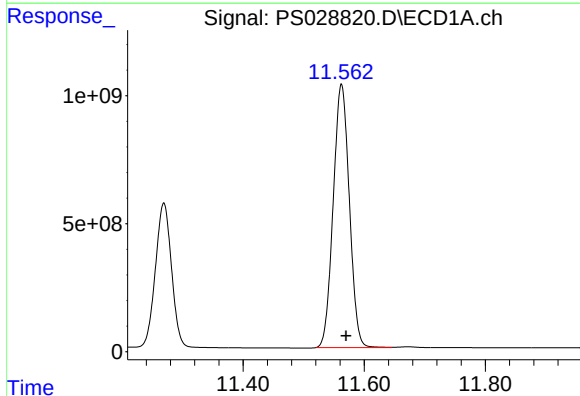
R.T.: 11.077 min
Delta R.T.: -0.007 min
Response: 21004683938
Conc: 783.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



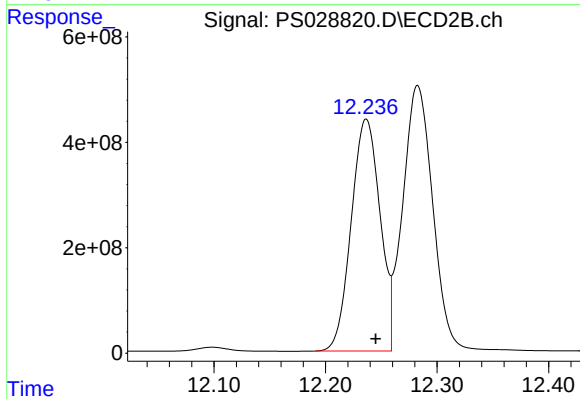
#15 Picloram

R.T.: 12.283 min
Delta R.T.: -0.009 min
Response: 9448885912
Conc: 735.95 ng/ml



#16 DCPA

R.T.: 11.562 min
Delta R.T.: -0.008 min
Response: 19014498594
Conc: 790.59 ng/ml



#16 DCPA

R.T.: 12.236 min
Delta R.T.: -0.009 min
Response: 7906831564
Conc: 735.89 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028821.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 17:05
 Operator : AR\AJ
 Sample : P5306-13
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-13-121224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:42:03 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.208	7.693	666.7E6	262.0E6	294.751	232.736
Target Compounds							
2) T	3,5-DICHL...	6.365	6.692f	1309417	1178905	<MDL	<MDL #
3) T	4-Nitroph...	7.013	7.232	39141827	2713156	26.059	3.242 #
6) T	MCP	7.568	8.014	2656004	6775835	<MDL	2.074 #
7) T	MCPA	7.746	8.212f	32850931	34160147	3.748	7.373 #
8) T	DICHLORPROP	8.105	8.649f	7191304	45056247	2.710	32.658 #
11) T	2,4,5-TP ...	0.000	9.865	0	11351702	N.D.	1.264
12) T	2,4,5-T	9.537f	10.281	45746451	34475652	2.812	3.959 #
13) T	2,4-DB	10.045	0.000	100.6E6	0	32.212	N.D. #
14) T	DINOSEB	11.305f	11.209	13477088	4238007	1.003	<MDL #
15) T	Picloram	11.085	12.286	114.4E6	12534485	4.268	<MDL #
16) T	DCPA	0.000	12.286f	0	12534485	N.D.	1.167

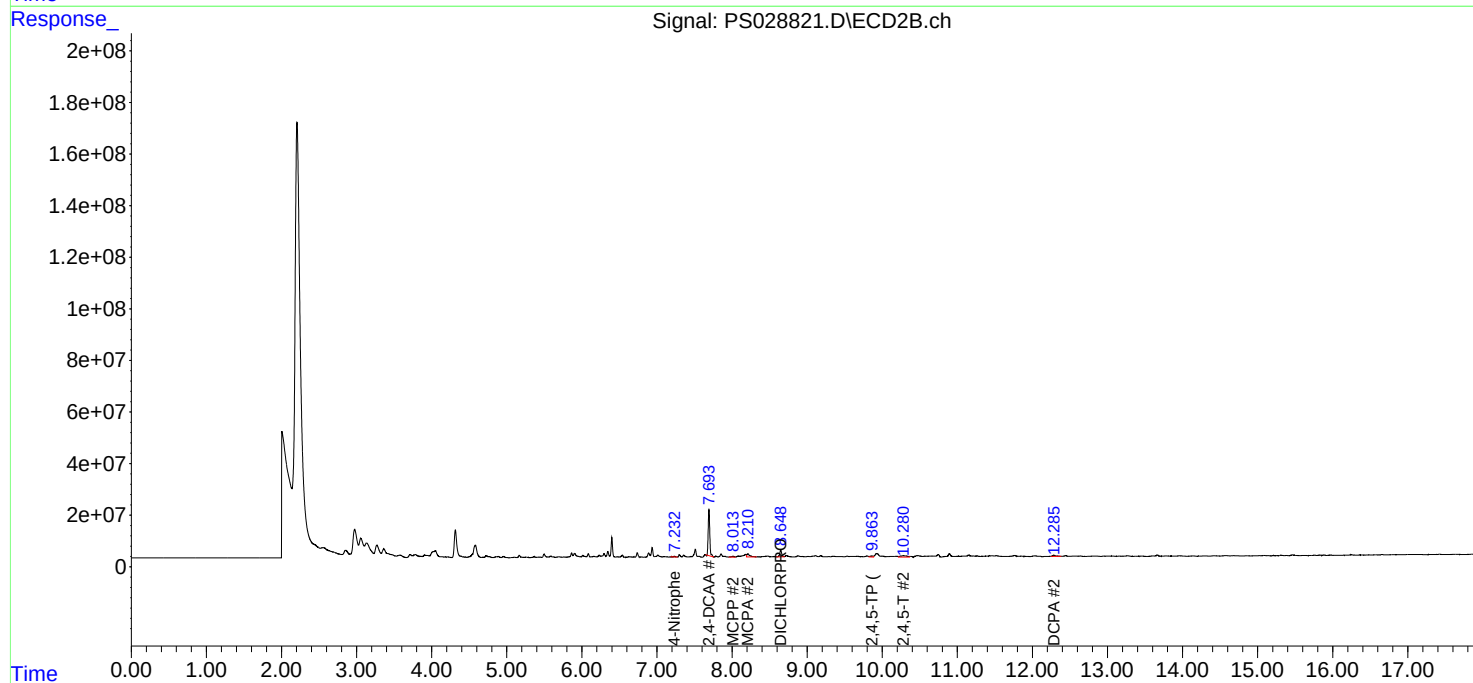
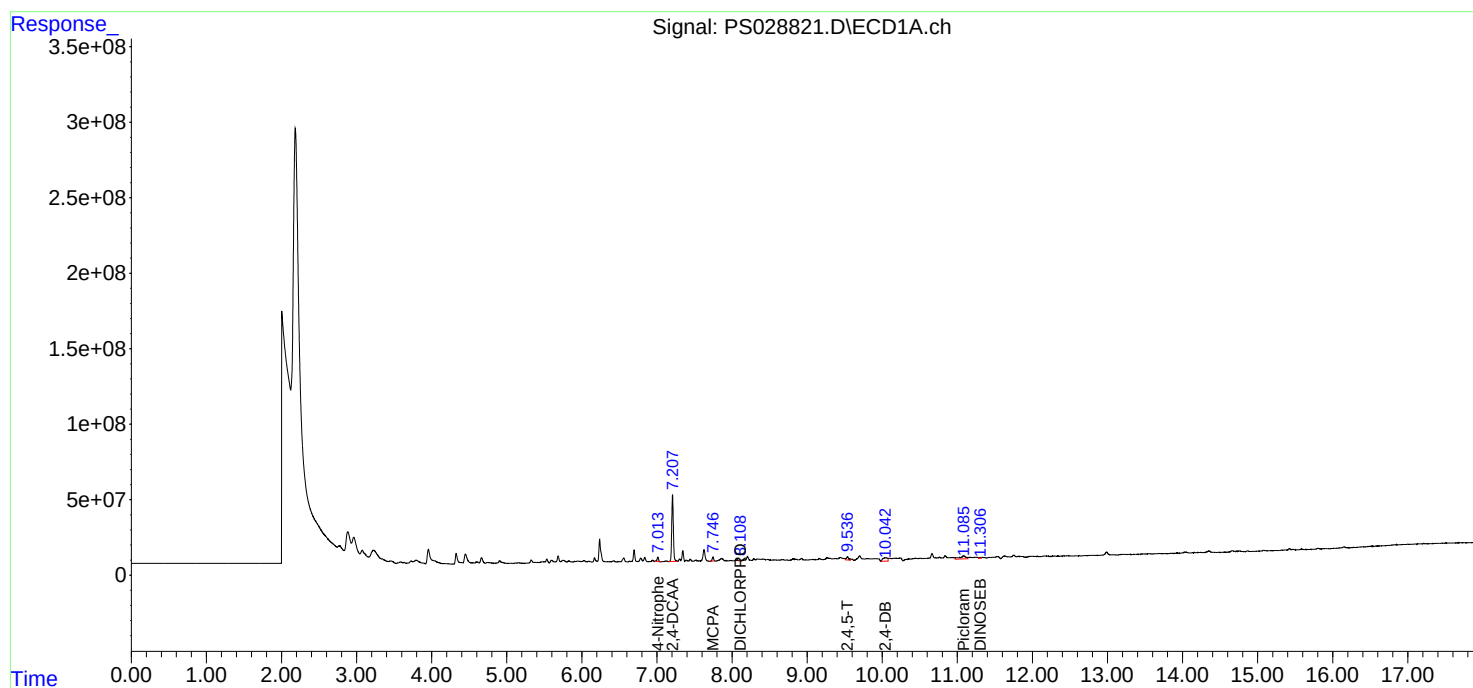
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

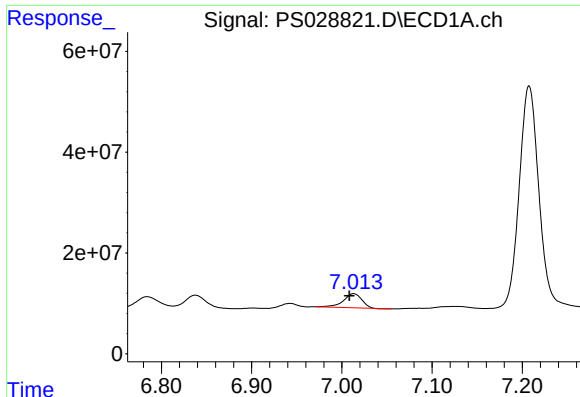
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028821.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 17:05
Operator : AR\AJ
Sample : P5306-13
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-13-121224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:42:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

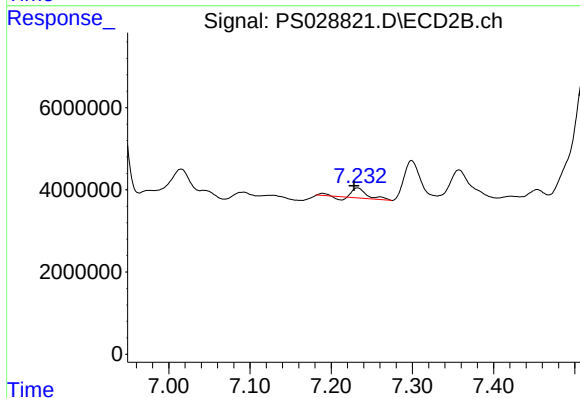




#3 4-Nitrophenol

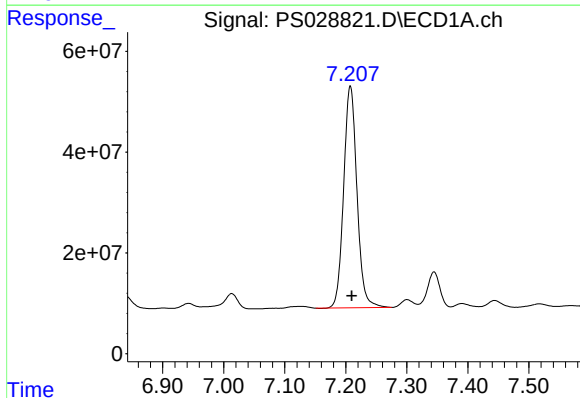
R.T.: 7.013 min
Delta R.T.: 0.005 min
Response: 39141827
Conc: 26.06 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-13-121224



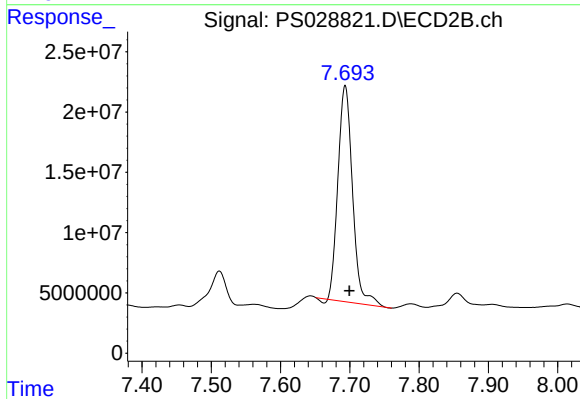
#3 4-Nitrophenol

R.T.: 7.232 min
Delta R.T.: 0.004 min
Response: 2713156
Conc: 3.24 ng/ml



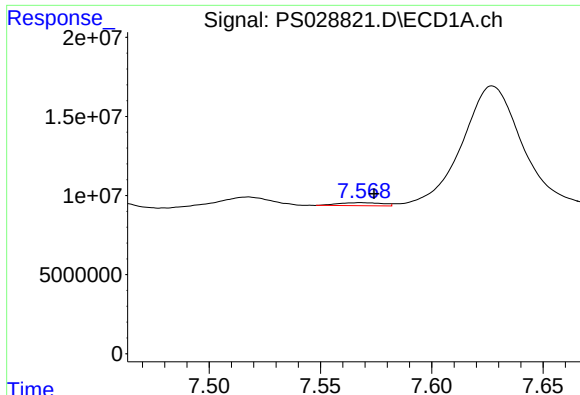
#4 2,4-DCAA

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 666735054
Conc: 294.75 ng/ml



#4 2,4-DCAA

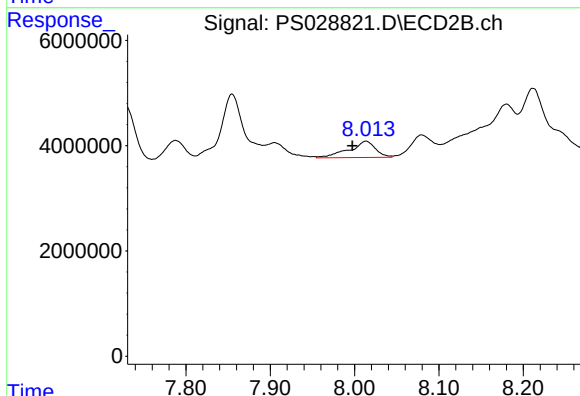
R.T.: 7.693 min
Delta R.T.: -0.006 min
Response: 261953495
Conc: 232.74 ng/ml



#6 MCP

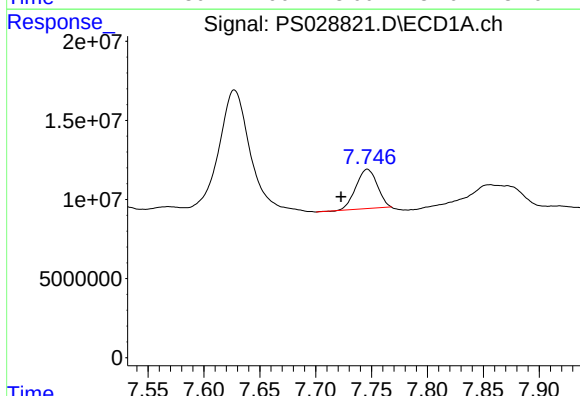
R.T.: 7.568 min
Delta R.T.: -0.006 min
Response: 2656004
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-13-121224



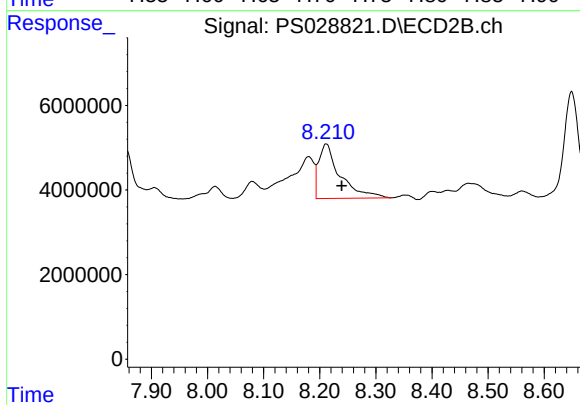
#6 MCP

R.T.: 8.014 min
Delta R.T.: 0.016 min
Response: 6775835
Conc: 2.07 ug/ml



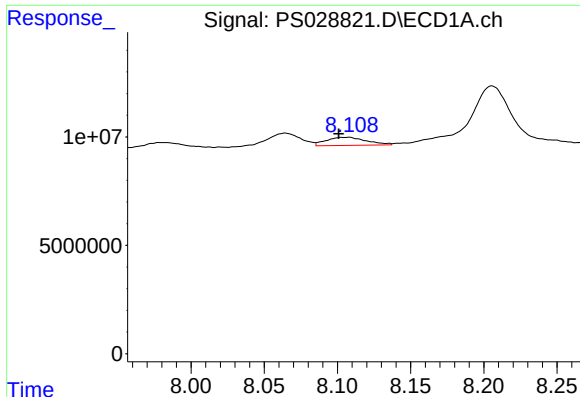
#7 MCP

R.T.: 7.746 min
Delta R.T.: 0.024 min
Response: 32850931
Conc: 3.75 ug/ml



#7 MCP

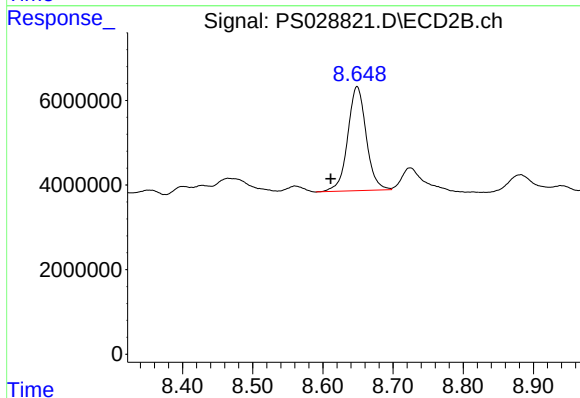
R.T.: 8.212 min
Delta R.T.: -0.028 min
Response: 34160147
Conc: 7.37 ug/ml



#8 DICHLORPROP

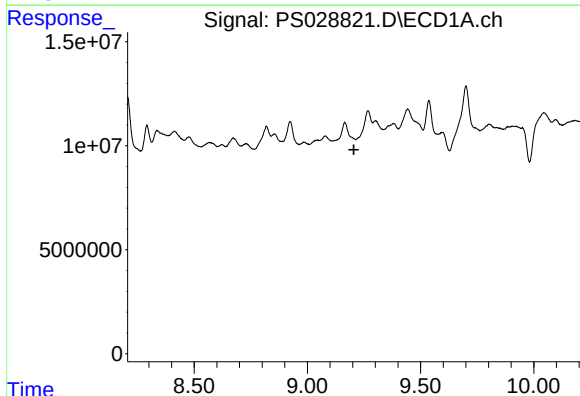
R.T.: 8.105 min
Delta R.T.: 0.004 min
Response: 7191304
Conc: 2.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-13-121224



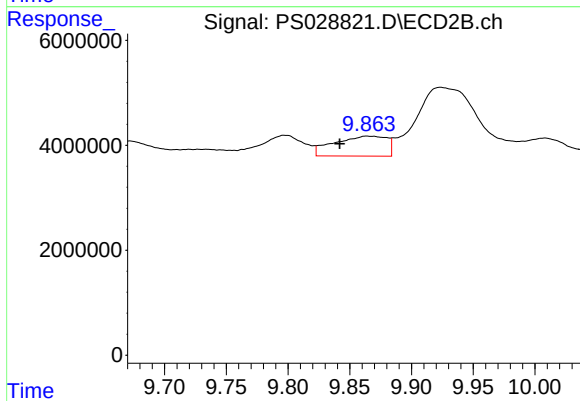
#8 DICHLORPROP

R.T.: 8.649 min
Delta R.T.: 0.038 min
Response: 45056247
Conc: 32.66 ng/ml



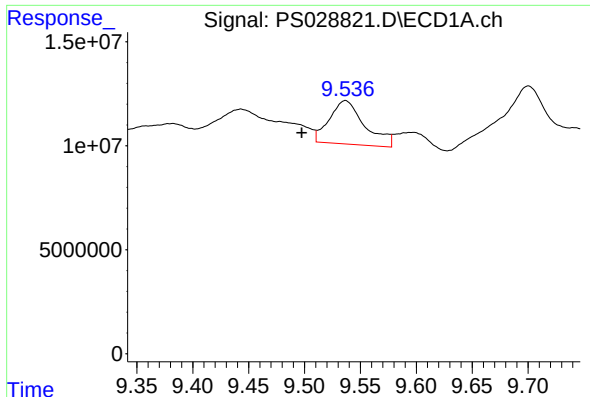
#11 2,4,5-TP (SILVEX)

R.T.: 0.000 min
Exp R.T. : 9.205 min
Response: 0
Conc: N.D.



#11 2,4,5-TP (SILVEX)

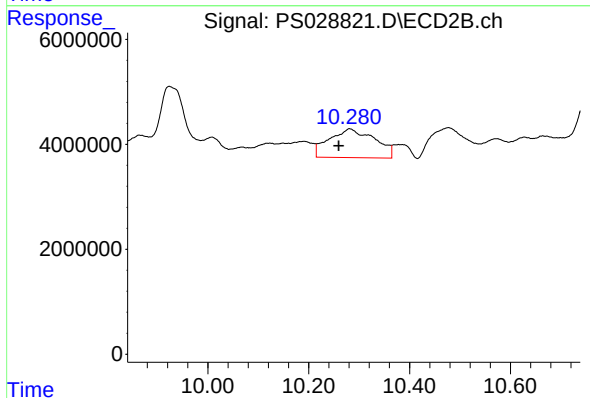
R.T.: 9.865 min
Delta R.T.: 0.024 min
Response: 11351702
Conc: 1.26 ng/ml



#12 2,4,5-T

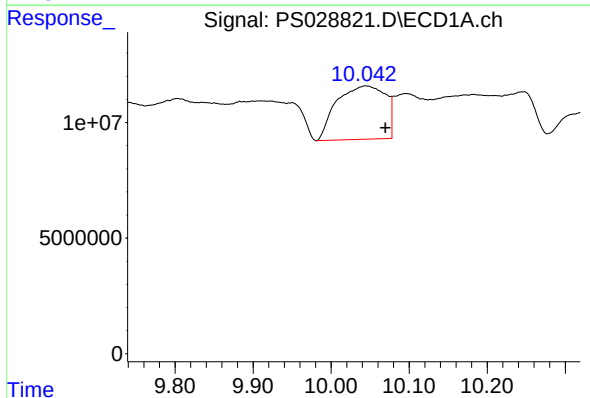
R.T.: 9.537 min
Delta R.T.: 0.039 min
Response: 45746451
Conc: 2.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-13-121224



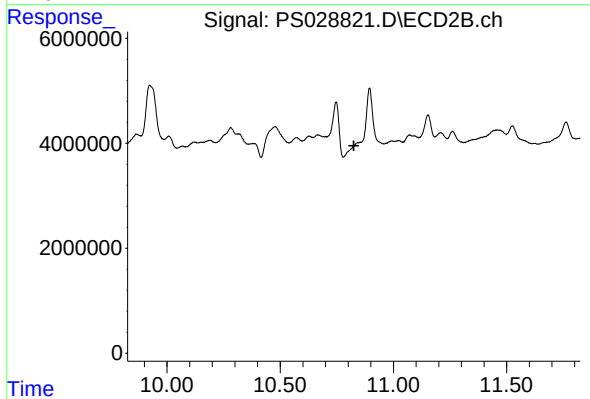
#12 2,4,5-T

R.T.: 10.281 min
Delta R.T.: 0.022 min
Response: 34475652
Conc: 3.96 ng/ml



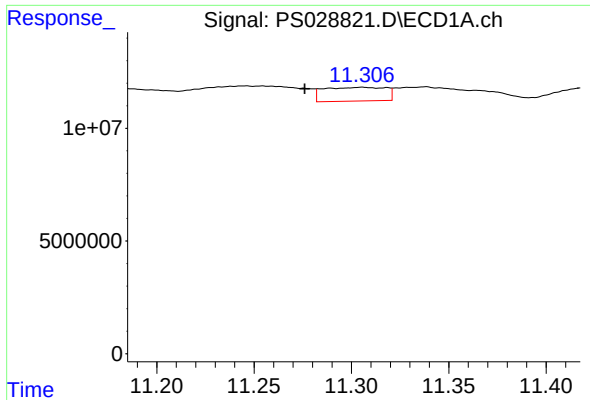
#13 2,4-DB

R.T.: 10.045 min
Delta R.T.: -0.025 min
Response: 100552518
Conc: 32.21 ng/ml



#13 2,4-DB

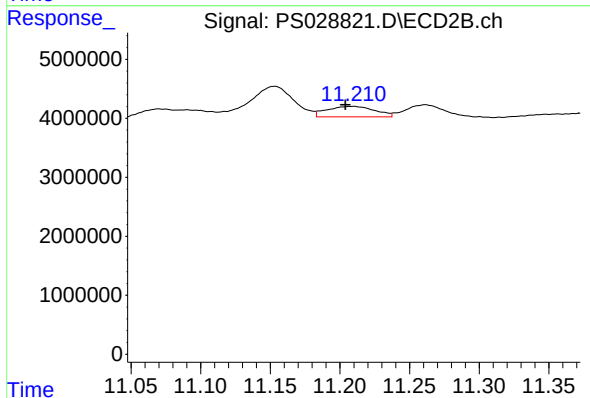
R.T.: 0.000 min
Exp R.T. : 10.826 min
Response: 0
Conc: N.D.



#14 DINoseb

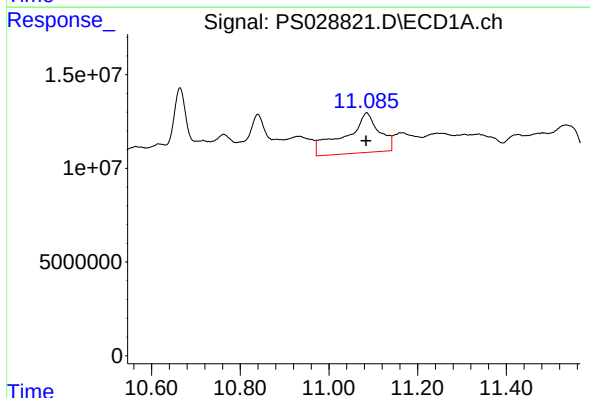
R.T.: 11.305 min
Delta R.T.: 0.029 min
Response: 13477088
Conc: 1.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-13-121224



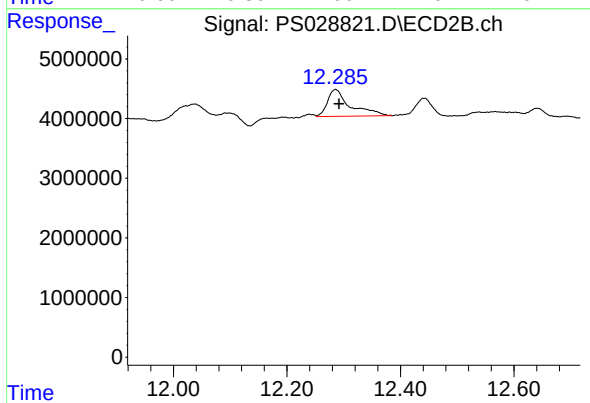
#14 DINoseb

R.T.: 11.209 min
Delta R.T.: 0.005 min
Response: 4238007
Conc: N.D.



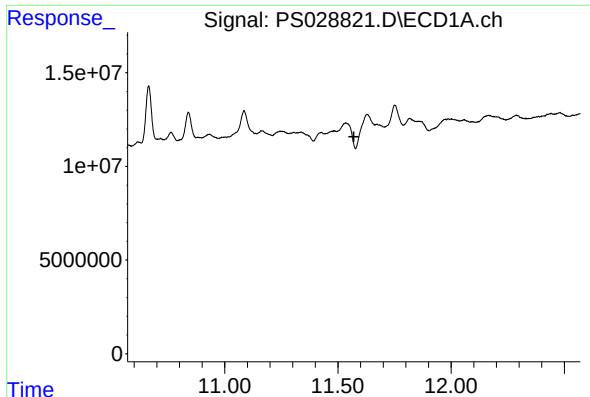
#15 Picloram

R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 114443236
Conc: 4.27 ng/ml



#15 Picloram

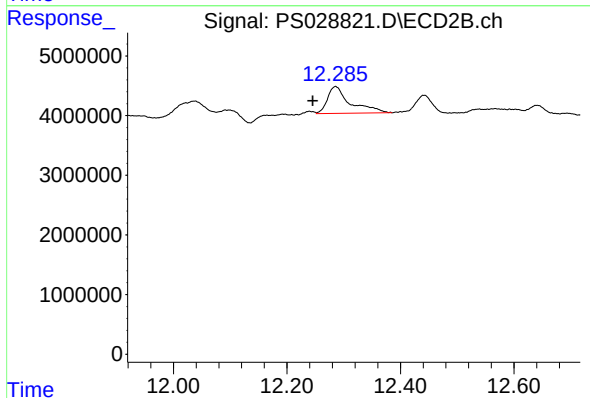
R.T.: 12.286 min
Delta R.T.: -0.006 min
Response: 12534485
Conc: N.D.



#16 DCPA

R.T.: 0.000 min
Exp R.T.: 11.570 min
Response: 0
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-13-121224



#16 DCPA

R.T.: 12.286 min
Delta R.T.: 0.040 min
Response: 12534485
Conc: 1.17 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028822.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 17:29
 Operator : AR\AJ
 Sample : P5306-15MS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-14-121224MS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:42:19 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.206	7.695	1145.7E6	465.9E6	506.491	413.942
Target Compounds							
1) T	Dalapon	2.620	2.675	807.9E6	1111.3E6	286.819	564.514 #
2) T	3,5-DICHL...	6.381	6.657	1261.5E6	512.8E6	382.828	309.372
3) T	4-Nitroph...	7.007	7.225	69003376	38867513	45.939	46.443
5) T	DICAMBA	7.391	7.892	4052.3E6	2020.2E6	410.956	367.979
6) T	MCPD	7.570	7.993	159.6E6	85197335	25.627	26.072
7) T	MCPA	7.719	8.235	277.8E6	166.7E6	31.689	35.977
8) T	DICHLORPROP	8.096	8.605	857.3E6	389.7E6	323.119	282.468
9) T	2,4-D	8.325	8.933	1303.1E6	577.0E6	457.306	399.804
10) T	Pentachlo...	8.623	9.458	8952.2E6	4153.5E6	229.151	190.539
11) T	2,4,5-TP ...	9.200	9.835	4130.7E6	2118.7E6	262.946	235.845
12) T	2,4,5-T	9.491	10.253	5334.3E6	2492.2E6	327.875	286.156
13) T	2,4-DB	10.064	10.818	1094.7E6	217.4E6	350.671	223.862 #
14) T	DINOSEB	11.268	11.197	987.7E6	308.6E6	73.480	50.101 #
15) T	Picloram	11.077	12.283	10143.1E6	4079.7E6	378.295	317.761
16) T	DCPA	11.560	12.237	9092.5E6	4937.0E6	378.049	459.491

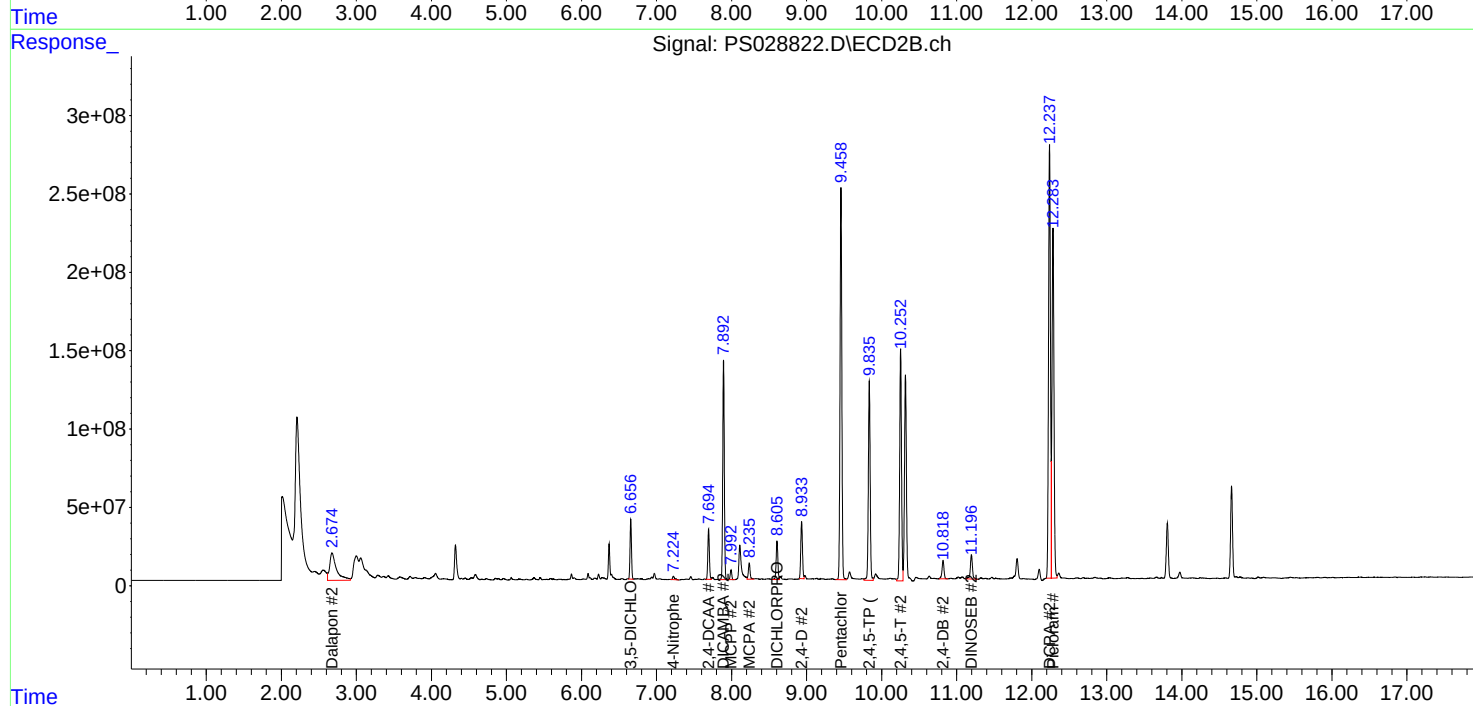
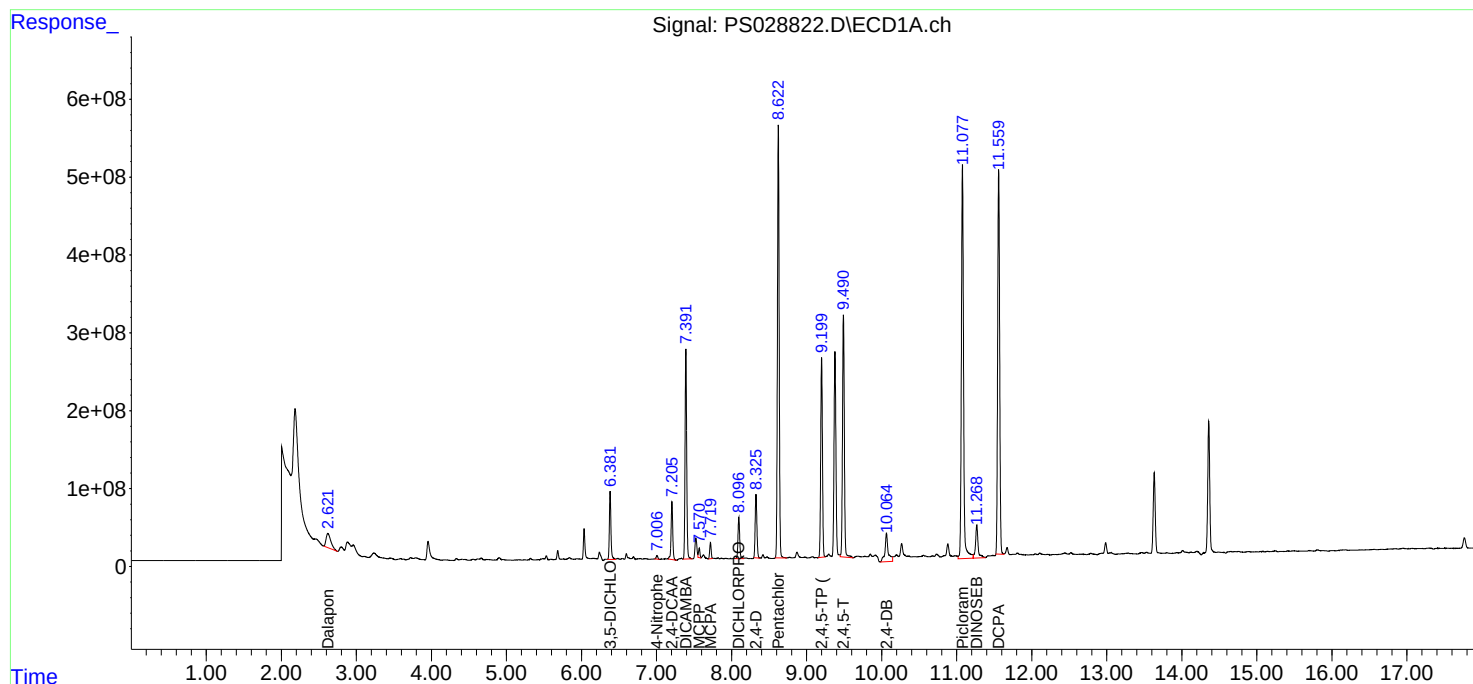
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

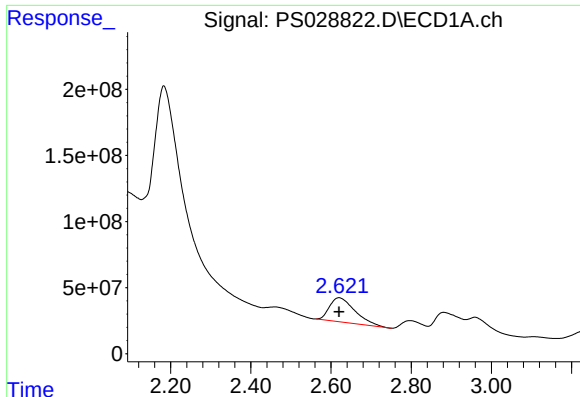
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028822.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 17:29
Operator : AR\AJ
Sample : P5306-15MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:42:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

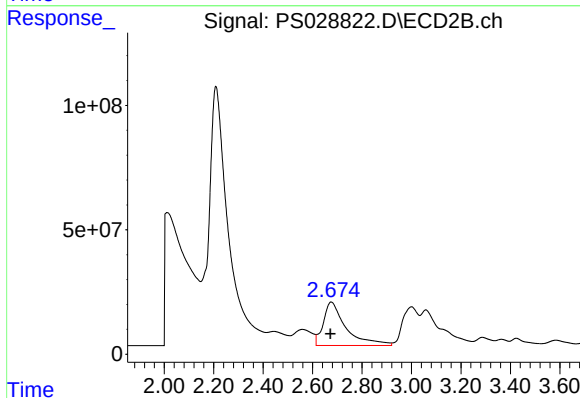




#1 Dalapon

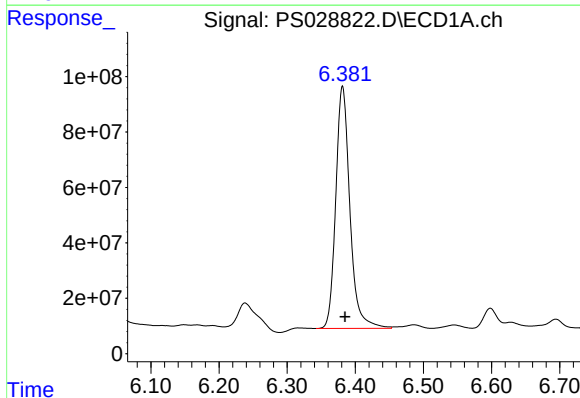
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 807868514
Conc: 286.82 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS



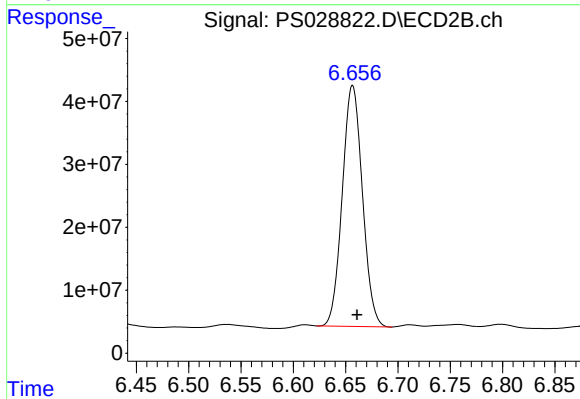
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 1111303941
Conc: 564.51 ng/ml



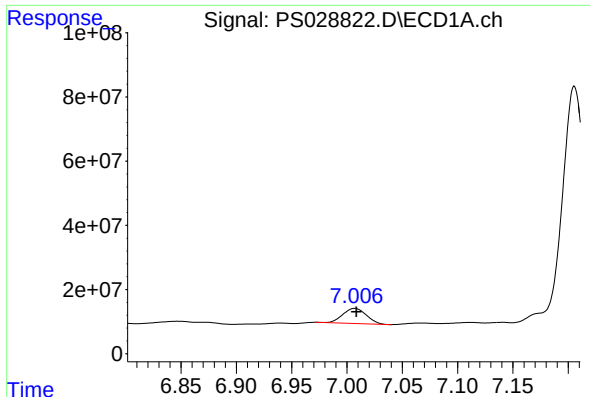
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1261470680
Conc: 382.83 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

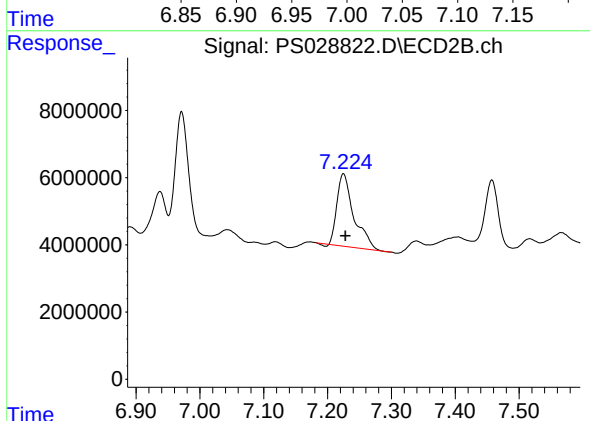
R.T.: 6.657 min
Delta R.T.: -0.004 min
Response: 512806680
Conc: 309.37 ng/ml



#3 4-Nitrophenol

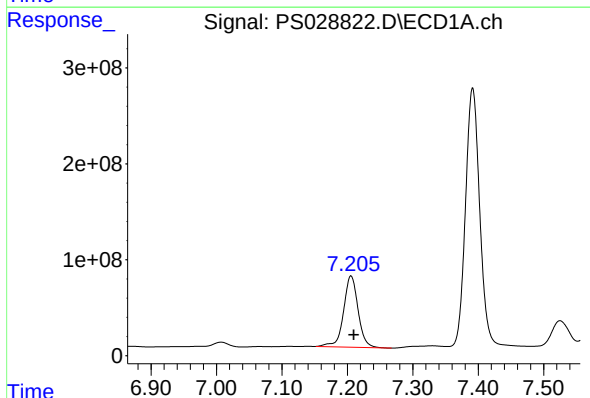
R.T.: 7.007 min
Delta R.T.: -0.002 min
Response: 69003376
Conc: 45.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS



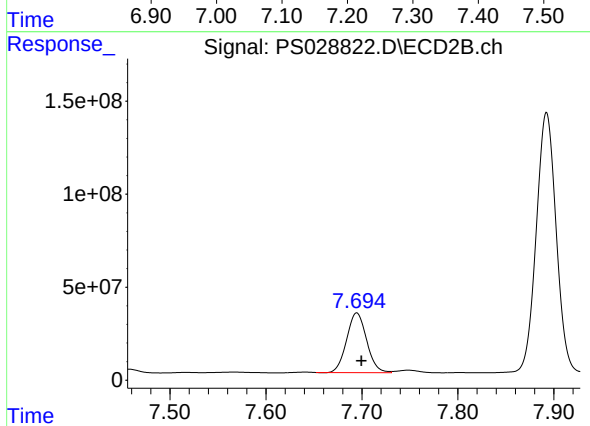
#3 4-Nitrophenol

R.T.: 7.225 min
Delta R.T.: -0.003 min
Response: 38867513
Conc: 46.44 ng/ml



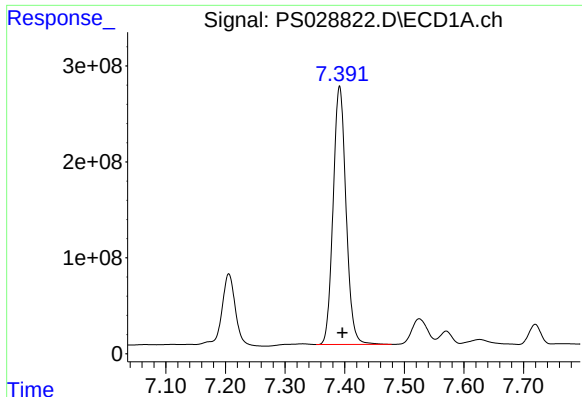
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1145696032
Conc: 506.49 ng/ml



#4 2,4-DCAA

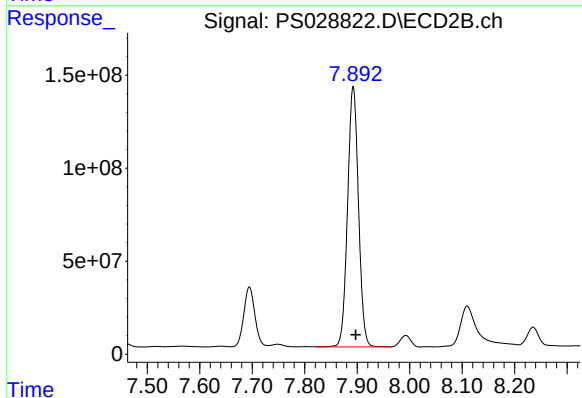
R.T.: 7.695 min
Delta R.T.: -0.005 min
Response: 465907611
Conc: 413.94 ng/ml



#5 DICAMBA

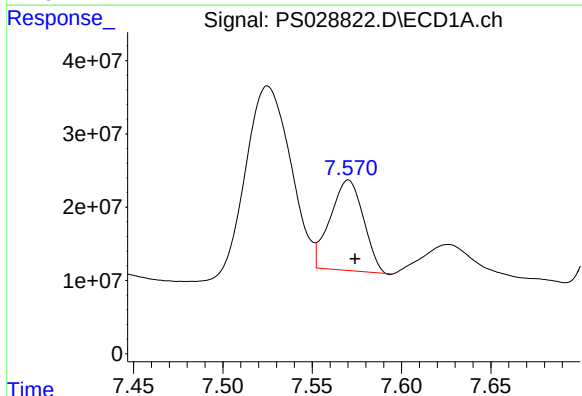
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 4052291622
Conc: 410.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS



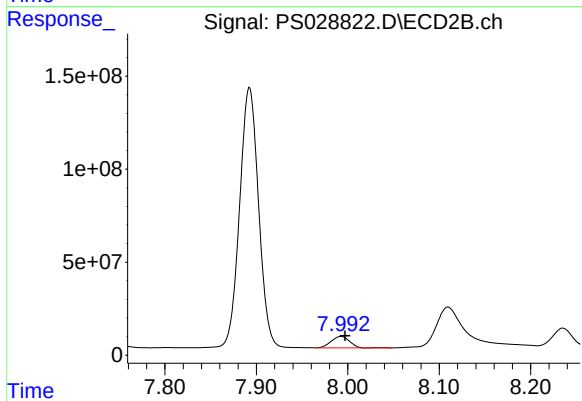
#5 DICAMBA

R.T.: 7.892 min
Delta R.T.: -0.005 min
Response: 2020157156
Conc: 367.98 ng/ml



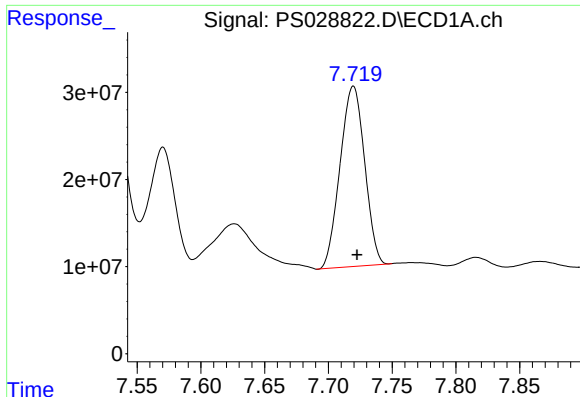
#6 MCP

R.T.: 7.570 min
Delta R.T.: -0.004 min
Response: 159583738
Conc: 25.63 ug/ml



#6 MCP

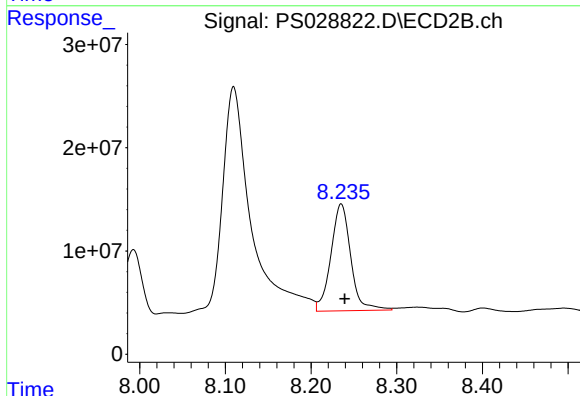
R.T.: 7.993 min
Delta R.T.: -0.005 min
Response: 85197335
Conc: 26.07 ug/ml



#7 MCPA

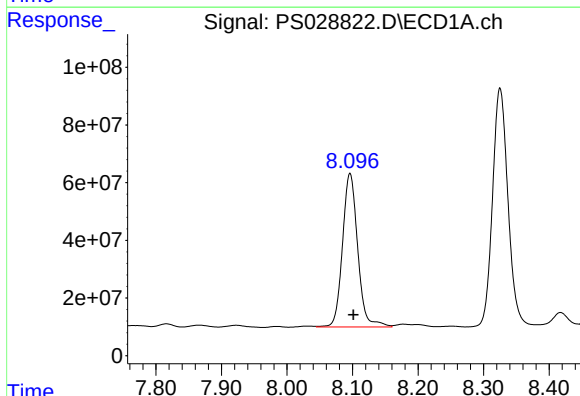
R.T.: 7.719 min
Delta R.T.: -0.003 min
Response: 277764389
Conc: 31.69 ug/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS



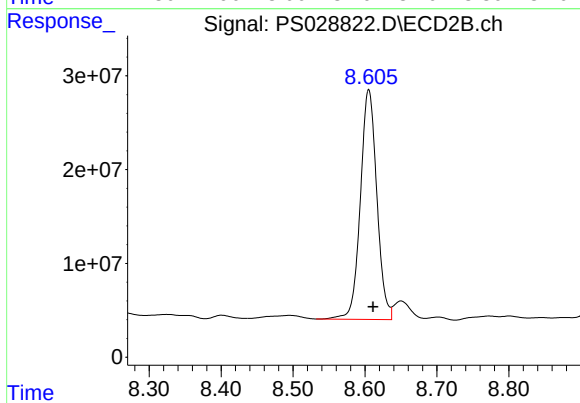
#7 MCPA

R.T.: 8.235 min
Delta R.T.: -0.004 min
Response: 166676489
Conc: 35.98 ug/ml



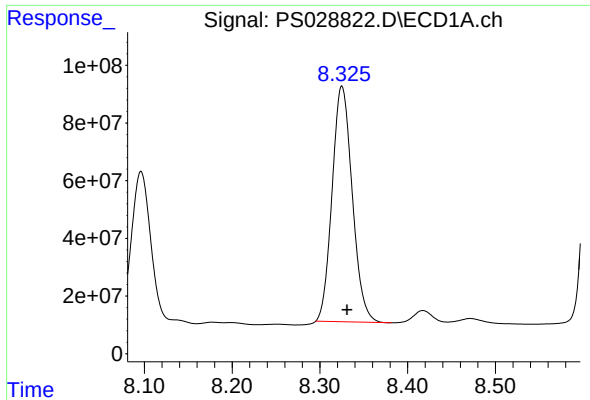
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 857292966
Conc: 323.12 ng/ml



#8 DICHLORPROP

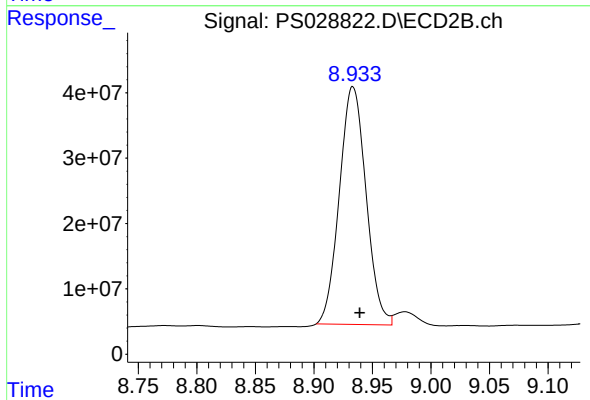
R.T.: 8.605 min
Delta R.T.: -0.006 min
Response: 389709638
Conc: 282.47 ng/ml



#9 2,4-D

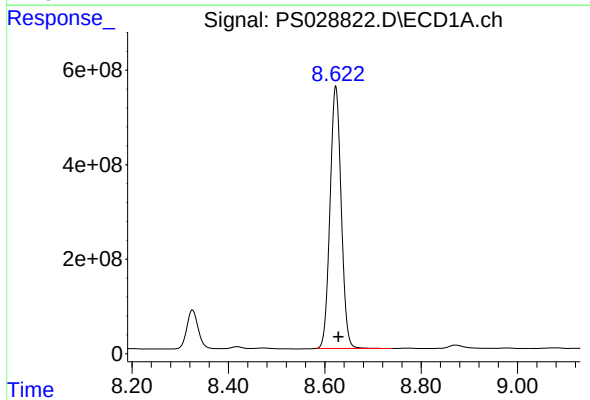
R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 1303109684
Conc: 457.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS



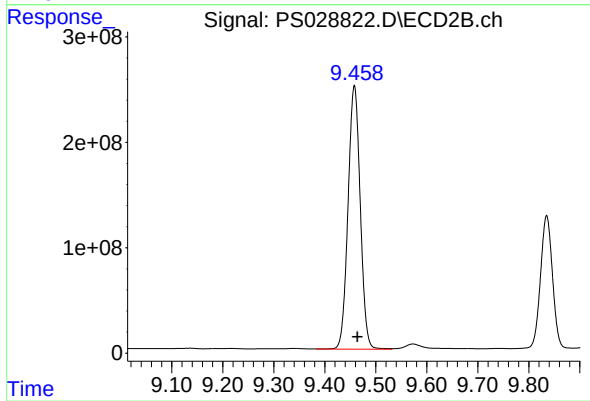
#9 2,4-D

R.T.: 8.933 min
Delta R.T.: -0.006 min
Response: 576975012
Conc: 399.80 ng/ml



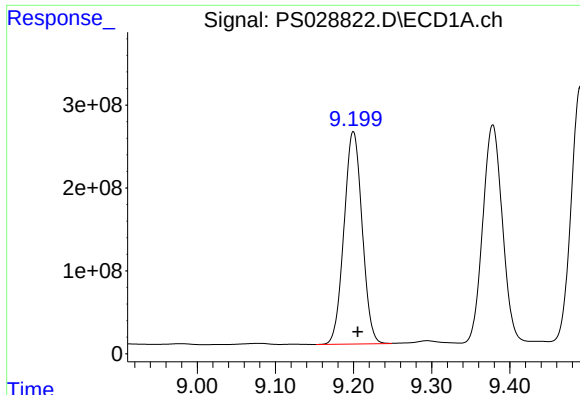
#10 Pentachlorophenol

R.T.: 8.623 min
Delta R.T.: -0.005 min
Response: 8952240513
Conc: 229.15 ng/ml



#10 Pentachlorophenol

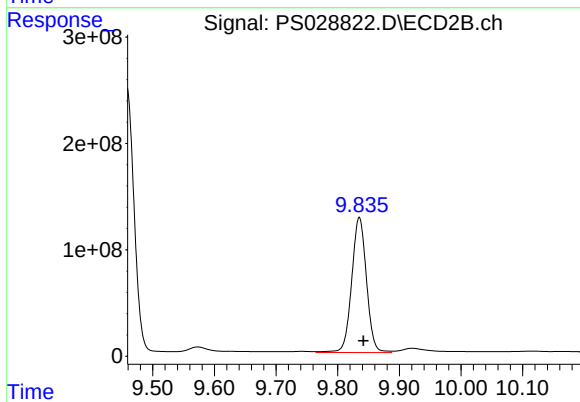
R.T.: 9.458 min
Delta R.T.: -0.006 min
Response: 4153515275
Conc: 190.54 ng/ml



#11 2,4,5-TP (SILVEX)

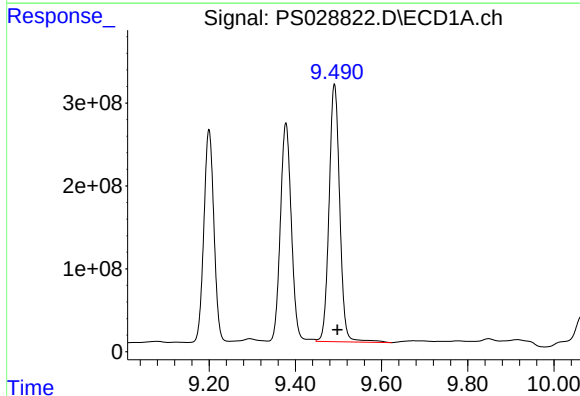
R.T.: 9.200 min
Delta R.T.: -0.006 min
Response: 4130706060
Conc: 262.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS



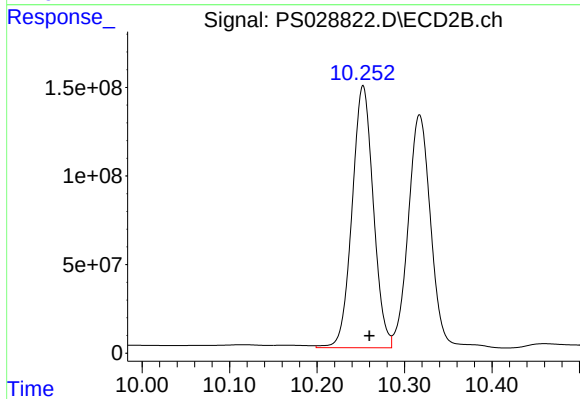
#11 2,4,5-TP (SILVEX)

R.T.: 9.835 min
Delta R.T.: -0.007 min
Response: 2118714928
Conc: 235.84 ng/ml



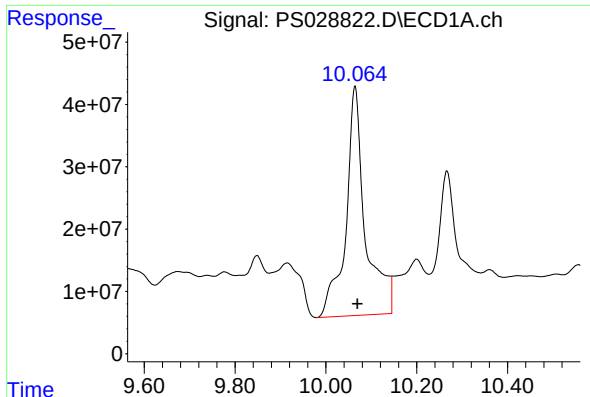
#12 2,4,5-T

R.T.: 9.491 min
Delta R.T.: -0.007 min
Response: 5334260084
Conc: 327.87 ng/ml



#12 2,4,5-T

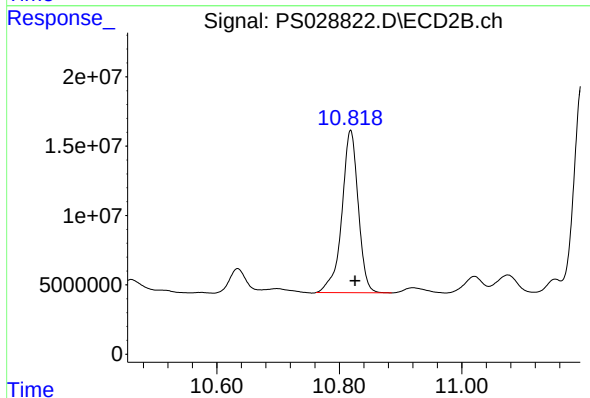
R.T.: 10.253 min
Delta R.T.: -0.007 min
Response: 2492185834
Conc: 286.16 ng/ml



#13 2,4-DB

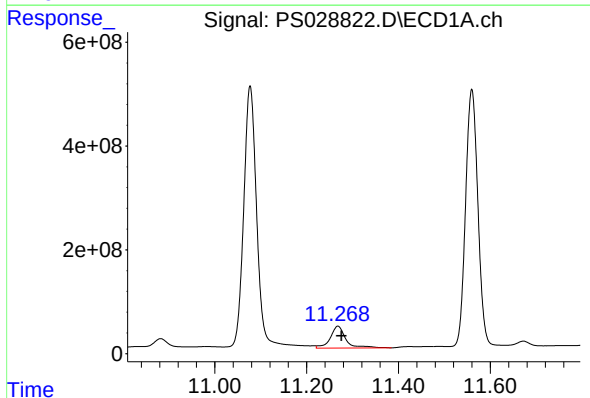
R.T.: 10.064 min
Delta R.T.: -0.005 min
Response: 1094653087
Conc: 350.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS



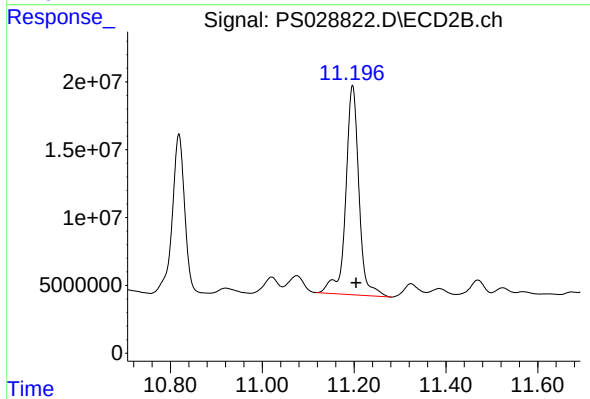
#13 2,4-DB

R.T.: 10.818 min
Delta R.T.: -0.007 min
Response: 217392170
Conc: 223.86 ng/ml



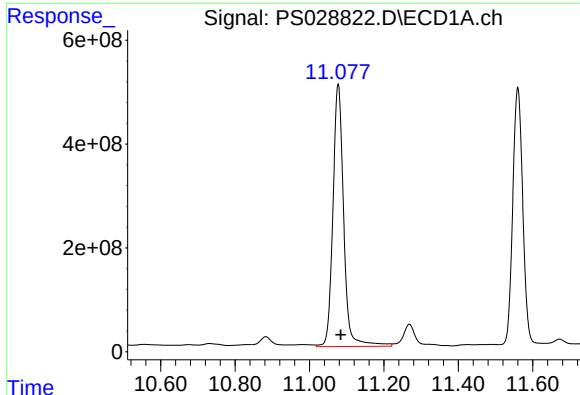
#14 DINOSEB

R.T.: 11.268 min
Delta R.T.: -0.008 min
Response: 987697998
Conc: 73.48 ng/ml



#14 DINOSEB

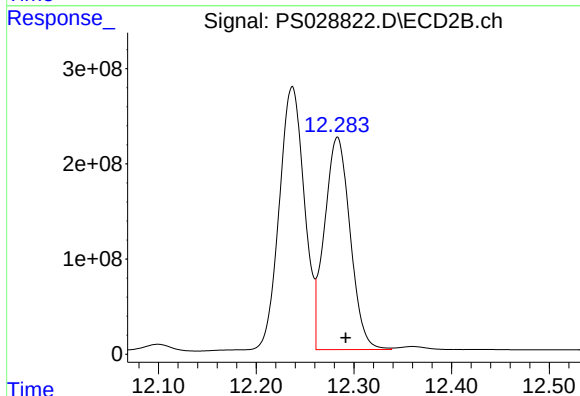
R.T.: 11.197 min
Delta R.T.: -0.007 min
Response: 308578838
Conc: 50.10 ng/ml



#15 Picloram

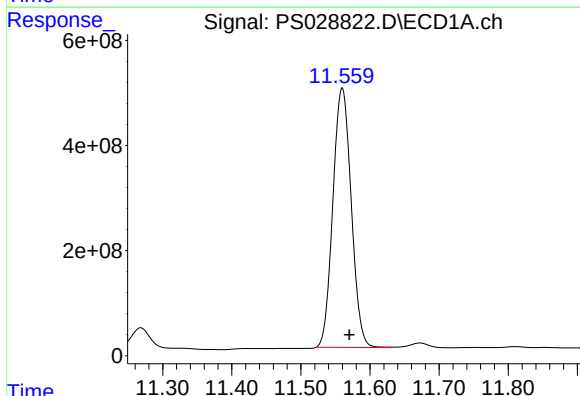
R.T.: 11.077 min
Delta R.T.: -0.007 min
Response: 10143129588
Conc: 378.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MS



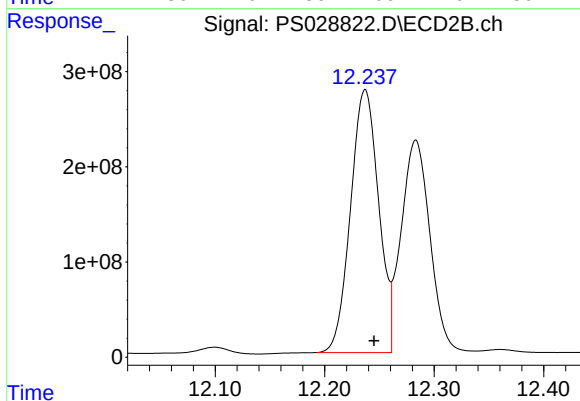
#15 Picloram

R.T.: 12.283 min
Delta R.T.: -0.009 min
Response: 4079739156
Conc: 317.76 ng/ml



#16 DCPA

R.T.: 11.560 min
Delta R.T.: -0.010 min
Response: 9092469995
Conc: 378.05 ng/ml



#16 DCPA

R.T.: 12.237 min
Delta R.T.: -0.008 min
Response: 4937040029
Conc: 459.49 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
 Data File : PS028823.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Dec 2024 17:52
 Operator : AR\AJ
 Sample : P5306-15MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 OU4-VSL-14-121224MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 27 02:42:38 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.206	7.696	1146.6E6	464.3E6	506.912	412.525
Target Compounds							
1) T	Dalapon	2.621	2.676	822.3E6	1107.4E6	291.949	562.545 #
2) T	3,5-DICHL...	6.381	6.658	1257.8E6	513.6E6	381.713	309.879
3) T	4-Nitroph...	7.007	7.226	68581080	39140022	45.658	46.768
5) T	DICAMBA	7.392	7.893	4043.5E6	2022.6E6	410.066	368.422
6) T	MCPD	7.570	7.994	163.3E6	86254950	26.225	26.395
7) T	MCPA	7.720	8.236	277.4E6	166.7E6	31.643	35.984
8) T	DICHLORPROP	8.096	8.606	856.7E6	388.9E6	322.907	281.890
9) T	2,4-D	8.326	8.935	1297.8E6	580.5E6	455.445	402.275
10) T	Pentachlo...	8.623	9.459	8934.8E6	4170.0E6	228.705	191.294
11) T	2,4,5-TP ...	9.199	9.836	4119.7E6	2121.3E6	262.247	236.127
12) T	2,4,5-T	9.490	10.254	5335.7E6	2491.1E6	327.961	286.033
13) T	2,4-DB	10.064	10.819	1094.0E6	217.8E6	350.464	224.268 #
14) T	DINOSEB	11.267	11.198	1007.3E6	311.6E6	74.938	50.587 #
15) T	Picloram	11.077	12.284	10108.0E6	4098.7E6	376.983	319.240
16) T	DCPA	11.560	12.237	9039.3E6	4946.5E6	375.839	460.374

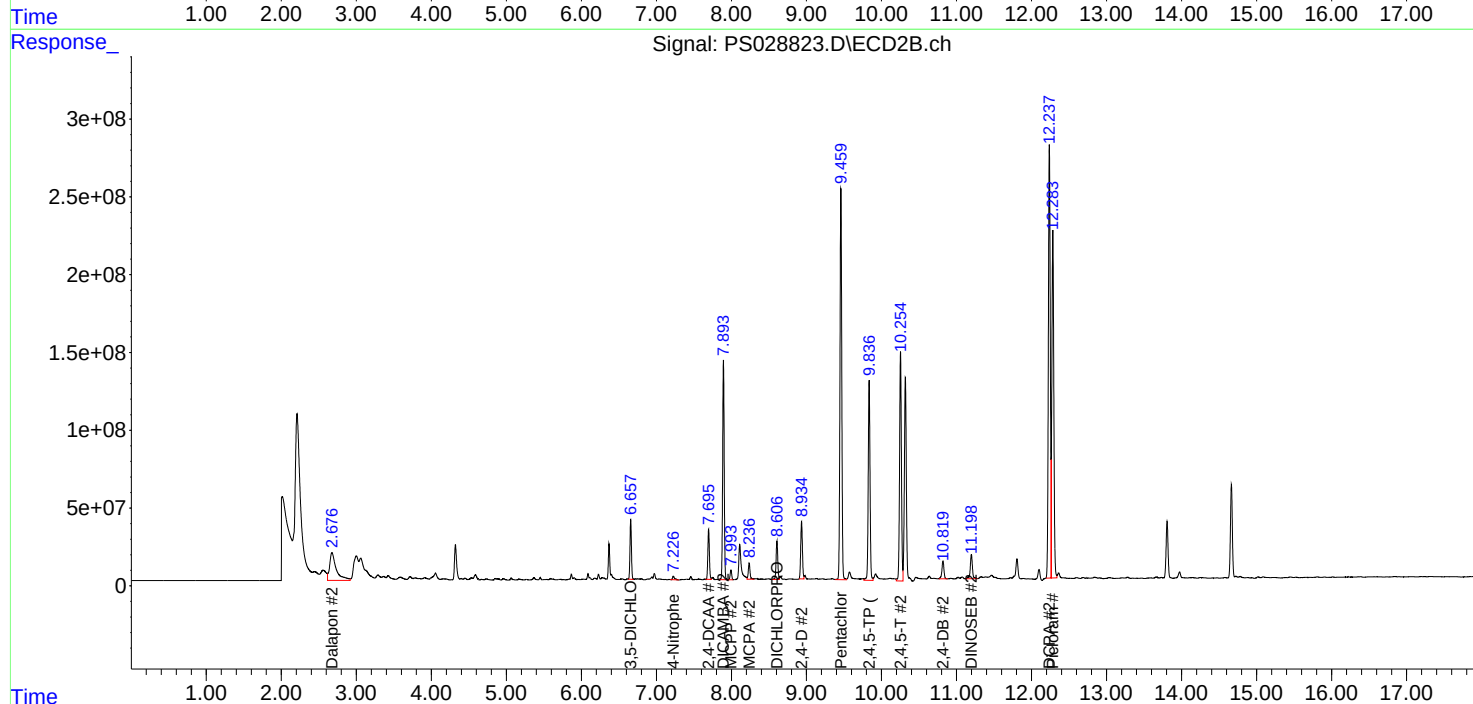
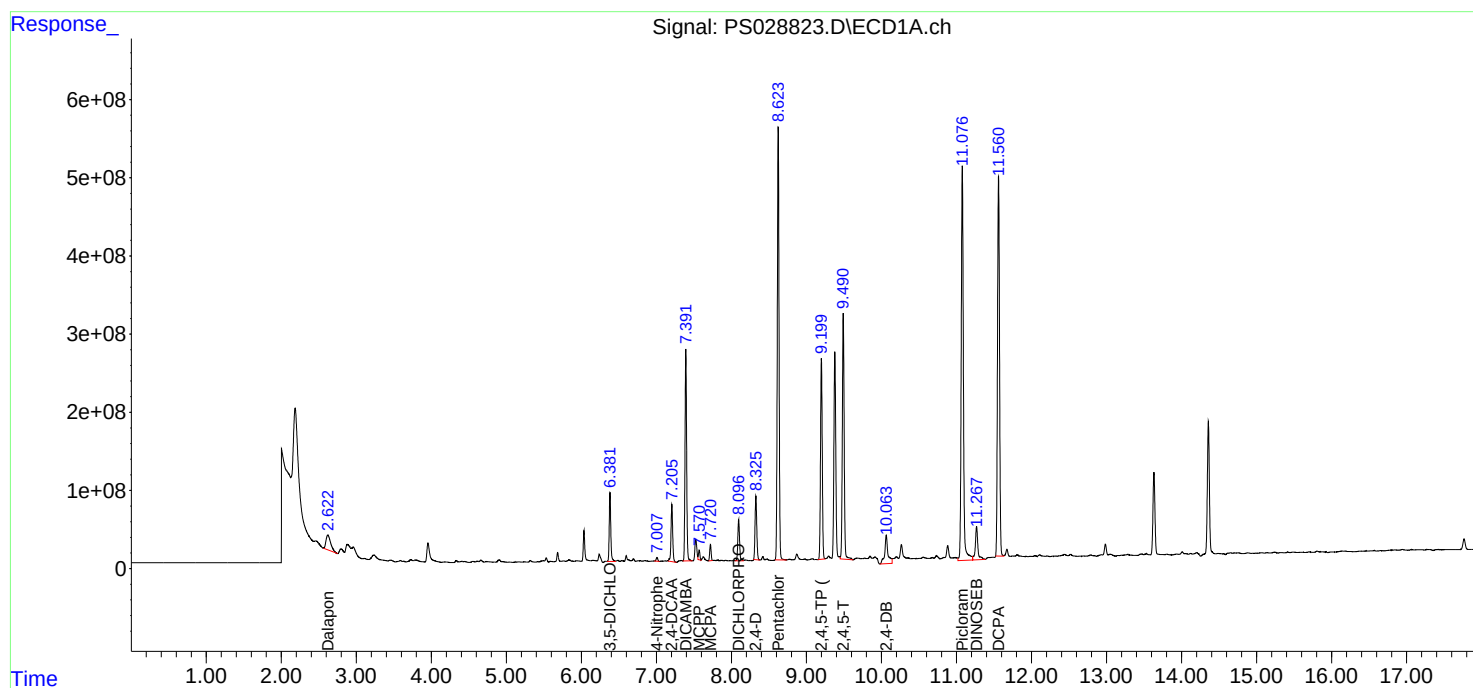
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

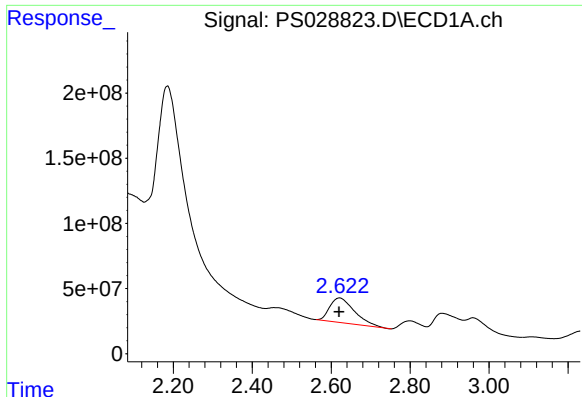
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122624\
Data File : PS028823.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Dec 2024 17:52
Operator : AR\AJ
Sample : P5306-15MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 27 02:42:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

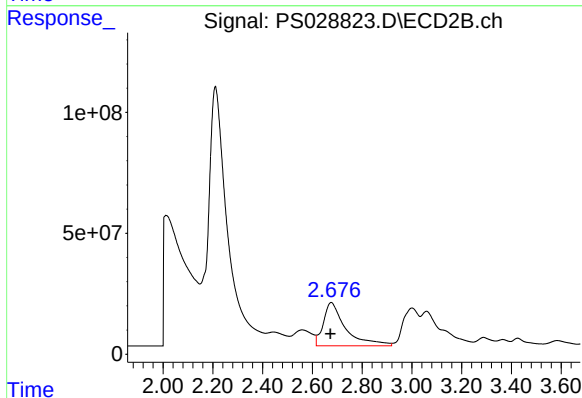




#1 Dalapon

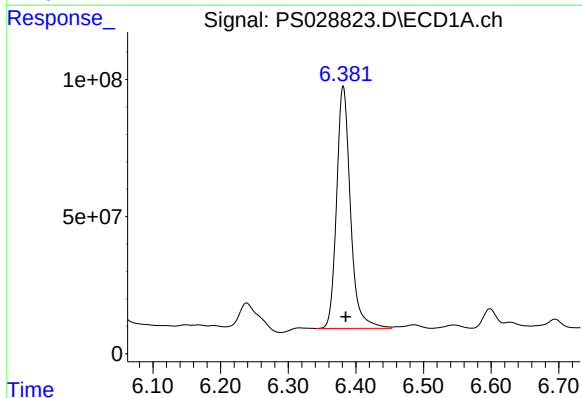
R.T.: 2.621 min
Delta R.T.: 0.000 min
Response: 822319593
Conc: 291.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD



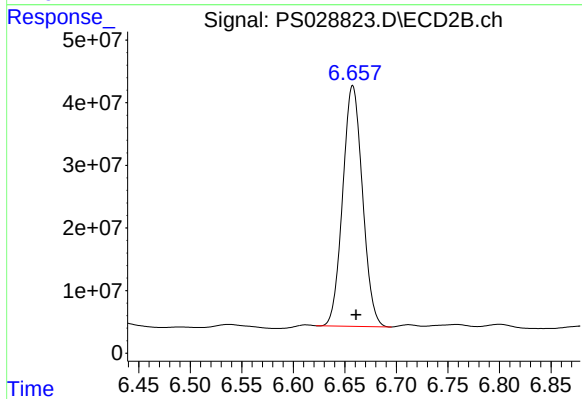
#1 Dalapon

R.T.: 2.676 min
Delta R.T.: 0.003 min
Response: 1107427532
Conc: 562.55 ng/ml



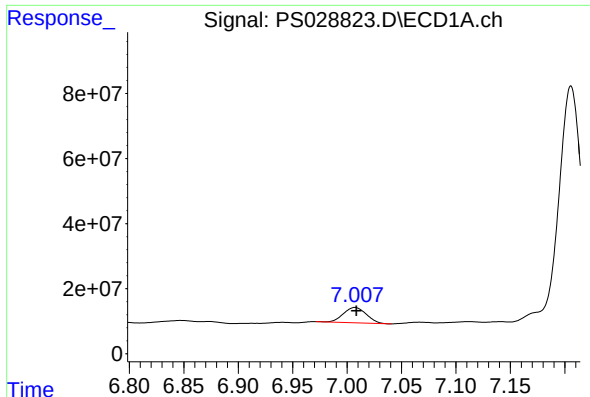
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1257797079
Conc: 381.71 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

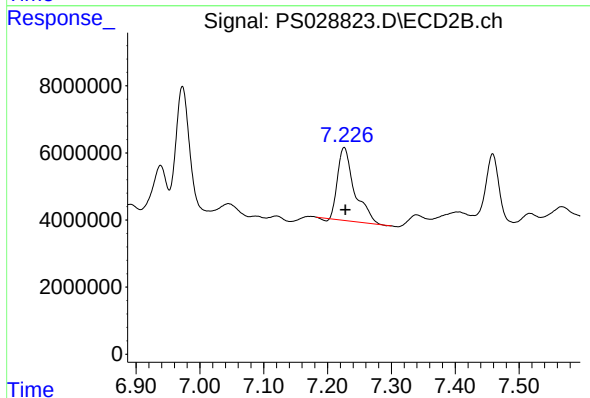
R.T.: 6.658 min
Delta R.T.: -0.003 min
Response: 513647497
Conc: 309.88 ng/ml



#3 4-Nitrophenol

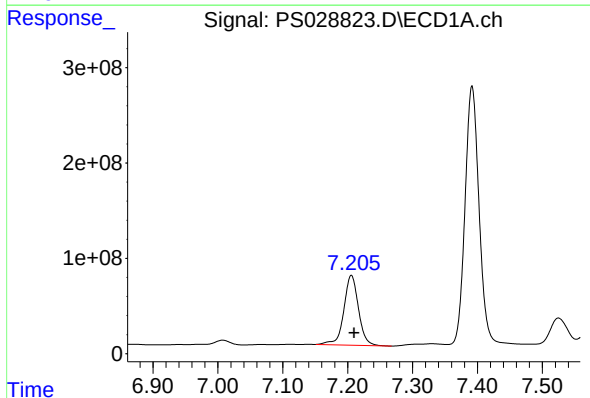
R.T.: 7.007 min
Delta R.T.: -0.001 min
Response: 68581080
Conc: 45.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD



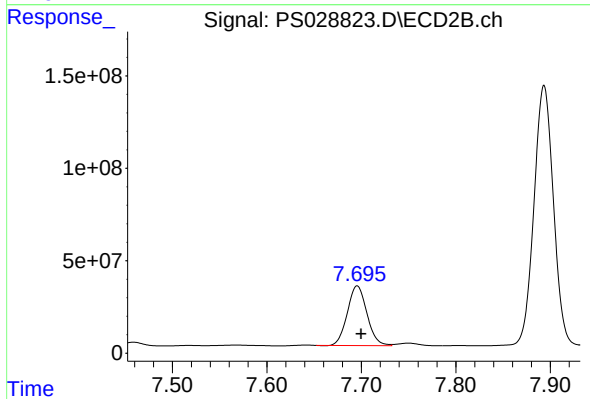
#3 4-Nitrophenol

R.T.: 7.226 min
Delta R.T.: -0.002 min
Response: 39140022
Conc: 46.77 ng/ml



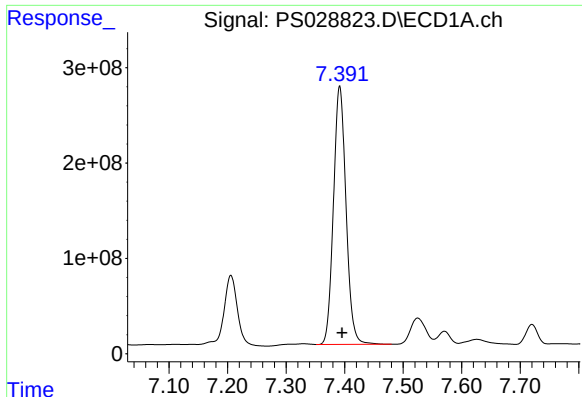
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1146648447
Conc: 506.91 ng/ml



#4 2,4-DCAA

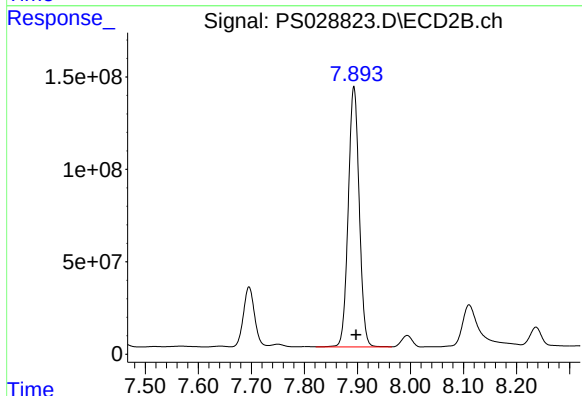
R.T.: 7.696 min
Delta R.T.: -0.004 min
Response: 464311991
Conc: 412.52 ng/ml



#5 DICAMBA

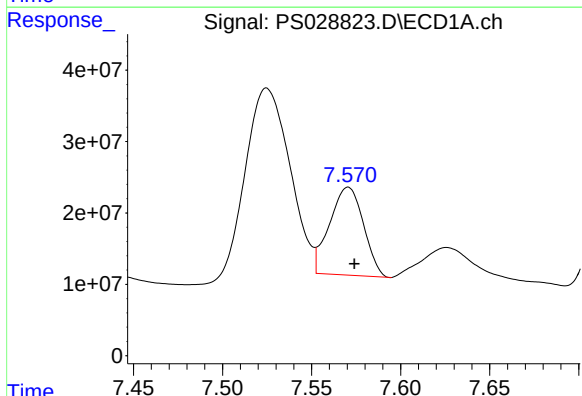
R.T.: 7.392 min
Delta R.T.: -0.004 min
Response: 4043513847
Conc: 410.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD



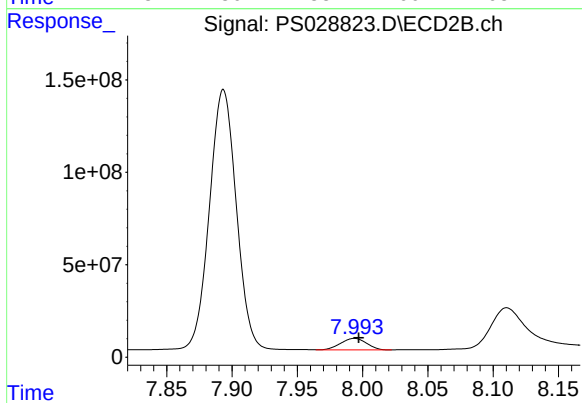
#5 DICAMBA

R.T.: 7.893 min
Delta R.T.: -0.004 min
Response: 2022591767
Conc: 368.42 ng/ml



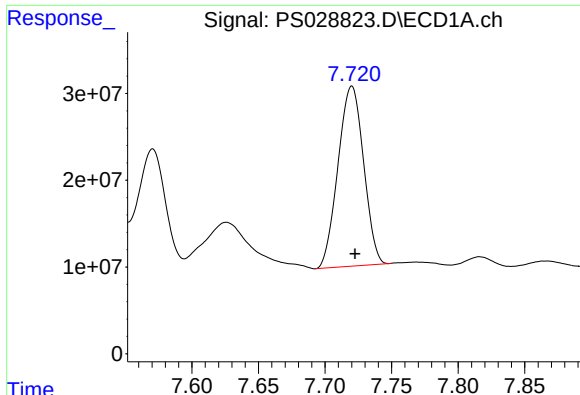
#6 MCP

R.T.: 7.570 min
Delta R.T.: -0.004 min
Response: 163305560
Conc: 26.22 ug/ml



#6 MCP

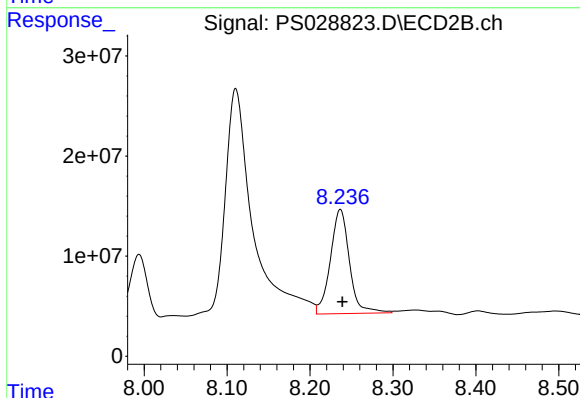
R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 86254950
Conc: 26.40 ug/ml



#7 MCPA

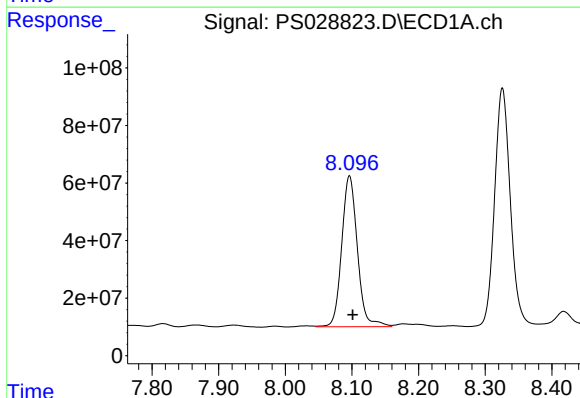
R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 277369270
Conc: 31.64 ug/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD



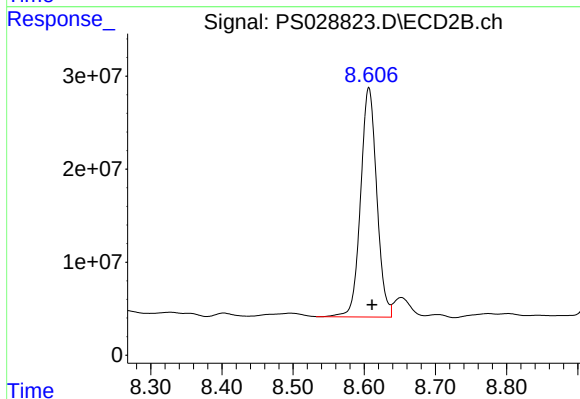
#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 166711194
Conc: 35.98 ug/ml



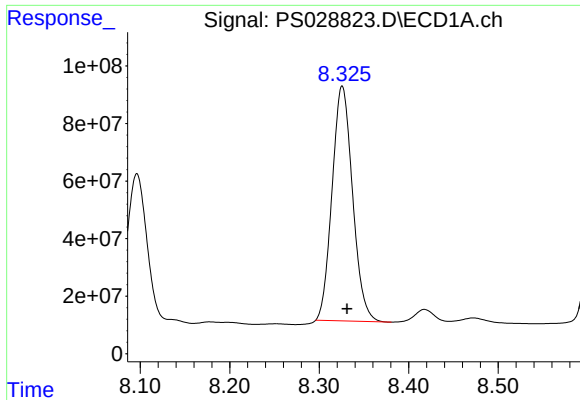
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 856728787
Conc: 322.91 ng/ml



#8 DICHLORPROP

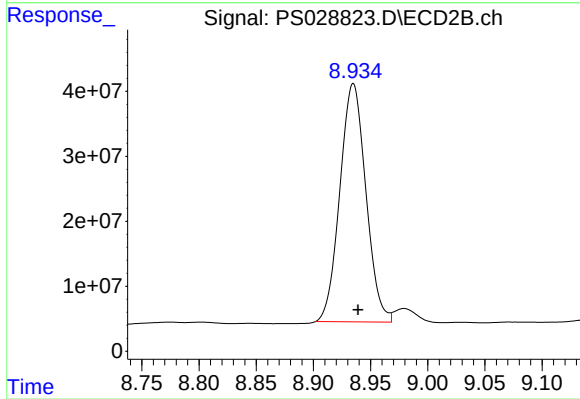
R.T.: 8.606 min
Delta R.T.: -0.005 min
Response: 388912099
Conc: 281.89 ng/ml



#9 2,4-D

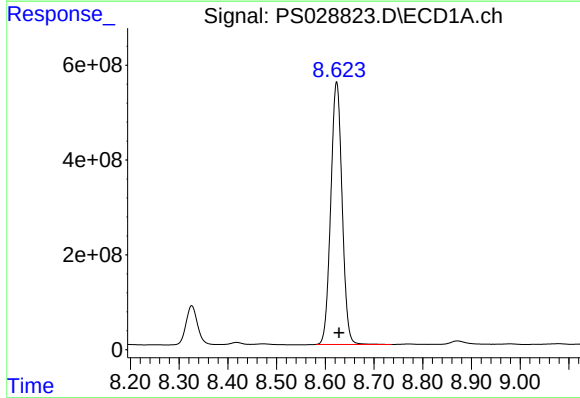
R.T.: 8.326 min
Delta R.T.: -0.005 min
Response: 1297804841
Conc: 455.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD



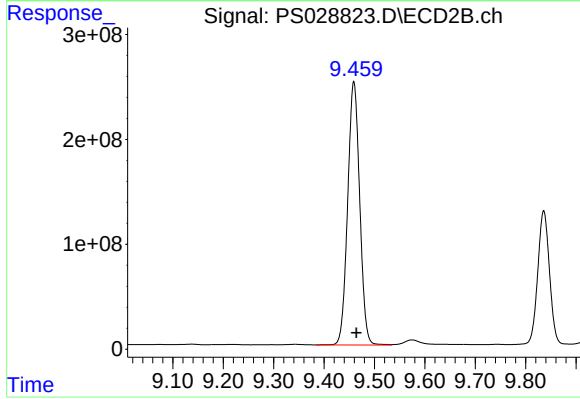
#9 2,4-D

R.T.: 8.935 min
Delta R.T.: -0.004 min
Response: 580541664
Conc: 402.28 ng/ml



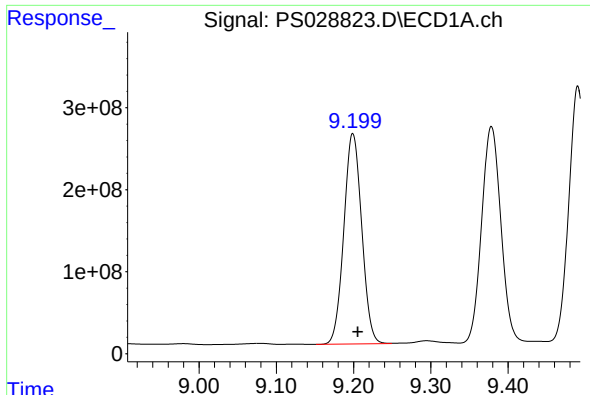
#10 Pentachlorophenol

R.T.: 8.623 min
Delta R.T.: -0.005 min
Response: 8934826434
Conc: 228.71 ng/ml



#10 Pentachlorophenol

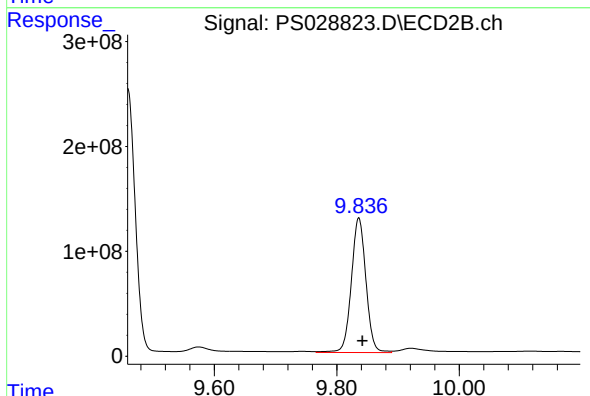
R.T.: 9.459 min
Delta R.T.: -0.005 min
Response: 4169959365
Conc: 191.29 ng/ml



#11 2,4,5-TP (SILVEX)

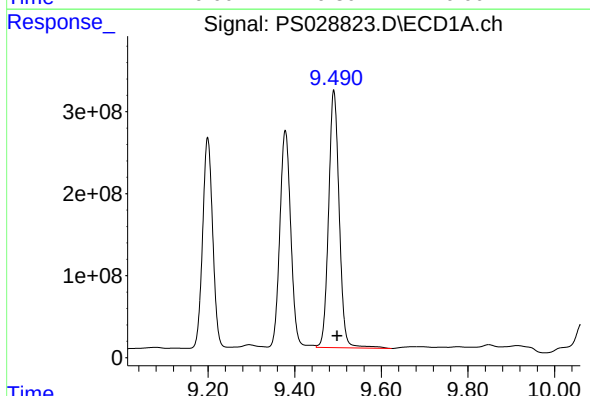
R.T.: 9.199 min
Delta R.T.: -0.006 min
Response: 4119730257
Conc: 262.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD



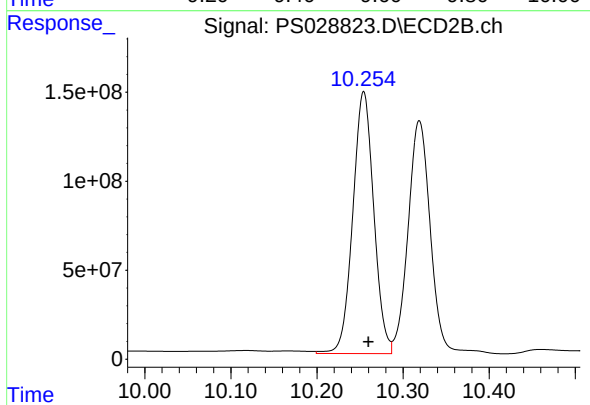
#11 2,4,5-TP (SILVEX)

R.T.: 9.836 min
Delta R.T.: -0.006 min
Response: 2121253591
Conc: 236.13 ng/ml



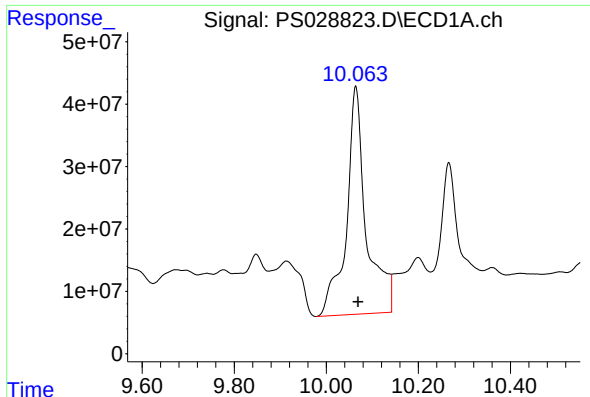
#12 2,4,5-T

R.T.: 9.490 min
Delta R.T.: -0.007 min
Response: 5335661881
Conc: 327.96 ng/ml



#12 2,4,5-T

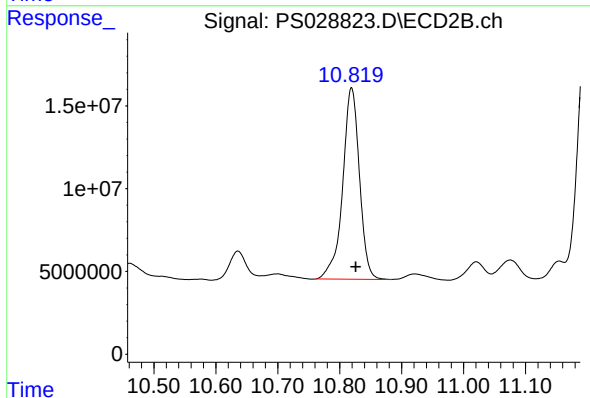
R.T.: 10.254 min
Delta R.T.: -0.006 min
Response: 2491110696
Conc: 286.03 ng/ml



#13 2,4-DB

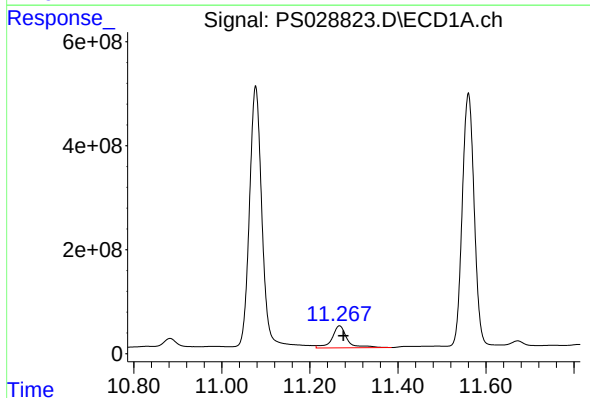
R.T.: 10.064 min
Delta R.T.: -0.005 min
Response: 1094008760
Conc: 350.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD



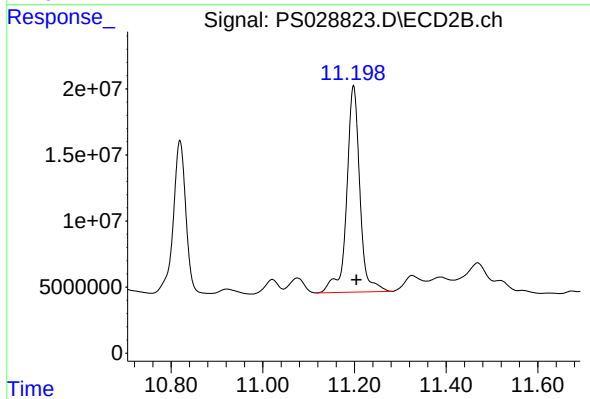
#13 2,4-DB

R.T.: 10.819 min
Delta R.T.: -0.007 min
Response: 217786039
Conc: 224.27 ng/ml



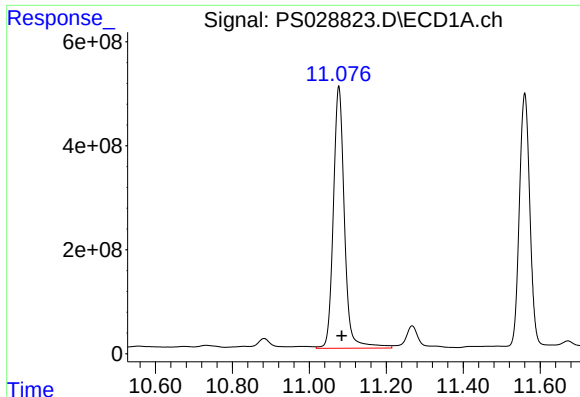
#14 DINOSEB

R.T.: 11.267 min
Delta R.T.: -0.009 min
Response: 1007296294
Conc: 74.94 ng/ml



#14 DINOSEB

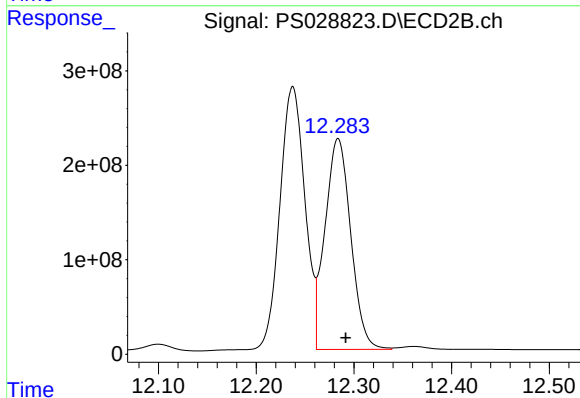
R.T.: 11.198 min
Delta R.T.: -0.006 min
Response: 311574996
Conc: 50.59 ng/ml



#15 Picloram

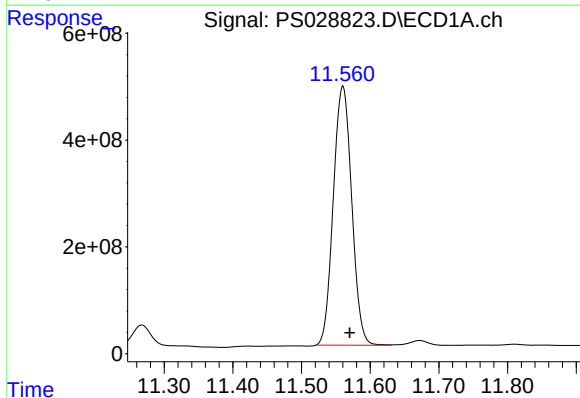
R.T.: 11.077 min
Delta R.T.: -0.007 min
Response: 10107966927
Conc: 376.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
OU4-VSL-14-121224MSD



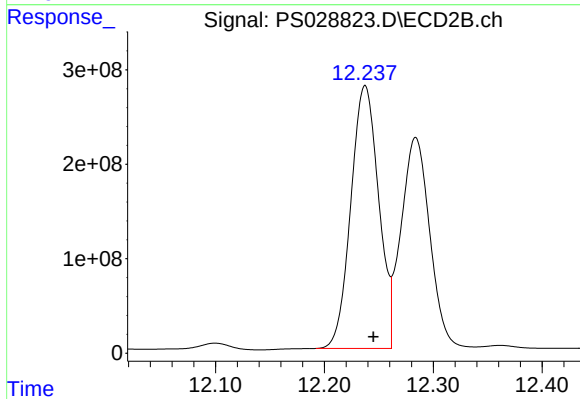
#15 Picloram

R.T.: 12.284 min
Delta R.T.: -0.008 min
Response: 4098729458
Conc: 319.24 ng/ml



#16 DCPA

R.T.: 11.560 min
Delta R.T.: -0.010 min
Response: 9039312259
Conc: 375.84 ng/ml



#16 DCPA

R.T.: 12.237 min
Delta R.T.: -0.008 min
Response: 4946526152
Conc: 460.37 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
 Data File : PS028853.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Dec 2024 12:02
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 01:38:33 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
 Quant Title : 8080.M
 QLast Update : Mon Dec 23 13:44:25 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	7.209	7.694	1761.4E6	765.3E6	778.693	679.982
Target Compounds							
1) T	Dalapon	2.621	2.675	1947.2E6	1232.9E6	691.328	626.289
2) T	3,5-DICHL...	6.384	6.657	2402.1E6	1052.5E6	728.987	634.990
3) T	4-Nitroph...	7.007	7.223	1056.3E6	527.4E6	703.263	630.156
5) T	DICAMBA	7.395	7.891	7360.7E6	3585.6E6	746.476	653.137
6) T	MCPD	7.576	7.994	448.6E6	208.5E6	72.034	63.801
7) T	MCPA	7.725	8.237	610.7E6	290.3E6	69.671	62.656
8) T	DICHLORPROP	8.099	8.604	1948.4E6	901.0E6	734.362	653.056
9) T	2,4-D	8.329	8.932	2088.3E6	910.5E6	732.861	630.920
10) T	Pentachlo...	8.627	9.457	30059.4E6	14543.3E6	769.433	667.164
11) T	2,4,5-TP ...	9.203	9.833	11834.3E6	5953.0E6	753.329	662.657
12) T	2,4,5-T	9.494	10.251	12141.2E6	5682.5E6	746.270	652.471
13) T	2,4-DB	10.065	10.816	2228.8E6	634.4E6	713.991	653.250
14) T	DINOSEB	11.271	11.194	9935.2E6	3920.4E6	739.129	636.520
15) T	Picloram	11.081	12.280	19154.3E6	8261.6E6	714.372	643.479
16) T	DCPA	11.566	12.234	18000.8E6	7168.6E6	748.443	667.183

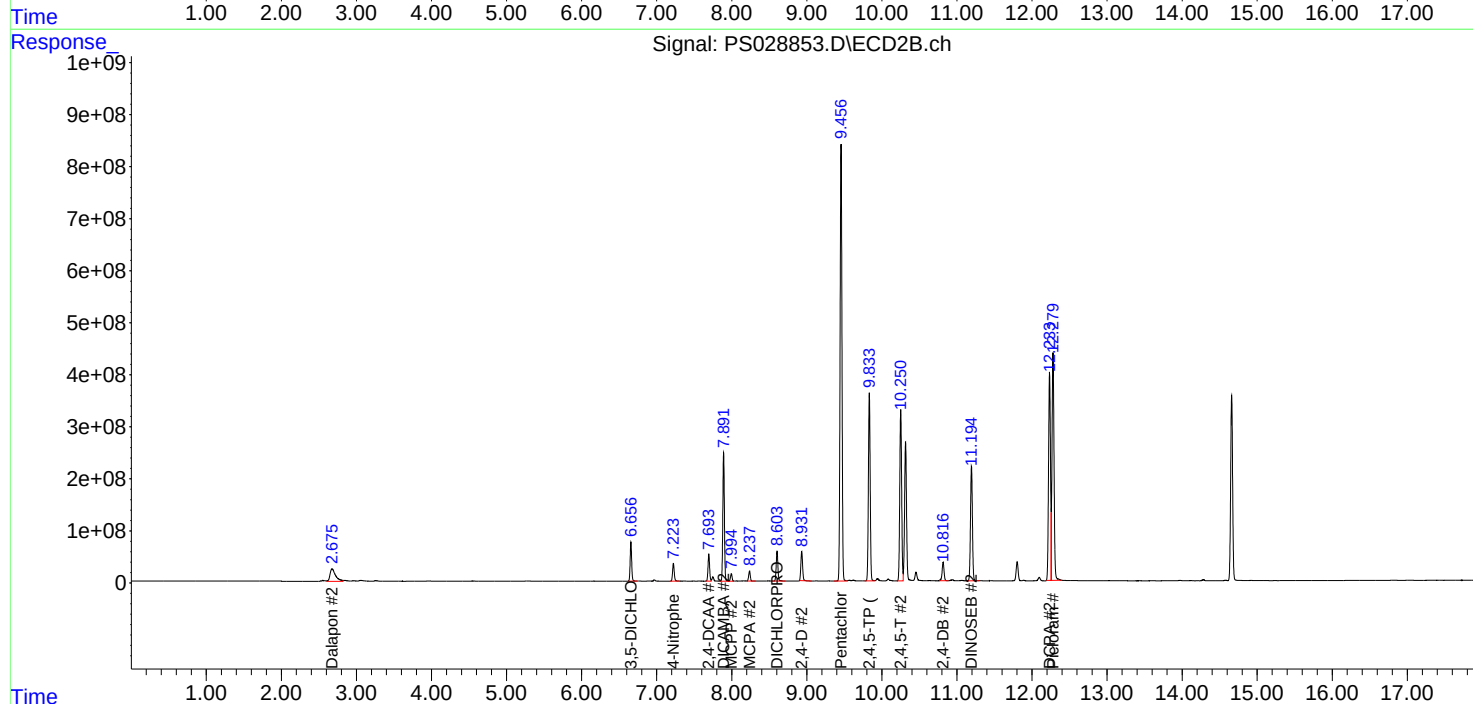
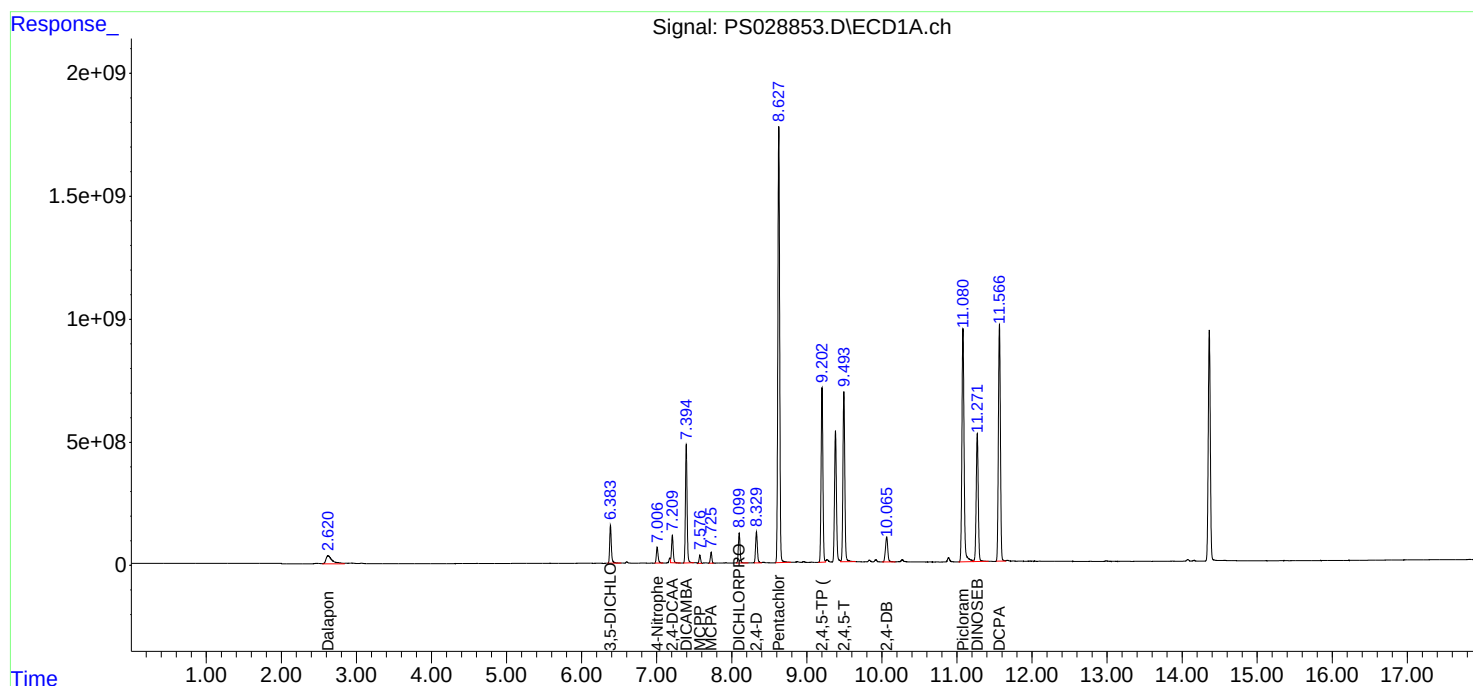
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

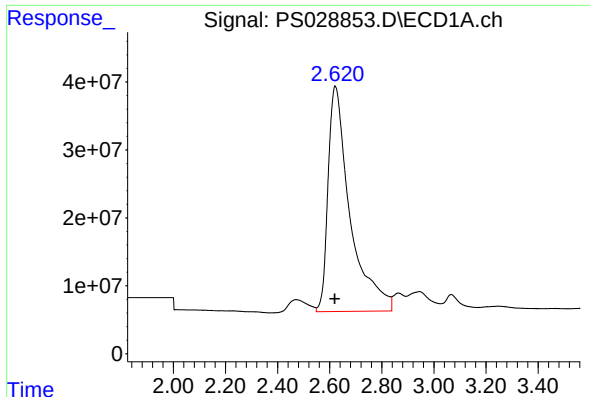
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028853.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 12:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:38:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

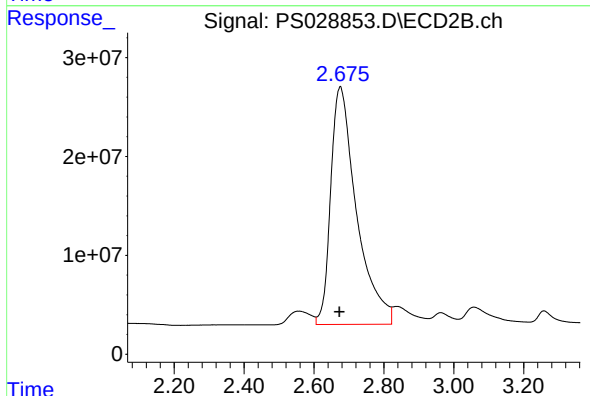




#1 Dalapon

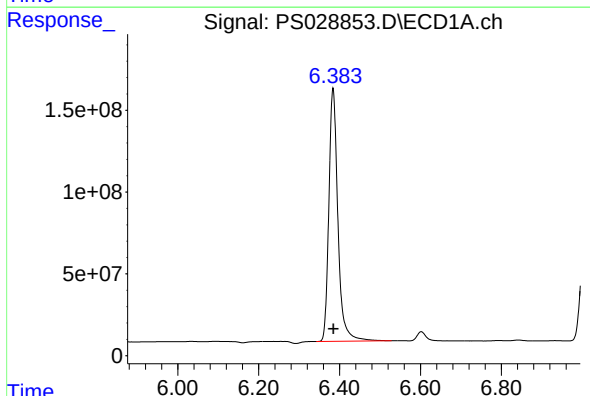
R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1947228944
Conc: 691.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



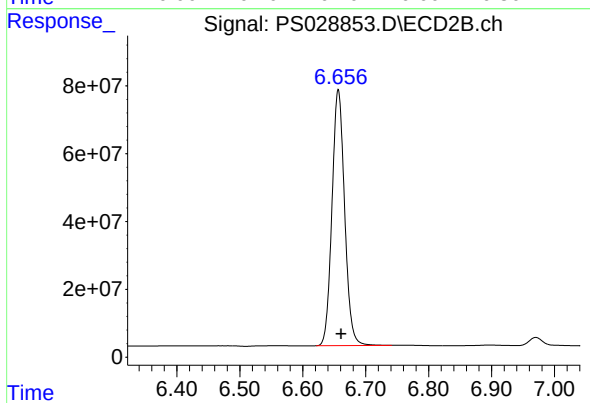
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.003 min
Response: 1232913611
Conc: 626.29 ng/ml



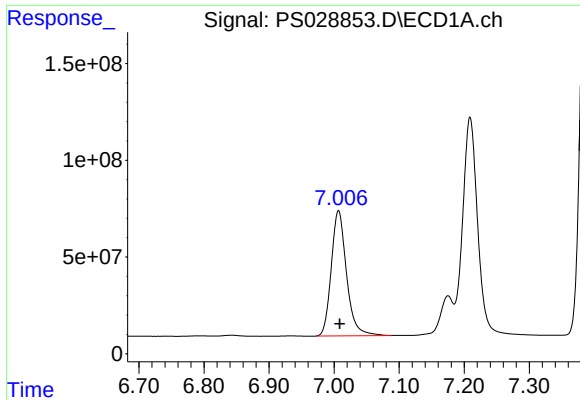
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: -0.001 min
Response: 2402109302
Conc: 728.99 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

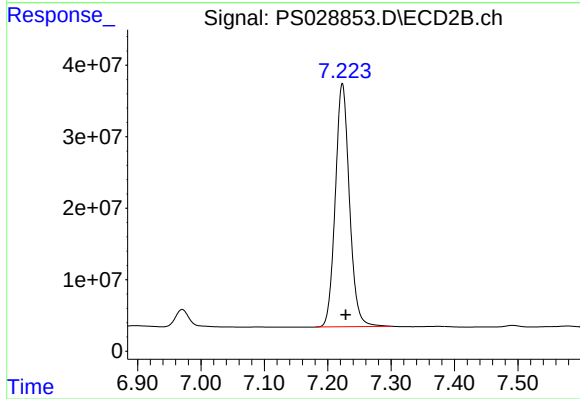
R.T.: 6.657 min
Delta R.T.: -0.004 min
Response: 1052542673
Conc: 634.99 ng/ml



#3 4-Nitrophenol

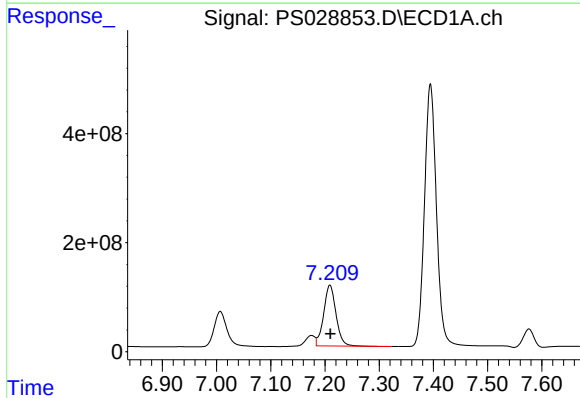
R.T.: 7.007 min
Delta R.T.: -0.002 min
Response: 1056342376
Conc: 703.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



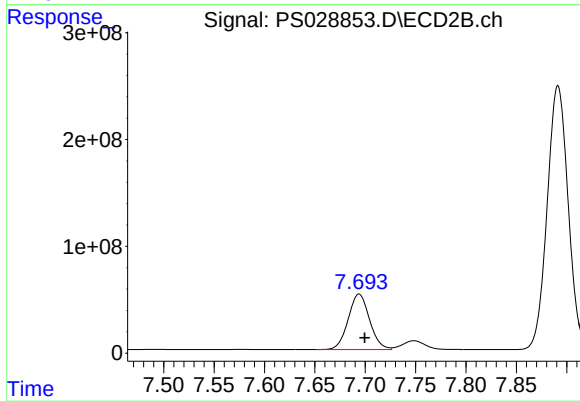
#3 4-Nitrophenol

R.T.: 7.223 min
Delta R.T.: -0.005 min
Response: 527373642
Conc: 630.16 ng/ml



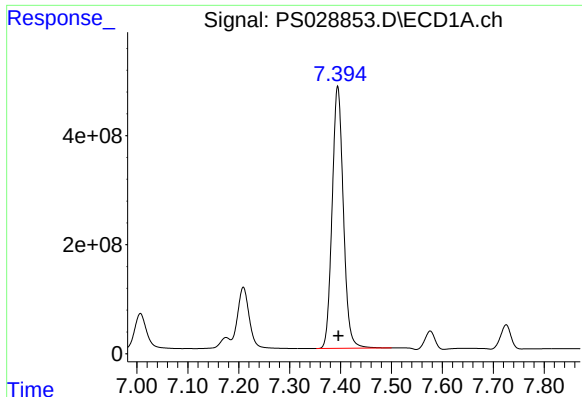
#4 2,4-DCAA

R.T.: 7.209 min
Delta R.T.: 0.000 min
Response: 1761424469
Conc: 778.69 ng/ml



#4 2,4-DCAA

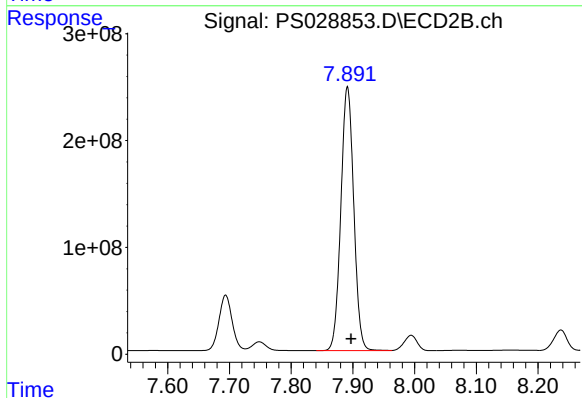
R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 765345315
Conc: 679.98 ng/ml



#5 DICAMBA

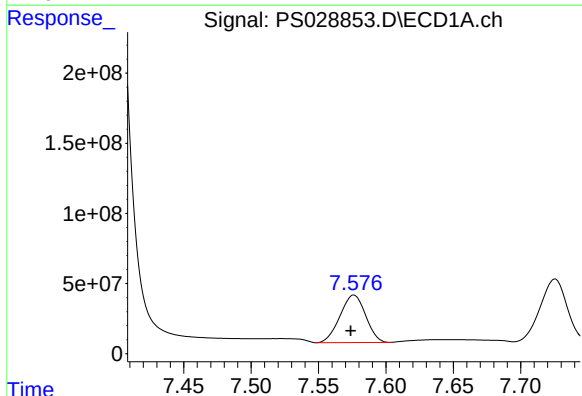
R.T.: 7.395 min
Delta R.T.: -0.001 min
Response: 7360734749
Conc: 746.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



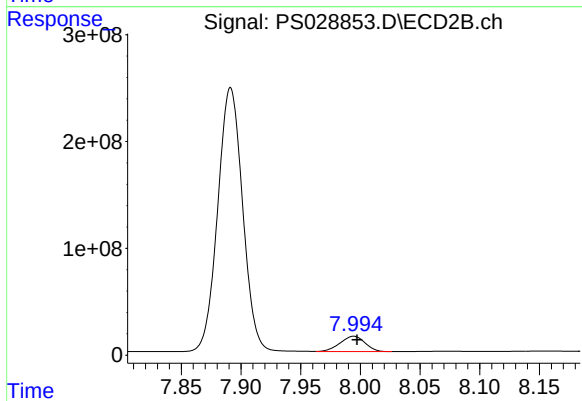
#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.006 min
Response: 3585639545
Conc: 653.14 ng/ml



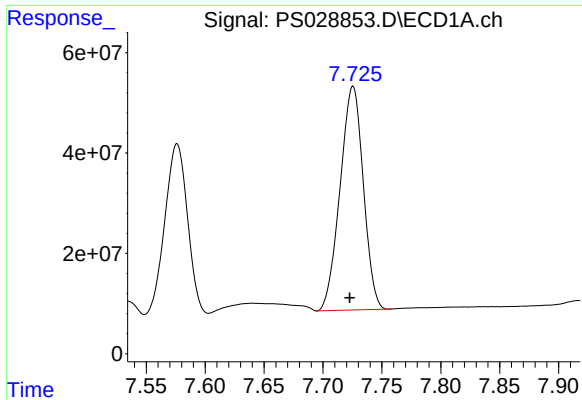
#6 MCP

R.T.: 7.576 min
Delta R.T.: 0.002 min
Response: 448568724
Conc: 72.03 ug/ml



#6 MCP

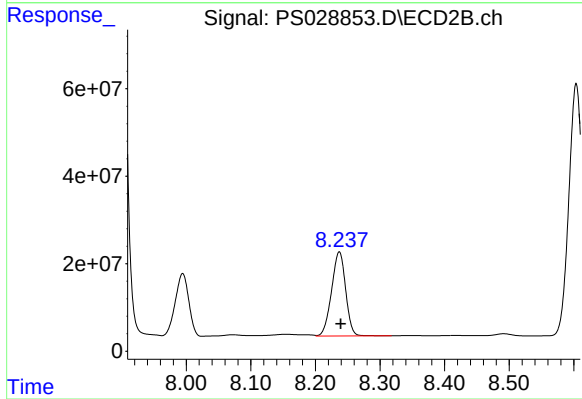
R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 208487575
Conc: 63.80 ug/ml



#7 MCPA

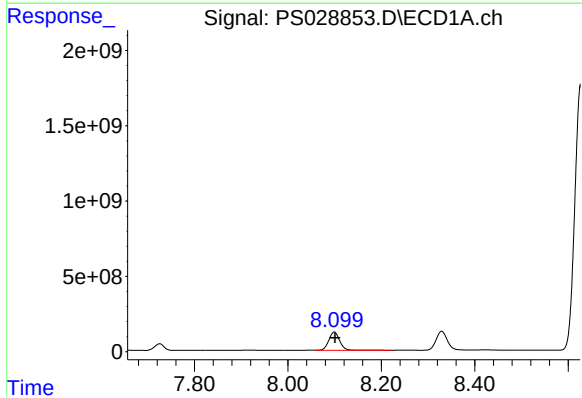
R.T.: 7.725 min
Delta R.T.: 0.003 min
Response: 610700824
Conc: 69.67 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



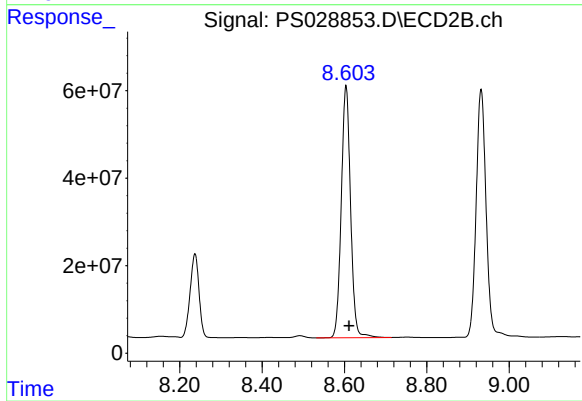
#7 MCPA

R.T.: 8.237 min
Delta R.T.: -0.002 min
Response: 290278880
Conc: 62.66 ug/ml



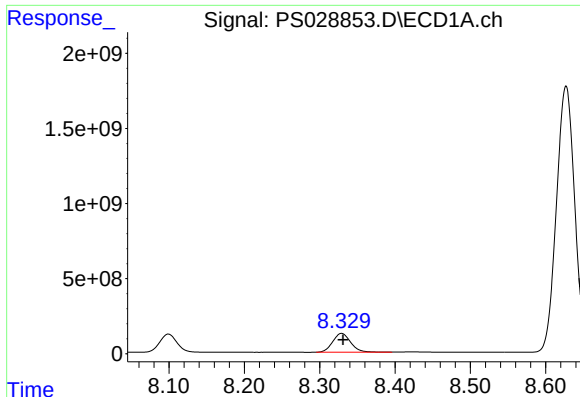
#8 DICHLORPROP

R.T.: 8.099 min
Delta R.T.: -0.002 min
Response: 1948390905
Conc: 734.36 ng/ml



#8 DICHLORPROP

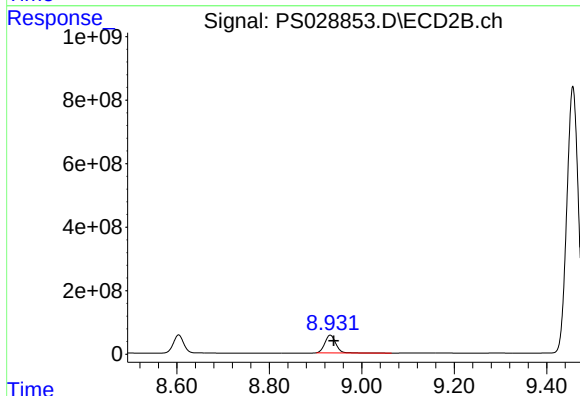
R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 900994262
Conc: 653.06 ng/ml



#9 2,4-D

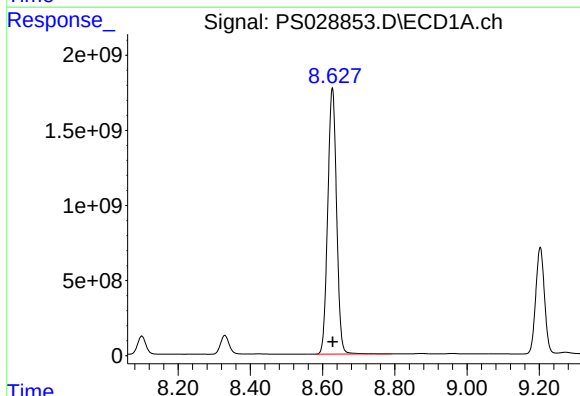
R.T.: 8.329 min
Delta R.T.: -0.002 min
Response: 2088311006
Conc: 732.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



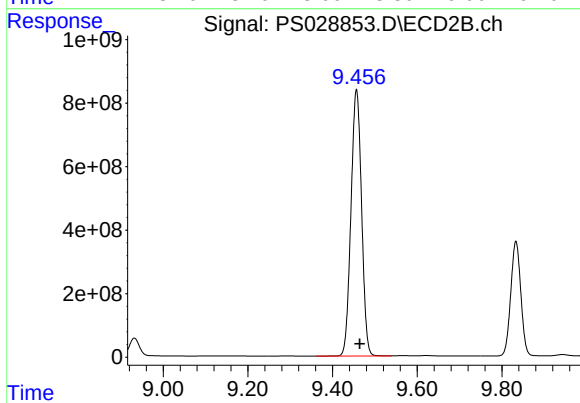
#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 910508990
Conc: 630.92 ng/ml



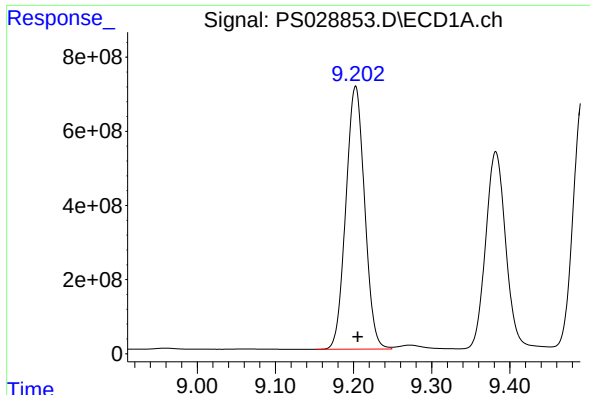
#10 Pentachlorophenol

R.T.: 8.627 min
Delta R.T.: -0.001 min
Response: 30059430980
Conc: 769.43 ng/ml



#10 Pentachlorophenol

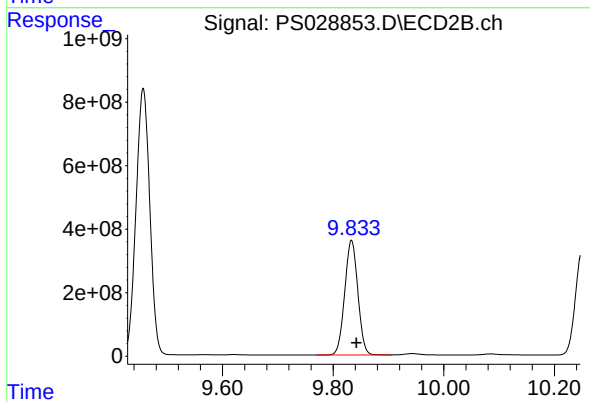
R.T.: 9.457 min
Delta R.T.: -0.008 min
Response: 14543319054
Conc: 667.16 ng/ml



#11 2,4,5-TP (SILVEX)

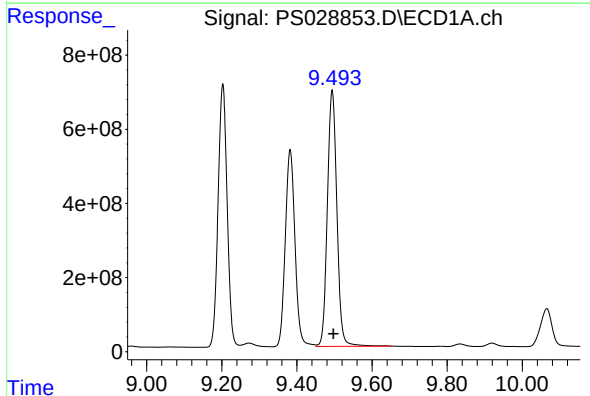
R.T.: 9.203 min
Delta R.T.: -0.003 min
Response: 11834288290
Conc: 753.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



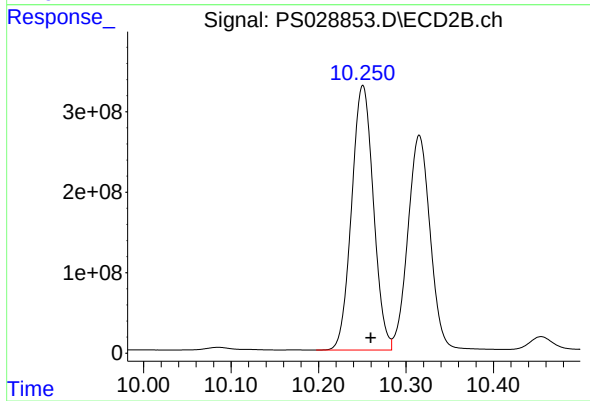
#11 2,4,5-TP (SILVEX)

R.T.: 9.833 min
Delta R.T.: -0.009 min
Response: 5952987470
Conc: 662.66 ng/ml



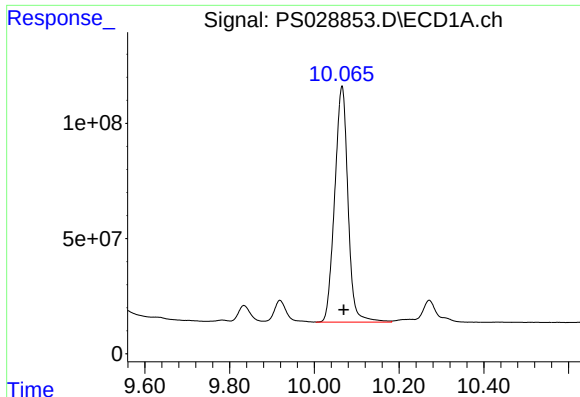
#12 2,4,5-T

R.T.: 9.494 min
Delta R.T.: -0.004 min
Response: 12141203726
Conc: 746.27 ng/ml



#12 2,4,5-T

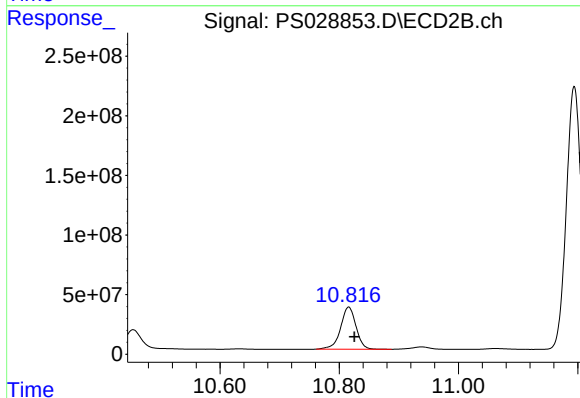
R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 5682486629
Conc: 652.47 ng/ml



#13 2,4-DB

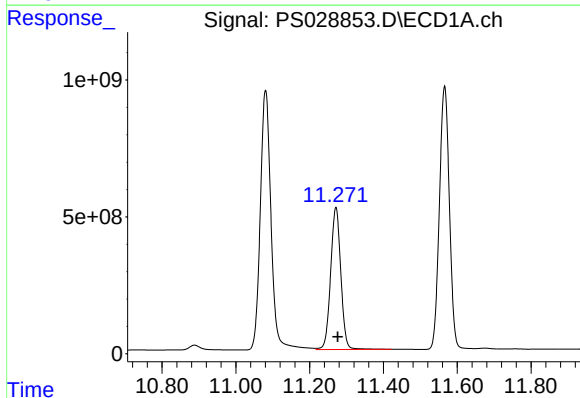
R.T.: 10.065 min
Delta R.T.: -0.004 min
Response: 2228792066
Conc: 713.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



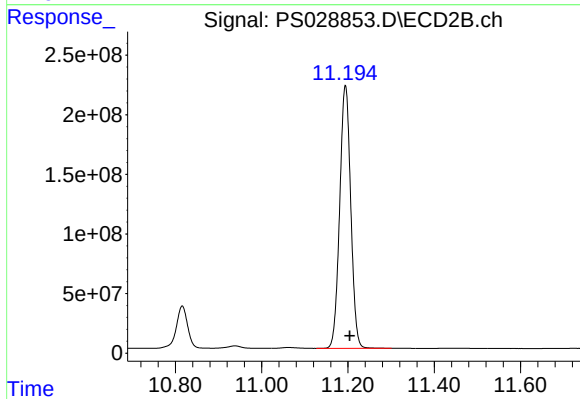
#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.010 min
Response: 634369856
Conc: 653.25 ng/ml



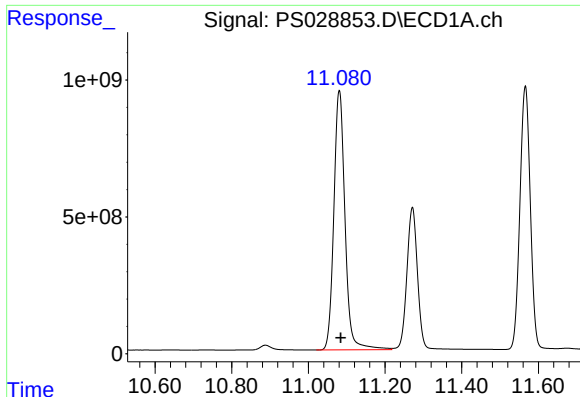
#14 DINOSEB

R.T.: 11.271 min
Delta R.T.: -0.005 min
Response: 9935171683
Conc: 739.13 ng/ml



#14 DINOSEB

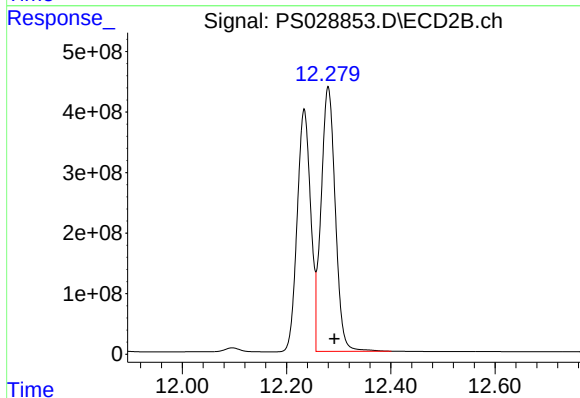
R.T.: 11.194 min
Delta R.T.: -0.010 min
Response: 3920417502
Conc: 636.52 ng/ml



#15 Picloram

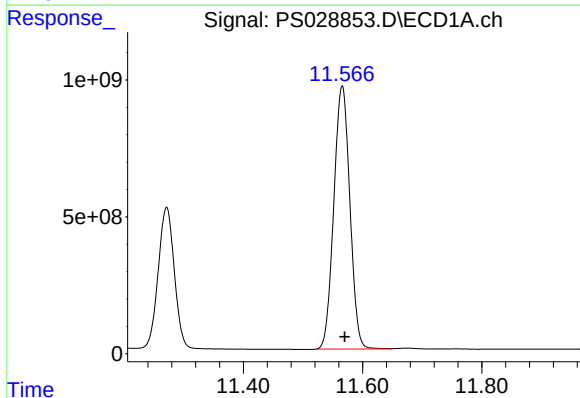
R.T.: 11.081 min
Delta R.T.: -0.004 min
Response: 19154286656
Conc: 714.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



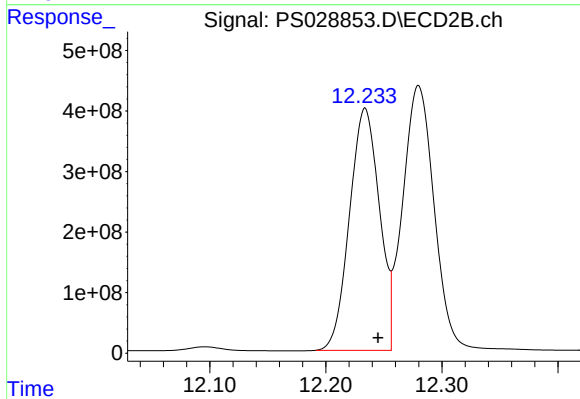
#15 Picloram

R.T.: 12.280 min
Delta R.T.: -0.012 min
Response: 8261640955
Conc: 643.48 ng/ml



#16 DCPA

R.T.: 11.566 min
Delta R.T.: -0.004 min
Response: 18000833847
Conc: 748.44 ng/ml



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.011 min
Response: 7168597046
Conc: 667.18 ng/ml